



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 680



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

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

ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

Dunn Field, Def Depot Memphis

Lot #: C1C220173

Frank Johnson

UXB International

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 # C1C220173

Sample Receiving:

STL Pittsburgh received samples on March 22, 2001 in good condition and within the proper temperature range.

Volatiles:

Due to the concentration of chloroform detected, the samples were analyzed at a 50X dilution.

Semivolatiles:

Due to the sample matrix and recent matrix related difficulties with other aqueous samples for the Project, the samples were analyzed at a 10X dilution. The samples had several surrogate recoveries outside of the control limits, most likely due to the dilution of the surrogates in combination with the sample matrix. The samples also had the third and/or 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 in sample DF/24-B/1080/IDW/005.

The results of these samples were discussed with the client. Based on knowledge of the matrix (clorox based rinse water) and 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.

Pesticides:

The recoveries of tetrachloro-m-xylene surrogate were outside of the control limits for the samples 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.

PCBs:

The recovery of tetrachloro-m-xylene surrogate was outside of the control limits for both samples. 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.

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C1C220173

Metals:

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 matrix spike and matrix spike duplicate had the recovery of aluminum outside of the control limits. All associated results are flagged with an "N" qualifier.

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

Both samples were over the instrument's linear range for sodium and required dilution.

General Chemistry:

The matrix spike recoveries of cyanide for sample DF/24-B/1080/IDW/005 were zero percent. The recovery of the laboratory control sample was within the control limits.

METHODS SUMMARY

C1C220173

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

C1C220173

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DXRH2	001	DF/24-B/1080/IDW/004	03/21/01	07:48
DXRKF	002	DF/24-B/1080/IDW/005	03/21/01	10:47

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.

**SEVERN
° TRENT
SERVICES**

Chain of Custody Record

Sewern Trent Laboratories, Inc.

[illegible]

**SEVERN-
TRENT
SERVICES**

Severn Trent Laboratories, Inc.

Comments

Cooler Receipt Form
STL Pittsburgh

Client: UXB Project: _____ Quote: 34878
 Cooler Rec'd & Opened for Temp. Check on: 3-22-01
 Coolers Opened and Unpacked on: 3-22-01 By: [Signature]
 (Signature)

STL Pittsburgh Lot Number: CIC220173

	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.

680 9

[illegible]

Comments: _____

Cooler Number	Temperature
1	4°
2	4°
	...

[illegible]

Page 2 of 2

FedEx USA Airbill
Express

826856801715

1 From Date 31 Mar 01

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

Company UAB International (2512-060)

Address 1708 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
To "HOLD" at FedEx location, print FedEx address.

City Pittsburgh State PA ZIP 15238



4a Express Package Service
☒ FedEx Priority Overnight
Next business morning
☐ FedEx Standard Overnight
Next business afternoon
☐ FedEx First Overnight
Earliest next business morning
Delivery to select locations

Packages up to 150 lbs.
Delivery commitment may be later in some areas.

☐ FedEx 2Day
Second business day
☐ FedEx Express Saver
Third business day

* FedEx Express Saver® available
Monday through Friday. One-piece retail
minimum charge. One-piece retail
minimum charge. One-piece retail
minimum charge.

4b Express Freight Service

☐ FedEx 1Day Freight
Next business day
☐ FedEx 2Day Freight
Second business day
☐ FedEx 3Day Freight
Third business day

Packages over 150 lbs.
Delivery commitment may be later in some areas.

* Call for Confirmation.

5 Packaging

☐ FedEx Envelope/
Letter*
☐ FedEx Pak*
☒ Other Pkg.
Not available with FedEx Home
Delivery and customer pay.

* Declared value limit \$500

6 Special Handling

☐ SATURDAY Delivery
Available only for FedEx Priority
Overnight and FedEx 2Day
to select ZIP codes.
☐ SUNDAY Delivery
Available only for FedEx Priority
Overnight to select ZIP codes.
☐ HOLD Weekday
at FedEx Location
Not available with
FedEx First Overnight
to select locations.
☐ HOLD Saturday
at FedEx Location
Not available with
FedEx First Overnight
to select locations.

* Include FedEx address in Section 3.

Does this shipment contain dangerous goods?

☒ No ☐ Yes
Dangerous Goods cannot be shipped in FedEx packaging.
Shipper's Declaration
not required.

Day/ice
Dry Ice 1 UN 1825
☐ Cargo Aircraft Only

7 Payment Bill to:

☒ Sender
Account No. in Section
3.
☐ Recipient
☐ Third Party
☐ Credit Card
☐ Cash/Check

Obtain Receipt
J Act. No.

Total Packages

49

Total Declared Value\$

\$.00

Total Charges

Credit Card Auth.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature
and agree to indemnify and hold us harmless from any resulting claims.
Questions? Visit our Web site at www.fedex.com
or call 1-800-60-FedEx (663-463-3333).

360

09E

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

21 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/1080/IDW/ 004		ND	ND		ND
DF/24B/1080/IDW/ 005		ND	ND		ND

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

MDL= 200 ppb

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

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

TRIP= triplicate

*= samples will be analyzed for TDG

q= approximate results detected

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

21 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/1080/IDW/ 004		ND	ND		ND
DF/24B/1080/IDW/ 005		ND	ND		ND

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

MDL= 200 ppb

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

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

TRIP= triplicate

*= samples will be analyzed for TDG

q= approximate results detected

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220173 001

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 03/22/01
Work Order: DXRH21AA Date Extracted: 03/26/01
Dilution factor: 50 Date Analyzed: 03/26/01
Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	320	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	400	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	920	
67-66-3	Chloroform	8000	
74-87-3	Chloromethane	760	
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	250	U
108-10-1	4-Methyl-2-pentanone	2500	
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	250	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRH21AA

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/004

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRKF1AM

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/005

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	200	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	140	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	6600	
74-87-3	Chloromethane	550	
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	250	U
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	250	U
108-88-3	Toluene	250	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRKF1AM

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/005

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C260000 303
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 03/22/01
Work Order: DX0KD1AC Date Extracted: 03/26/01
Dilution factor: 1 Date Analyzed: 03/26/01
Moisture %: NA

QC Batch: 1085303

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	51.8	
108-90-7	Chlorobenzene	49.4	
75-35-4	1,1-Dichloroethene	51.7	
108-88-3	Toluene	51.0	
79-01-6	Trichloroethene	52.2	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	100	94	102	98	00
02	DF/24-B/1080/IDW/004	105	101	106	103	00
03	DF/24-B/1080/IDW/005	103	103	104	105	00
04	METHOD BLK. DX0KD1AA	102	95	102	97	00
05	LCS DX0KD1AC	103	101	102	103	00
06	LAB MS/MSD D	102	100	99	101	00
07	LAB MS/MSD S	102	101	100	102	00

SURROGATES

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

QC LIMITS

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

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

FORM II

680 22 SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C260000

WO #: DX0KD1AC

BATCH: 1085303

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	51.7	103	65- 119	
Trichloroethene	50.0	52.2	104	80- 122	
Benzene	50.0	51.8	104	79- 116	
Toluene	50.0	51.0	102	76- 119	
Chlorobenzene	50.0	49.4	99	81- 115	

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 #: C1C220162

WO #: DXRDK1AD

BATCH: 1085303

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	ND	50.1	100	57- 138	
Trichloroethene	50.0	ND	52.4	105	58- 141	
Benzene	50.0	ND	52.3	105	73- 123	
Toluene	50.0	ND	50.5	101	67- 129	
Chlorobenzene	50.0	ND	48.8	98	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: STLPIIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220162

WO #: DXRDK1AE

BATCH: 1085303

COMPOUND	SPIKE	MSD	MSD	QC LIMITS				QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD	REC		
1,1-Dichloroethene	50.0	50.4	101	0.67	20	57 - 138		
Trichloroethene	50.0	52.7	105	0.60	20	58 - 141		
Benzene	50.0	50.7	101	3.2	20	73 - 123		
Toluene	50.0	50.4	101	0.11	20	67 - 129		
Chlorobenzene	50.0	48.8	98	0.20	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:

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DX0KD1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 60326N01.

Lot Number: C1C220173

Date Analyzed: 03/26/01

Time Analyzed: 11:57

Matrix: WATER

Date Extracted: 03/26/01

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	INTRA-LAB QC	DXRDK1AA	60326N02.	03/26/01	12:31
02	LAB MS/MSD	DXRDK1AD S	60326N04.	03/26/01	13:19
03	LAB MS/MSD	DXRDK1AE D	60326N05.	03/26/01	13:45
04	DF/24-B/1080/IDW/004	DXRH21AA	60326N11.	03/26/01	17:07
05	DF/24-B/1080/IDW/005	DXRKFLAM	60326N14.	03/26/01	18:44
06	CHECK SAMPLE	DXOKD1AC C	60326N03.	03/26/01	12:55
07					
08					
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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: C1C260000 303

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DX0KD1AA

Date Extracted: 03/26/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

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: C1C260000 303

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

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DX0KD1AA

Date Extracted: 03/26/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

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

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab File ID (Standard): CC60326N

Date Analyzed: 03/26/01

Instrument ID: HP6

Time Analyzed: 1121

GC Column: DB 624

ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	164725	9.74	287392	12.05	696645	6.61
UPPER LIMIT	329450	9.94	574784	12.25	1393290	6.81
LOWER LIMIT	82363	9.54	143696	11.85	348323	6.41
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	164132	9.73	262824	12.05	741515	6.61
02 INTRA-LAB CH	178420	9.74	291936	12.05	729322	6.61
03 DF/24-B/1080	174539	9.73	286287	12.05	766061	6.61
04 DF/24-B/1080	173688	9.73	285707	12.05	760318	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 = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

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

GC/MS SEMIVOLATILE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/004

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1AN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/005

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKFLAN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/005

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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	89	J
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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKFLAN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/005

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AC

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	33.1	
59-50-7	4-Chloro-3-methylphenol	46.1	
95-57-8	2-Chlorophenol	51.0	
106-46-7	1,4-Dichlorobenzene	33.4	
121-14-2	2,4-Dinitrotoluene	29.0	
100-02-7	4-Nitrophenol	38.0	
621-64-7	N-Nitrosodi-n-propylamine	32.0	
87-86-5	Pentachlorophenol	36.1	
108-95-2	Phenol	47.1	
129-00-0	Pyrene	36.7	
120-82-1	1,2,4-Trichlorobenzene	33.0	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AD

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	37.0	Q
59-50-7	4-Chloro-3-methylphenol	52.4	
95-57-8	2-Chlorophenol	54.8	
106-46-7	1,4-Dichlorobenzene	35.5	
121-14-2	2,4-Dinitrotoluene	34.2	
100-02-7	4-Nitrophenol	46.2	
621-64-7	N-Nitrosodi-n-propylamine	35.0	
87-86-5	Pentachlorophenol	40.6	
108-95-2	Phenol	51.7	
129-00-0	Pyrene	38.4	
120-82-1	1,2,4-Trichlorobenzene	35.8	

680 38

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1080/IDW/004	0.0*	32	59	12	0.0*	0.0*	03
02	DF/24-B/1080/IDW/005	0.0*	23 *	49	0.0*	20	0.0*	04
03	METHOD BLK. DXV861AA	67	74	71	84	65	58	00
04	LCS DXV861AC	62	69	67	76	62	55	00
05	LCSD DXV861AD	66	74	72	79	66	57	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

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV861AC

BATCH: 1082320

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	47.1	63	10- 131	
2-Chlorophenol	75.0	51.0	68	19- 124	
1,4-Dichlorobenzene	50.0	33.4	67	28- 110	
N-Nitrosodi-n-propylamine	50.0	32.0	64	30- 115	
1,2,4-Trichlorobenzene	50.0	33.0	66	31- 110	
4-Chloro-3-methylphenol	75.0	46.1	61	29- 124	
Acenaphthene	50.0	33.1	66	39- 118	
4-Nitrophenol	75.0	38.0	51	19- 144	
2,4-Dinitrotoluene	50.0	29.0	58	47- 131	
Pentachlorophenol	75.0	36.1	48	10- 140	
Pyrene	50.0	36.7	73	46- 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

680 40 SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV861AD

BATCH: 1082320

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	51.7	69	10 - 131	
2-Chlorophenol	75.0	54.8	73	19 - 124	
1,4-Dichlorobenzene	50.0	35.5	71	28 - 110	
N-Nitrosodi-n-propylamine	50.0	35.0	70	30 - 115	
1,2,4-Trichlorobenzene	50.0	35.8	72	31 - 110	
4-Chloro-3-methylphenol	75.0	52.4	70	29 - 124	
Acenaphthene	50.0	37.0	74	39 - 118	
4-Nitrophenol	75.0	46.2	62	19 - 144	
2,4-Dinitrotoluene	50.0	34.2	68	47 - 131	
Pentachlorophenol	75.0	40.6	54	10 - 140	
Pyrene	50.0	38.4	77	46 - 130	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

SW846 8270C METHOD BLANK SUMMARY

DXV861AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: F0326060.

Lot Number: C1C220173

Date Analyzed: 03/27/01

Time Analyzed: 01:33

Matrix: WATER

Date Extracted: 03/23/01

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/1080/IDW/004	DXRH21AC	F0326063.	03/27/01	05:51
02	DF/24-B/1080/IDW/005	DXRKFLAN	F0326064.	03/27/01	06:23
03	CHECK SAMPLE	DXV861AC C	F0326061.	03/27/01	02:06
04	DUPLICATE CHECK	DXV861AD L	F0326062.	03/27/01	02:38
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AA

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AA

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

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

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AA

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

680 45

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: *C622073*

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 BL	185055	5.02	731383	6.54	404920	9.54
02 INTRA-LAB CH	197505	5.01	807913	6.52	447723	9.53
03 INTRA-LAB CH	169548	5.00	678993	6.52	381931	9.52
04 DF/24-B/1080	204274	5.01	793655	6.52	366246	9.53
05 DF/24-B/1080	178162	5.02	673130	6.54	127083*	9.55
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.: C1022473

Lab File ID (Standard): F03260CN

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 2147

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	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 BL	702076	12.83	652680	19.45	583051	22.81
02 INTRA-LAB CH	754094	12.81	683605	19.43	603294	22.78
03 INTRA-LAB CH	684638	12.81	693774	19.43	636422	22.78
04 DF/24-B/1080	835256	12.82	1304574	19.45	9282*	22.79
05 DF/24-B/1080	675870	12.84	994624	19.47		
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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AD

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
309-00-2	Aldrin	0.14		P
319-84-6	alpha-BHC	0.050		U
319-85-7	beta-BHC	0.75		P
319-86-8	delta-BHC	0.31		
58-89-9	gamma-BHC (Lindane)	0.065		P
5103-71-9	alpha-Chlordane	0.050		U
5103-74-2	gamma-Chlordane	0.16		P
72-54-8	4,4'-DDD	0.046		J P
72-55-9	4,4'-DDE	0.078		P
50-29-3	4,4'-DDT	0.041		J P
60-57-1	Dieldrin	0.10		P
959-98-8	Endosulfan I	0.20		P
33213-65-9	Endosulfan II	0.025		J P
1031-07-8	Endosulfan sulfate	0.050		U
72-20-8	Endrin	0.050		U
7421-93-4	Endrin aldehyde	0.16		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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1AP

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.34	
319-86-8	delta-BHC	0.21	
58-89-9	gamma-BHC (Lindane)	0.22	P
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.074	P
72-54-8	4,4'-DDD	0.023	J P
72-55-9	4,4'-DDE	0.075	
50-29-3	4,4'-DDT	0.053	P
60-57-1	Dieldrin	0.084	P
959-98-8	Endosulfan I	0.14	P
33213-65-9	Endosulfan II	0.065	
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.060	P
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.024	J P
1024-57-3	Heptachlor epoxide	0.12	P
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: C1C250000 105

Sample WT/Vol: 1000 / mL
Work Order: DXX2E1AC
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.200	
58-89-9	gamma-BHC (Lindane)	0.206	
50-29-3	4,4'-DDT	0.443	
60-57-1	Dieldrin	0.448	
72-20-8	Endrin	0.448	
76-44-8	Heptachlor	0.202	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C1C250000 105
Method: SW846 8081A
Pesticides (8081A)
Sample WT/Vol: 1000 / mL Date Received: 03/22/01
Work Order: DXX2E1AD Date Extracted: 03/25/01
Dilution factor: 1 Date Analyzed: 03/26/01
QC Batch: 1084105
Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.210	
58-89-9	gamma-BHC (Lindane)	0.215	
50-29-3	4,4'-DDT	0.456	
60-57-1	Dieldrin	0.454	
72-20-8	Endrin	0.458	
76-44-8	Heptachlor	0.211	

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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	DF/24-B/1080	0*	198*	60	74			2
02	DF/24-B/1080	0*	204*	66	73			2
03	PBLK4105	81	86	84	91			0
04	LCS4105	81	86	84	92			0
05	LCD4105	82	86	84	91			0
06								
07								
08								
09								
10								
11								
12								
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14								
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20								
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23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITSS1 (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

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2E1AC

BATCH: 1084105

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.206	83	49- 137	
Dieldrin	0.500	0.448	90	68- 130	
Heptachlor	0.250	0.202	81	57- 124	
Aldrin	0.250	0.200	80	62- 120	
Endrin	0.500	0.448	90	46- 137	
4,4'-DDT	0.500	0.443	89	60- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

680 54 SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2E1AD

BATCH: 1084105

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.215	86	49 - 137	
Heptachlor	0.250	0.211	84	57 - 124	
Aldrin	0.250	0.210	84	62 - 120	
Dieldrin	0.500	0.454	91	68 - 130	
Endrin	0.500	0.458	92	46 - 137	
4,4'-DDT	0.500	0.456	91	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

680 55

EPA SAMPLE NO.

PBLK4105

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXX2E1AA

Lab File ID: D-A3189

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 03/25/01

Date Analyzed (1): 03/26/01

Date Analyzed (2): 03/26/01

Time Analyzed (1): 2118

Time Analyzed (2): 2118

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	DF/24-B/1080	DXRH21AD	03/26/01	03/26/01
02	DF/24-B/1080	DXRKF1AP	03/26/01	03/26/01
03	LCS4105	DXX2E1AC	03/26/01	03/26/01
04	LCD4105	DXX2E1AD	03/26/01	03/26/01
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: C1C250000 105

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXX2E1AA

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
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

PCB SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AE

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1AQ

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DF/24-B/1080/IDW/005

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

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: C1C250000 106

Sample WT/Vol: 1000 / mL
Work Order: DXX2F1AC
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	7.97	
11096-82-5	Aroclor 1260	8.38	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C250000 106

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXX2F1AD

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
12674-11-2	Aroclor 1016	8.81		
11096-82-5	Aroclor 1260	9.07		

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1080/IDW/004	762*	77	01
02	DF/24-B/1080/IDW/005	419*	74	01
03	METHOD BLK. DXX2F1AA	90	90	00
04	LCS DXX2F1AC	80	85	00
05	LCSD DXX2F1AD	90	92	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

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2F1AC

BATCH: 1084106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.97	80	61- 118	
Aroclor 1260	10.0	8.38	84	61- 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

680 64

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2F1AD

BATCH: 1084106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	8.81	88	61- 118	
Aroclor 1260	10.0	9.07	91	61- 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXX2F1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A20887.

Lot Number: C1C220173

Matrix: WATER

Extraction Method:

Date Extracted: 03/25/01

Date Analyzed(1): 03/27/01

Date Analyzed(2): N/A

Time Analyzed(1): 06:54

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/1080/IDW/004	DXRH21AE	03/27/01	N/A
02	DF/24-B/1080/IDW/005	DXRKFLAQ	03/27/01	N/A
03	CHECK SAMPLE	DXX2F1AC C	03/27/01	N/A
04	DUPLICATE CHECK	DXX2F1AD L	03/27/01	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C250000 106

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXX2F1AA

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/27/01

QC Batch: 1084106

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1080/IDW/004

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)	6.7		J

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1080/IDW/005

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)		4.1	J P

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: C1C230000 391

Sample WT/Vol: 1000 / mL
Work Order: DXWV51AC
Dilution factor: 1
Moisture %: NADate Received: 03/21/01
Date Extracted: 03/23/01
Date Analyzed: 03/27/01

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
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID: C1C230000 391

Sample WT/Vol: 1000 / mL
Work Order: DXWV51AD
Dilution factor: 1
Moisture %: NADate Received: 03/21/01
Date Extracted: 03/23/01
Date Analyzed: 03/27/01

QC Batch: 1082391

Client Sample Id: DUPLICATE CHECK

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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/1080	155D	383D					0
05	DF/24-B/1080	17D	233D				0.38e1	20
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

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPTIT

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

680 74 SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

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:

FORM III

4C
PESTICIDE METHOD BLANK SUMMARY

680 75 EPA SAMPLE NO.

PBLK2391

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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/1080	DXRH21CC	03/28/01	03/28/01
04	DF/24-B/1080	DXRKF1CC	03/28/01	03/28/01
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
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID: C1C230000 391

Sample WT/Vol: 1000 / mL
Work Order: DXWV51AA
Dilution factor: 1
Moisture %: NADate Received: 03/21/01
Date Extracted: 03/23/01
Date Analyzed: 03/27/01

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

METALS SUMMARY

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 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	3750	N	1	ICP	3/25/01	14:52
Antimony	220.35	1.5	60.0	4.9	B	1	ICPST	3/25/01	18:15
Arsenic	189.04	2.6	10.0	21.0		1	ICPST	3/25/01	18:15
Barium	493.41	0.41	200	112	BE	1	ICP	3/25/01	14:52
Beryllium	313.04	0.071	5.0	0.34	B	1	ICP	3/25/01	14:52
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/25/01	18:15
Calcium	317.93	37.9	5000	27400		1	ICP	3/25/01	14:52
Chromium	267.72	1.0	10.0	145		1	ICPST	3/25/01	18:15
Cobalt	228.62	3.2	50.0	5.1	B	1	ICP	3/25/01	14:52
Copper	324.75	2.2	25.0	27.1		1	ICP	3/25/01	14:52
Iron	259.94	8.8	100	3600	E	1	ICP	3/25/01	14:52
Lead	220.35	1.9	3.0	8.8		1	ICPST	3/25/01	18:15
Magnesium	279.08	19.9	5000	5680	E	1	ICP	3/25/01	14:52
Manganese	257.61	0.87	15.0	99.5	E	1	ICP	3/25/01	14:52
Nickel	231.60	6.1	40.0	10.5	B	1	ICP	3/25/01	14:52
Potassium	766.49	496	5000	5520		1	ICP	3/25/01	14:52
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/25/01	18:15
Silver	328.07	0.94	10.0	1.5	B	1	ICPST	3/25/01	18:15
Sodium	589	363	125000	3670000	E	25	ICP	3/25/01	19:19
Thallium	190.86	3.9	10.0	8.6	B	1	ICPST	3/25/01	18:15
Vanadium	292.40	1.8	50.0	10.7	B	1	ICP	3/25/01	14:52
Zinc	213.86	3.1	20.0	614		1	ICP	3/25/01	14:52

Comments: Lot #: C1C220173 Sample #. 1

Version 4.10 2

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

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRKF Client ID: DF/24-B/1080/IDW/005
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 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	4060	N	1	ICP	3/25/01	15:05
Antimony	220.35	1.5	60.0	7.0	B	1	ICPST	3/25/01	18:33
Arsenic	189.04	2.6	10.0	77.3		1	ICPST	3/25/01	18:33
Barium	493.41	0.41	200	119	BE	1	ICP	3/25/01	15:05
Beryllium	313.04	0.071	5.0	0.090	B	1	ICP	3/25/01	15:05
Cadmium	226.50	0.49	5.0	0.52	B	1	ICPST	3/25/01	18:33
Calcium	317.93	37.9	5000	34000		1	ICP	3/25/01	15:05
Chromium	267.72	1.0	10.0	34.3		1	ICPST	3/25/01	18:33
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	3/25/01	15:05
Copper	324.75	2.2	25.0	22.2	B	1	ICP	3/25/01	15:05
Iron	259.94	8.8	100	4290	E	1	ICP	3/25/01	15:05
Lead	220.35	1.9	3.0	16.2		1	ICPST	3/25/01	18:33
Magnesium	279.08	19.9	5000	5660	E	1	ICP	3/25/01	15:05
Manganese	257.61	0.87	15.0	269	E	1	ICP	3/25/01	15:05
Nickel	231.60	6.1	40.0	8.9	B	1	ICP	3/25/01	15:05
Potassium	766.49	496	5000	3940	B	1	ICP	3/25/01	15:05
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/25/01	18:33
Silver	328.07	0.94	10.0	1.1	B	1	ICPST	3/25/01	18:33
Sodium	589	363	125000	2010000	E	25	ICP	3/25/01	19:38
Thallium	190.86	3.9	10.0	7.0	B	1	ICPST	3/25/01	18:33
Vanadium	292.40	1.8	50.0	8.9	B	1	ICP	3/25/01	15:05
Zinc	213.86	3.1	20.0	1690		1	ICP	3/25/01	15:05

Comments: Lot #: C1C220173 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
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	0.16	B	1	CVAA	3/26/01	11:10

Comments: Lot #: C1C220173 Sample # 1

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRKF Client ID: DF/24-B/1080/IDW/005
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
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	0.10	B	1	CVAA	3/26/01	11:15

Comments. Lot #: C1C220173 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

/	WL/ Mass	Report Limit	ICB1 3/26/01 9.42 AM					
			Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U				

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/25/01 2:07 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.6	B										
Beryllium	313.042	5	0.7	B										
Calcium	317.933	5000	37.9	U										
Cobalt	228.616	50	3.6	B										
Copper	324.754	25	2.2	U										
Iron	259.94	100	17.2	B										
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	23.9	B										
Vanadium	292.402	50	1.8	U										
Zinc	213.856	20	3.1	U										

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/25/01 12:26 PM		Found	Q	Found	Q	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	1.0	U										
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	5.0	B										

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/27/01 6:43 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Selenium	220.353	5	2.3	B						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/26/01 9:45 AM	CCB2 3/26/01 10:03 AM	CCB3 3/26/01 10:23 AM	CCB4 3/26/01 10:42 AM	CCB5 3/26/01 11:01 AM
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U	-0.1 B	0.1 U	0.1 U	0.1 U

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

			CCB6 3/26/01 11:18 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/25/01 2:49 PM		CCB2 3/25/01 3:42 PM		CCB3 3/25/01 4:22 PM		CCB4 3/25/01 5:00 PM		CCB5 3/25/01 5:30 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	28.7	B						
Barium	493.409	200	1.9	B	8.3	B						
Beryllium	313.042	5	1.8	B	4.0	B						
Calcium	317.933	5000	37.9	U	58.2	B						
Cobalt	228.616	50	3.2	U	6.9	B						
Copper	324.754	25	2.2	U	3.8	B						
Iron	259.94	100	18.1	B	68.2	B						
Magnesium	279.079	5000	19.9	U	56.8	B						
Manganese	257.61	15	1.6	B	4.4	B						
Nickel	231.604	40	-6.1	B	6.1	U						
Potassium	766.491	5000	496.0	U	496.0	U						
Sodium	588.995	5000	23.3	B	59.5	B						
Vanadium	292.402	50	1.8	U	3.5	B	28.0	B	119.0	B	588.0	B
Zinc	213.856	20	3.5	B	18.0	B						

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/25/01 6:16 PM	CCB7 3/25/01 6:54 PM	CCB8 3/25/01 7:32 PM	CCB9 3/25/01 7:45 PM		
			Found Q	Found Q	Found Q	Found Q	Found Q	Found Q
Sodium	588.995	5000	45.9 B	47.9 B	71.8 B	14.5 U		

680 90

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/25/01 1:19 PM		CCB2 3/25/01 2:13 PM		CCB3 3/25/01 3:06 PM		CCB4 3/25/01 3:59 PM		CCB5 3/25/01 4:55 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
Cadmium	226.502	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chromium	267.716	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Selenium	220.353	5	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Silver	328.068	10	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Thallium	190.864	10	3.9	U	4.6	B	6.6	B	3.9	U	6.2	B

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/25/01 5:48 PM		CCB7 3/25/01 6:42 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U	2.6	B				
Arsenic	189.042	10	2.6	U	2.6	U				
Cadmium	226.502	5	0.5	U	0.5	U				
Chromium	267.716	10	1.0	U	1.0	U				
Lead	220.353	3	1.9	U	1.9	U				
Selenium	220.353	5	2.1	U	2.1	U				
Silver	328.068	10	0.9	U	0.9	U				
Thallium	190.864	10	7.2	B	3.9	U				

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STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARC

Standard Source: _____

Standard ID: _____

			CCB1 3/27/01 7:40 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Selenium	220.353	5	2.4	B				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXT56BMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	3/25/01	14:39
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	3/25/01	18:06
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/25/01	18:06
Barium	493.409	0.41	200	0.41	U	1	ICP	3/25/01	14:39
Beryllium	313.042	0.071	5.0	0.071	U	1	ICP	3/25/01	14:39
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/25/01	18:06
Calcium	317.933	37.9	5000	37.9	U	1	ICP	3/25/01	14:39
Chromium	267.716	1.0	10.0	1.2	B	1	ICPST	3/25/01	18:06
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	3/25/01	14:39
Copper	324.754	2.2	25.0	2.2	U	1	ICP	3/25/01	14:39
Iron	259.94	8.8	100	16.7	B	1	ICP	3/25/01	14:39
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/25/01	18:06
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	3/25/01	14:39
Manganese	257.61	0.87	15.0	1.1	B	1	ICP	3/25/01	14:39
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	3/25/01	14:39
Potassium	766.491	496	5000	520	B	1	ICP	3/25/01	14:39
Selenium	220.353	2.1	5.0	-3	B	1	ICPST	3/25/01	18:06
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/25/01	18:06
Sodium	588.995	14.5	5000	14.5	U	1	ICP	3/25/01	14:39
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	3/25/01	18:06
Vanadium	292.402	1.8	50.0	3.4	B	1	ICP	3/25/01	14:39
Zinc	213.856	3.1	20.0	3.1	U	1	ICP	3/25/01	14:39

Comments: Lot #: C1C220173

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

Preparation Blank Results

Lab Sample ID: DXX3VB

Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094

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	0.054	U	1	CVAA	3/26/01	11:06

Comments: Lot #: C1C220173

Version 4 10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXRH2S

Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004S

Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	3750		6880	N	2000	156.7	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Antimony	220.4	4.9	B	512		500	101.4	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Arsenic	189.0	21.0		2110		2000	104.2	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Barium	493.4	112	B	1850		2000	87.1	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Beryllium	313.0	0.34	B	42.6		50	84.4	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Cadmium	226.5	0.49	U	46.2		50	92.4	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Calcium	317.9	27400		72900		50000	91.0	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Chromium	267.7	145		345		200	100.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Cobalt	228.6	5.1	B	445		500	88.0	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Copper	324.8	27.1		273		250	98.2	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Iron	259.9	3600		4600		1000	100.3	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Lead	220.4	8.8		490		500	96.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Magnesium	279.1	5680		50400		50000	89.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Manganese	257.6	99.5		547		500	89.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Nickel	231.6	10.5	B	443		500	86.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Potassium	766.5	5520		57900		50000	104.8	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Selenium	220.4	2.1	U	2030		2000	101.6	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Silver	328.1	1.5	B	54.9		50	106.8	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Sodium	589	3670000		3430000	NC	50000		25	25	ICP	3/25/01	19:19	3/25/01	19:26
Thallium	190.9	8.6	B	2070		2000	103.2	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Vanadium	292.4	10.7	B	465		500	90.8	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Zinc	213.9	614		1110		500	99.6	1	1	ICP	3/25/01	14:52	3/25/01	14:58

Comments: Lot #: C1C220173 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXRH2D
 Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004SD
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	3750	N	6450	N	2000	135.1	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Antimony	220.4	4.9	B	499		500	98.9	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Arsenic	189.0	21.0		2060		2000	102.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Barium	493.4	112	B	1740		2000	81.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Beryllium	313.0	0.34	B	40.8		50	80.9	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Cadmium	226.5	0.49	U	45.8		50	91.7	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Calcium	317.9	27400		71800		50000	88.8	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Chromium	267.7	145		338		200	96.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Cobalt	228.6	5.1	B	435		500	86.0	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Copper	324.8	27.1		251		250	89.6	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Iron	259.9	3600		4440		1000	84.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Lead	220.4	8.8		482		500	94.5	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Magnesium	279.1	5680		48000		50000	84.6	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Manganese	257.6	99.5		531		500	86.3	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Nickel	231.6	10.5	B	433		500	84.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Potassium	766.5	5520		53600		50000	96.2	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Selenium	220.4	2.1	U	1980		2000	99.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Silver	328.1	1.5	B	52.7		50	102.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Sodium	589	3670000		3480000	NC	50000		25	25	ICP	3/25/01	19:19	3/25/01	19:35
Thallium	190.9	8.6	B	2020		2000	100.7	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Vanadium	292.4	10.7	B	448		500	87.4	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Zinc	213.9	614		1060		500	90.0	1	1	ICP	3/25/01	14:52	3/25/01	15:01

Comments: Lot #: C1C220173 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 Sample Results

Spike Sample ID: DXRH2S
 Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004S
 Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
 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	0.16	B	1.2		1	101.6	1	1	CVAA	3/26/01	11:10	3/26/01	11:11

Comments: Lot #: C1C220173 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

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Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXRH2D

Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004SD

Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.16	B	1.3		1	113.6	1	1	CVAA	3/26/01	11:10	3/26/01	11:13

Comments Lot #: C1C220173 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: DXRH2DMatrix Spike Sample ID: DXRH2S Client ID: DF/24-B/1080/TDW/004SDMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	6880	N	6450	N	14.8 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Antimony	220.353	512		499		2.5 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Arsenic	189.042	2110		2060		2.2 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Barium	493.409	1850		1740		6.7 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Beryllium	313.042	42.6		40.8		4.2 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Cadmium	226.502	46.2		45.8		0.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Calcium	317.933	72900		71800		2.5 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Chromium	267.716	345		338		3.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Cobalt	228.616	445		435		2.3 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Copper	324.754	273		251		9.2 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Iron	259.94	4600		4440		17.0 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Lead	220.353	490		482		1.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Magnesium	279.079	50400		48000		5.6 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Manganese	257.61	547		531		3.7 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Nickel	231.604	443		433		2.4 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Potassium	766.491	57900		53600		8.6 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Selenium	220.353	2030		1980		2.6 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Silver	328.068	54.9		52.7		4.4 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Sodium	588.995	3430000	NC	3480000	NC		25	25	ICP	3/25/01	19:26	3/25/01	19:35
Thallium	190.864	2070		2020		2.5 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Vanadium	292.402	465		448		3.8 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Zinc	213.856	1110		1060		10.1 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01

Comments: Lot #: C1C220173 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

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXRH2DMatrix Spike Sample ID: DXRH2S Client ID: DF/24-B/1080/IDW/004SDMatrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094Weight: 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	1.2		1.3		11.2 %	1	1	CVAA	3/26/01	11:11	3/26/01	11:13

Comments: Lot #: C1C220173 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: DXT56CMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	1870	93.5		80-120	1	ICP	3/25/01	14:42
Antimony	220.353	500	491	98.1		80-120	1	ICPST	3/25/01	18:11
Arsenic	189.042	2000	1970	98.5		80-120	1	ICPST	3/25/01	18:11
Barium	493.409	2000	1910	95.3		80-120	1	ICP	3/25/01	14:42
Beryllium	313.042	50.0	46.6	93.3		80-120	1	ICP	3/25/01	14:42
Cadmium	226.502	50.0	47.1	94.2		80-120	1	ICPST	3/25/01	18:11
Calcium	317.933	50000	46900	93.8		80-120	1	ICP	3/25/01	14:42
Chromium	267.716	200	196	98.2		80-120	1	ICPST	3/25/01	18:11
Cobalt	228.616	500	469	93.9		80-120	1	ICP	3/25/01	14:42
Copper	324.754	250	238	95.1		80-120	1	ICP	3/25/01	14:42
Iron	259.94	1000	995	99.5		80-120	1	ICP	3/25/01	14:42
Lead	220.353	500	485	96.9		80-120	1	ICPST	3/25/01	18:11
Magnesium	279.079	50000	48500	97.0		80-120	1	ICP	3/25/01	14:42
Manganese	257.61	500	472	94.5		80-120	1	ICP	3/25/01	14:42
Nickel	231.604	500	476	95.1		80-120	1	ICP	3/25/01	14:42
Potassium	766.491	50000	47600	95.2		80-120	1	ICP	3/25/01	14:42
Selenium	220.353	2000	1950	97.7		80-120	1	ICPST	3/25/01	18:11
Silver	328.068	50.0	50.0	100.0		80-120	1	ICPST	3/25/01	18:11
Sodium	588.995	50000	48600	97.3		80-120	1	ICP	3/25/01	14:42
Thallium	190.864	2000	2040	102.0		80-120	1	ICPST	3/25/01	18:11
Vanadium	292.402	500	478	95.6		80-120	1	ICP	3/25/01	14:42
Zinc	213.856	500	470	94.0		80-120	1	ICP	3/25/01	14:42

Comments: Lot #. C1C220173

Version 4.10 2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

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Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXX3VCMatrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094Weight: 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	3/26/01	11.07

Comments: Lot # C1C220173

Version 4.10.2

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

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

UXB INTERNATIONAL

Client Sample ID: DF/24-B/1080/IDW/004

General Chemistry

Lot-Sample #...: C1C220173-001 Work Order #...: DXRH2 Matrix.....: WATER
 Date Sampled...: 03/21/01 Date Received...: 03/22/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.6		No Units	SW846 9040	03/22/01	1081495
				MS Run #.....: 1081231		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/26/01	1085156
				MS Run #.....: 1085051		
Flashpoint	>201		deg F	SW846 1010	03/26/01	1085437
				MS Run #.....: 1085232		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/27/01	1086345
				MS Run #.....: 1086171		

UXB INTERNATIONAL

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Client Sample ID: DF/24-B/1080/IDW/005

General Chemistry

Lot-Sample #....: C1C220173-002 Work Order #....: DXRKF Matrix.....: WATER
Date Sampled....: 03/21/01 Date Received...: 03/22/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.5		No Units	SW846 9040	03/22/01	1081495
			Dilution Factor: 1	MS Run #... : 1081231		
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	03/26/01	1085437
			Dilution Factor: 1	MS Run #..... 1085232		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/27/01	1086345
			Dilution Factor: 1	MS Run #..... 1086171		

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: C1C220173

Matrix.....: WATER

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	101	Work Order #: DXTLV1AA (85 - 115)	LCS Lot-Sample#: C1C220000-495 SW846 9040	03/22/01	1081495
		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	101	Work Order #: DX00M1AA (85 - 115)	LCS Lot-Sample#: C1C260000-437 SW846 1010	03/26/01	1085437
		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

680 108

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173
Date Sampled...: 03/21/01

Date Received...: 03/22/01

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP 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

SAMPLE DUPLICATE EVALUATION REPORT

680 109

General Chemistry

Client Lot #....: C1C220173

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

Matrix.....: WATER

Date Sampled....: 03/21/01

Date Received...: 03/22/01

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.3	8.2	No Units	0.48	(0-20)	SD Lot-Sample #: C1C220157-001 SW846 9040	03/22/01	1081495
				Dilution Factor: 1		MS Run Number...: 1081231		

689 110

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C1C220173

Work Order #....: DXRH2-SMP
DXRH2-DUP

Matrix.....: WATER

Date Sampled....: 03/21/01

Date Received...: 03/22/01

% Moisture.....:

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	C1C220173-001	
	>201	>201	deg F	0.0	(0-20)	SW846 1010	03/26/01	1085437

Dilution Factor: 1 MS Run Number...: 1085232

GC/MS VOLATILE DATA

680 112

**GC/MS VOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	102	100	94	98	00
02	DF/24-B/1080/IDW/004	106	105	101	103	00
03	DF/24-B/1080/IDW/005	104	103	103	105	00
04	METHOD BLK. DX0KD1AA	102	102	95	97	00
05	LCS DX0KD1AC	102	103	101	103	00
06	LAB MS/MSD D	99	102	100	101	00
07	LAB MS/MSD S	100	102	101	102	00

SURROGATES

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

QC LIMITS

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

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

FORM II

680 114

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C260000

WO #: DX0KD1AC

BATCH: 1085303

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	51.7	103	65- 119	
Trichloroethene	50.0	52.2	104	80- 122	
Benzene	50.0	51.8	104	79- 116	
Toluene	50.0	51.0	102	76- 119	
Chlorobenzene	50.0	49.4	99	81- 115	

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

680 115

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220162

WO #: DXRDK1AD

BATCH: 1085303

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	50.1	100	57 - 138	
Trichloroethene	50.0	ND	52.4	105	58 - 141	
Benzene	50.0	ND	52.3	105	73 - 123	
Toluene	50.0	ND	50.5	101	67 - 129	
Chlorobenzene	50.0	ND	48.8	98	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

680 116

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220162

WO #: DXRDK1AE

BATCH: 1085303

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
1,1-Dichloroethene	50.0	50.4	101	0.67	20	57- 138	
Trichloroethene	50.0	52.7	105	0.60	20	58- 141	
Benzene	50.0	50.7	101	3.2	20	73- 123	
Toluene	50.0	50.4	101	0.11	20	67- 129	
Chlorobenzene	50.0	48.8	98	0.20	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:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DX0KD1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

Lab File ID: 60326N01.

Date Analyzed: 03/26/01

Matrix: WATER

GC Column: RTX-624 ID: .18

Instrument ID: HP6

SDG Number:

Lot Number: C1C220173

Time Analyzed: 11:57

Date Extracted: 03/26/01

Extraction Method: 5030

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DXRDK1AA	60326N02.	03/26/01	12:31
02	LAB MS/MSD	DXRDK1AD S	60326N04.	03/26/01	13:19
03	LAB MS/MSD	DXRDK1AE D	60326N05.	03/26/01	13:45
04	DF/24-B/1080/IDW/004	DXRH21AA	60326N11.	03/26/01	17:07
05	DF/24-B/1080/IDW/005	DXRKFIAM	60326N14.	03/26/01	18:44
06	CHECK SAMPLE	DXOKD1AC C	60326N03.	03/26/01	12:55
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
680 118 BROMOFLUOROBENZENE (BFB)

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					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

680 119

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab File ID: BF60326N

BFB Injection Date: 03/26/01

Instrument ID: HP6

BFB Injection Time: 1056

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	19.4
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	50.0 - 100.0% of mass 95	89.6
175	5.0 - 9.0% of mass 174	6.2 (6.9)1
176	95.0 - 101.0% of mass 174	86.4 (96.5)1
177	5.0 - 9.0% of mass 176	5.1 (5.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC60326N	03/26/01	1121
02	INTRA-LAB BL	DX0KD1AA	60326N01	03/26/01	1157
03	INTRA-LAB CH	DX0KD1AC	60326N03	03/26/01	1255
04	DF/24-B/1080	DXRH21AA	60326N11	03/26/01	1707
05	DF/24-B/1080	DXRKF1AM	60326N14	03/26/01	1844
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

680 120

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab File ID (Standard): CC60326N

Date Analyzed: 03/26/01

Instrument ID: HP6

Time Analyzed: 1121

GC Column: DB 624 ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	164725	9.74	287392	12.05	696645	6.61
UPPER LIMIT	329450	9.94	574784	12.25	1393290	6.81
LOWER LIMIT	82363	9.54	143696	11.85	348323	6.41
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	164132	9.73	262824	12.05	741515	6.61
02 INTRA-LAB CH	178420	9.74	291936	12.05	729322	6.61
03 DF/24-B/1080	174539	9.73	286287	12.05	766061	6.61
04 DF/24-B/1080	173688	9.73	285707	12.05	760318	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 = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

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

680 121

**GC/MS VOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220173 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRH21AA

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	320	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	400	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	920	
67-66-3	Chloroform	8000	
74-87-3	Chloromethane	760	
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	250	U
108-10-1	4-Methyl-2-pentanone	2500	
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	250	U

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220173 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRH21AA

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

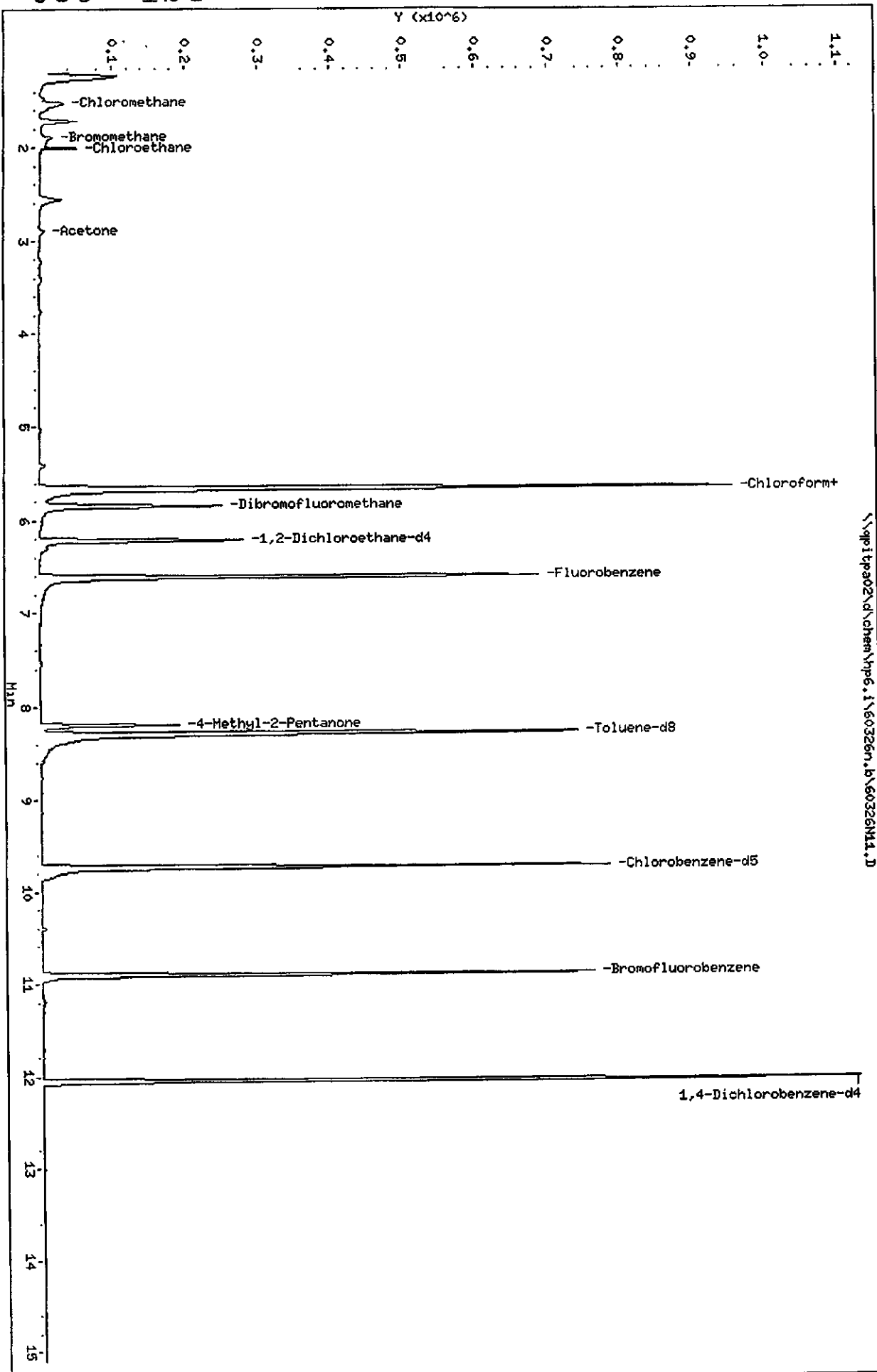
QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/004

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

Data File: \\spitpa02\chem\hp6.i\60326n.b\60326N11.D
Date: 26-MAR-2001 17:07
Client ID: DF/24-B/4080/IDM/00
Sample Info: c1c220173-001 (1ml/50ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp6.i
Operator: 034635
Column diameter: 0.20



680 125

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60326n.b\60326N11.D
Lab Smp Id: DXRH21AA Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 26-MAR-2001 17:07
Operator : 034635 Inst ID: hp6.i
Smp Info : c1c220173-001 (1ml/50ml)/5ml
Misc Info : dxrh21aa, 60326n.b,8260bh2o.m
Comment :
Method : \\QPITPA02\D\chem\hp6.i\60326n.b\8260bh2o.m
Meth Date : 26-Mar-2001 11:46 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 08:38 Cal File: 1E60322.D
Als bottle: 28
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

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

DU 3/26/01

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

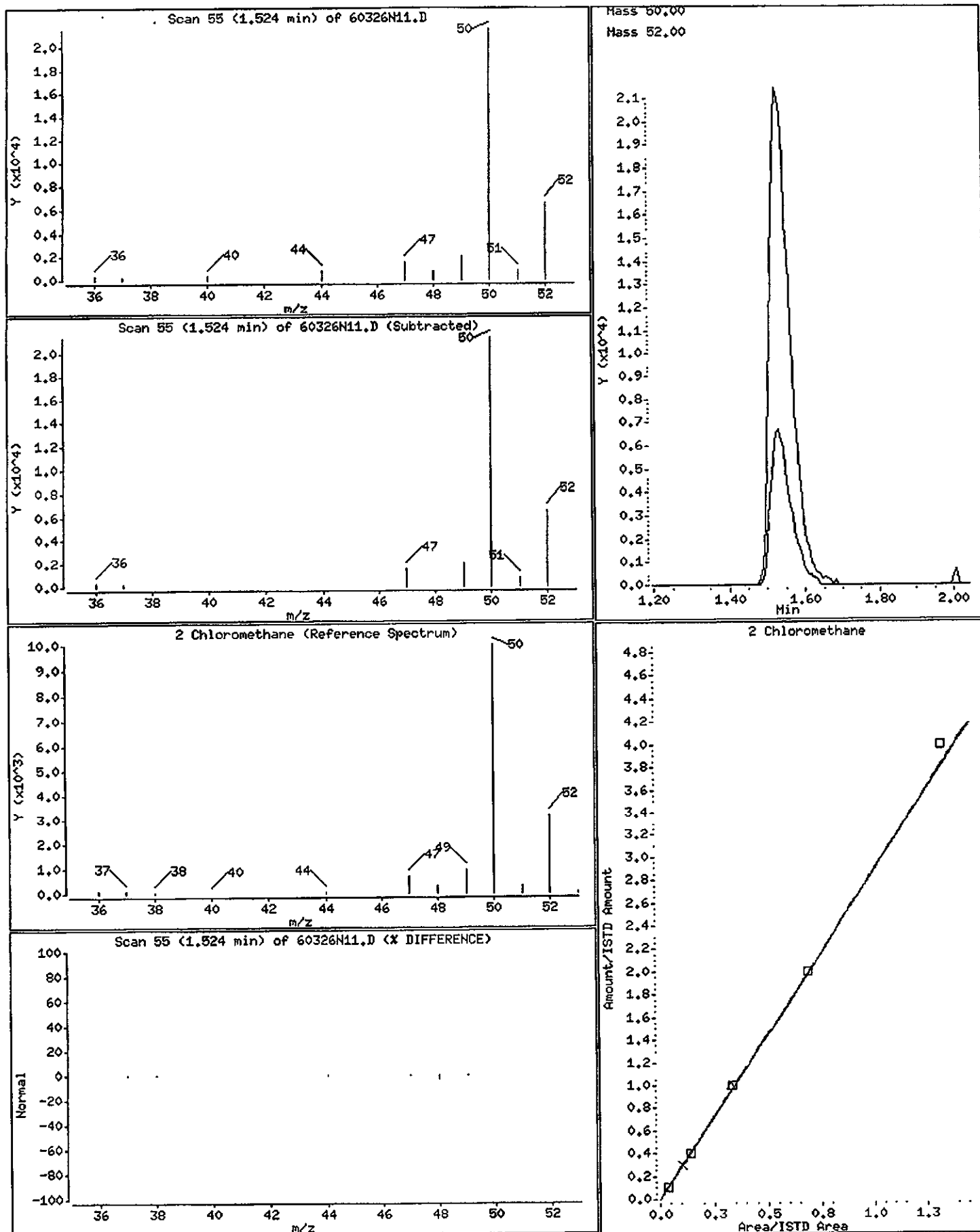
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.609	6.608	(1.000)	766061	250.000	
* 69 Chlorobenzene-d5	119	9.730	9.735	(1.000)	174539	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.048	12.046	(1.000)	286287	250.000	
\$ 39 Dibromofluoromethane	113	5.849	5.847	(0.885)	184209	256.533	51.31
\$ 43 1,2-Dichloroethane-d4	65	6.220	6.218	(0.941)	229282	265.781	53.16
\$ 59 Toluene-d8	98	8.289	8.293	(0.852)	725822	262.269	52.45
\$ 80 Bromofluorobenzene	95	10.898	10.903	(1.120)	266442	251.814	50.36
2 Chloromethane	50	1.524	1.540	(0.231)	81110	75.7915	757.9
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.901	1.893	(0.288)	9790	40.0256	400.2
5 Chloroethane	64	2.004	1.984	(0.303)	26650	91.9046	919.0
6 Trichlorofluoromethane	101	Compound Not Detected.					
1 Dichlorodifluoromethane	85	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	2.905	2.915	(0.440)	11999	31.5464	315.5
15 Carbon Disulfide	76	Compound Not Detected.					

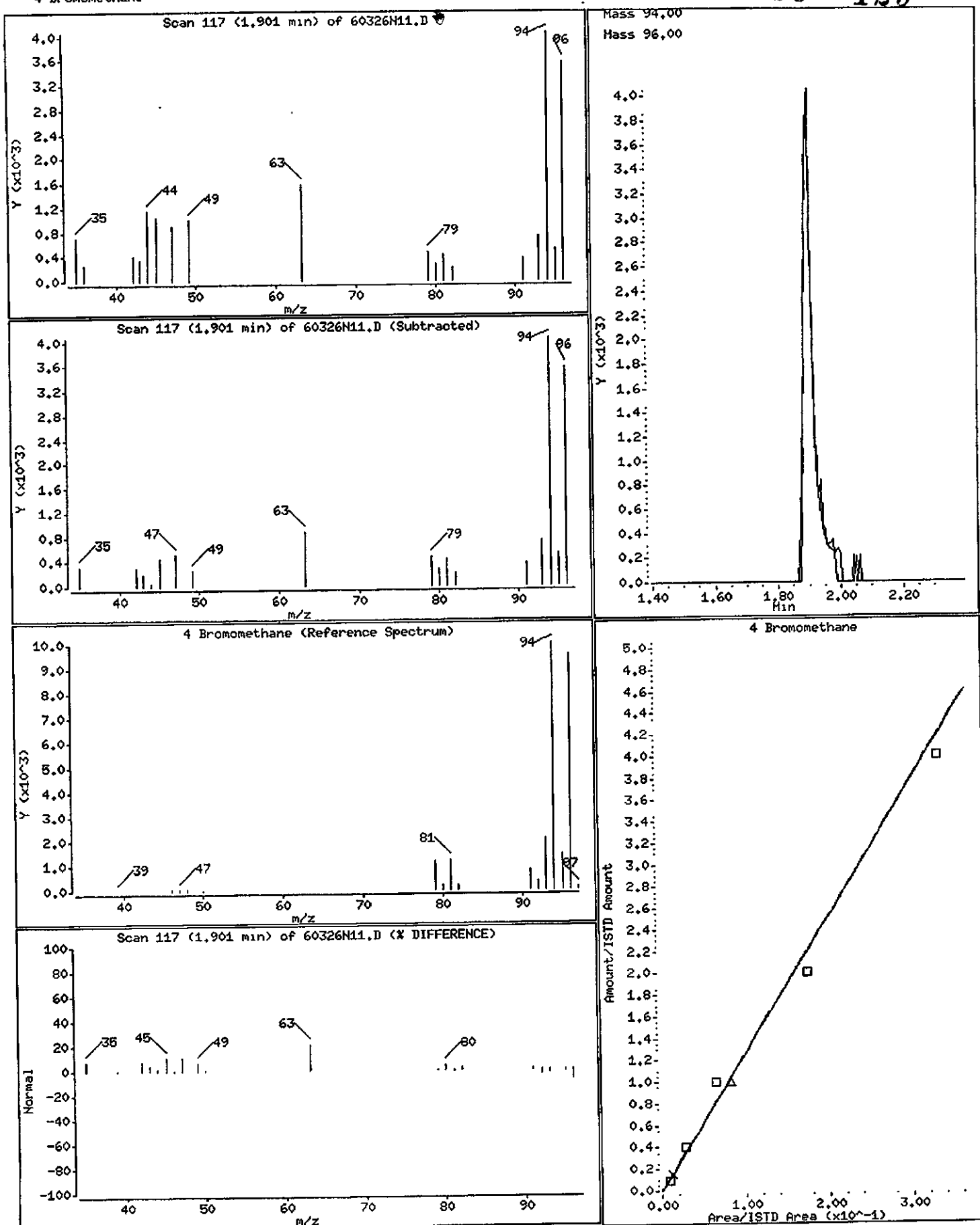
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84				Compound Not Detected.		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound 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	5.660	5.659	(0.856)	918918	801.692	8017
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	8.197	8.214	(0.842)	133657	251.690	2517
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.		

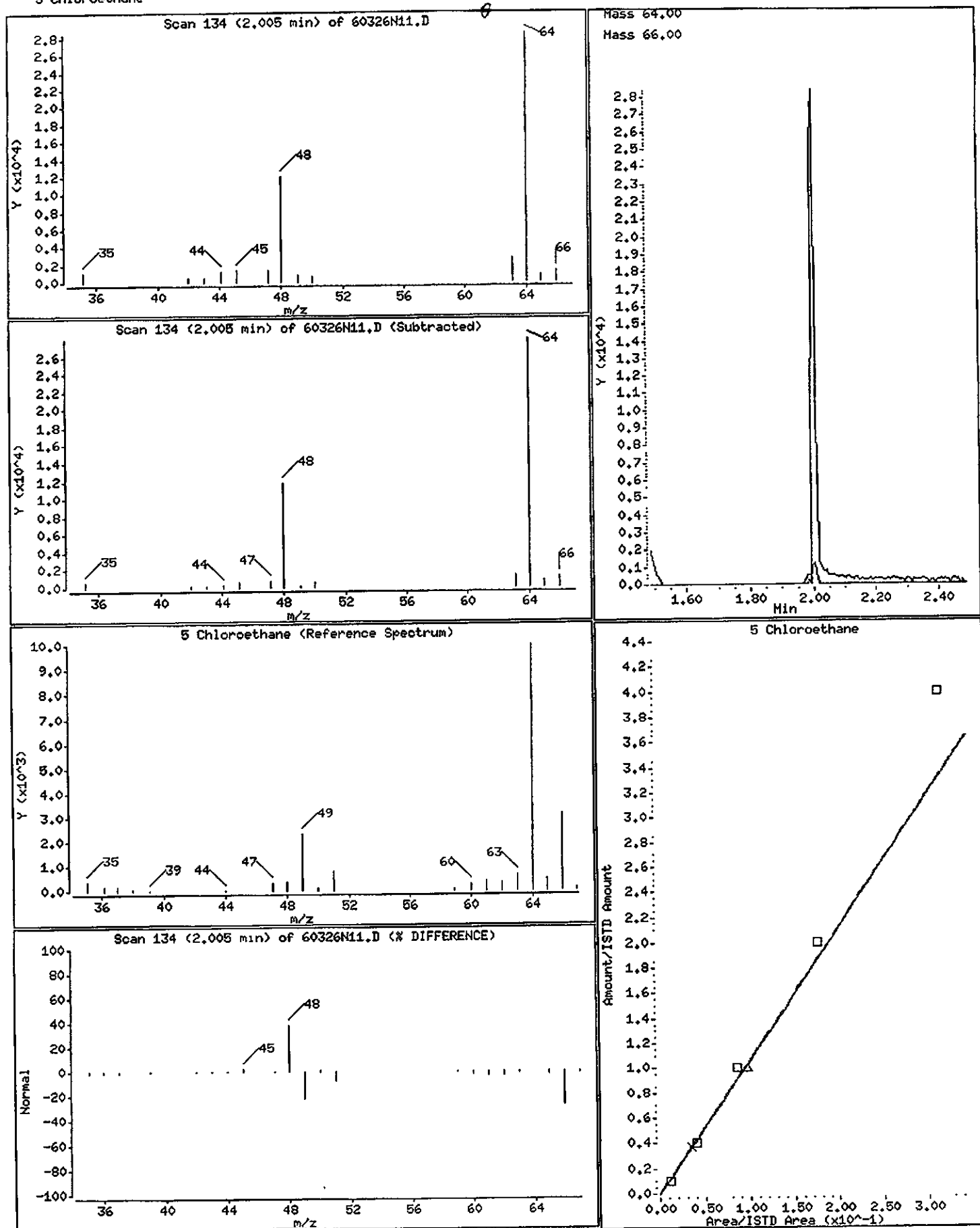
680 127

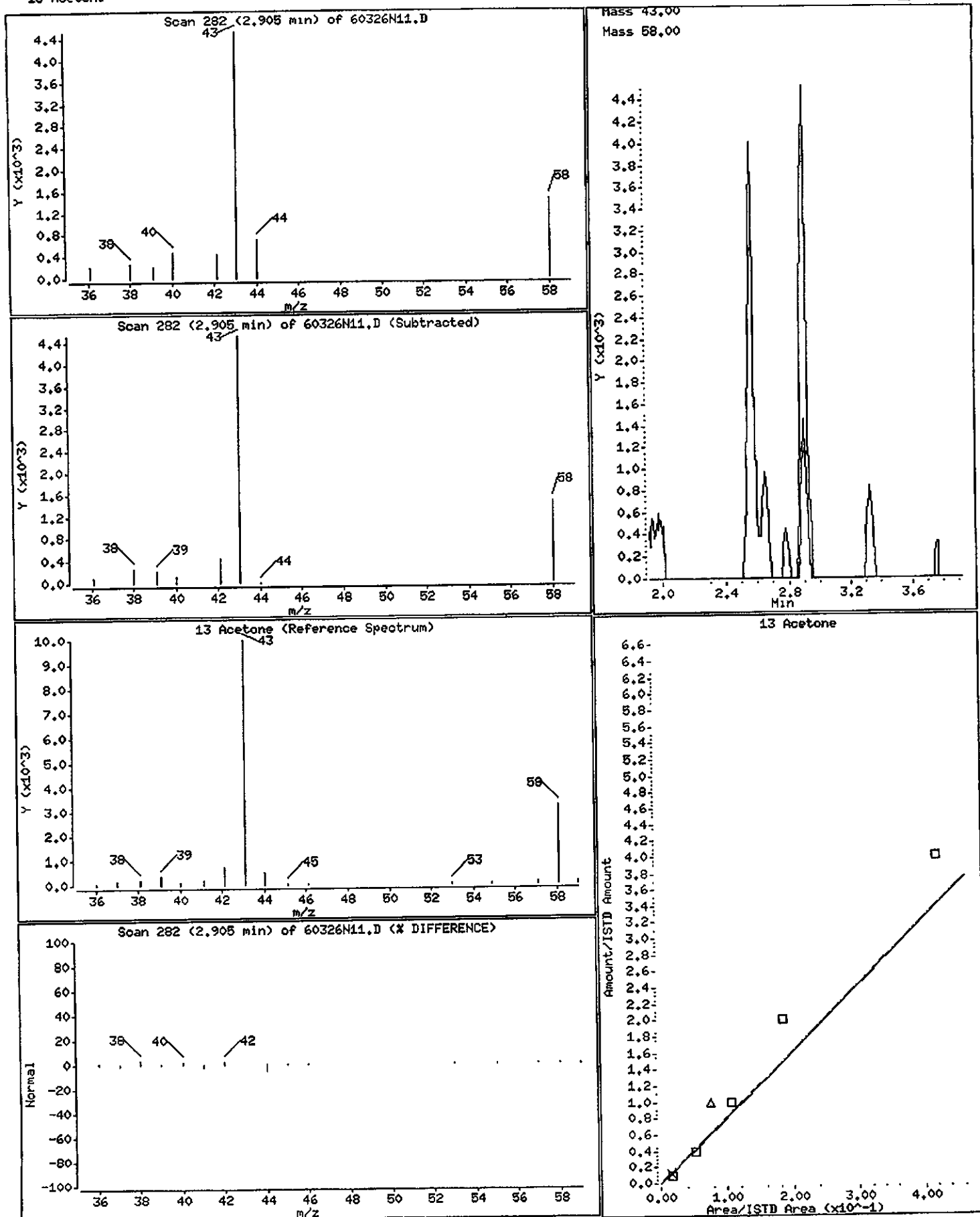
Compounds	QUANT SIG MASS							CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/L)		
89 sec-Butylbenzene	105				Compound Not Detected.				
90 4-Isopropyltoluene	119				Compound Not Detected.				
91 1,3-Dichlorobenzene	146				Compound Not Detected.				
93 1,4-Dichlorobenzene	146				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.				

2 Chloromethane

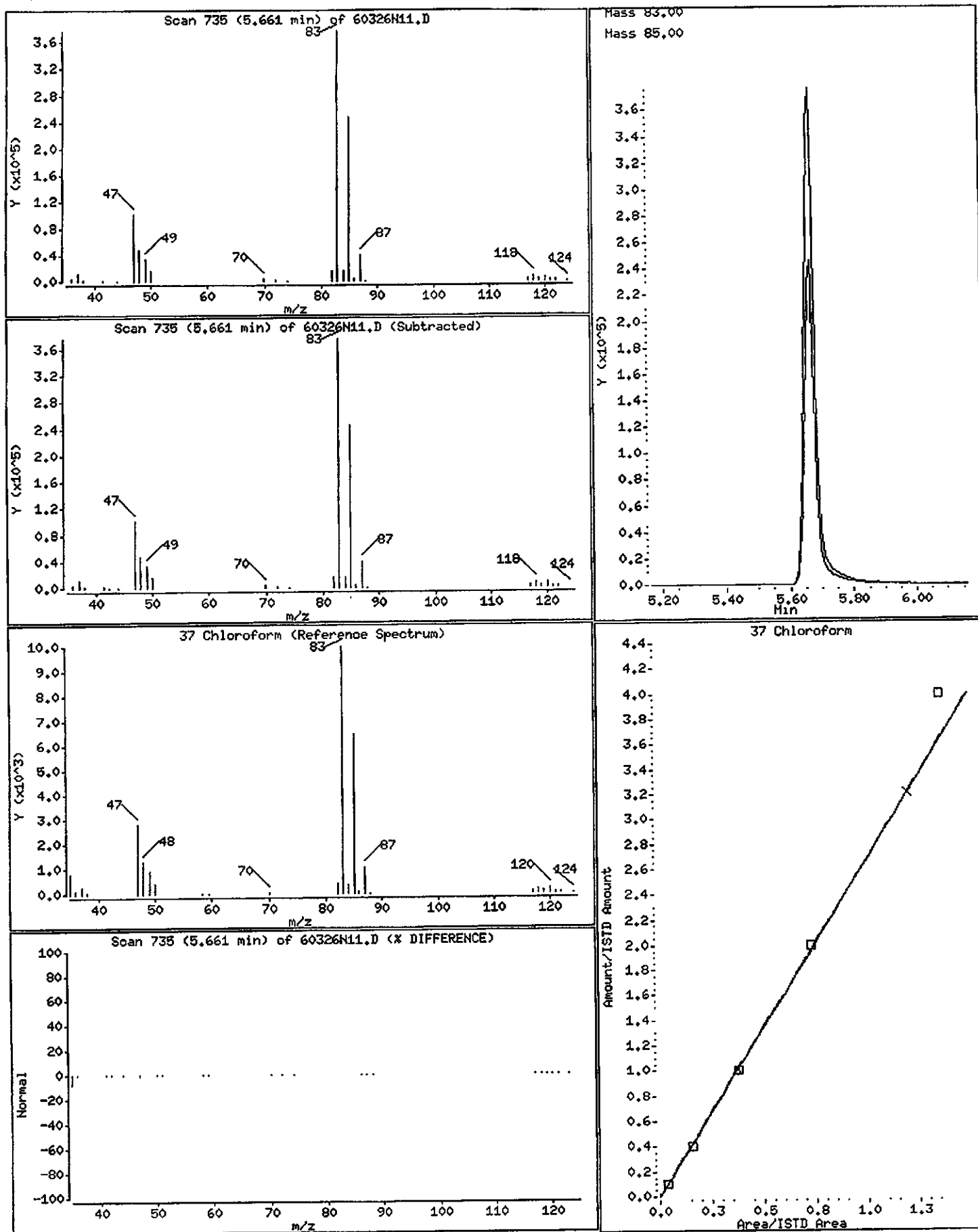


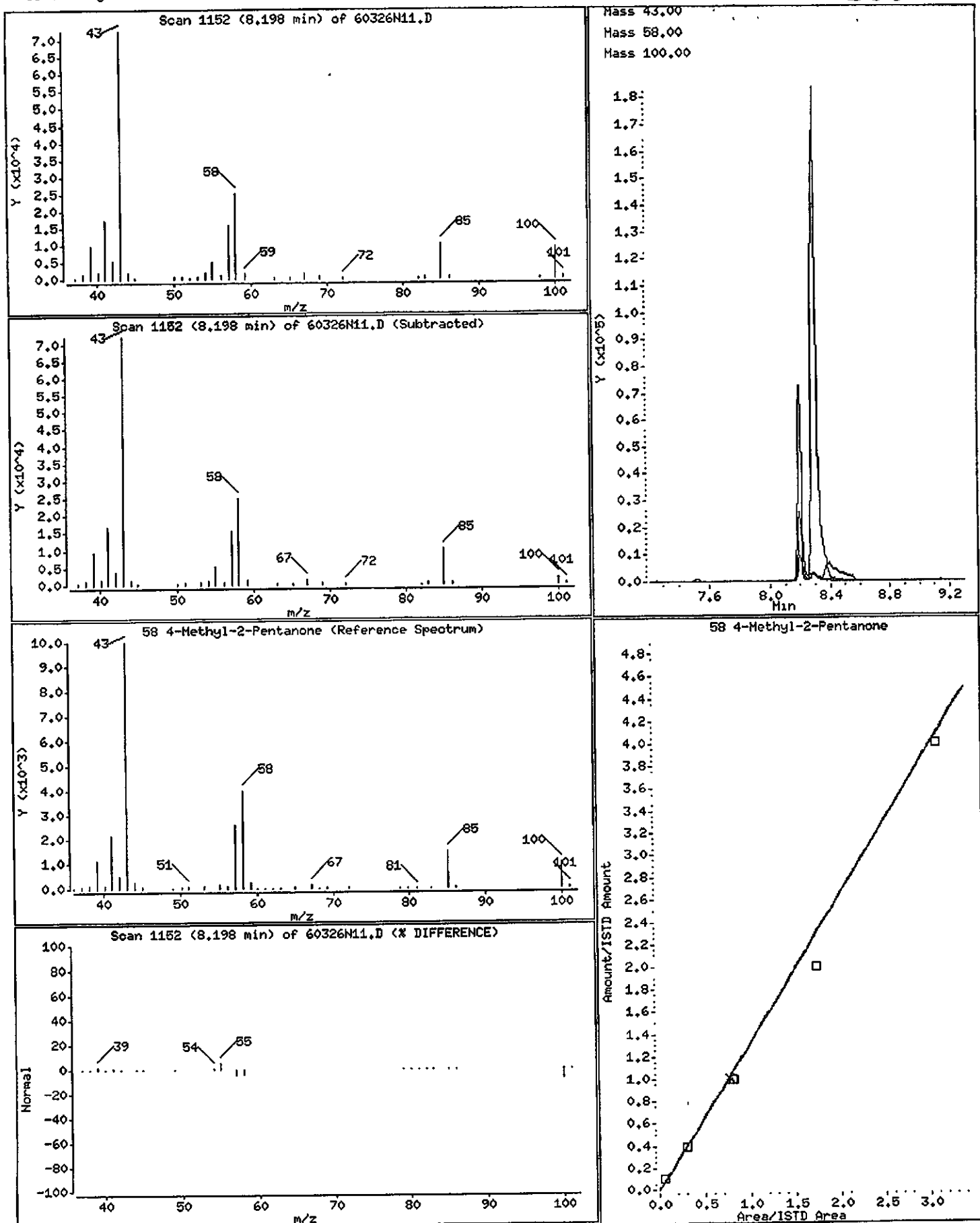






37 Chloroform





680 134

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRKF1AM

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	200	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	140	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	6600	
74-87-3	Chloromethane	550	
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	250	U
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	250	U
108-88-3	Toluene	250	U

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRKF1AM

Date Extracted: 03/26/01

Dilution factor: 50

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

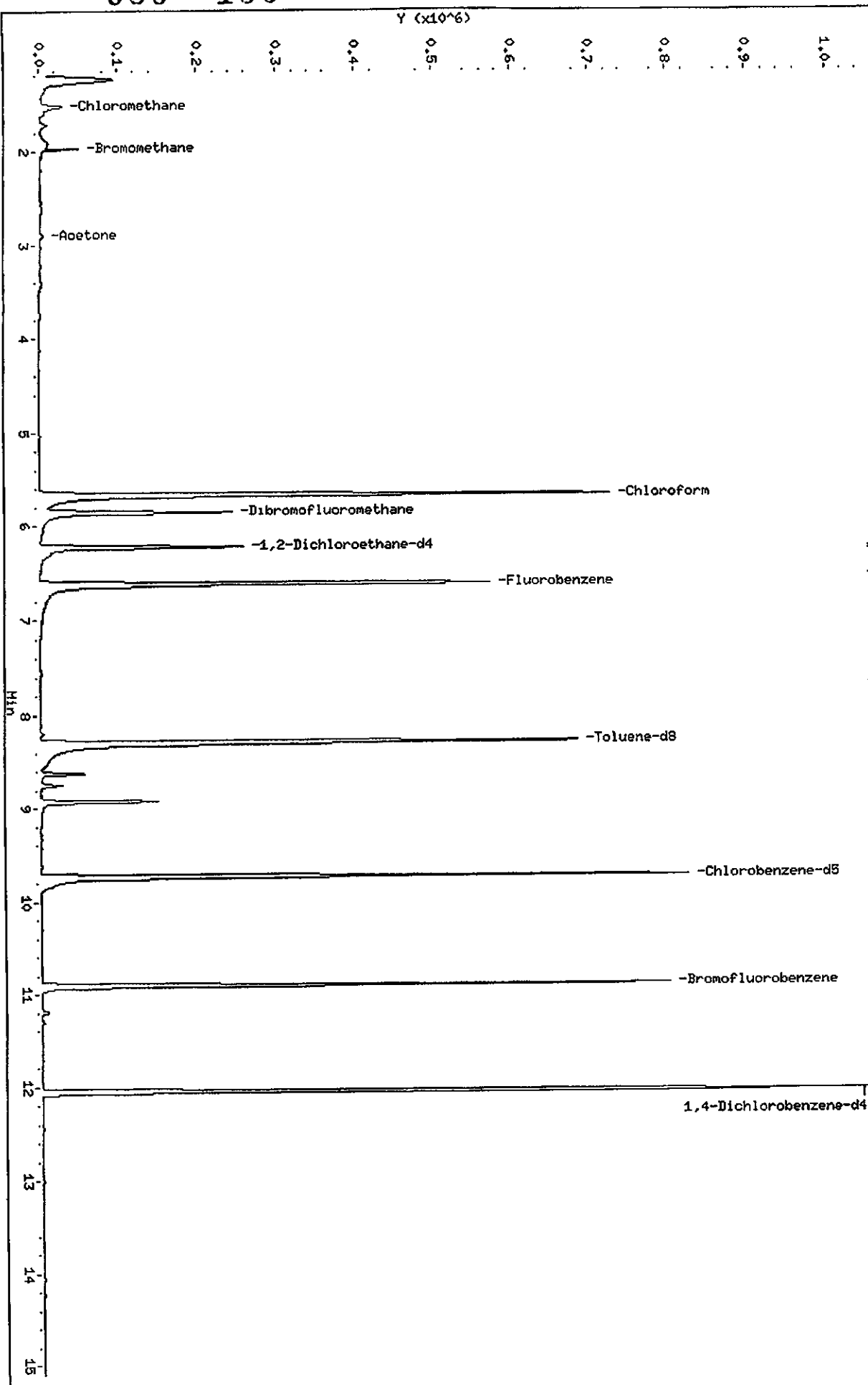
Client Sample Id: DF/24-B/1080/IDW/005

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

Data File: \\apitpa02\chem\hpe.1\60326n.b\60326N14.D
Date: 26-MAR-2001 18:44
Client ID: DF/24-B/1080/IDM/00
Sample Info: c1c220173-002 (1ml/50ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

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

\\apitpa02\chem\hpe.1\60326n.b\60326N14.D



680 137

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60326n.b\60326N14.D
Lab Smp Id: DXRKFL1AM Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 26-MAR-2001 18:44
Operator : 034635 Inst ID: hp6.i
Smp Info : clc220173-002 (1ml/50ml)/5ml
Misc Info : dxrkflam, 60326n.b,8260bh2o.m
Comment :
Method : \\QPITPA02\D\chem\hp6.i\60326n.b\8260bh2o.m
Meth Date : 26-Mar-2001 11:46 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 08:38 Cal File: 1E60322.D
Als bottle: 30
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: QPITPA02

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

P11 3/24/01

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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.610	6.608	(1.000)	760318	250.000	
* 69 Chlorobenzene-d5	119	9.731	9.735	(1.000)	173688	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.049	12.046	(1.000)	285707	250.000	
\$ 39 Dibromofluoromethane	113	5.850	5.847	(0.885)	187733	263.416	52.68
\$ 43 1,2-Dichloroethane-d4	65	6.221	6.218	(0.941)	222205	259.523	51.90
\$ 59 Toluene-d8	98	8.289	8.293	(0.852)	708653	257.319	51.46
\$ 80 Bromofluorobenzene	95	10.899	10.903	(1.120)	272146	258.465	51.69
2 Chloromethane	50	1.518	1.540	(0.230)	58883	55.4375	554.4
3 Vinyl Chloride	62	Compound Not Detected					
4 Bromomethane	94	1.902	1.893	(0.288)	3448	14.2033	142.0
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	2.899	2.915	(0.439)	7661	20.2936	202.9
15 Carbon Disulfide	76	Compound Not Detected					

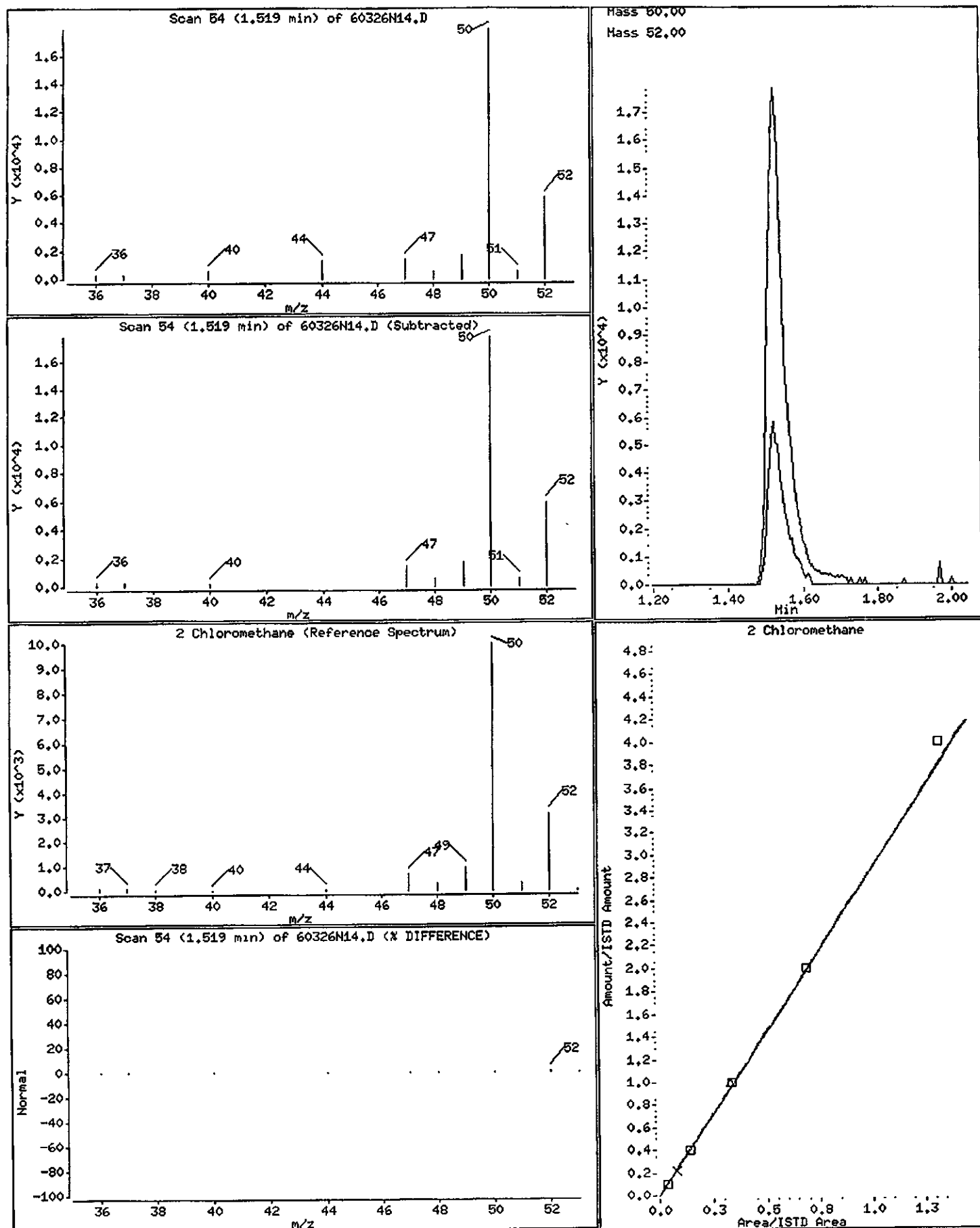
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84				Compound Not Detected.		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound 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	5.661	5.659	(0.856)	747041	656 664	6567
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.		

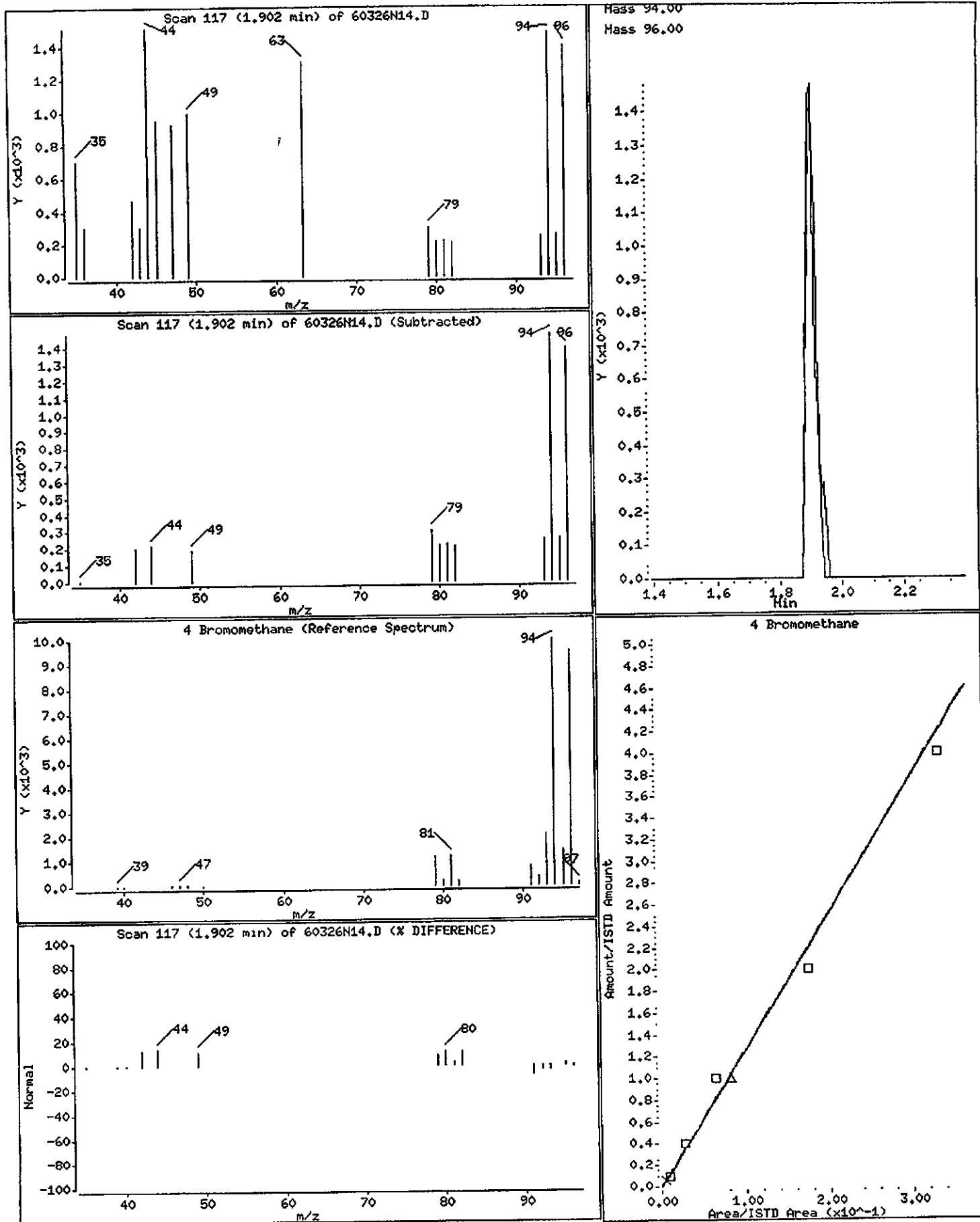
680 139

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.		

680 140

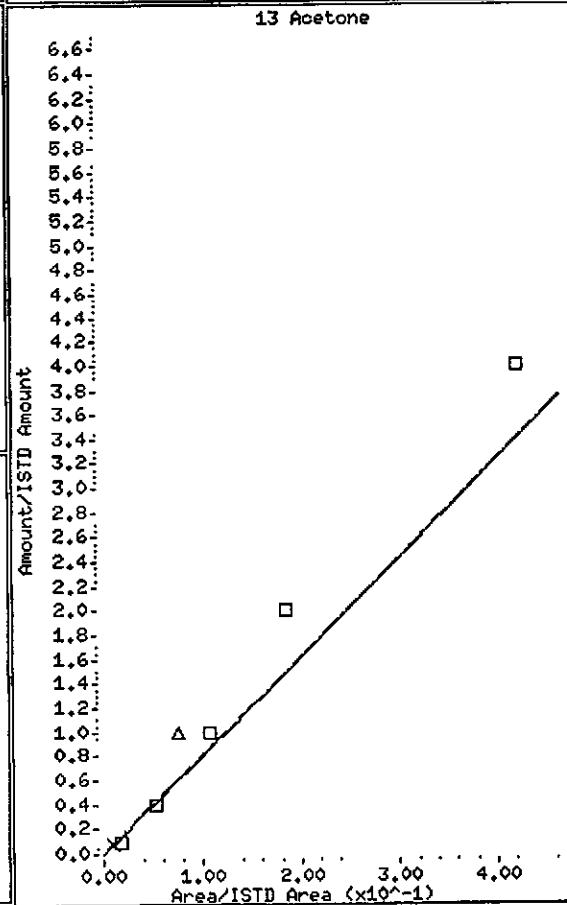
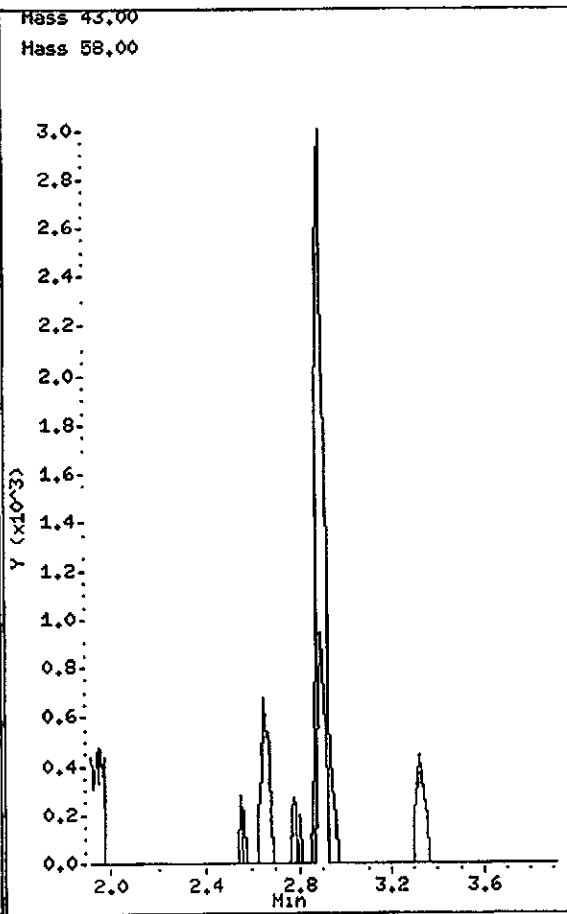
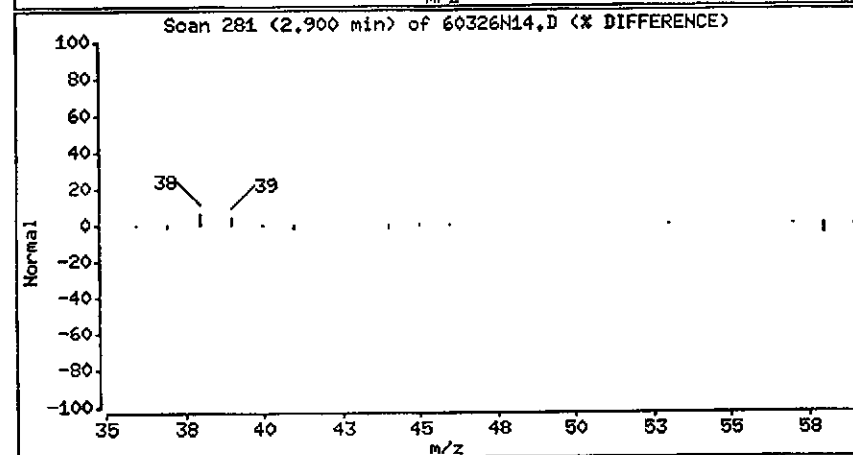
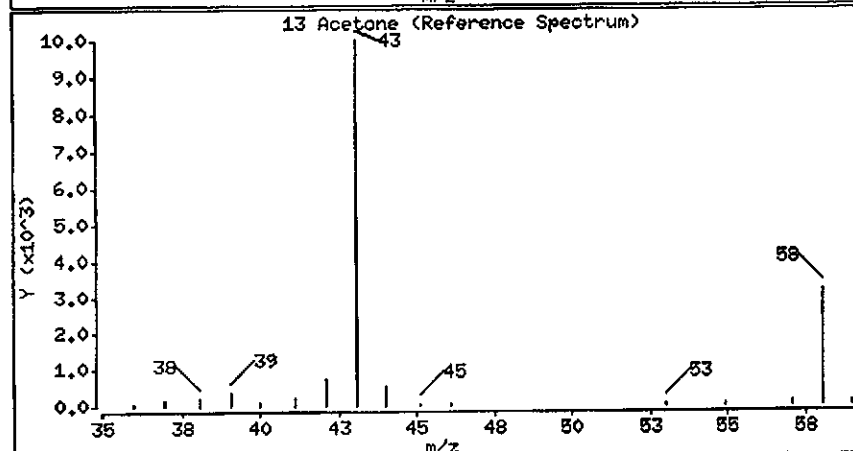
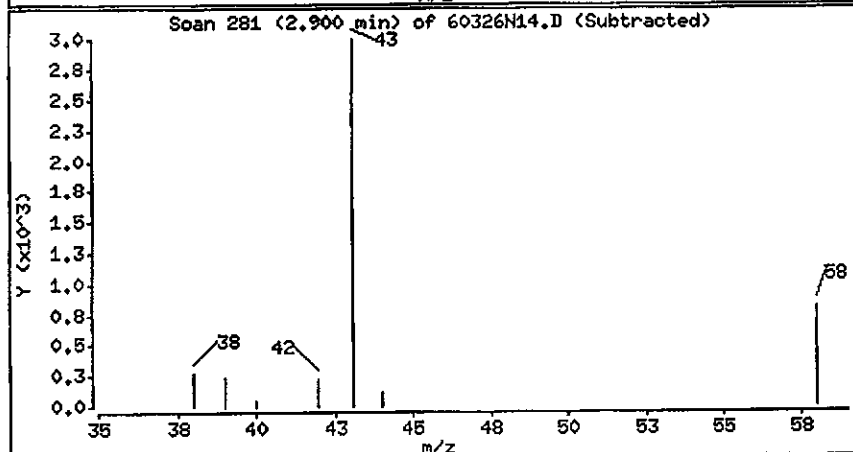
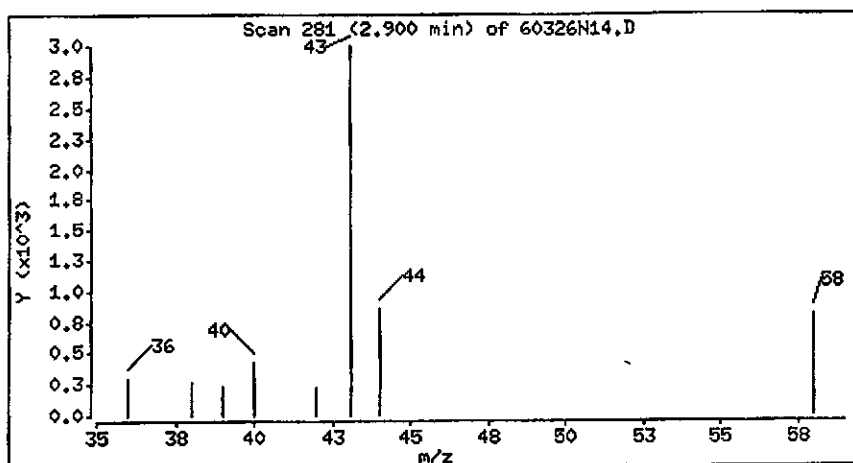
2 Chloromethane

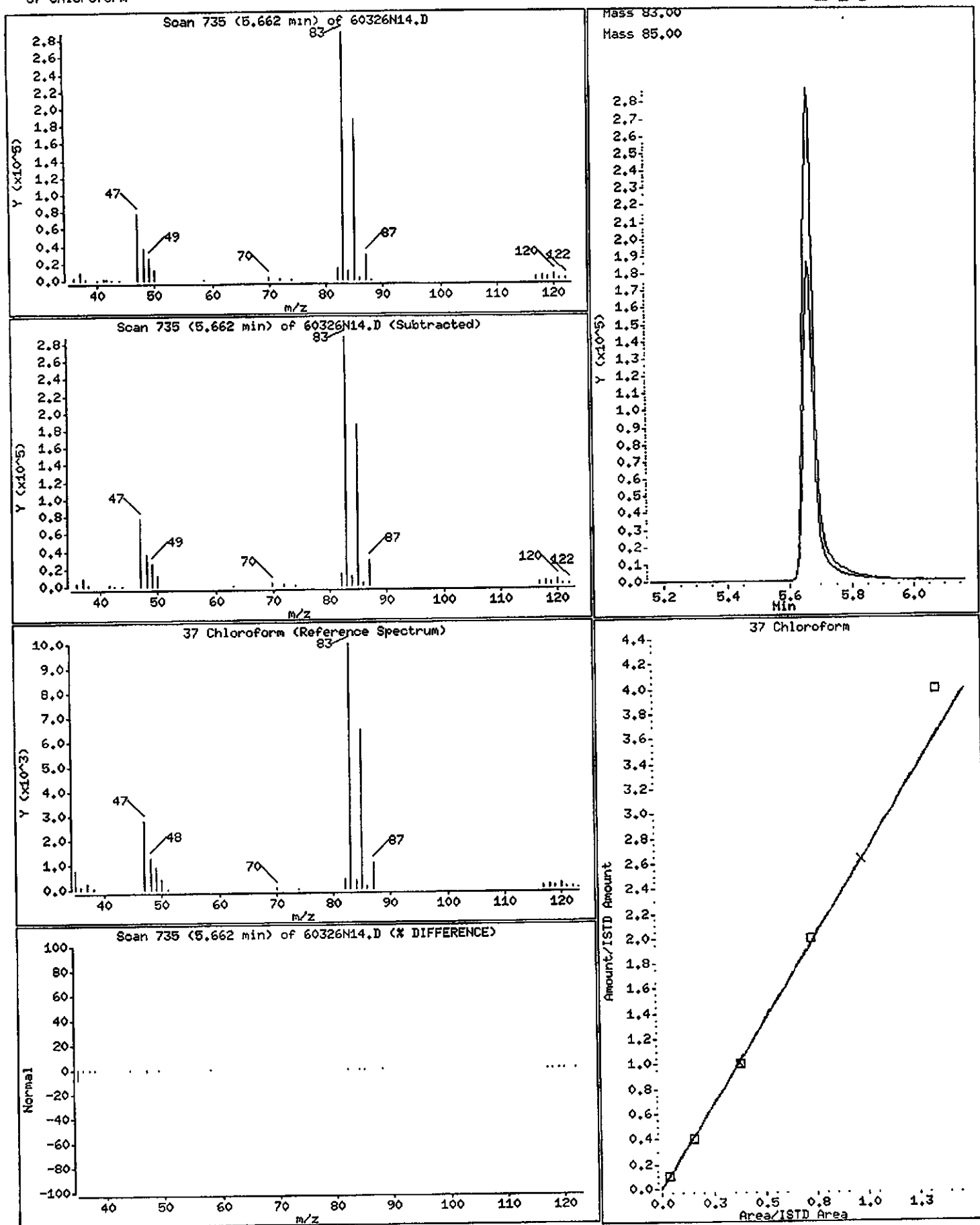




680 142

13 Acetone





683 144

**GC/MS VOLATILE
CALIBRATION DATA**

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

680 145

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.

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
=====	=====	=====	=====	=====	=====	=====	=====
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.

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

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INITIAL CALIBRATION REPORT

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

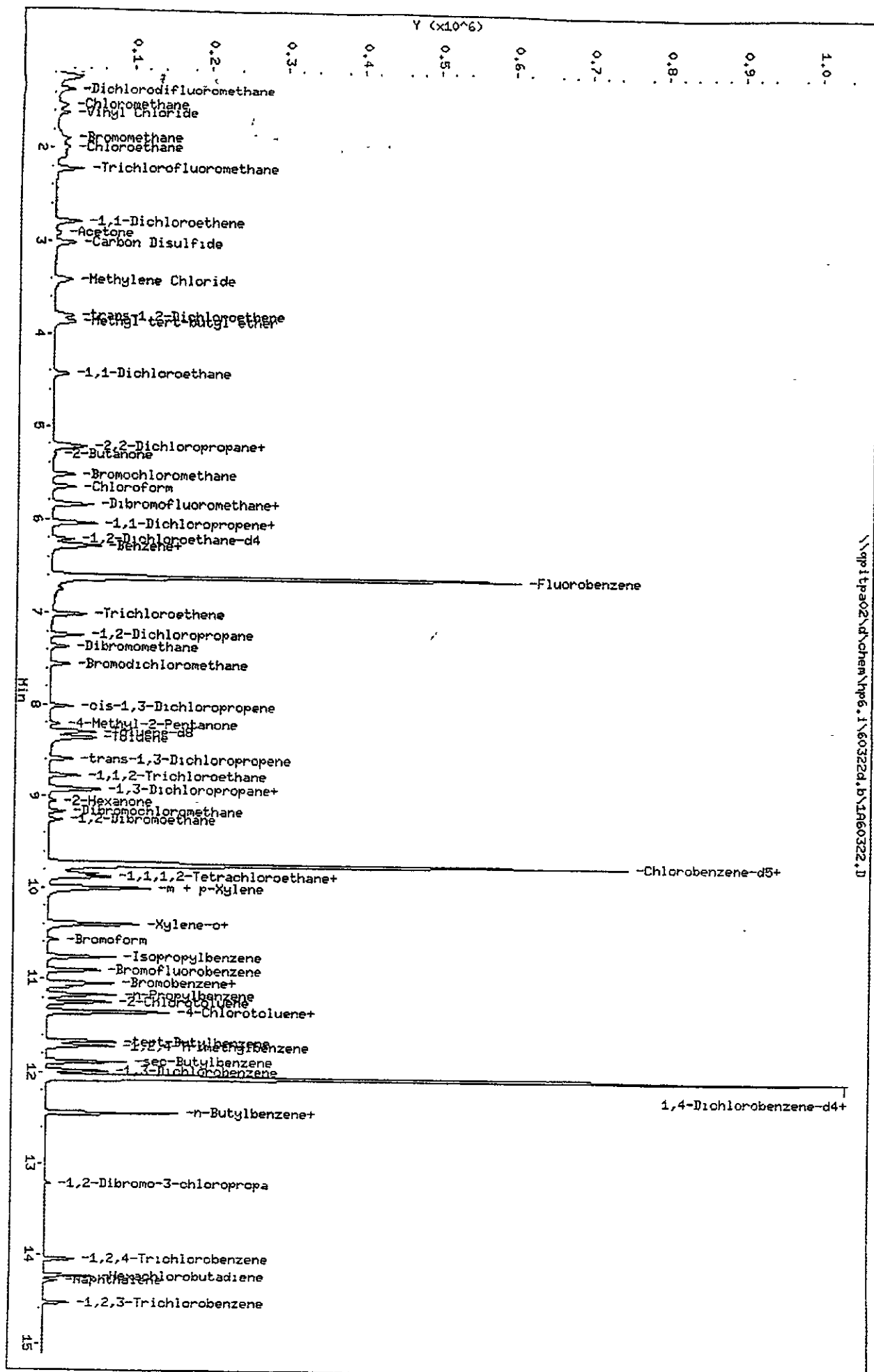
Injection Date: 22-MAR-2001 06:54
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp6.i\60322d.b

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

Data File: \\ppitpa02\chem\hp6.1\60322d.b\160322.D
 Date: 22-MAR-2001 06:54
 Client ID: vstd5
 Sample Info: vstd5 5ml
 Purge Volume: 5.0
 Column Phase: DB 624

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



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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

Ks
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	6.610	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

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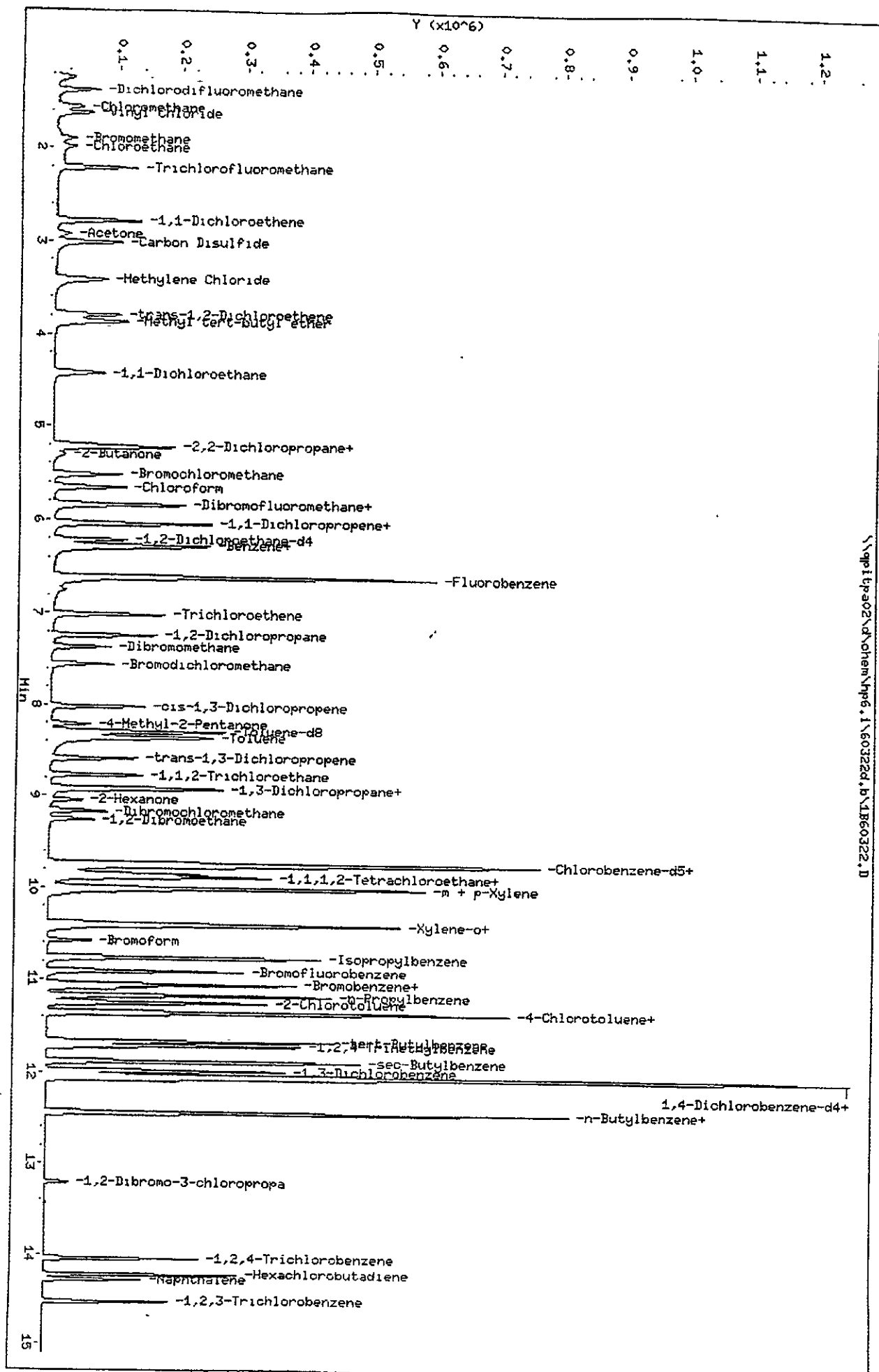
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.410	3.410	(0.516)	17031	25.0000	27.55
19 trans-1,2-Dichloroethene	96	3.805	3.805	(0.576)	15028	25.0000	24.66
20 Methyl tert-butyl ether	73	3.866	3.866	(0.585)	33999	25.0000	23.32
24 1,1-Dichloroethane	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

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (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: vstcd20
 Sample Info: vstcd20 5ml
 Purge Volume: 5.0
 Column phase: DB 624

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



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\gpitpa02\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 : \\gpitpa02\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

K₁
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	6.607	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	86.47
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

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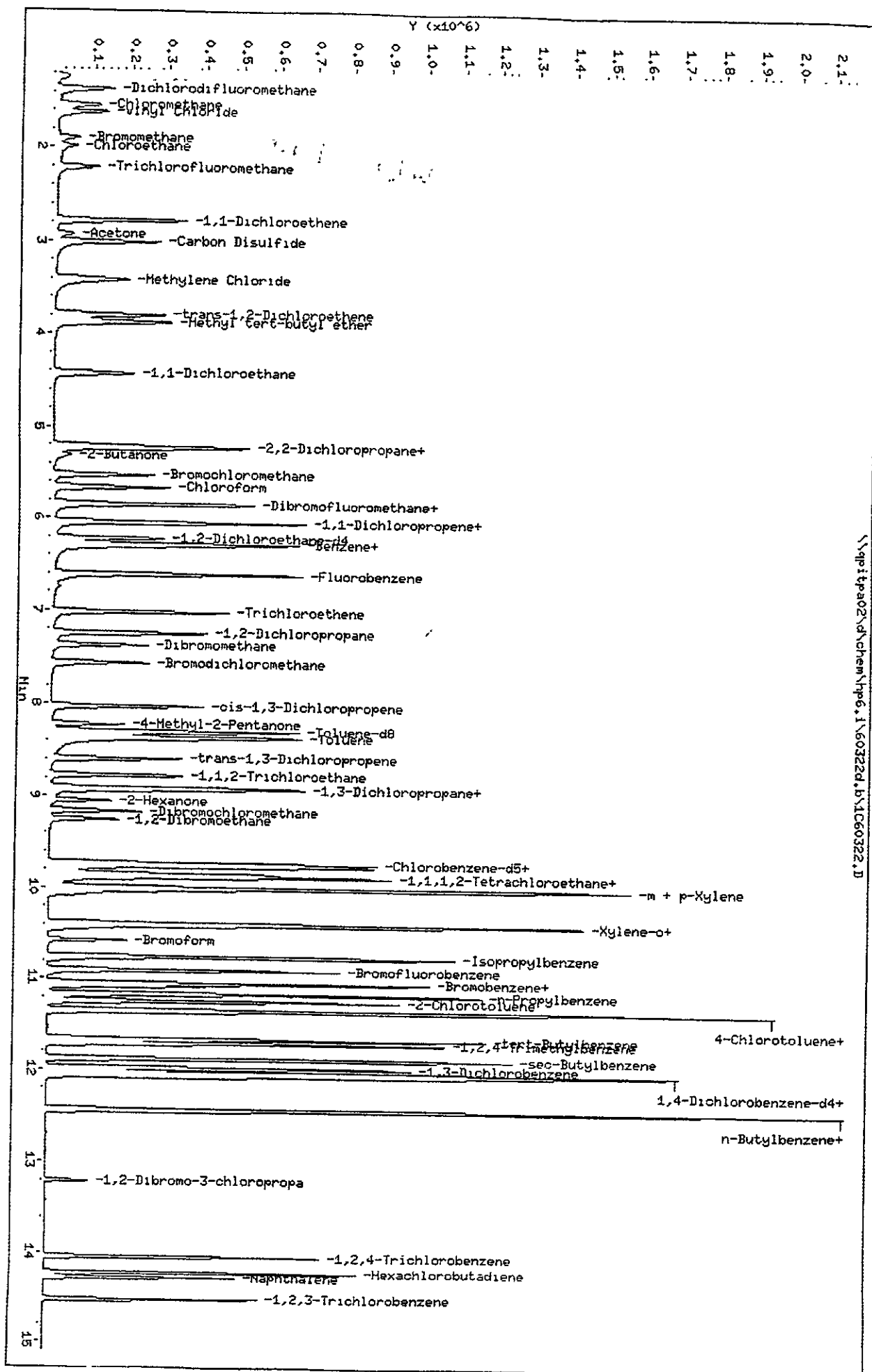
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	----	==	-----	-----	-----	-----	-----
18 Methylene Chloride	84	3.413	3.413	(0.517)	67549	100.000	103.2
19 trans-1,2-Dichloroethene	96	3.797	3.797	(0.575)	64752	100.000	100.3
20 Methyl tert-butyl ether	73	3.870	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 1,1,2,2-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

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Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	(ng)	(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: \\pittpa02\chem\hp6.1\60322d.b\1C60322.D
 Date: 22-MAR-2001 07:47
 Client ID: vstd50
 Sample Info: vstd50 Sm1
 Purge Volume: 5.0
 Column phase: DB 624

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



680 153

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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							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

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Compounds	QUANT SIG				AMOUNTS		
	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

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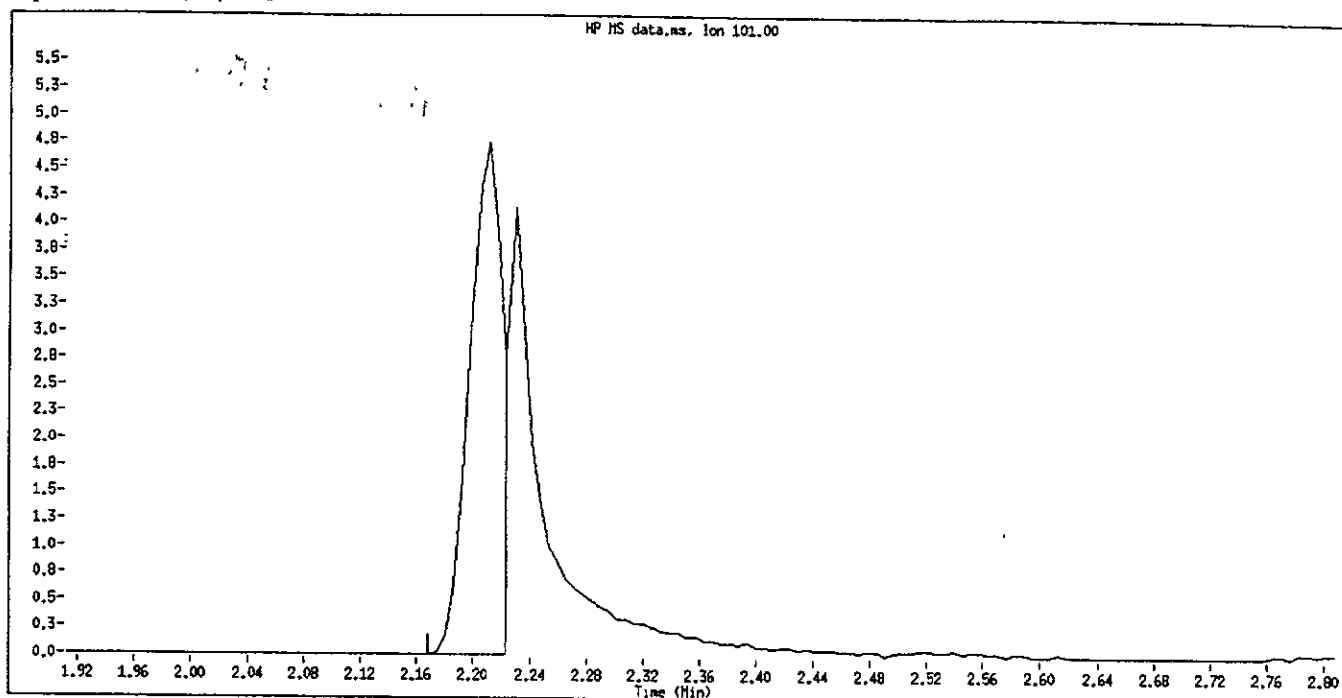
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	11.883	11.883	(0.986)	919679	250.000	264.3
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	807498	250.000	260.7
91 1,3-Dichlorobenzene	146	11.986	11.986	(0.994)	418174	250.000	254.1
93 1,4-Dichlorobenzene	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

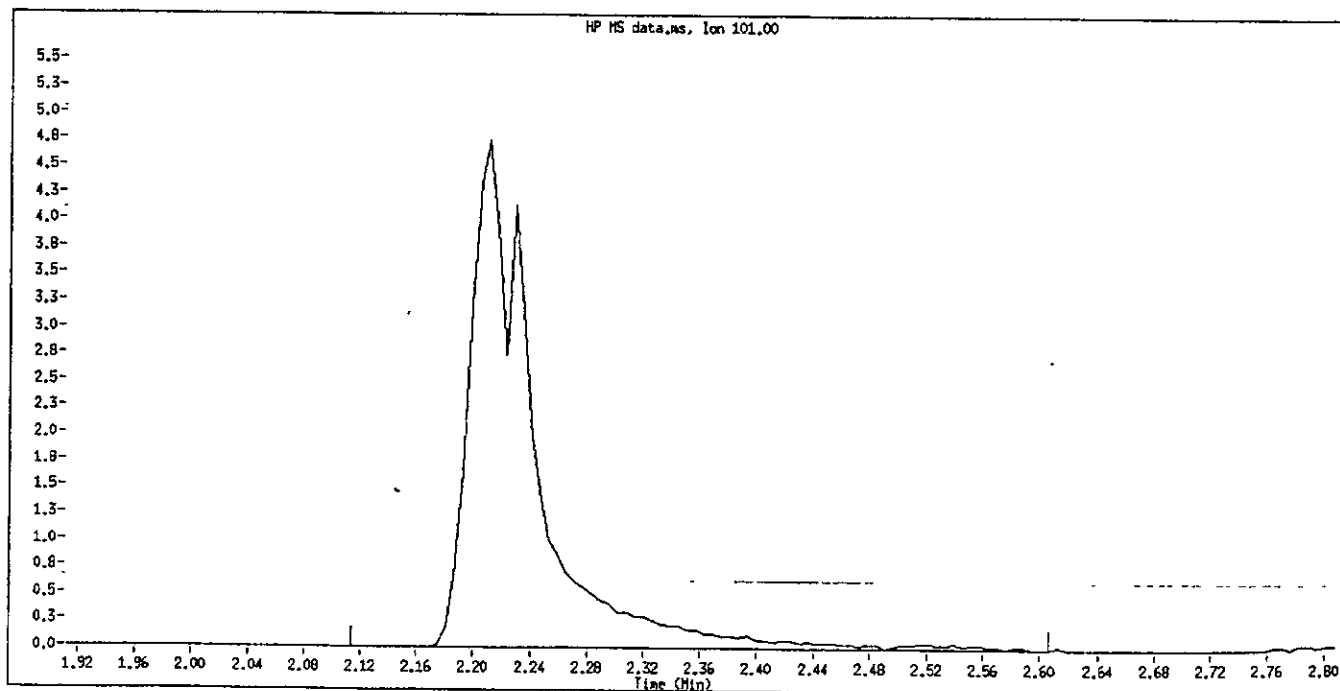
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Data File Name 1C60322.D
Inj. Date and Time: 22-MAR-2001 07:47
Instrument ID hp6 i
Client ID: vstd50
Compound Name: Trichlorofluoromethane
CAS # 75-69-4
Report Date: 03/22/2001

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Original Integration



Manual Integration

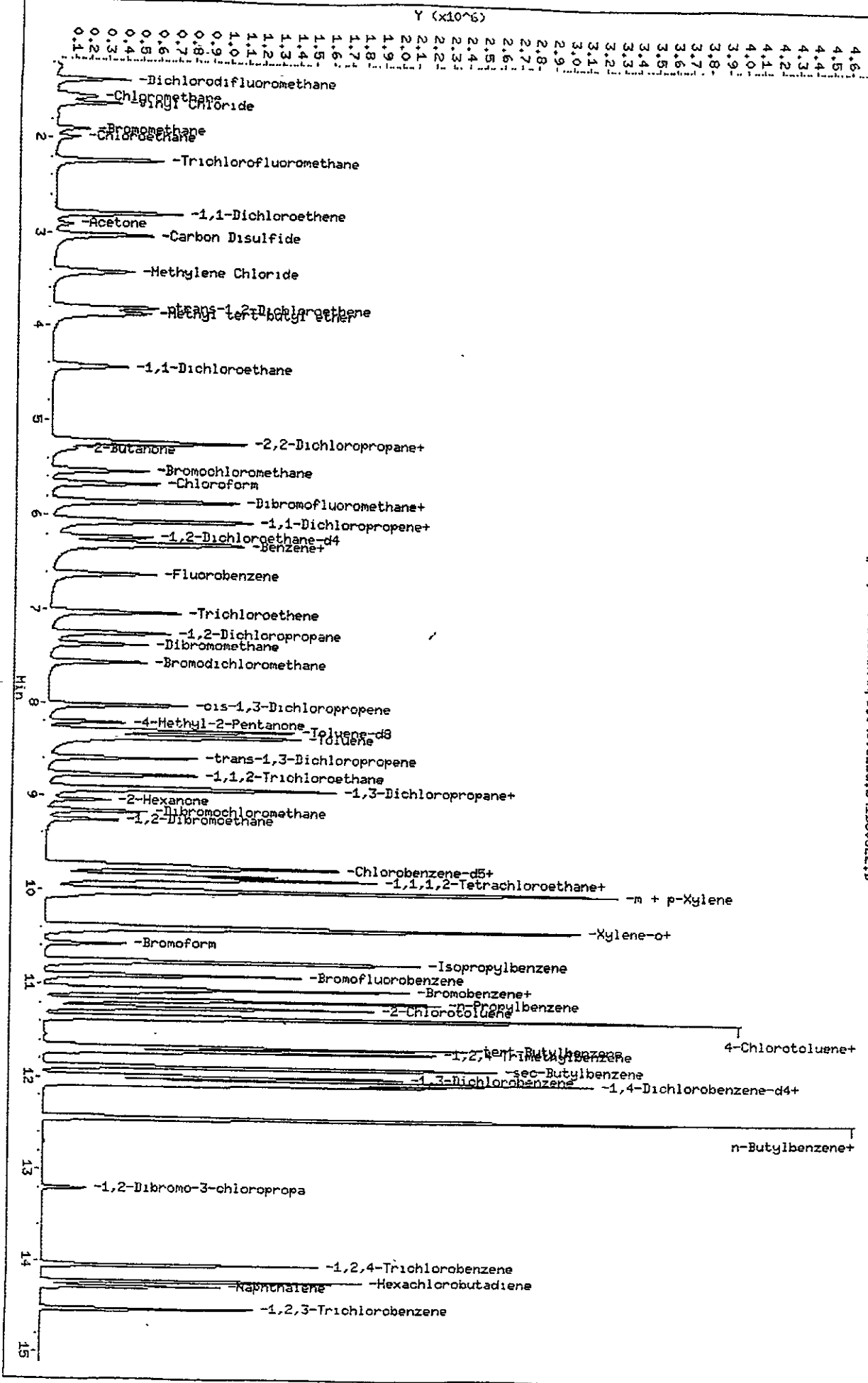
Manually Integrated By: DudeckK
Manual Integration Reason: Peak Not Found

K₃ 12/101
Paul 3/22/01

Data File: \\ppitpa02\chem\hpe.1\60322d.b\1D60322.D
 Date: 22-MAR-2001 08:12
 Client ID: vstd100
 Sample Info: vstd100 Sm1
 Purge Volume: 5.0
 Column phase: DB 624

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

\\ppitpa02\chem\hpe.1\60322d.b\1D60322.D



680 163

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

K_s
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)
* 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
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.940)	443377	500.000
\$ 59 Toluene-d8	98	8.293	8.293	(0.852)	1566160	500.000
\$ 80 Bromofluorobenzene	95	10.903	10.903	(1.120)	579075	500.000
2 Chloromethane	50	1.553	1.553	(0.235)	584275	500.000
3 Vinyl Chloride	62	1.620	1.620	(0.245)	505479	500.000
4 Bromomethane	94	1.900	1.900	(0.287)	148148	500.000
5 Chloroethane	64	1.985	1.985	(0.300)	148825	500.000
6 Trichlorofluoromethane	101	2.234	2.234	(0.338)	718170	500.000
1 Dichlorodifluoromethane	85	1.364	1.364	(0.206)	553345	500.000
12 1,1-Dichloroethene	96	2.794	2.794	(0.422)	376426	500.000
13 Acetone	43	2.910	2.910	(0.440)	155482	500.000
15 Carbon Disulfide	76	3.025	3.025	(0.457)	1282830	500.000

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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	(0.516)	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

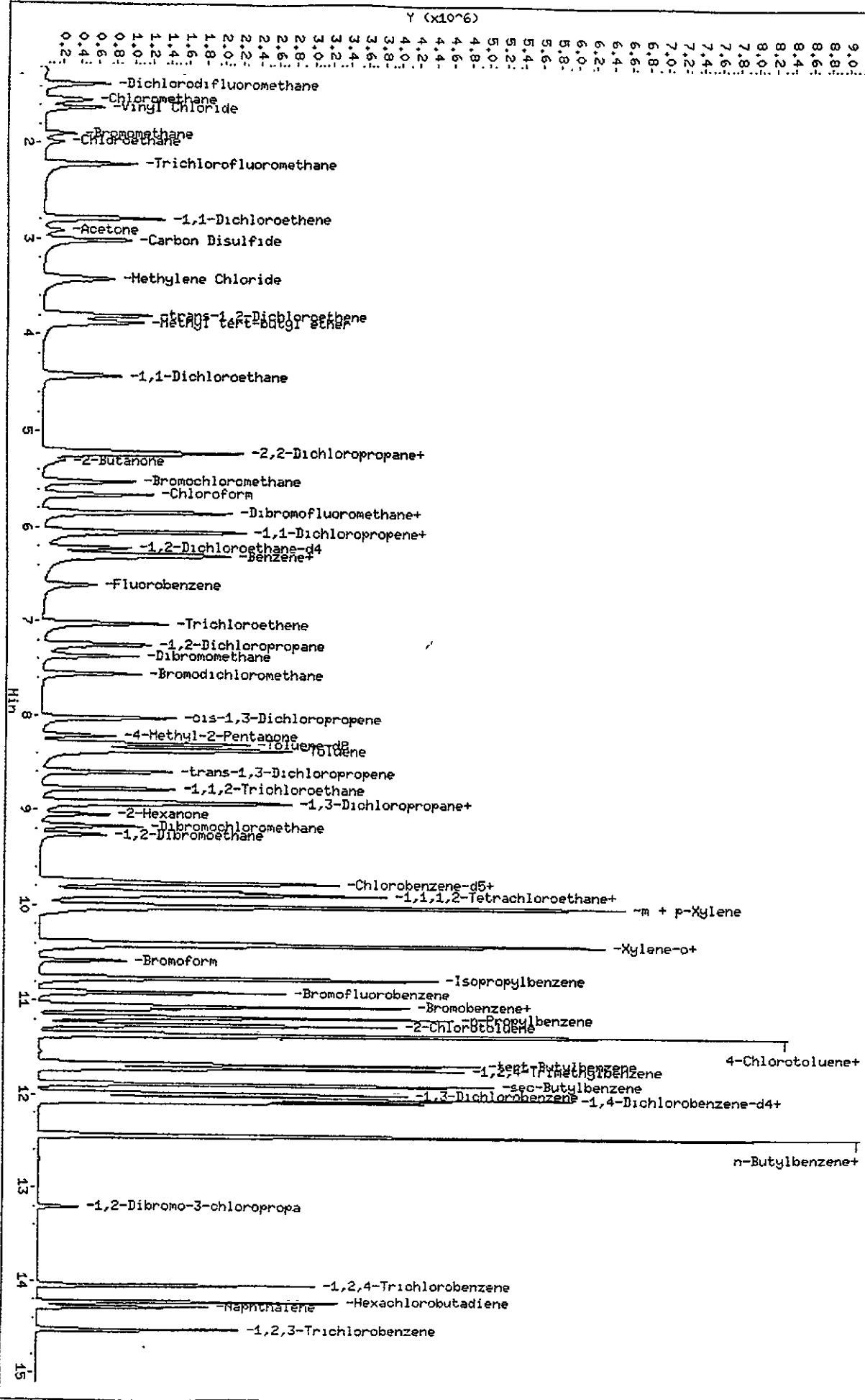
683 165

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)	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

Data File: \\qptp02\chem\hp6.1\60322d.b\160322.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

\\qptp02\chem\hp6.1\60322d.b\160322.D



680 167

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

K₃/22/1

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	6.613	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

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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

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
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

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date: 03/26/01 Time: 1121

Lab File ID: CC60326N

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: 0.20 (mm)

COMPOUND	RRF	RRF250	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.336	0.313	0.01	6.8	50.0
Chloromethane	0.349	0.329	0.1	5.7	50.0
Vinyl Chloride	0.292	0.276	0.01	5.5	20.0
Bromomethane	0.080	0.083	0.01	3.8	50.0
Chloroethane	0.095	0.097	0.01	2.1	50.0
Trichlorofluoromethane	0.400	0.466	0.01	16.5	50.0
1,1-Dichloroethene	0.226	0.228	0.01	0.9	20.0
Methylene Chloride	0.229	0.228	0.01	0.4	50.0
trans-1,2-Dichloroethene	0.225	0.230	0.01	2.2	50.0
1,1-Dichloroethane	0.397	0.404	0.1	1.8	50.0
cis-1,2-dichloroethene	0.228	0.236	0.01	3.5	50.0
Chloroform	0.374	0.378	0.01	1.1	20.0
Bromochloromethane	0.119	0.112	0.01	5.9	50.0
1,1,1-Trichloroethane	0.334	0.332	0.01	0.6	50.0
Carbon Tetrachloride	0.298	0.311	0.01	4.4	50.0
1,2-Dichloroethane	0.316	0.323	0.01	2.2	50.0
Benzene	0.889	0.938	0.01	5.5	50.0
Trichloroethene	0.233	0.239	0.01	2.6	50.0
1,2-Dichloropropane	0.218	0.222	0.01	1.8	20.0
Bromodichloromethane	0.259	0.274	0.01	5.8	50.0
cis-1,3-Dichloropropene	0.309	0.331	0.01	7.1	50.0
Toluene	4.167	4.407	0.01	5.8	20.0
trans-1,3-Dichloropropene	1.204	1.298	0.01	7.8	50.0
1,1,2-Trichloroethane	0.793	0.833	0.01	5.0	50.0
Tetrachloroethene	0.846	0.894	0.01	5.7	50.0
Dibromochloromethane	0.850	0.923	0.01	8.6	50.0
Chlorobenzene	2.811	2.876	0.3	2.3	50.0
Ethylbenzene	1.447	1.479	0.01	2.2	20.0
Styrene	2.907	3.072	0.01	5.7	50.0
Bromoform	0.516	0.558	0.1	8.1	50.0
1,1,2,2-Tetrachloroethane	0.543	0.538	0.3	0.9	50.0
1,3-Dichlorobenzene	1.309	1.351	0.01	3.2	50.0
1,4-Dichlorobenzene	1.375	1.390	0.01	1.1	50.0
1,2-Dichlorobenzene	1.236	1.276	0.01	3.2	50.0
Dibromomethane	0.127	0.128	0.01	0.8	50.0
1,2-Dibromoethane	0.783	0.804	0.01	2.7	50.0
1,1,1,2-Tetrachloroethane	0.957	1.027	0.01	7.3	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

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Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date: 03/26/01 Time: 1121

Lab File ID: CC60326N

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

Heated Purge: (Y/N) N

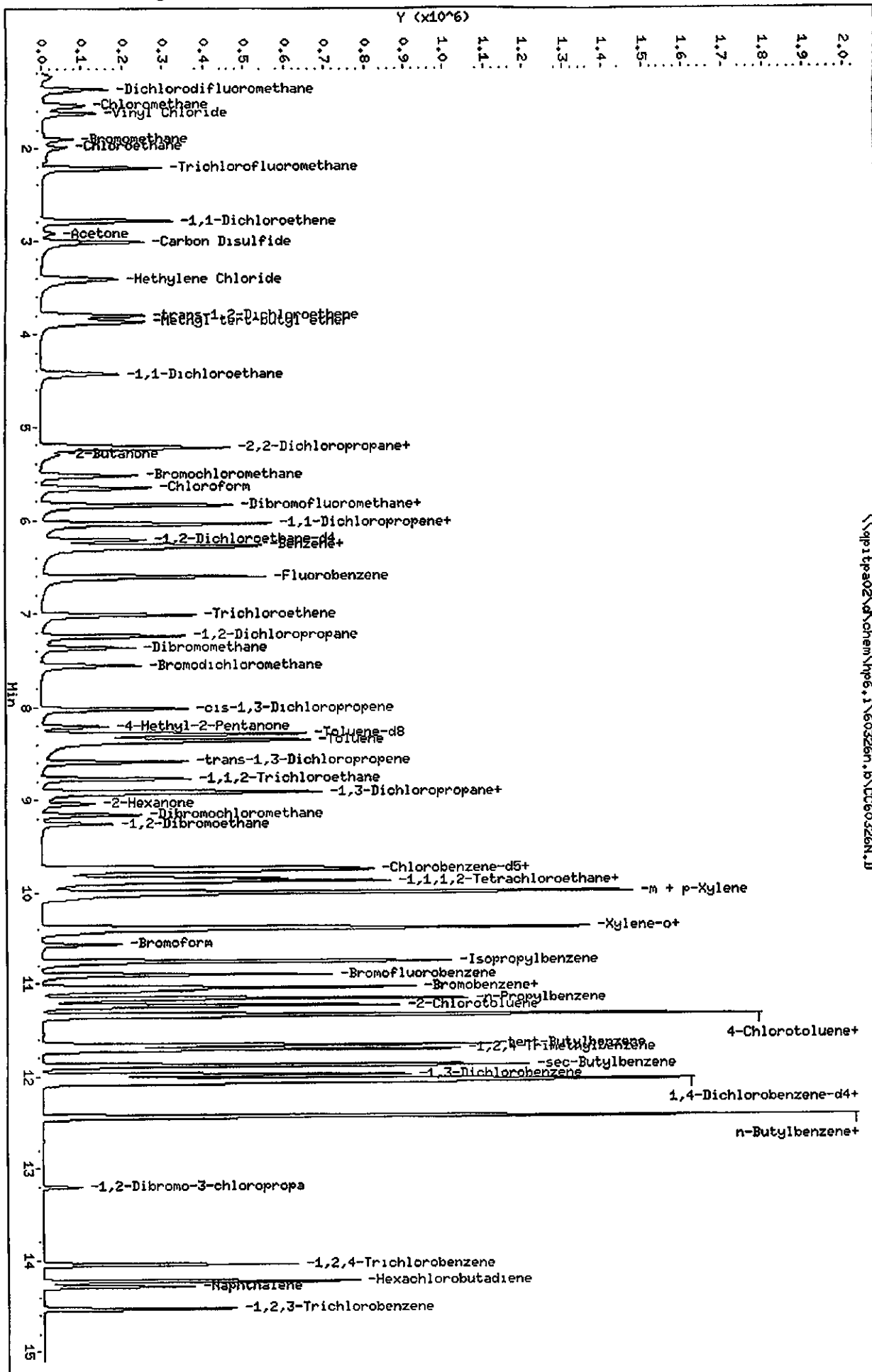
Init. Calib. Times: 0654 0838

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	RRF	RRF250	MIN RRF	%D	MAX %D
1,2,3-Trichloropropane	0.183	0.183	0.01	0.0	50.0
1,2-Dibromo-3-chloropropane	0.086	0.083	0.01	3.5	50.0
2,2-Dichloropropane	0.292	0.290	0.01	0.7	50.0
1,1-Dichloropropene	0.277	0.294	0.01	6.1	50.0
1,3-Dichloropropane	1.459	1.509	0.01	3.4	50.0
n-Propylbenzene	0.745	0.789	0.01	5.9	50.0
Bromobenzene	0.656	0.674	0.01	2.7	50.0
1,3,5-Trimethylbenzene	2.132	2.272	0.01	6.6	50.0
2-Chlorotoluene	0.660	0.690	0.01	4.5	50.0
4-Chlorotoluene	0.689	0.712	0.01	3.3	50.0
tert-Butylbenzene	1.884	2.038	0.01	8.2	50.0
1,2,4-Trimethylbenzene	2.075	2.213	0.01	6.6	50.0
sec-Butylbenzene	2.767	2.982	0.01	7.8	50.0
4-Isopropyltoluene	2.464	2.641	0.01	7.2	50.0
n-Butylbenzene	2.085	2.284	0.01	9.5	50.0
1,2,4-Trichlorobenzene	0.608	0.639	0.01	5.1	50.0
Hexachlorobutadiene	0.458	0.481	0.01	5.0	50.0
Naphthalene	0.971	0.967	0.01	0.4	50.0
1,2,3-Trichlorobenzene	0.488	0.496	0.01	1.6	50.0
Acetone	0.124	0.076	0.01	38.7	50.0
Carbon Disulfide	0.758	0.772	0.01	1.8	50.0
2-Butanone	0.104	0.090	0.01	13.5	50.0
4-Methyl-2-Pentanone	0.760	0.789	0.01	3.8	50.0
2-Hexanone	0.534	0.498	0.01	6.7	50.0
Methyl tert-butyl ether	0.539	0.528	0.01	2.0	50.0
Isopropylbenzene	4.396	4.740	0.01	7.8	50.0
1,2-Dichloroethene (total)	0.226	0.233	0.01	3.1	50.0
Xylenes (total)	1.710	1.814	0.01	6.1	50.0
Dibromofluoromethane	0.234	0.239	0.01	2.1	50.0
1,2-Dichloroethane-d4	0.282	0.283	0.01	0.4	50.0
Toluene-d8	3.964	4.262	0.01	7.5	50.0
Bromofluorobenzene	1.515	1.589	0.01	4.9	50.0

Data File: \\pittpa02\chem\hpe6.i\60326n.b\DC60326N.D
 Date : 26-MAR-2004 14:21
 Client ID: vstc50
 Sample Info: vstc50 Sm1
 Purge Volume: 5.0
 Column phase: DB 624

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



680 173

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60326n.b\CC60326N.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 26-MAR-2001 11:21
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd50 5ml
Misc Info : vstd50, 60326n.b,8260bh2o.m
Comment :
Method : \\QPITPA02\D\chem\hp6.i\60326n.b\8260bh2o.m
Meth Date : 26-Mar-2001 11:46 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 08:38 Cal File: 1E60322.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

K₂ 3/24/01

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					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.608	6.608 (1.000)		696645	250.000	
* 69 Chlorobenzene-d5	119	9.735	9.735 (1.000)		164725	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.046	12.046 (1.000)		287392	250.000	
\$ 39 Dibromofluoromethane	113	5.847	5.847 (0.885)		166802	250.000	255.4
\$ 43 1,2-Dichloroethane-d4	65	6.218	6.218 (0.941)		197201	250.000	251.4
\$ 59 Toluene-d8	98	8.293	8.293 (0.852)		701999	250.000	268.8
\$ 80 Bromofluorobenzene	95	10.903	10.903 (1.120)		261752	250.000	262.1
2 Chloromethane	50	1.540	1.540 (0.233)		229345	250.000	235.7
3 Vinyl Chloride	62	1.619	1.619 (0.245)		192012	250.000	235.6
4 Bromomethane	94	1.893	1.893 (0.287)		57640	250.000	259.1
5 Chloroethane	64	1.984	1.984 (0.300)		67729	250.000	256.8
6 Trichlorofluoromethane	101	2.216	2.216 (0.335)		324832	250.000	291.3
1 Dichlorodifluoromethane	85	1.364	1.364 (0.206)		217977	250.000	233.0
12 1,1-Dichloroethene	96	2.787	2.787 (0.422)		158582	250.000	251.4
13 Acetone	43	2.915	2.915 (0.441)		53009	250.000	153.2
15 Carbon Disulfide	76	3.012	3.012 (0.456)		537950	250.000	254.8

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	----	--	-----	-----	-----	-----	-----
18 Methylene Chloride	84	3.408	3.408	(0.516)	159011	250.000	249.7
19 trans-1,2-Dichloroethene	96	3.797	3.797	(0.575)	159978	250.000	254.8
20 Methyl tert-butyl ether	73	3.864	3.864	(0.585)	367727	250.000	244.8
24 1,1-Dichloroethane	63	4.430	4.430	(0.670)	281301	250.000	254.1
27 2,2-Dichloropropane	77	5.215	5.215	(0.789)	202173	250.000	248.3
28 cis-1,2-dichloroethene	96	5.233	5.233	(0.792)	164421	250.000	259.2
M 29 1,2-Dichloroethene (total)	96				324399	500.000	514.1
30 Bromochloromethane	128	5.525	5.525	(0.836)	78154	250.000	236.3
31 2-Butanone	43	5.306	5.306	(0.803)	62680	250.000	215.8
37 Chloroform	83	5.659	5.659	(0.856)	263031	250.000	252.3
38 1,1,1-Trichloroethane	97	5.841	5.841	(0.884)	231646	250.000	248.6
40 1,1-Dichloropropene	75	6.048	6.048	(0.915)	204837	250.000	265.4
41 Carbon Tetrachloride	117	6.042	6.042	(0.914)	216986	250.000	261.2
42 Benzene	78	6.279	6.279	(0.950)	653136	250.000	263.8
45 1,2-Dichloroethane	62	6.304	6.304	(0.954)	225215	250.000	256.0
47 Trichloroethene	130	7.015	7.015	(1.062)	166560	250.000	257.1
49 1,2-Dichloropropane	63	7.241	7.241	(1.096)	154407	250.000	253.6
50 Dibromomethane	93	7.368	7.368	(1.115)	89004	250.000	252.3
53 Bromodichloromethane	83	7.557	7.557	(1.144)	190824	250.000	264.8
57 cis-1,3-Dichloropropene	75	8.019	8.019	(1.214)	230795	250.000	268.3
58 4-Methyl-2-Pentanone	43	8.214	8.214	(0.844)	130003	250.000	259.4
60 Toluene	91	8.360	8.360	(0.859)	725890	250.000	264.3
61 trans-1,3-Dichloropropene	75	8.591	8.591	(0.883)	213861	250.000	269.5
63 1,3-Dichloropropane	76	8.932	8.932	(0.918)	248638	250.000	258.6
64 1,1,2-Trichloroethane	97	8.774	8.774	(0.901)	137253	250.000	262.8
65 Tetrachloroethene	164	8.913	8.913	(0.916)	147273	250.000	264.1
66 2-Hexanone	43	9.047	9.047	(0.929)	81957	250.000	233.1
67 Dibromochloromethane	129	9.163	9.163	(0.941)	151999	250.000	271.4
68 1,2-Dibromoethane	107	9.260	9.260	(0.951)	132453	250.000	256.8
70 Chlorobenzene	112	9.765	9.765	(1.003)	473677	250.000	255.8
71 1,1,1,2-Tetrachloroethane	131	9.850	9.850	(1.012)	169226	250.000	268.3
72 Ethylbenzene	106	9.881	9.881	(1.015)	243563	250.000	255.4
73 m + p-Xylene	106	10.002	10.002	(1.027)	628993	500.000	518.4
74 Xylene-o	106	10.392	10.392	(1.067)	298868	250.000	265.2
M 75 Xylenes (total)	106				927861	250.000	823.5
76 Styrene	104	10.404	10.404	(1.069)	506087	250.000	264.2
77 Bromoform	173	10.574	10.574	(1.086)	91911	250.000	270.4
78 Isopropylbenzene	105	10.757	10.757	(1.105)	780828	250.000	269.6
79 Bromobenzene	156	11.049	11.049	(0.917)	193713	250.000	257.0
81 n-Propylbenzene	120	11.170	11.170	(0.927)	226846	250.000	264.9
82 2-Chlorotoluene	126	11.243	11.243	(0.933)	198399	250.000	261.5
83 1,1,2,2-Tetrachloroethane	83	11.049	11.049	(0.917)	154768	250.000	247.9
84 1,2,3-Trichloropropane	110	11.085	11.085	(0.920)	52544	250.000	249.3
85 4-Chlorotoluene	126	11.353	11.353	(0.942)	204654	250.000	258.2
86 1,3,5-Trimethylbenzene	105	11.347	11.347	(0.942)	652977	250.000	266.4
87 tert-Butylbenzene	119	11.669	11.669	(0.969)	585611	250.000	270.4
88 1,2,4-Trimethylbenzene	105	11.712	11.712	(0.972)	636109	250.000	266.7

680 175

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	
89 sec-Butylbenzene	105	11 882	11.882	(0.986)	856871	250.000	269.3	
90 4-Isopropyltoluene	119	12 034	12.034	(0.999)	759098	250.000	268.0	
91 1,3-Dichlorobenzene	146	11 986	11.986	(0.995)	388183	250.000	257.9	
93 1,4-Dichlorobenzene	146	12.071	12.071	(1.002)	399581	250.000	252.8	
94 n-Butylbenzene	91	12.436	12.436	(1.032)	656409	250.000	273.8	
95 1,2-Dichlorobenzene	146	12.442	12.442	(1.033)	366726	250.000	258.1	
96 1,2-Dibromo-3-chloropropane	157	13.208	13.208	(1.096)	23900	250.000	242.0	
97 1,2,4-Trichlorobenzene	180	14.048	14.048	(1.166)	183561	250.000	262.5	
98 Hexachlorobutadiene	225	14.230	14.230	(1.181)	138300	250.000	262.9	
99 Naphthalene	128	14 285	14.285	(1.186)	277870	250.000	248.9	
100 1,2,3-Trichlorobenzene	180	14 535	14.535	(1.207)	142451	250.000	253.8	

680 176

GC/MS VOLATILE
QC DATA

Date : 22-MAR-2001 06:27

Client ID: 25NCBFB

Instrument: hp6.1

680 177

Sample Info: bfb 1ul inj

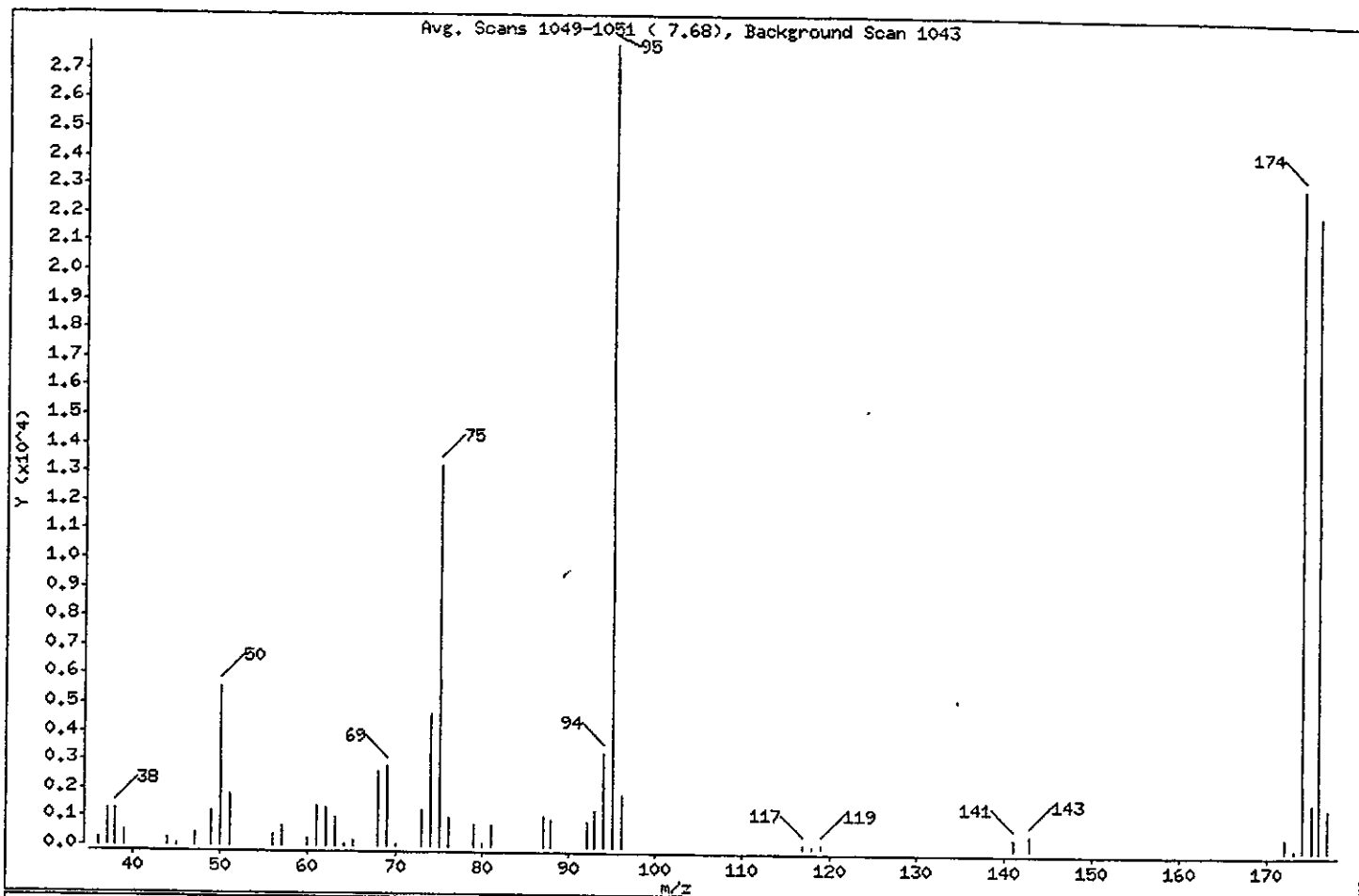
Volume Injected (uL): 1.0

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\D\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

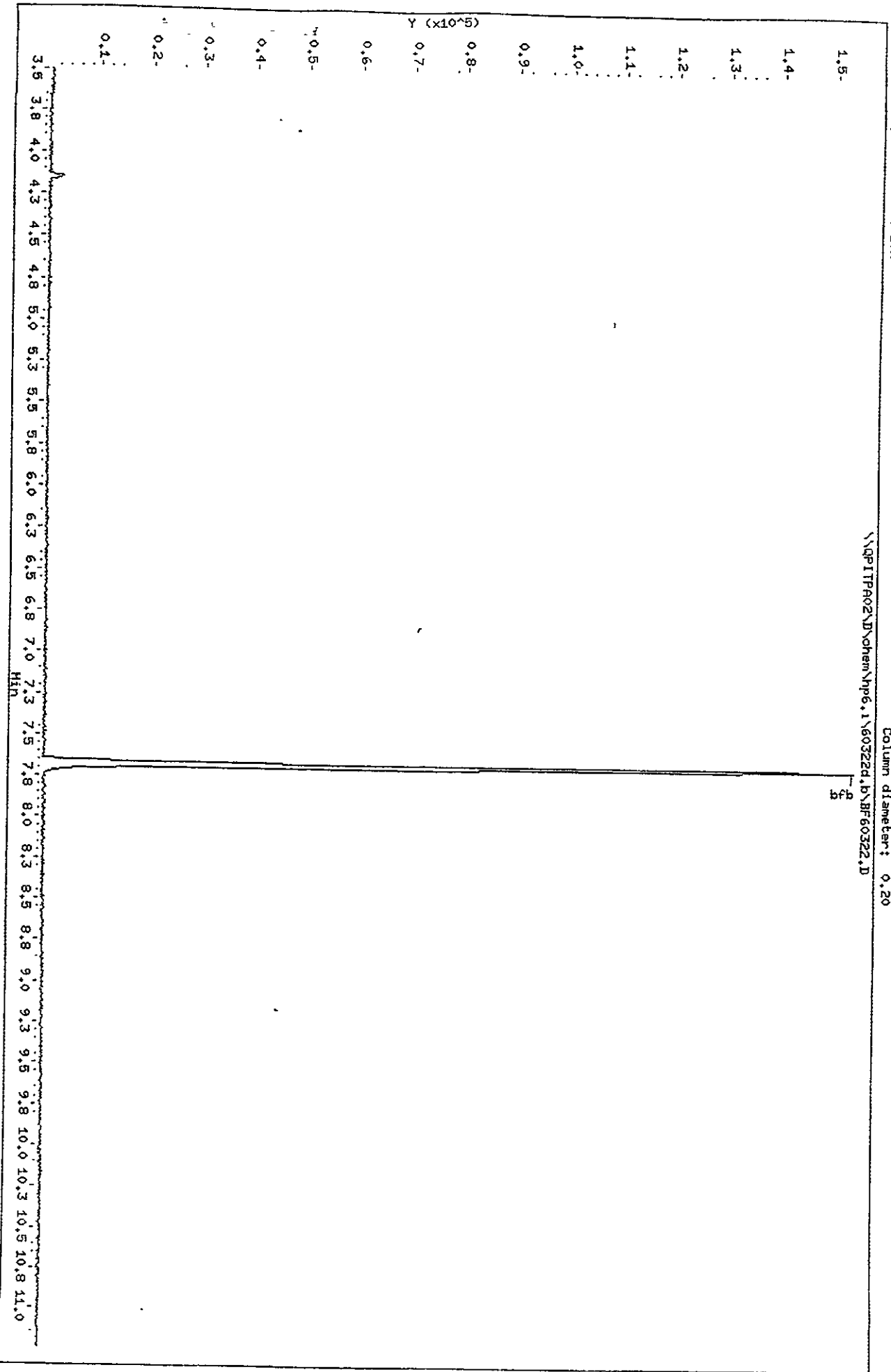
Location of Maximum: 95.00

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		

Date File: \\QPIITPA02\chem\hpe.1\60322d.b\BF60322.D
Date: 22-MAR-2001 06:27
Client ID: 25HGBFB
Sample Info: hfb 1ul inj
Volume Injected (uL): 1.0
Column Phase: DB624 20m

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



Data File: \\qpitpa02\d\chem\hp6.1\60326n.b\BF60326N.D

Date : 26-MAR-2001 10:56

Client ID: 25NGBFB

Instrument: hp6.i

Sample Info: bfb 1ul inj

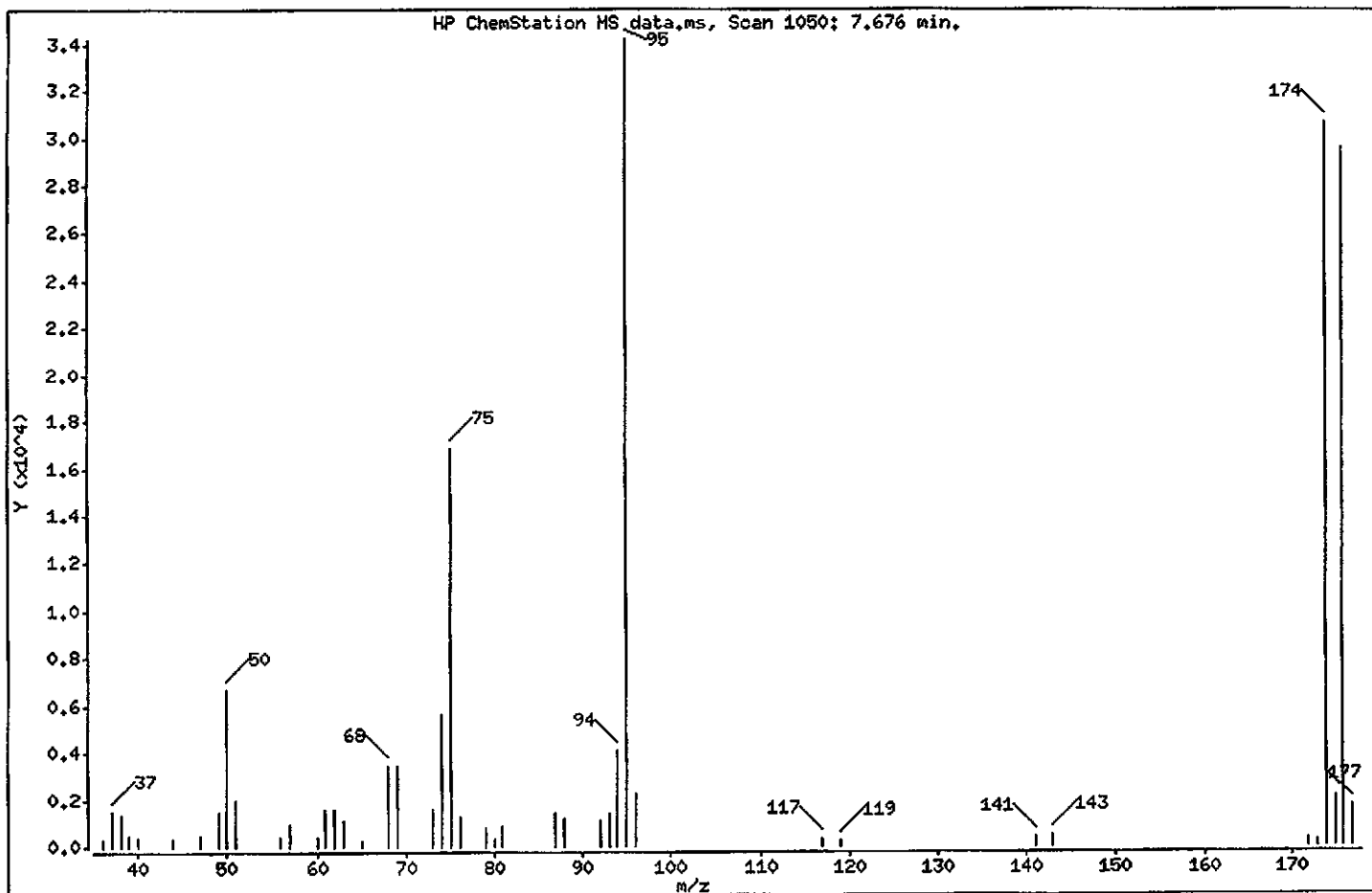
Volume Injected (uL): 1.0

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	19.44
75	30.00 - 60.00% of mass 95	49.19
96	5.00 - 9.00% of mass 95	6.56
173	Less than 2.00% of mass 174	0.79 (0.88)
174	50.00 - 100.00% of mass 95	89.60
175	5.00 - 9.00% of mass 174	6.17 (6.89)
176	95.00 - 101.00% of mass 174	96.42 (96.45)
177	5.00 - 9.00% of mass 176	5.14 (5.95)

Date : 26-MAR-2001 10:56

Client ID: 25NCBFB

Instrument: hp6.i

680 181

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF60326N.D

Spectrum: HP ChemStation HS data.ms, Scan 1050: 7.676 min.

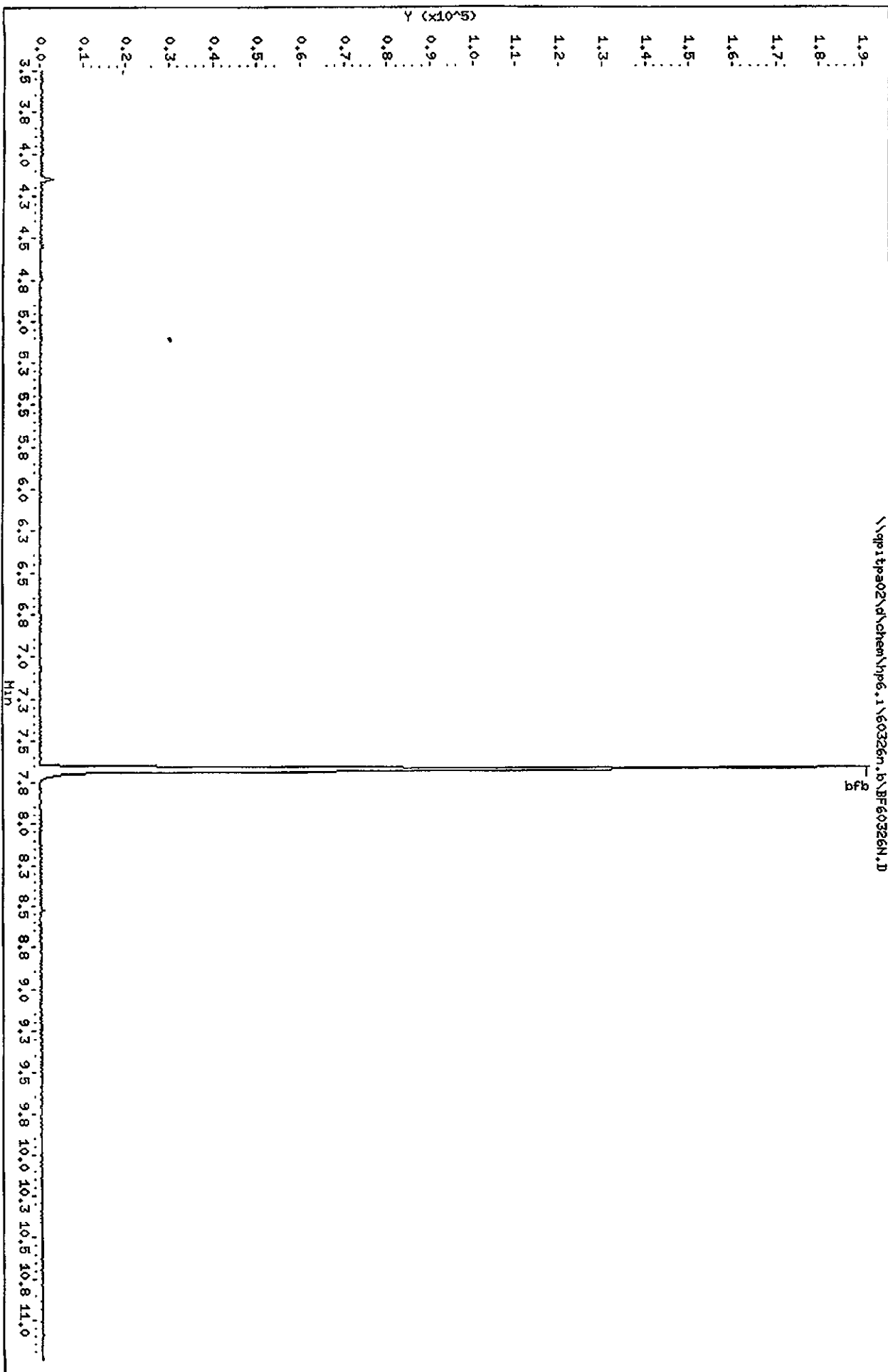
Location of Maximum: 95.00

Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	298	57.00	944	76.00	1260	116.90	349
37.00	1526	60.00	359	78.90	821	118.90	220
38.10	1337	61.00	1550	80.00	286	140.90	420
39.00	491	62.00	1604	80.90	835	142.90	485
40.00	362	63.00	1136	86.90	1420	171.90	326
44.00	296	65.00	216	87.90	1206	172.90	270
47.00	434	68.00	3495	92.00	1138	173.90	30656
49.10	1484	69.00	3430	93.00	1427	174.90	2112
50.00	6652	73.00	1580	94.00	4113	175.90	29568
51.00	1978	74.00	5635	95.00	34216	176.90	1758
56.00	408	75.00	16832	96.00	2245		

Data File: \\qpi1tpa02\chem\hp6.i\60326n.b\BF60326N.D
 Date : 26-MAR-2001 10:56
 Client ID: 25NCBFB
 Sample Info: bfb 1ul inj
 Volume Injected (uL): 1.0
 Column phase: DB624 20m

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



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

680 183

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

Matrix: (soil/water) WATER Lab Sample ID: C1C260000 303

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

Sample WT/Vol: 5 / mL Date Received: 03/22/01
Work Order: DX0KD1AA Date Extracted: 03/26/01
Dilution factor: 1 Date Analyzed: 03/26/01
Moisture %: NA

QC Batch: 1085303

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

680 184

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C260000 303

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 03/22/01
Work Order: DX0KD1AA Date Extracted: 03/26/01
Dilution factor: 1 Date Analyzed: 03/26/01
Moisture %: NA

QC Batch: 1085303

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

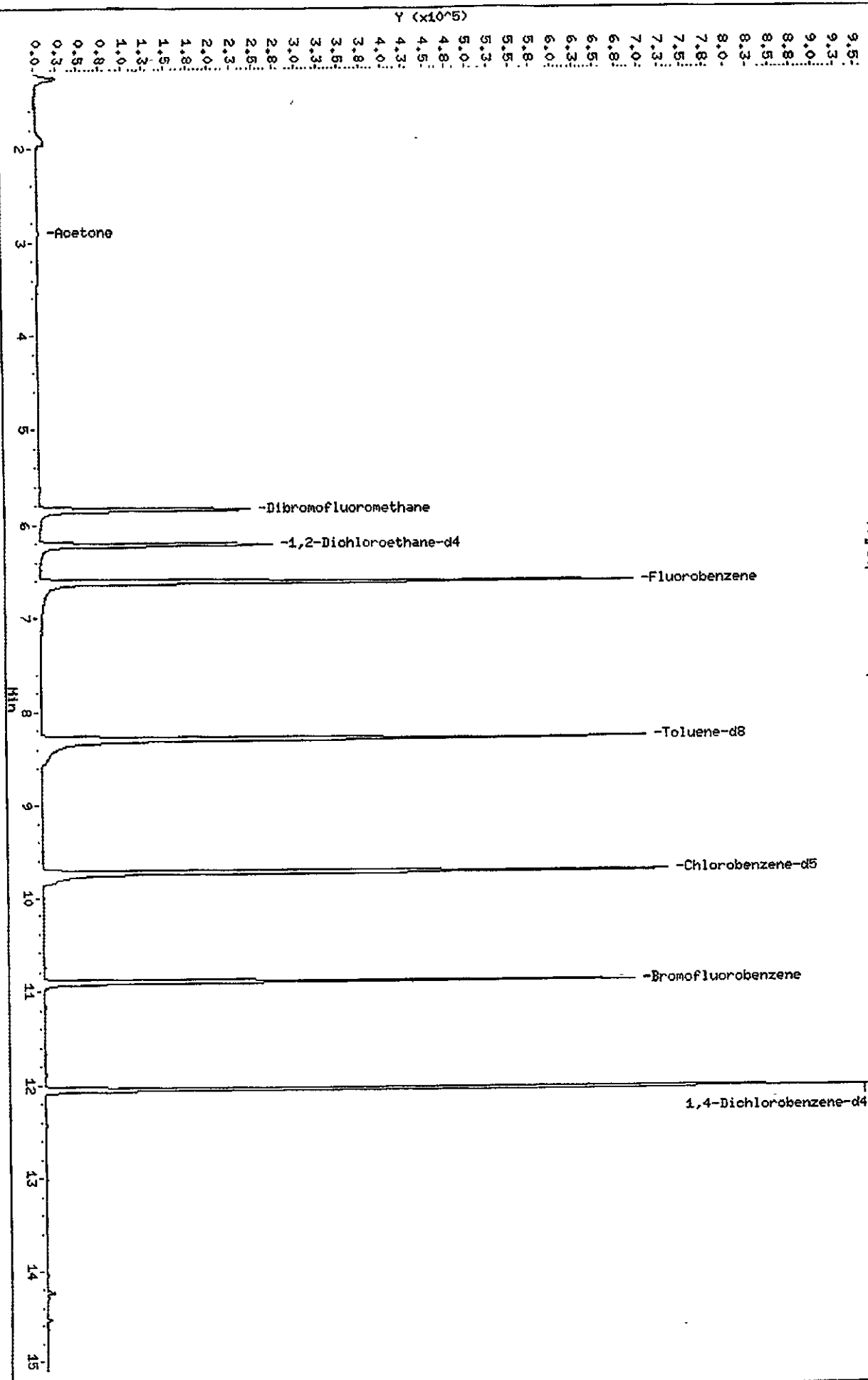
Data File: \\qpltpa02\\chem\\hp6.i\\60326n.b\\60326H01.D
Date: 26-MAR-2001 11:57

Client ID:
Sample Info: vblk 5m1
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp6.i

Operator: 16328
Column diameter: 0.20

\\qpltpa02\\chem\\hp6.i\\60326n.b\\60326H01.D



680 186

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60326n.b\60326N01.D
Lab Smp Id: vstd10
Inj Date : 26-MAR-2001 11:57
Operator : 16328
Smp Info : vblk 5ml
Misc Info : vstd10, 60326n.b,8260bh2o.m
Comment :
Method : \\QPITPA02\D\chem\hp6.i\60326n.b\8260bh2o.m
Meth Date : 26-Mar-2001 11:46 dudeckk
Cal Date : 22-MAR-2001 08:38
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC077

Inst ID: hp6.i

K's 3/26/01

Quant Type: ISTD
Cal File: 1E60322.D

Compound Sublist: 4-dwlistw.sub

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene		96	6 607	6 608	(1.000)	741515	250.000	
* 69 Chlorobenzene-d5		119	9 728	9.735	(1.000)	164132	250.000	
* 92 1,4-Dichlorobenzene-d4		152	12 046	12.046	(1.000)	262824	250 000	
\$ 39 Dibromofluoromethane		113	5 847	5.847	(0.885)	168637	242 622	48.52
\$ 43 1,2-Dichloroethane-d4		65	6.218	6.218	(0.941)	213290	255.428	51 08
\$ 59 Toluene-d8		98	8.293	8 293	(0.852)	665526	255.729	51.14
\$ 80 Bromofluorobenzene		95	10.902	10 903	(1.121)	236377	237.564	47.51
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	2 896	2.915	(0 438)	3424	9 29998	1.860 <MDL
15 Carbon Disulfide		76						Compound Not Detected.

K6
3/27/01

680 187

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		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 1,1,1,2,2-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	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.			

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

683 189

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

Matrix: (soil/water) WATER Lab Sample ID: C1C260000 303

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DX0KD1AC

Date Extracted: 03/26/01

Dilution factor: 1

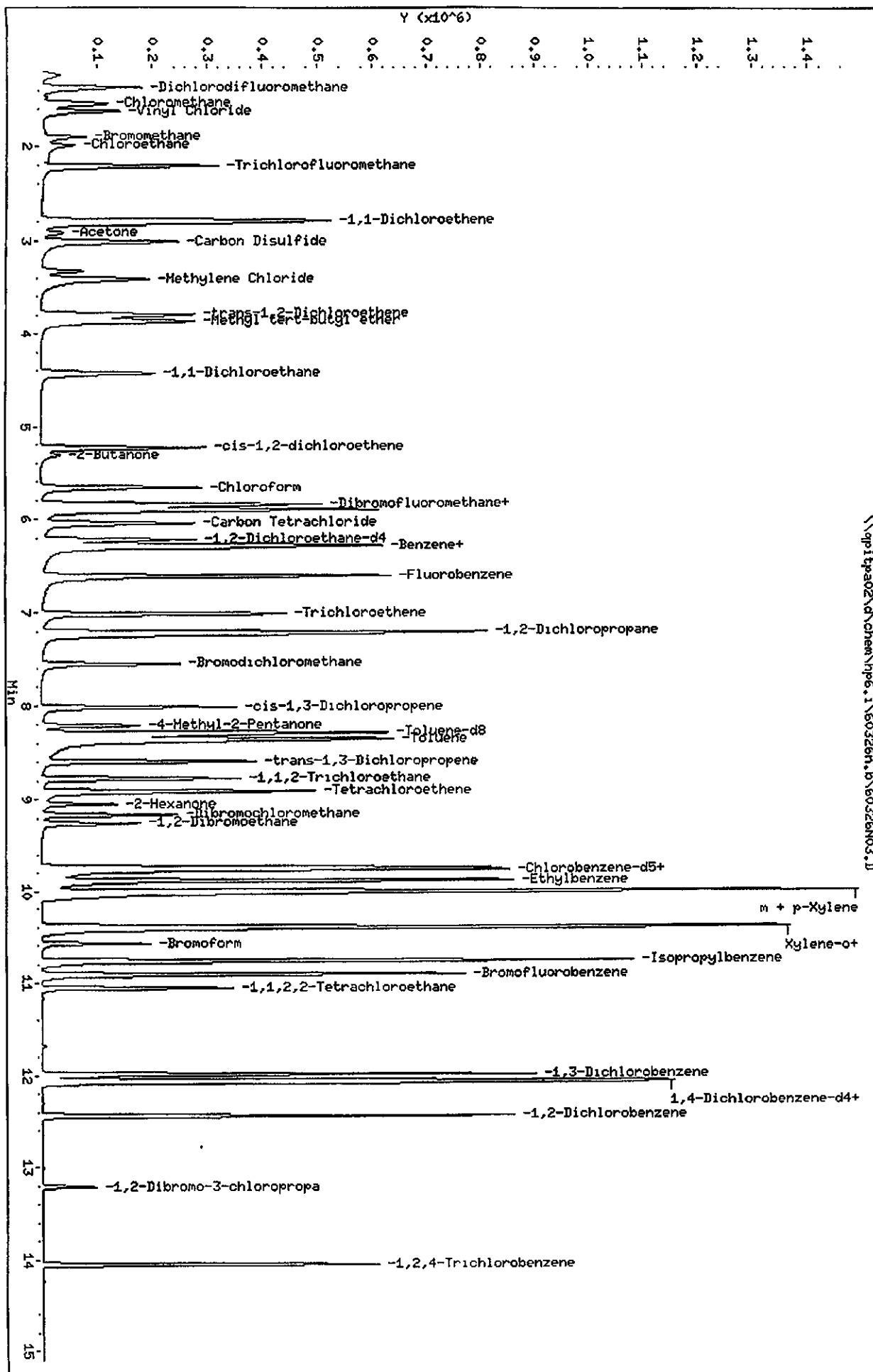
Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1085303

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	51.8	
108-90-7	Chlorobenzene	49.4	
75-35-4	1,1-Dichloroethene	51.7	
108-88-3	Toluene	51.0	
79-01-6	Trichloroethene	52.2	



Data File: \\optipa02\chem\hpe.1\60326n.b\60326n03.D
 Date : 26-MAR-2001 12:55
 Client ID:
 Sample Info: b1k ms 5ml
 Purge Volume: 5.0
 Column phase: DB 624

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

680 191

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60326n.b\60326N03.D

Lab Smp Id:

Inj Date : 26-MAR-2001 12:55

Operator : 16328

Inst ID: hp6.i

Smp Info : blk ms 5ml

Misc Info : , 60326n.b,8260bh2o.m

Comment :

Method : \\QPITPA02\D\chem\hp6.i\60326n.b\8260bh2o.m

Meth Date : 26-Mar-2001 11:46 dudeckk

Quant Type: ISTD

Cal Date : 22-MAR-2001 08:38

Cal File: 1E60322.D

Als bottle: 20

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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(UG/L)
* 46 Fluorobenzene	96	6 610	6.608	(1.000)	729322	250.000		
* 69 Chlorobenzene-d5	119	9.737	9.735	(1.000)	178420	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.049	12.046	(1.000)	291936	250.000		
\$ 39 Dibromofluoromethane	113	5.850	5.847	(0.885)	176043	257.511	51.50	
\$ 43 1,2-Dichloroethane-d4	65	6 215	6.218	(0.940)	209355	254.907	50.98	
\$ 59 Toluene-d8	98	8.295	8.293	(0.852)	729973	258.031	51.61	
\$ 80 Bromofluorobenzene	95	10 905	10.903	(1.120)	273272	252.651	50.53	
2 Chloromethane	50	1 543	1.540	(0.233)	259294	254.497	50.90	
3 Vinyl Chloride	62	1 622	1.619	(0.245)	217526	254.985	51.00	
4 Bromomethane	94	1.896	1.893	(0.287)	63161	271.237	54.25	
5 Chloroethane	64	1.987	1.984	(0.301)	70551	255.557	51.11	
6 Trichlorofluoromethane	101	2 218	2.216	(0.336)	346251	296.613	59.32	
1 Dichlorodifluoromethane	85	1 366	1.364	(0.207)	264671	270.286	54.06	
12 1,1-Dichloroethene	96	2 784	2.787	(0.421)	170846	258.718	51.74	
13 Acetone	43	2.918	2.915	(0.441)	56368	155.662	31.13	
15 Carbon Disulfide	76	3.015	3.012	(0.456)	538423	243.634	48.73	

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng) FINAL (UG/L)
18 Methylene Chloride	84	3 410	3.408	(0.516)	169954	254.970	50.99
19 trans-1,2-Dichloroethene	96	3.794	3.797	(0.574)	172652	262.693	52.54
20 Methyl tert-butyl ether	73	3.867	3.864	(0.585)	399065	253.775	50.76
24 1,1-Dichloroethane	63	4.426	4.430	(0.670)	300988	259.719	51.94
27 2,2-Dichloropropane	77	Compound Not Detected.					
28 cis-1,2-dichloroethene	96	5.229	5.233	(0.791)	169065	254.591	50.92
M 29 1,2-Dichloroethene (total)	96				341717	517.243	103.4
30 Bromochloromethane	128	Compound Not Detected.					
31 2-Butanone	43	5.308	5.306	(0.803)	66449	218.578	43.72
37 Chloroform	83	5.661	5.659	(0.856)	275211	252.197	50.44
38 1,1,1-Trichloroethane	97	5.844	5.841	(0.884)	250083	256.335	51.27
40 1,1-Dichloropropene	75	Compound Not Detected.					
41 Carbon Tetrachloride	117	6.038	6.042	(0.914)	222549	255.945	51.19
42 Benzene	78	6.276	6.279	(0.949)	671959	259.210	51.84
45 1,2-Dichloroethane	62	6.306	6.304	(0.954)	236281	256.499	51.30
47 Trichloroethene	130	7.018	7.015	(1.062)	177018	260.994	52.20
49 1,2-Dichloropropane	63	7.243	7.241	(1.096)	167938	263.485	52.70
50 Dibromomethane	93	Compound Not Detected.					
53 Bromodichloromethane	83	7.559	7.557	(1.144)	198987	263.758	52.75
57 cis-1,3-Dichloropropene	75	8.022	8.019	(1.213)	217187	241.158	48.23
58 4-Methyl-2-Pentanone	43	8.216	8.214	(0.844)	135143	248.953	49.79
60 Toluene	91	8.362	8.360	(0.859)	757909	254.825	50.96
61 trans-1,3-Dichloropropene	75	8.594	8.591	(0.883)	227266	264.431	52.89
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 1,1,2-Trichloroethane	97	8.776	8.774	(0.901)	138894	245.508	49.10
65 Tetrachloroethene	164	8.910	8.913	(0.915)	154290	255.489	51.10
66 2-Hexanone	43	9.050	9.047	(0.929)	88094	231.343	46.27
67 Dibromochloromethane	129	9.165	9.163	(0.941)	154776	255.120	51.02
68 1,2-Dibromoethane	107	9.257	9.260	(0.951)	139048	248.865	49.77
70 Chlorobenzene	112	9.762	9.765	(1.002)	495006	246.754	49.35
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 Ethylbenzene	106	9.883	9.881	(1.015)	253530	245.481	49.10
73 m + p-Xylene	106	9.999	10.002	(1.027)	658907	501.360	100.3
74 Xylene-o	106	10.388	10.392	(1.067)	312754	256.277	51.26
M 75 Xylenes (total)	106				971661	796.198	159.2
76 Styrene	104	10.406	10.404	(1.069)	506347	244.052	48.81
77 Bromoform	173	10.577	10.574	(1.086)	90275	245.218	49.04
78 Isopropylbenzene	105	10.759	10.757	(1.105)	834097	265.862	53.17
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	11.051	11.049	(0.917)	156516	246.785	49.36
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.					

680 193

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ng)	(UG/L)	
89 sec-Butylbenzene	105				Compound Not Detected			
90 4-Isopropyltoluene	119				Compound Not Detected			
91 1,3-Dichlorobenzene	146	11.982	11.986	(0.994)	388292	254.003	50.80	
93 1,4-Dichlorobenzene	146	12.073	12.071	(1.002)	409377	254.957	50.99	
94 n-Butylbenzene	91				Compound Not Detected			
95 1,2-Dichlorobenzene	146	12.438	12.442	(1.032)	365400	253.206	50.64	
96 1,2-Dibromo-3-chloropropane	157	13.211	13.208	(1.096)	24775	246.971	49.39	
97 1,2,4-Trichlorobenzene	180	14.050	14.048	(1.166)	180381	253.955	50.79	
98 Hexachlorobutadiene	225				Compound Not Detected			
99 Naphthalene	128				Compound Not Detected.			
100 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

680 194

GC/MS VOLATILE
MISCELLANEOUS

STL - Pittsburgh

GCMS Volatile Run Log

Logbook ID: MV49

Method	Inst ID	Analyst	Reviewed by:	Date		
82605 LLW / 82605	HP-6	KLD RPJ				
Standard	Standard:	Standard:	Standard:			
85-006-S BFB	85-003-4 SW	85-002-7 Ketone	85-006-8 MS			
Standard	Standard:	Standard:	Standard:			
85-003-3 DNT	85-007-1 VOA	85-008-2 GAS				
Date	File ID	Lot No./Sample No.	Vol/Wt.	pH	Port #	Comments
3/26/01	1 BF60326	BFB	1ul			708 1085195
	2. CC60326	VNDIO	5ul			
	3. 6032601	VBLK	5ul			
	4. 6032602	BLKNJ	5ul			
	5. 6032603	BLKMSD	5ul			Spide wing
	6. 6032604	CIC220228-001	5ul	1		
	7. 6032605	CIC220228-002	5ul	1		
	8. 6032606	BLKMSD	5ul			
	9. BF60326N	BFB	1ul			82605 5ul 1056
	10. CC60326N	VSTO SX	5ul			
	11. 60326N01	VBLK	5ul			1085303
	12. 60326N02	CIC220162-001	5ul	1		
	13. 60326N03	BLKMS	5ul			MS 11 85-006-10
	14. 60326N04	CIC220162-001 MS	5ul	1		MS
	15. 60326N05	CIC220162-001 MSD	5ul	1		
	16. 60326N06	CIC220162-002	5ul	1		
	17. 60326N07	CIC220162-003	5ul	1		
	18. 60326N08	CIC220162-004	5ul	1		
	19. 60326N09	↓ -005	5ul	1		
	20. 60326N10	CIC220173-001	(mixture) 5ul	1		No data
	21. 60326N11	↓ -001	(mixture) 5ul	1		
	22. 60326N12	CIC220162-006	5ul	1		

Method	Inst. ID.	Analyst	Reviewed by:	Date:
826013	HP6	JV		
Standard:	Standard:	Standard:	Standard:	Standard:
Standard:	Standard:	Standard:	Standard:	Standard:

STD'S SAME AS PREVIOUS PAGE

Date	File ID	Lot No./Sample No.	Vol./WL	pH	Port #	Comments
3/16/01	1. 60326 N13	CIC220173-002	(1ml/100ml) 5ml	1		DU date.
	2. 60326 N14	-002	(1ml/50ml) 5ml	1		
	3. 60326 N15	CIC190143-001	(20ml/40ml) 5ml	1		
	4. 60326 N16	CIC190143-002 3 DI	(20ml/40ml) 5ml	1		discal (2) run at x4
	5. 60326 N17	-002 3 DI	(20ml/40ml) 5ml	1		void (good)
	6. 60326 N19	VBLK	5ml	NA		OK
	7. 60326 N20	CIC190143-003	(10ml/40ml) 5ml	1		
	8. 60326 N21	CIC190143-004	(20ml/40ml) 5ml	1		
	9. 60326 N22	-010	(20ml/40ml) 5ml	1		
	10. 60326 N23	-004	(1ml/20ml) 5ml	1		
	11.					
	12.					
	13.					
	14.					
	15.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

REQUESTED BY: GORDONK

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

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SEX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
14C,CLP1	DXRH2-1-AA	___	322401	399411	I-15-QK C1C220173	001			WATER	0	13
14C,CLP1	DXRKF-1-AM	___	322402	399411	I-15-QK C1C220173	002			WATER	0	13

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Cop 1	Keith Drell	3/26/01 1030
Keith Drell	Patrick J. Jm.	3/26/01 15:2
Patrick J. Jm.	myo	3/26/01 264

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

GC/MS SEMIVOLATILE DATA

680 200

**GC/MS SEMIVOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1080/IDW/004	0.0*	32	59	12	0.0*	0.0*	03
02	DF/24-B/1080/IDW/005	0.0*	23 *	49	0.0*	20	0.0*	04
03	METHOD BLK. DXV861AA	67	74	71	84	65	58	00
04	LCS DXV861AC	62	69	67	76	62	55	00
05	LCSD DXV861AD	66	74	72	79	66	57	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

680 202

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV861AC

BATCH: 1082320

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	47.1	63	10 - 131	
2-Chlorophenol	75.0	51.0	68	19 - 124	
1,4-Dichlorobenzene	50.0	33.4	67	28 - 110	
N-Nitrosodi-n-propylamine	50.0	32.0	64	30 - 115	
1,2,4-Trichlorobenzene	50.0	33.0	66	31 - 110	
4-Chloro-3-methylphenol	75.0	46.1	61	29 - 124	
Acenaphthene	50.0	33.1	66	39 - 118	
4-Nitrophenol	75.0	38.0	51	19 - 144	
2,4-Dinitrotoluene	50.0	29.0	58	47 - 131	
Pentachlorophenol	75.0	36.1	48	10 - 140	
Pyrene	50.0	36.7	73	46 - 130	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV861AD

BATCH: 1082320

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	51.7	69	10 - 131	
2-Chlorophenol	75.0	54.8	73	19 - 124	
1,4-Dichlorobenzene	50.0	35.5	71	28 - 110	
N-Nitrosodi-n-propylamine	50.0	35.0	70	30 - 115	
1,2,4-Trichlorobenzene	50.0	35.8	72	31 - 110	
4-Chloro-3-methylphenol	75.0	52.4	70	29 - 124	
Acenaphthene	50.0	37.0	74	39 - 118	
4-Nitrophenol	75.0	46.2	62	19 - 144	
2,4-Dinitrotoluene	50.0	34.2	68	47 - 131	
Pentachlorophenol	75.0	40.6	54	10 - 140	
Pyrene	50.0	38.4	77	46 - 130	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

680 204

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXV861AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: F0326060.

Lot Number: C1C220173

Date Analyzed: 03/27/01

Time Analyzed: 01:33

Matrix: WATER

Date Extracted: 03/23/01

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/1080/IDW/004	DXRH21AC	F0326063.	03/27/01	05:51
02	DF/24-B/1080/IDW/005	DXRKFLAN	F0326064.	03/27/01	06:23
03	CHECK SAMPLE	DXV861AC C	F0326061.	03/27/01	02:06
04	DUPLICATE CHECK	DXV861AD L	F0326062.	03/27/01	02:38
05					
06					
07					
08					
09					
10					
11					
12					
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14					
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16					
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23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

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

680 205

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					

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: 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					
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12					
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20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

680 207

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C6220173

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 BL	DXV861AA	F0326060	03/27/01	0133
03	INTRA-LAB CH	DXV861AC	F0326061	03/27/01	0206
04	INTRA-LAB CH	DXV861AD	F0326062	03/27/01	0238
05	DF/24-B/1080	DXRH21AC	F0326063	03/27/01	0551
06	DF/24-B/1080	DXRKF1AN	F0326064	03/27/01	0623
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1022073

Lab File ID (Standard): F03260CN

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 2147

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	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 BL	185055	5.02	731383	6.54	404920	9.54
02 INTRA-LAB CH	197505	5.01	807913	6.52	447723	9.53
03 INTRA-LAB CH	169548	5.00	678993	6.52	381931	9.52
04 DF/24-B/1080	204274	5.01	793655	6.52	366246	9.53
05 DF/24-B/1080	178162	5.02	673130	6.54	127083*	9.55
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

680 209

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1022073

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 BL	702076	12.83	652680	19.45	583051	22.81
02 INTRA-LAB CH	754094	12.81	683605	19.43	603294	22.78
03 INTRA-LAB CH	684638	12.81	693774	19.43	636422	22.78
04 DF/24-B/1080	835256	12.82	1304574	19.45	9282*	22.79
05 DF/24-B/1080	675870	12.84	994624	19.47		
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.

683 210

GC/MS SEMIVOLATILE
SAMPLE DATA

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/004

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

UXB INTERNATIONAL

680 212

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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: C1C220173 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

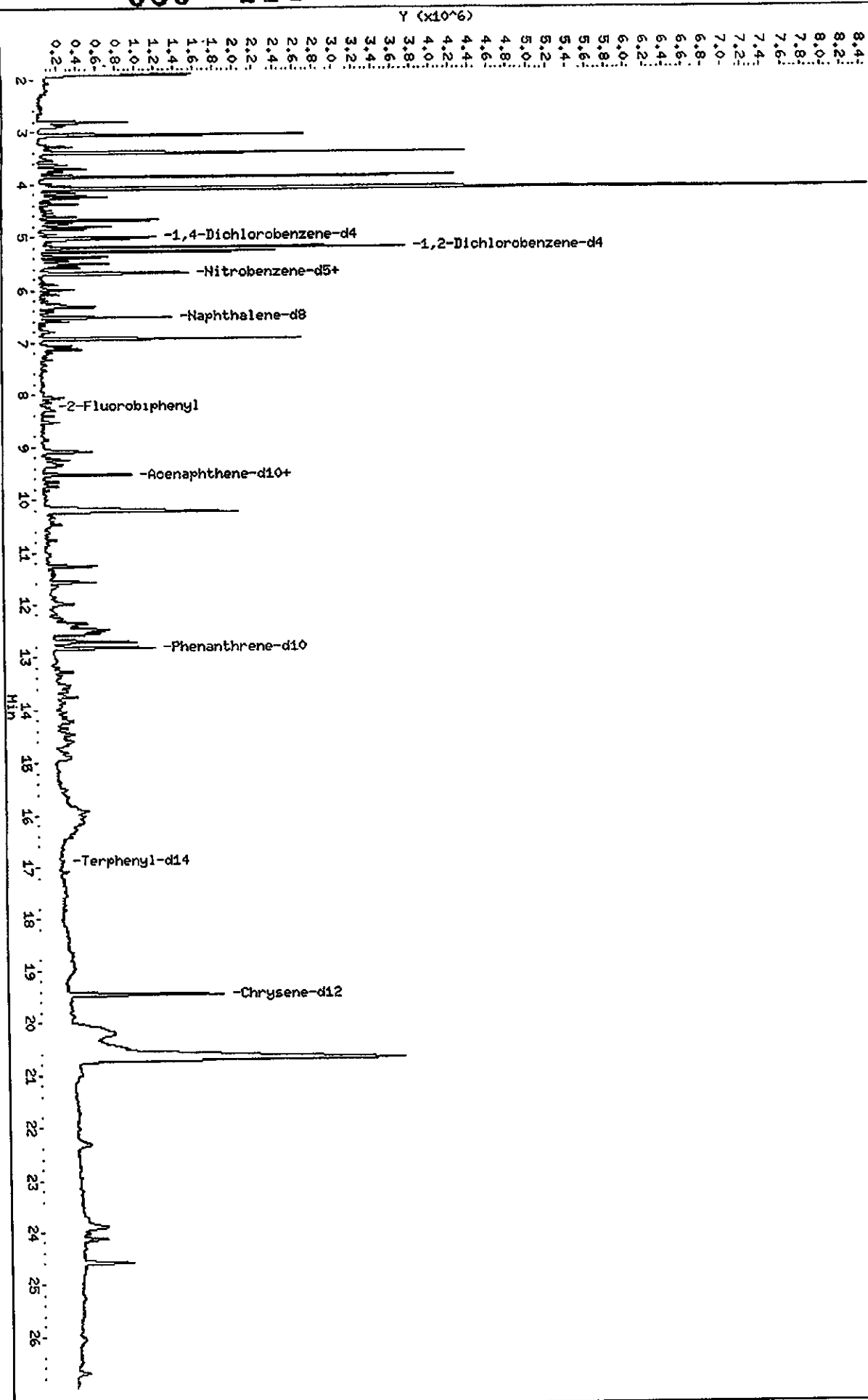
Client Sample Id: DF/24-B/1080/IDW/004

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

Data File: \\QIPITPA02\N\chem\722.1\032601n.b\F0326063.D
Date: 27-MAR-2001 05:51
Client ID: DF/24-B/1080/IDM/00
Sample Info: C1C220173-001 x10 3/23/01 H2O (4082320)
Volume Injected (ul): 2.0
Column phase: Hp5-MS

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

\\QIPITPA02\N\chem\722.1\032601n.b\F0326063.D



680 215

STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326063.D
Lab Smp Id: DXRH21AC Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 27-MAR-2001 05:51
Operator : 007062 Inst ID: 722.i
Smp Info : C1C220173-001 x10 3/23/01 H2O (1082320)
Misc Info : dxrh21ac,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: 16
Dil Factor: 10.00000
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	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	5.006	5.008	(1.000)	204274	40.0000	
* 2 Naphthalene-d8	136	6.523	6.525	(1.000)	793655	40.0000	
* 3 Acenaphthene-d10	164	9.531	9.528	(1.000)	366246	40.0000	
* 4 Phenanthrene-d10	188	12.821	12.818	(1.000)	835256	40.0000	
* 5 Chrysene-d12	240	19.451	19.437	(1.000)	1304574	40.0000	
* 6 Perylene-d12	264	22.790	22.787	(1.000)	9282	40.0000	(QM)
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.					

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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	5.567	5.564	(1 112)	11564	3.95245	19-8(a) <i>SL</i>
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	6.320	6.301	(0.969)	78026	24.4611	122 <i>SL</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.		

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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	5.657	5.660	(0.867)	44474	5.85775	29.3(a)
\$ 155 2-Fluorobiphenyl	172	8.243	8.245	(0.865)	34108	3.18753	15.9(a)
\$ 156 Terphenyl-d14	244	16.876	16.873	(0.868)	30626	1.20334	6.02(a)
\$ 157 Phenol-d5	99				Compound Not Detected		
\$ 158 2-Fluorophenol	112				Compound Not Detected.		
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected		
\$ 186 2-Chlorophenol-d4	132				Compound Not Detected.		
\$ 187 1,2-Dichlorobenzene-d4	152	5.219	5.211	(1.043)	20528	4.82482	24.1(aQ)

QC Flag Legend

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

Data File Name: F0326063.D

Inj Date and Time: 27-MAR-2001 05:51

Instrument ID: 722 i

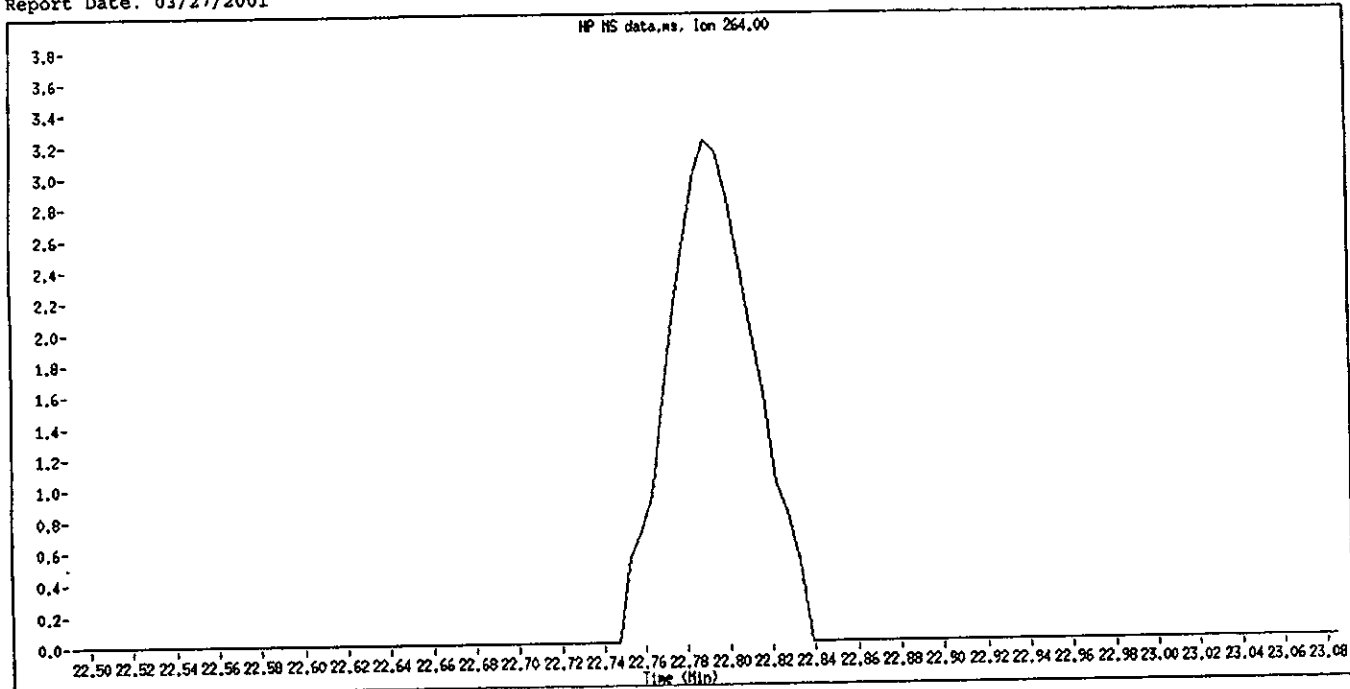
Client ID: DP/24-B/1080/IDW/00

Compound Name: Perylene-d12

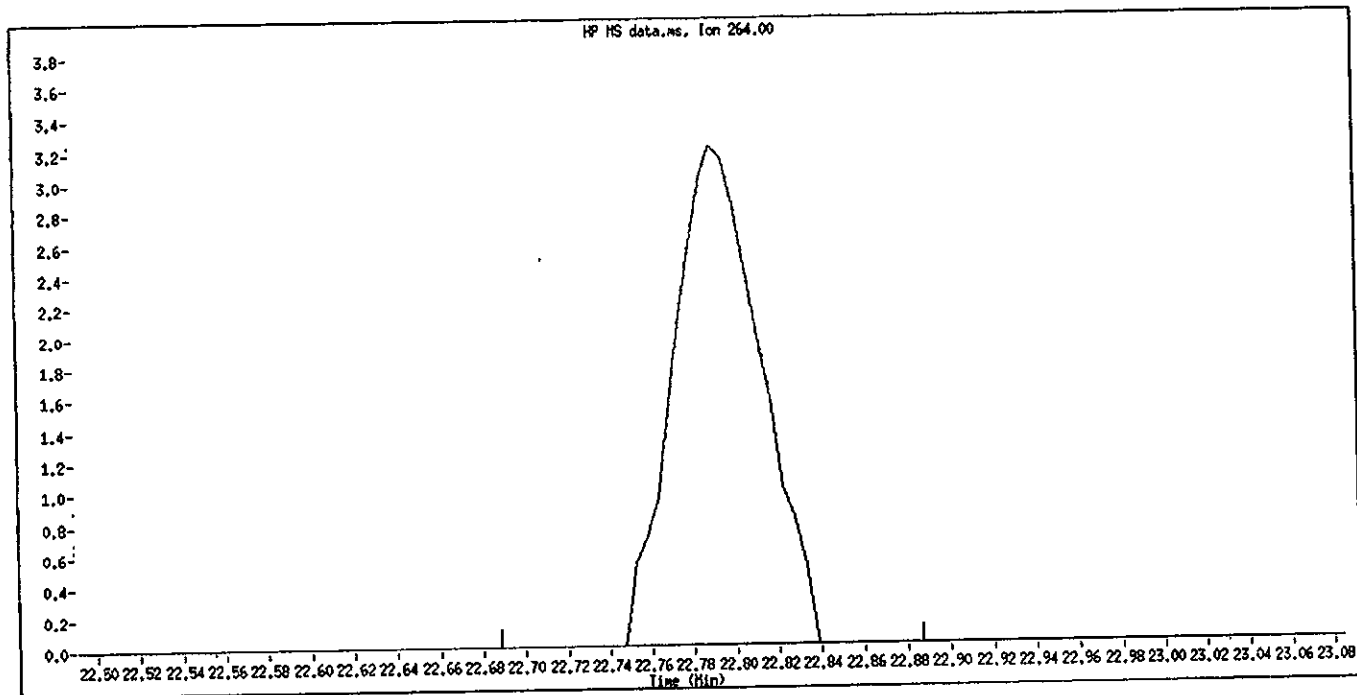
CAS #: 1520-96-3

Report Date: 03/27/2001

680 218



Original Integration



Manual Integration

Manually Integrated By: bungardf

Manual Integration Reason: Peak Not Found

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKFLAN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

680 220

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKFLAN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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	89	J
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, Inc. SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1AN

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

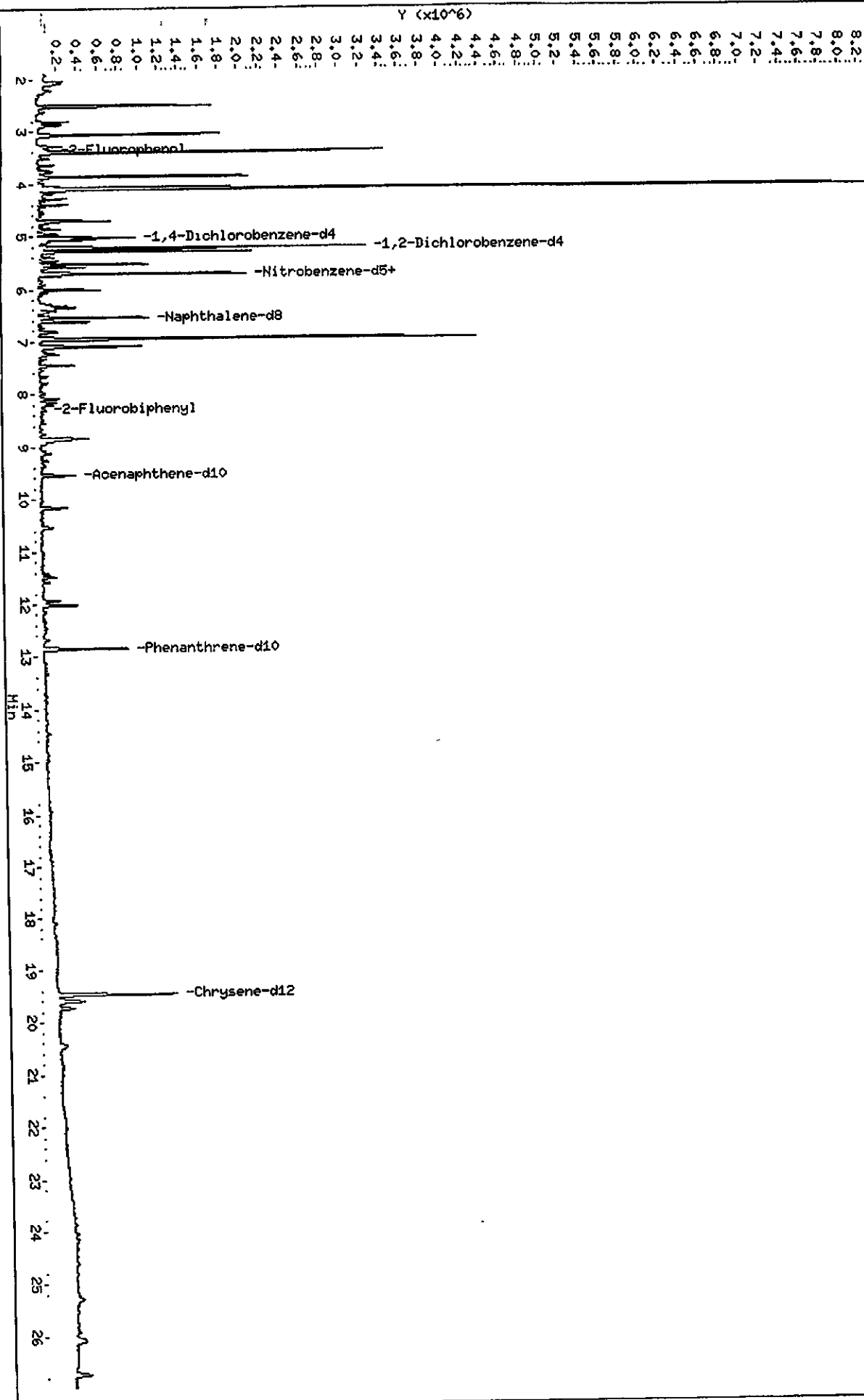
Client Sample Id: DF/24-B/1080/IDW/005

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

Data File: \\QIPITPA02\N\chem\722.1\032601n.b\F0326064.D
Date: 27-MAR-2001 06:23
Client ID: DF/24-B/1090/IDM/00
Sample Info: C1C220173-002 x10 3/23/01 H2O (1082320)
Volume Injected (uL): 2.0
Column phase: HP5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QIPITPA02\N\chem\722.1\032601n.b\F0326064.D



680 223

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326064.D
Lab Smp Id: DXRKFLAN Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 27-MAR-2001 06:23
Operator : 007062 Inst ID: 722.i
Smp Info : C1C220173-002 x10 3/23/01 H2O (1082320)
Misc Info : dxrkflan,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: 17
Dil Factor: 10.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC062

3/27/01

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	FINAL
	MASS					(NG)	(ug/L)
*****	****	==	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5 016	5 008	(1.000)	178162	40 0000	(Q)
* 2 Naphthalene-d8	136	6 539	6 525	(1.000)	673130	40.0000	
* 3 Acenaphthene-d10	164	9.546	9.528	(1.000)	127083	40.0000	
* 4 Phenanthrene-d10	188	12 842	12 818	(1.000)	675870	40.0000	
* 5 Chrysene-d12	240	19 467	19 437	(1.000)	994624	40.0000	
* 6 Perylene-d12	264				Compound Not Detected.		
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.		

680 224

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	5.577	5.564	(1.112)	45332	17.7648	88.8(a)
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	6.336	6.301	(0.969)	90890	33.5959	168 < mly
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.		

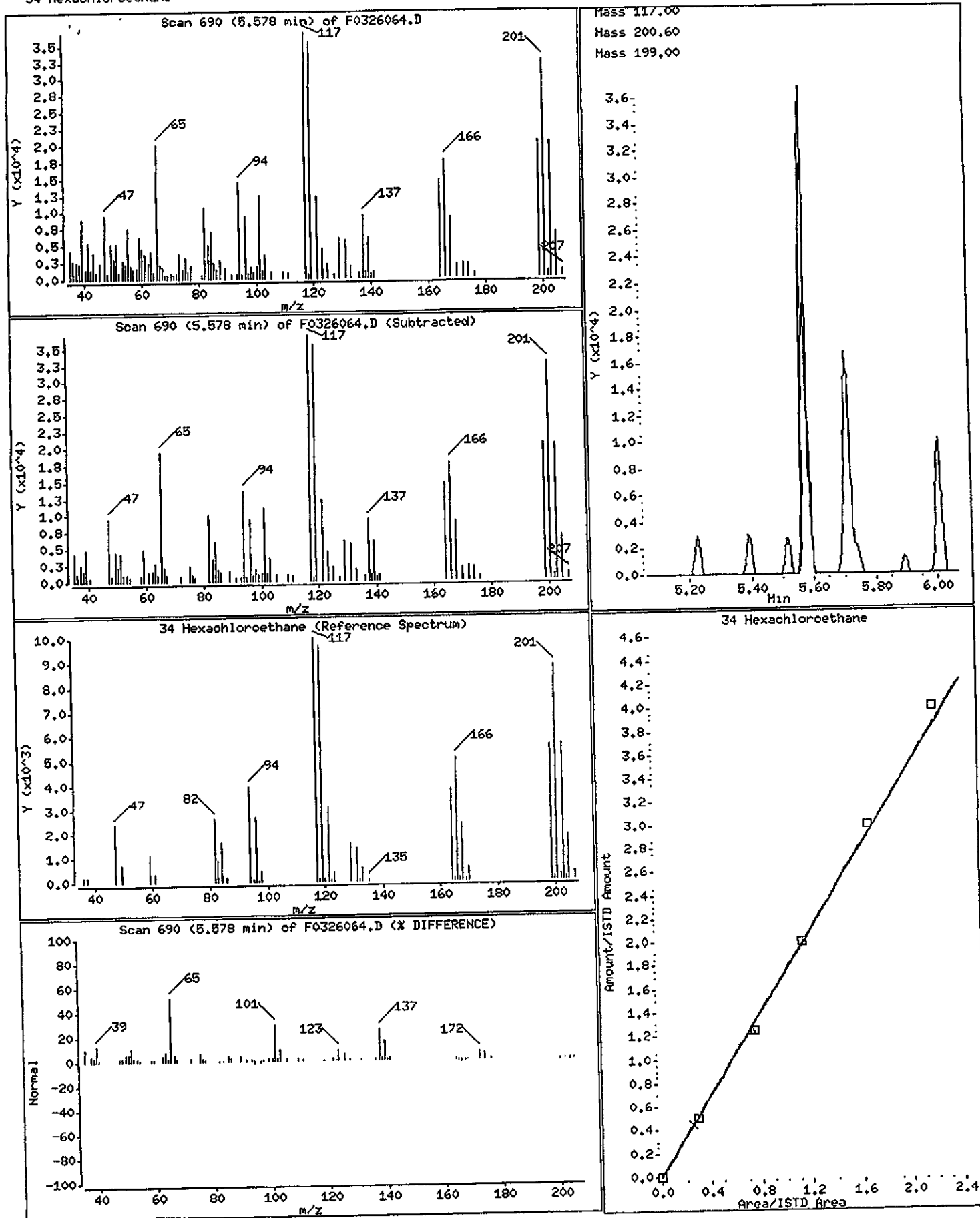
680 225

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	5.673	5.660 (0.868)		31812	4.94025	24.7(aH)
\$ 155 2-Fluorobiphenyl	172	8.264	8.245 (0.866)		8427	2.26964	11.3(aR)
\$ 156 Terphenyl-d14	244				Compound Not Detected.		
\$ 157 Phenol-d5	99				Compound Not Detected.		
\$ 158 2-Fluorophenol	112	3.366	3.694 (0.671)		17278	2.97897	14.9(aQ)
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected.		
\$ 186 2-Chlorophenol-d4	132				Compound Not Detected.		
\$ 187 1,2-Dichlorobenzene-d4	152	5.230	5.211 (1.043)		15192	4.09400	20.5(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.
- H - Operator selected an alternate compound hit.

34 Hexachloroethane



0.00 1.00

GC/MS SEMIVOLATILE
CALIBRATION DATA

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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	$\overline{RRF}$	% 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

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

680 229

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
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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code :

Case No. :

SAS No. :

SDG No. :

Instrument ID: 722

Calibration Date(s) : 02/26/01

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

Max %RSD for CCC(*) = 30.0%

[illegible]

Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D
Report Date: 02/26/2001

INITIAL CALIBRATION REPORT

680 231

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
Benzo(b)fluoranthene	7.1
7,12-dimethylbenz(a)anthracen	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

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

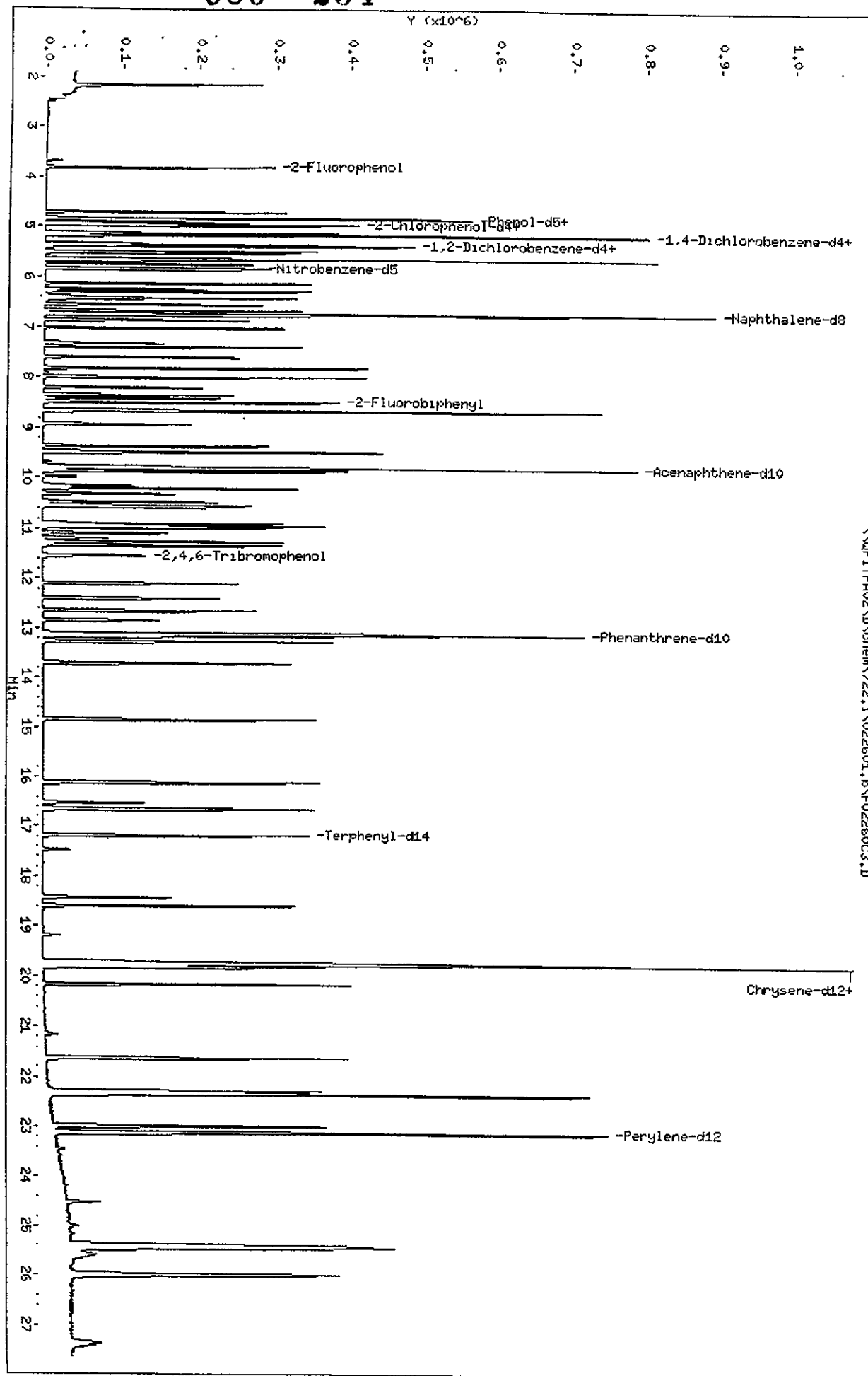
INITIAL CALIBRATION REPORT

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

680 234



Data File: \\QPI1P002\N\chem\722.1\022601.b\F02260C3.D
 Date : 26-FEB-2001 11:47
 Client ID:
 Sample Info: SST0020 (10ppb) 77-11-01
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPI1P002\N\chem\722.1\022601.b\F02260C3.D

680 235

STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C3.D
Lab Smp Id: sstd020 Client Smp ID: SSTD020
Inj Date : 26-FEB-2001 11:47
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD020 (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

10/1
2/21/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	****	==	=====	=====	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.168	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

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 Benzidine	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

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Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL		RESPONSE		
		(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	275	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.

680 238

Data File Name F02260C3.D

Inj Date and Time 26-FEB-2001 11:47

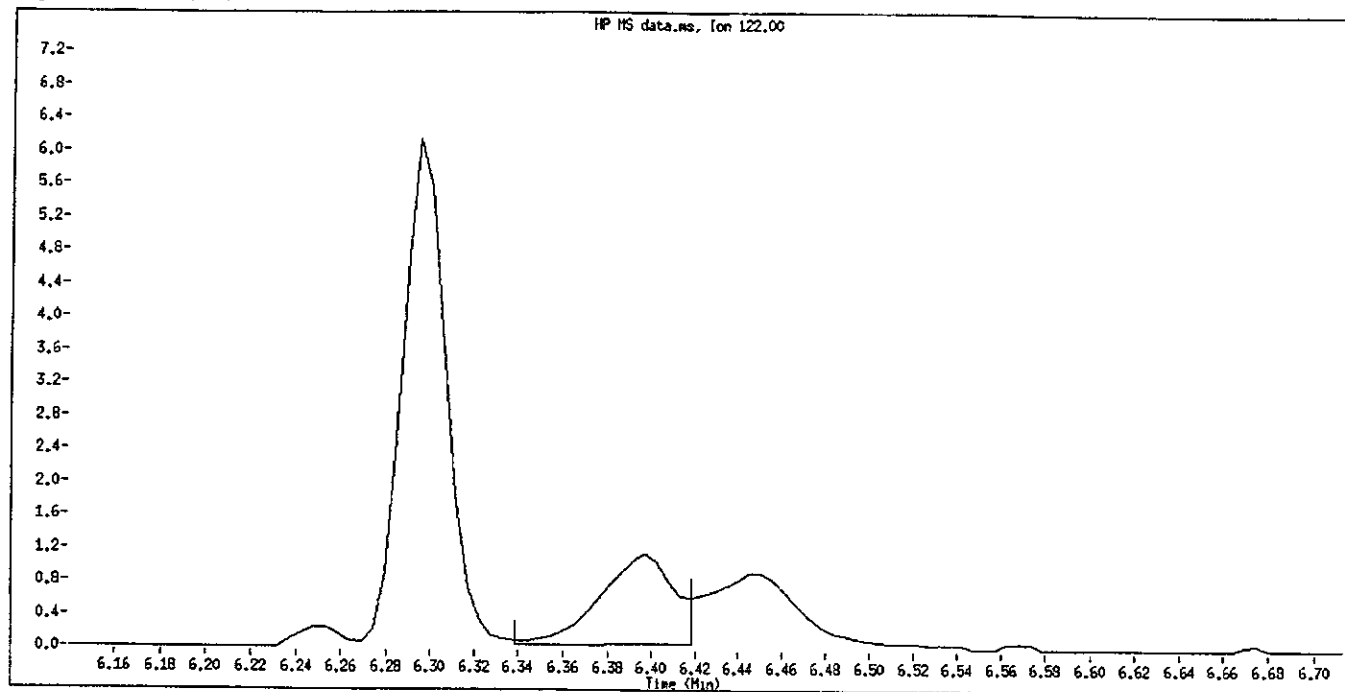
Instrument ID: 7221

Client ID SST0020

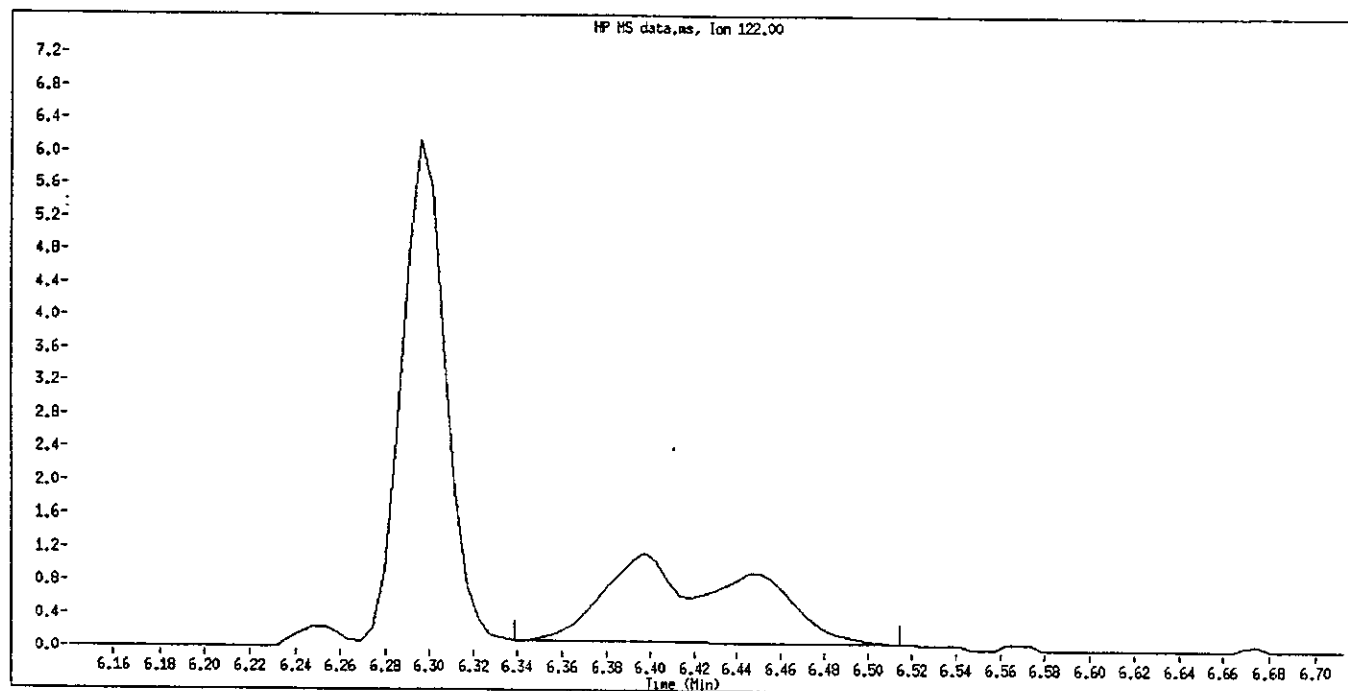
Compound Name Benzoic Acid

CAS #: 65-85-0

Report Date 02/26/2001



Original Integration



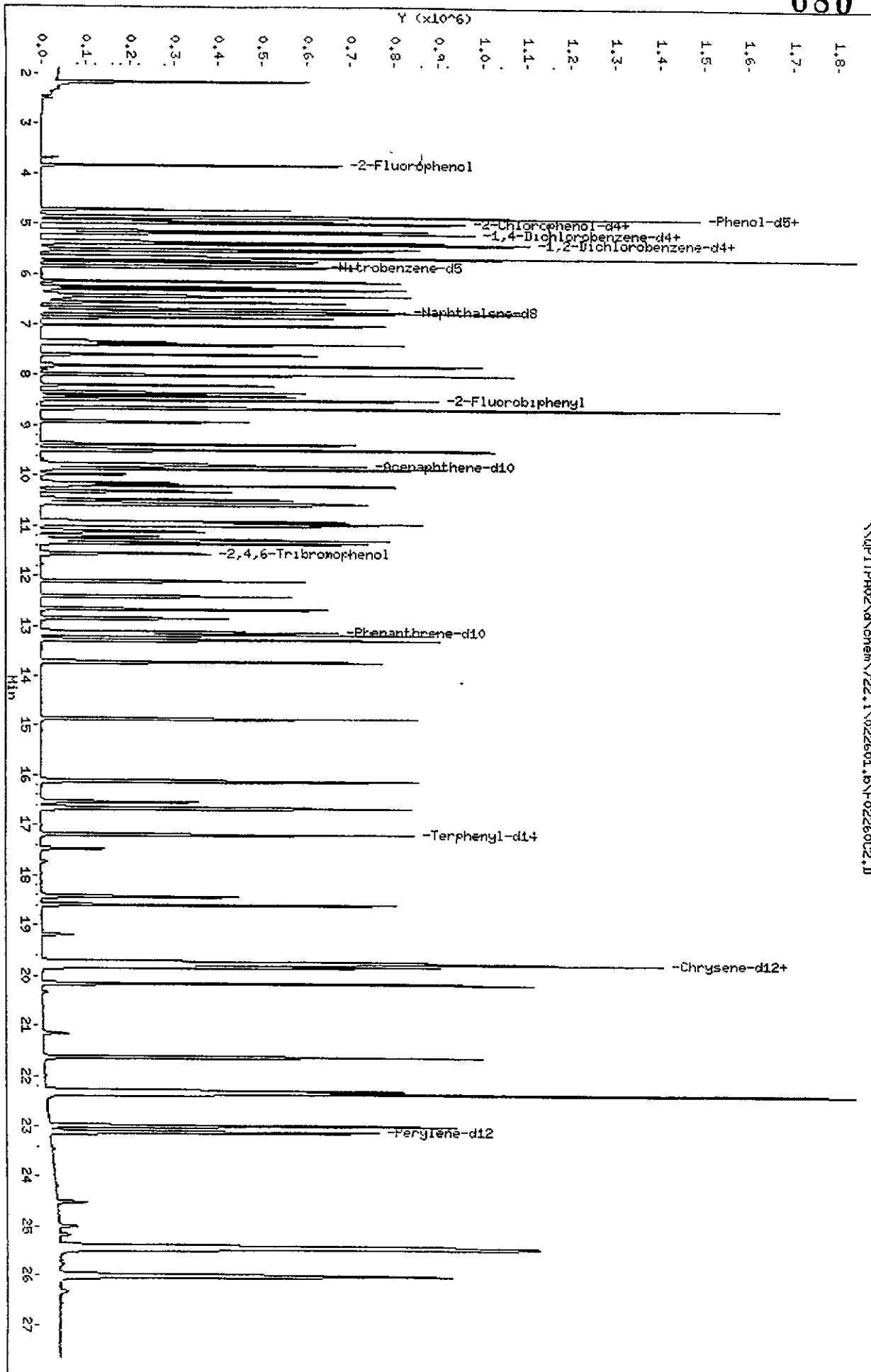
Manual Integration

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-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\F02260C2.D
 Lab Smp Id: sstd050 Client Smp ID: SSTD050
 Inj Date : 26-FEB-2001 11:04
 Operator : 007062 Inst ID: 722.i
 Smp Info : SSTD050 (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 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)	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	

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(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 Benzdine	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	

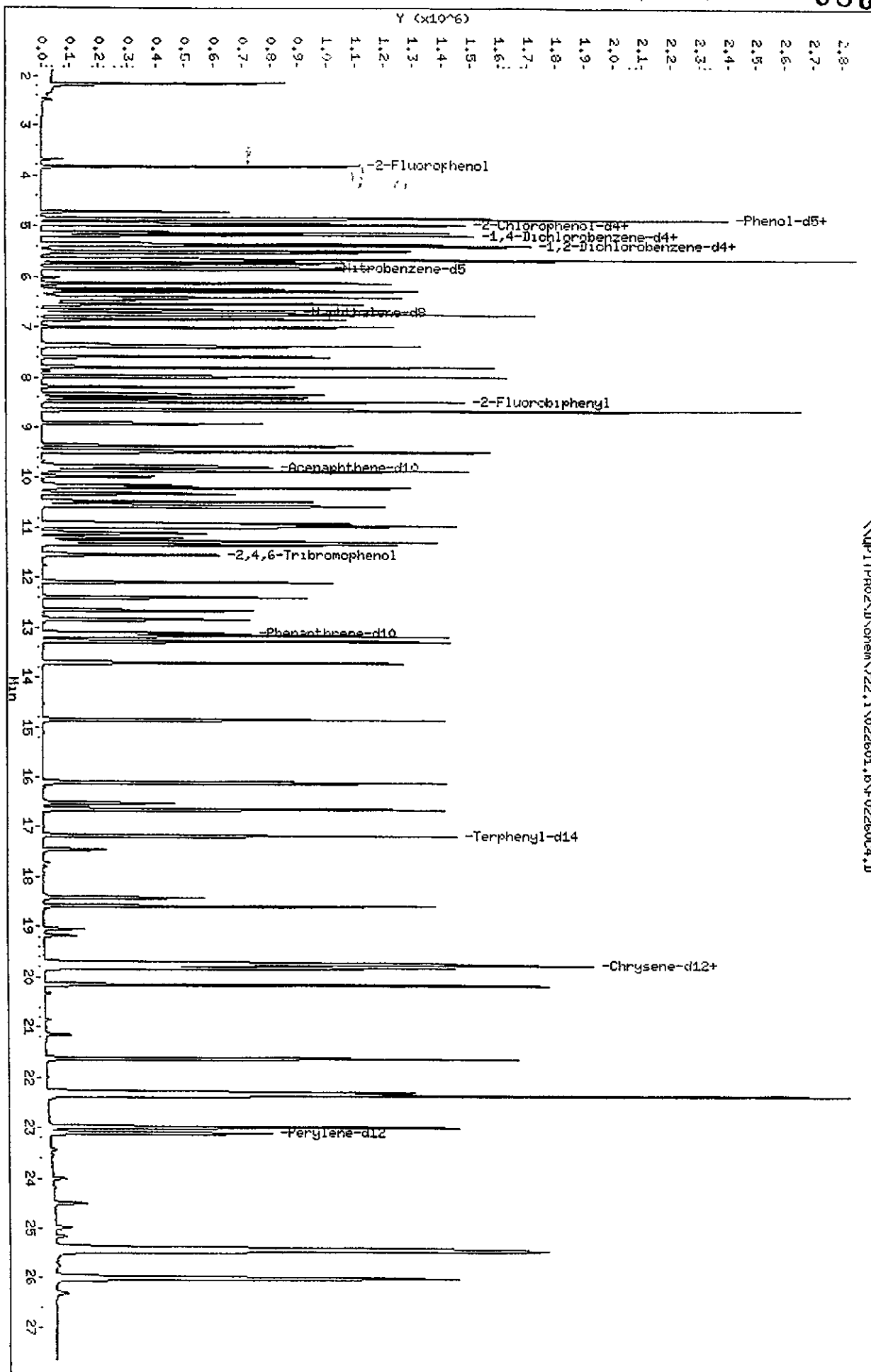
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						{ NG}	{ NG}
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	19.825	19.825	(1.003)	819595	50.0000	
139 bis(2-ethylhexyl)Phthalate	149	20.166	20.166	(1.021)	569845	50.0000	
140 Di-n-octylphthalate	149	21.630	21.630	(0.936)	956912	50.0000	
141 Benzo(b)fluoranthene	252	22.303	22.303	(0.965)	912523	50.0000	
142 Benzo(k)fluoranthene	252	22.362	22.362	(0.967)	1039873	50.0000	
143 7,12-dimethylbenz[a]anthracene	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: \\QPIITPA02\J\chem\722.1\022601.b\F02260C4.D
Date: 26-FEB-2001 12:21
Client ID:
Sample Info: SST080 (40ppb) 77-11-03
Volume Injected (uL): 2.0
Column phase: Hp5-11S

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: SSTD080
 Inj Date : 26-FEB-2001 12:21
 Operator : 007062 Inst ID: 722.i
 Smp Info : SSTD080 (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 signature
 2/26/01

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

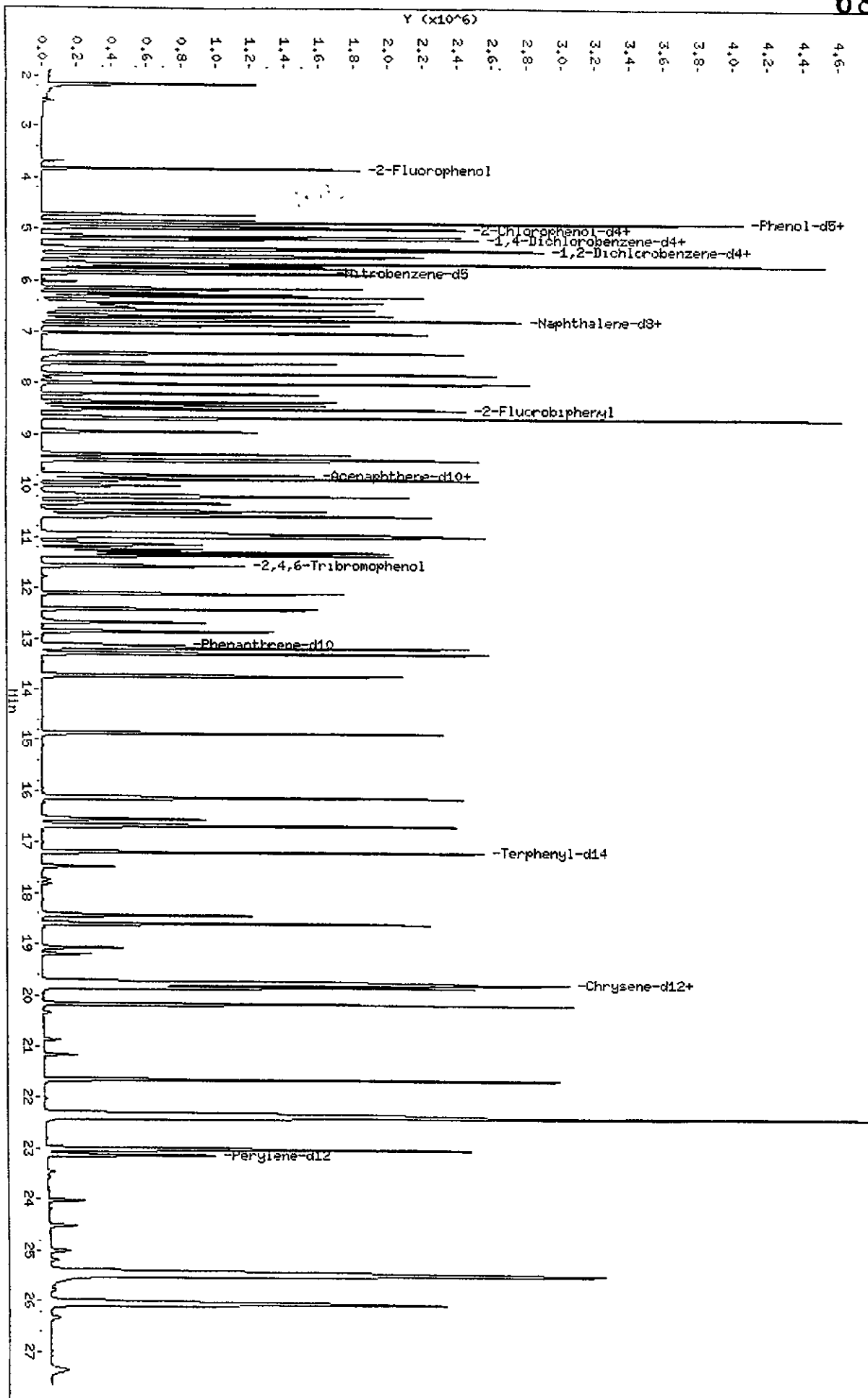
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(NG)	(NG)
=====	====	==	=====	=====	=====	=====	=====	
44 bis (2-Chloroethoxy)methane	93	6.423	6.423	(0.955)	464950	80.0000	77.6	
48 2,4-Dichlorophenol	162	6.551	6.551	(0.974)	309778	80.0000	78.9	
49 Benzoic Acid	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				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		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]anthracene	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

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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

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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

AMOUNTS

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	----	==	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.176	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

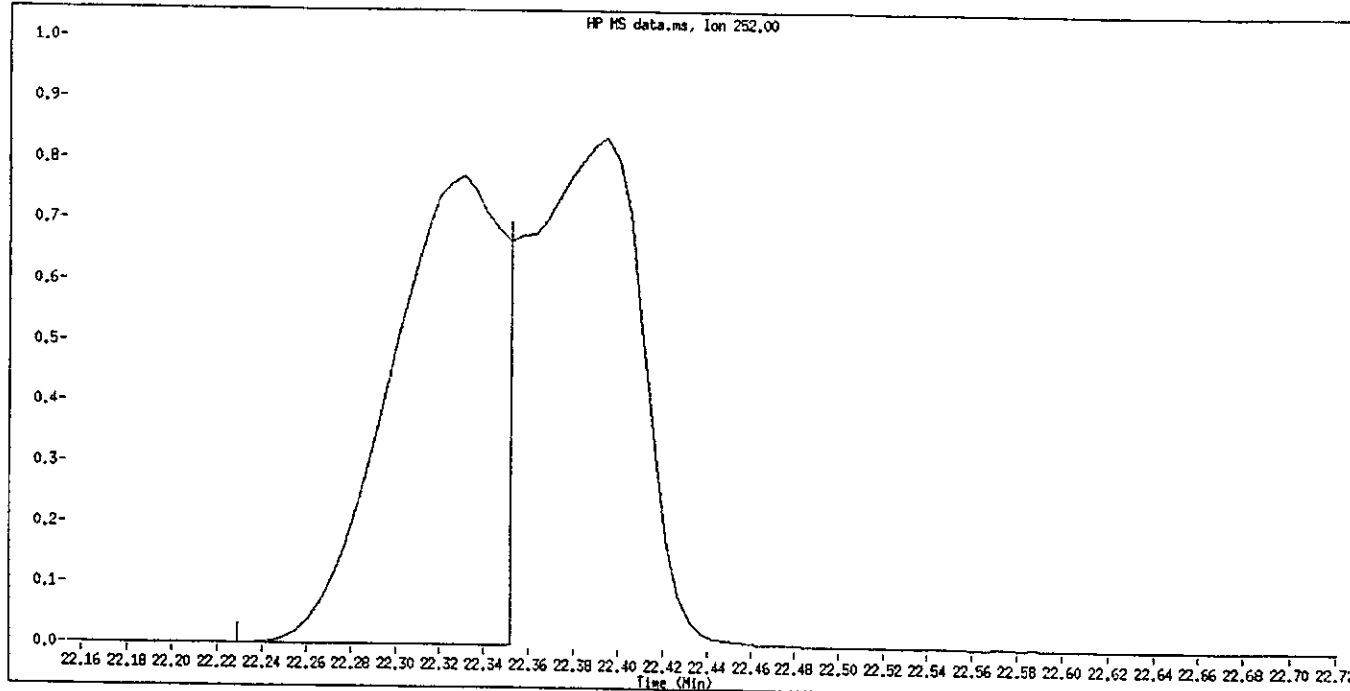
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(NG)
*****	****	==	=====	=====	=====	=====	=====
137 Chrysene	228	19.841	19.841	(1.004)	2331928	120 000	114
139 bis(2-ethylhexyl)Phthalate	149	20.172	20.172	(1.020)	1680740	120 000	118
140 Di-n-octylphthalate	149	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]anthracene	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

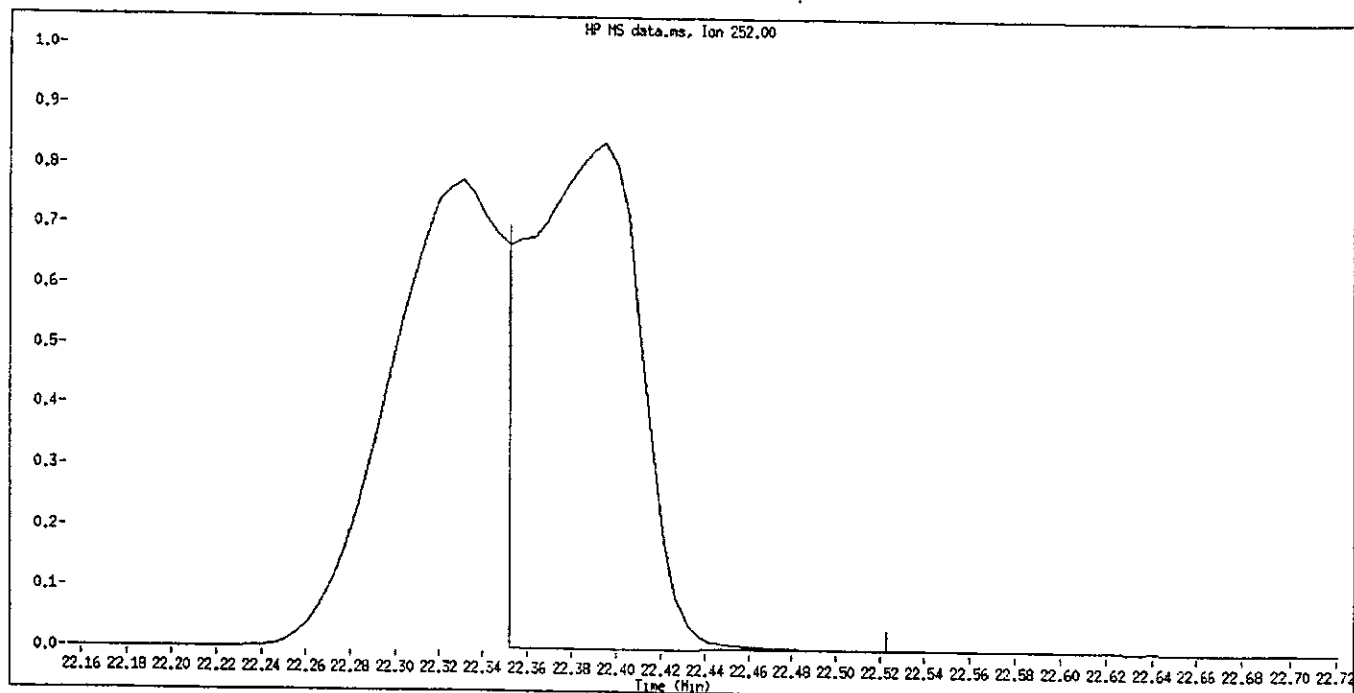
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Inj. Date and Time 26-FEB-2001 12.54
Instrument ID 722.1
Client ID SSTDi20
Compound Name Benzo(k)fluoranthene
CAS # 207-08-9
Report Date 02/26/2001

680 251

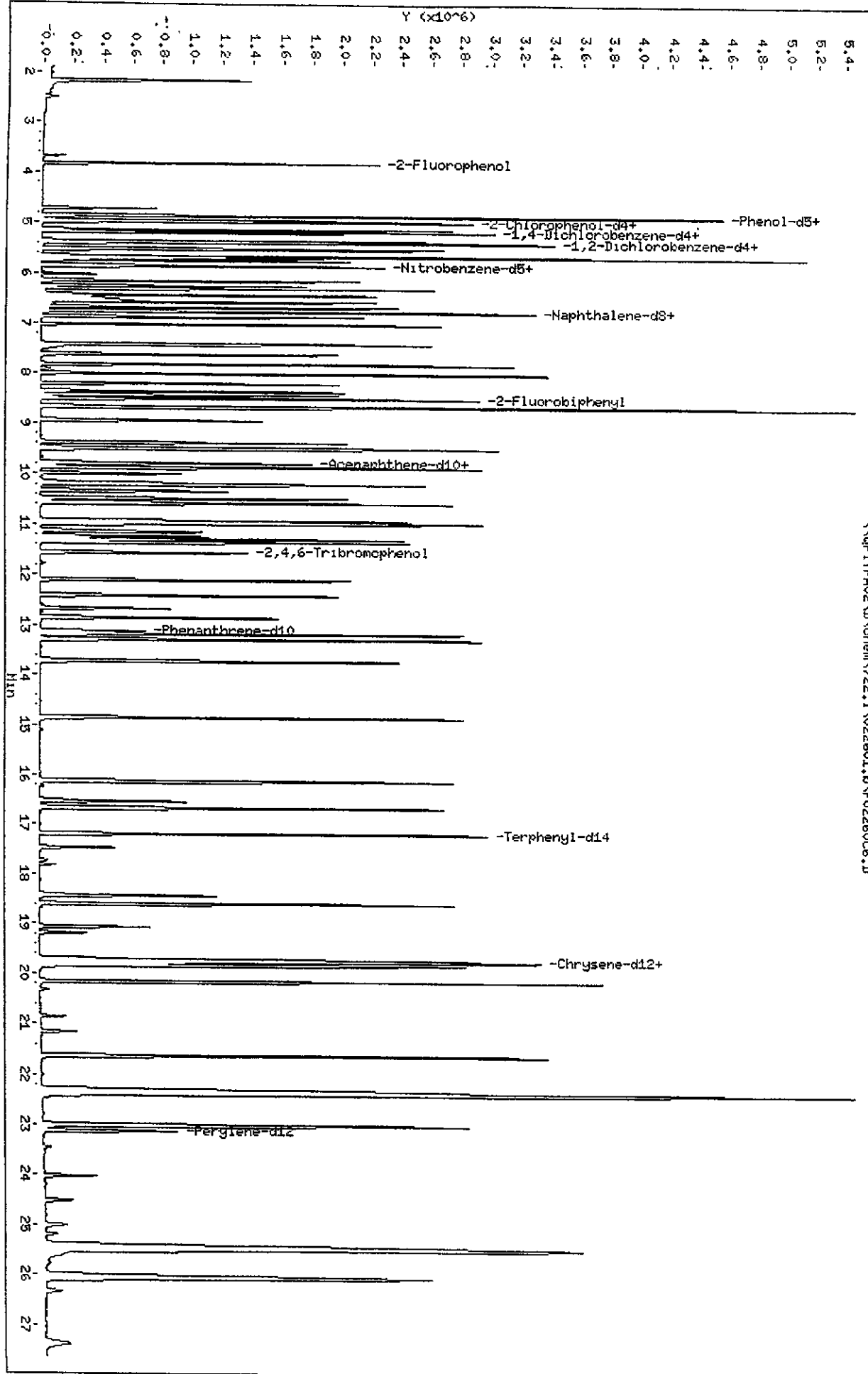


Original Integration



Manual Integration

Manually Integrated By BungardF
Manual Integration Reason Unknown



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 Client ID:
 Sample Info: SST160 (80ppb) 77-11-05
 Volume Injected (uL): 2.0
 Column phase: Hp5-HS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPIITPA02\\chem\\722.1\\022601.b\\F02260C6.D

680 253

STL-Pittsburgh

Semi-volatile REPORT SW-846 Method 8270

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

Handwritten:
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	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	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

680 255

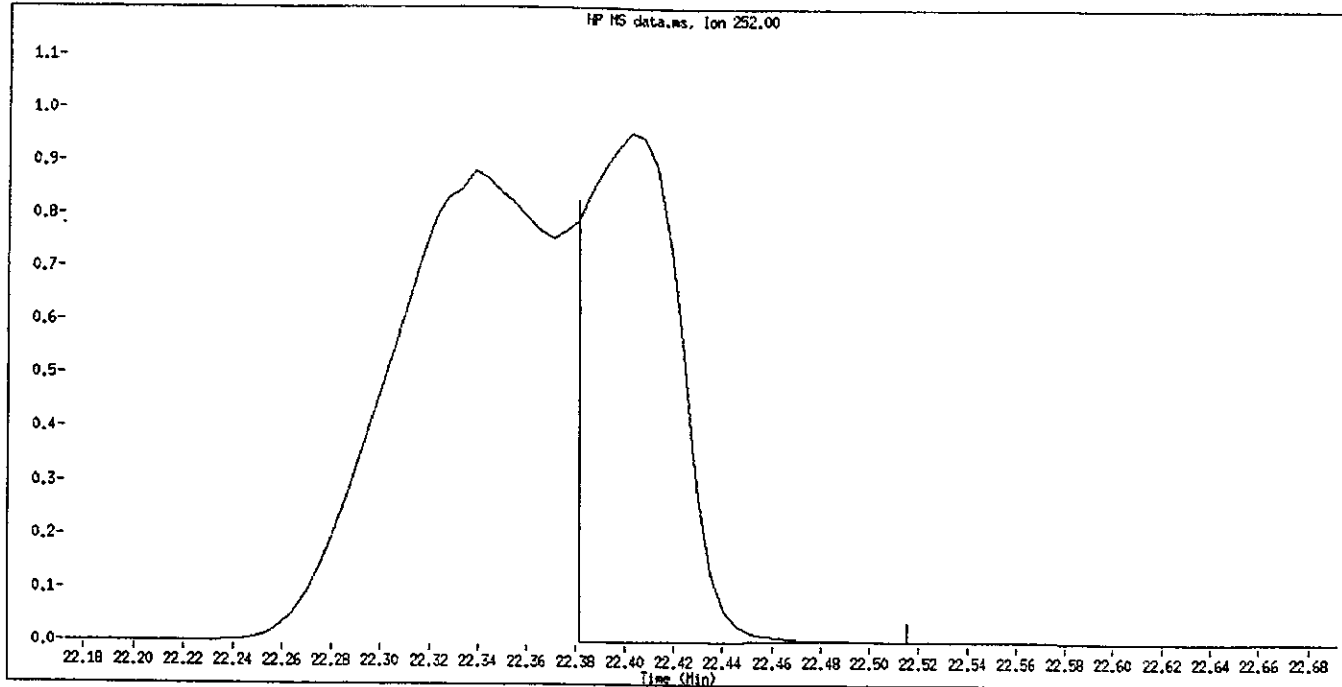
Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
137 Chrysene	228		19.849	19.849	(1.004)	2768687	160.000	153
139 bis(2-ethylhexyl)Phthalate	149		20.175	20.175	(1.020)	1983992	160.000	157
140 Di-n-octylphthalate	149		21.644	21.644	(0.936)	3371189	160.000	153
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 Dibenzo(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

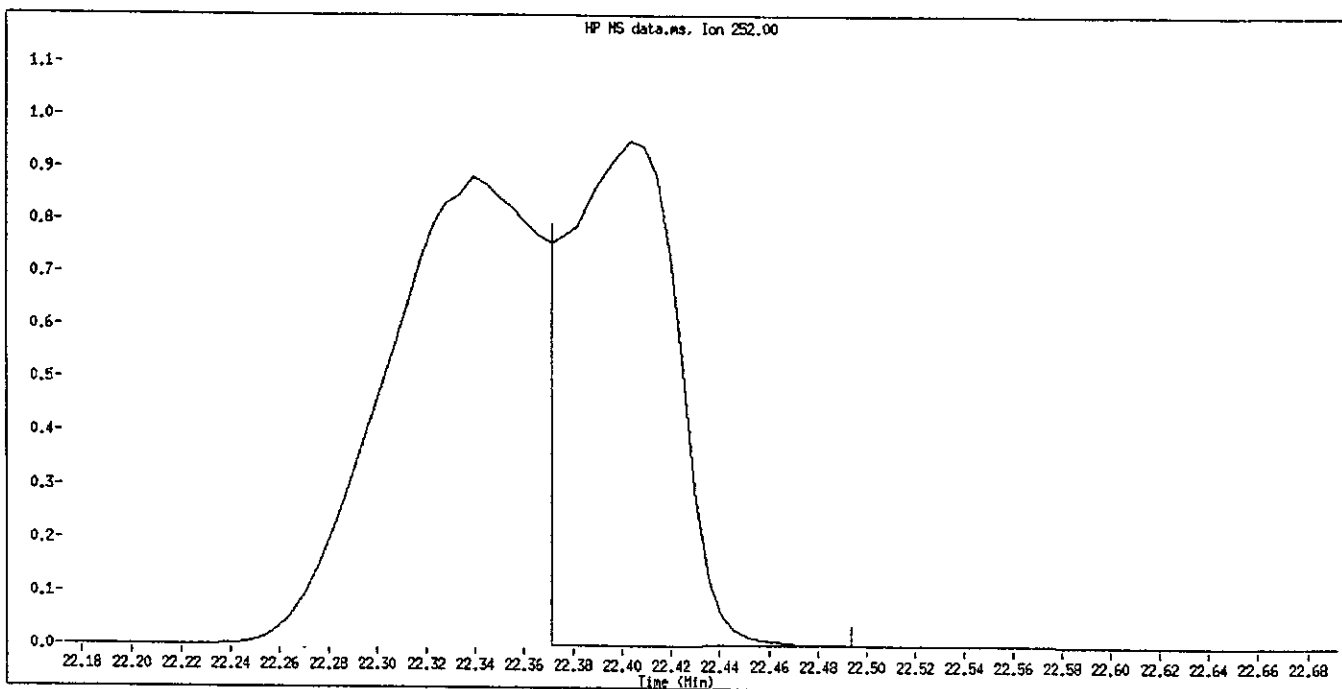
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

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

680 256



Original Integration



Manual Integration

Manually Integrated By: BungardF
Manual Integration Reason: Unknown

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

680 257

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
=====		=====	=====	=====	=====	=====	=====	=====
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

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	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

Contract:

Instrument ID: 722 Calibration Date(s): 03/27/01

Min $\overline{RRF}$ 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

680 260

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)anthracen	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

680 261

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\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

680 262

INITIAL CALIBRATION REPORT

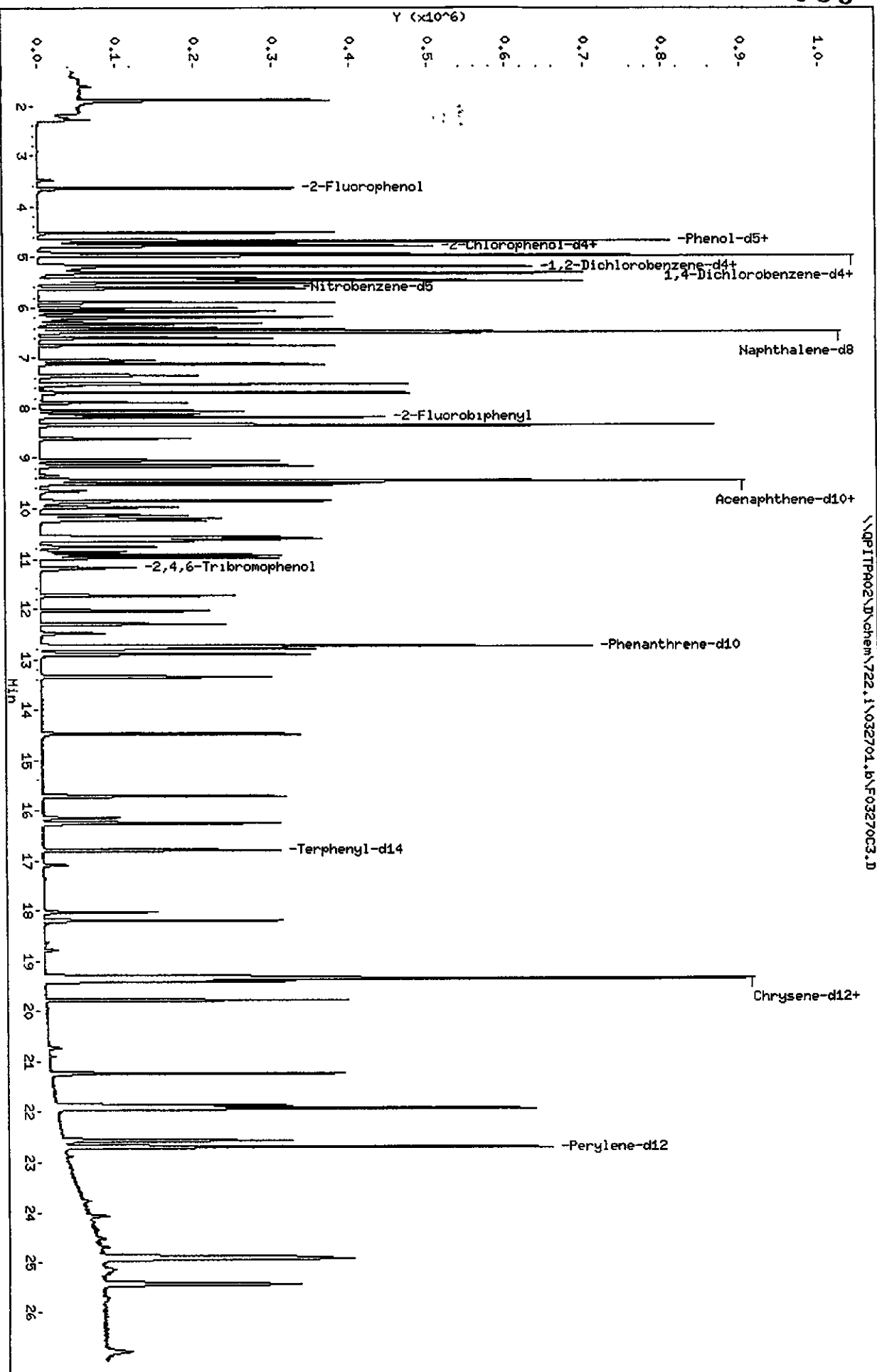
Instrument ID: 722.i
Lab File ID: F03270C6.D
Analysis Type: NONE

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

Data File: \\QPITPA02\Uchem\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: 722.1
Operator: 007062
Column diameter: 0.25



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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

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	----	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	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

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (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.

Data File Name: F03270C3.D

Inj Date and Time 27-MAR-2001 13:13

Instrument ID: 722.1

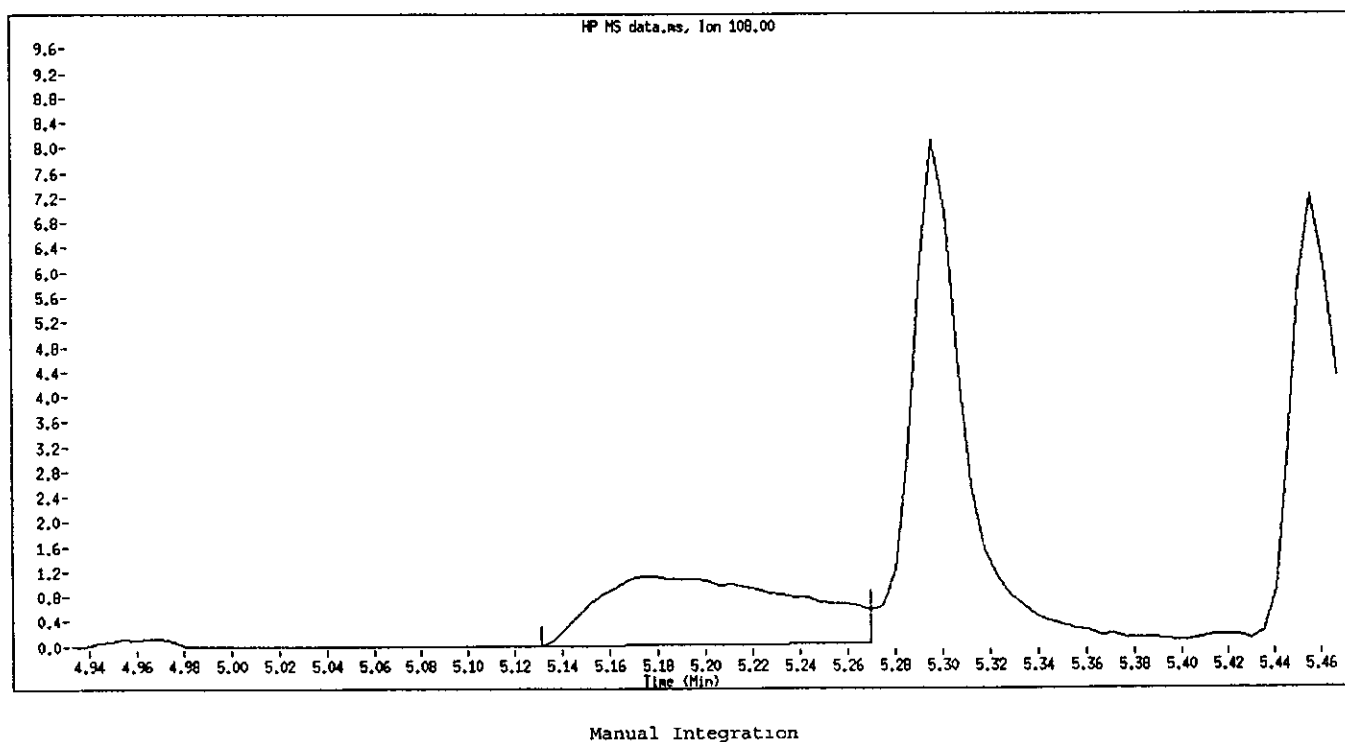
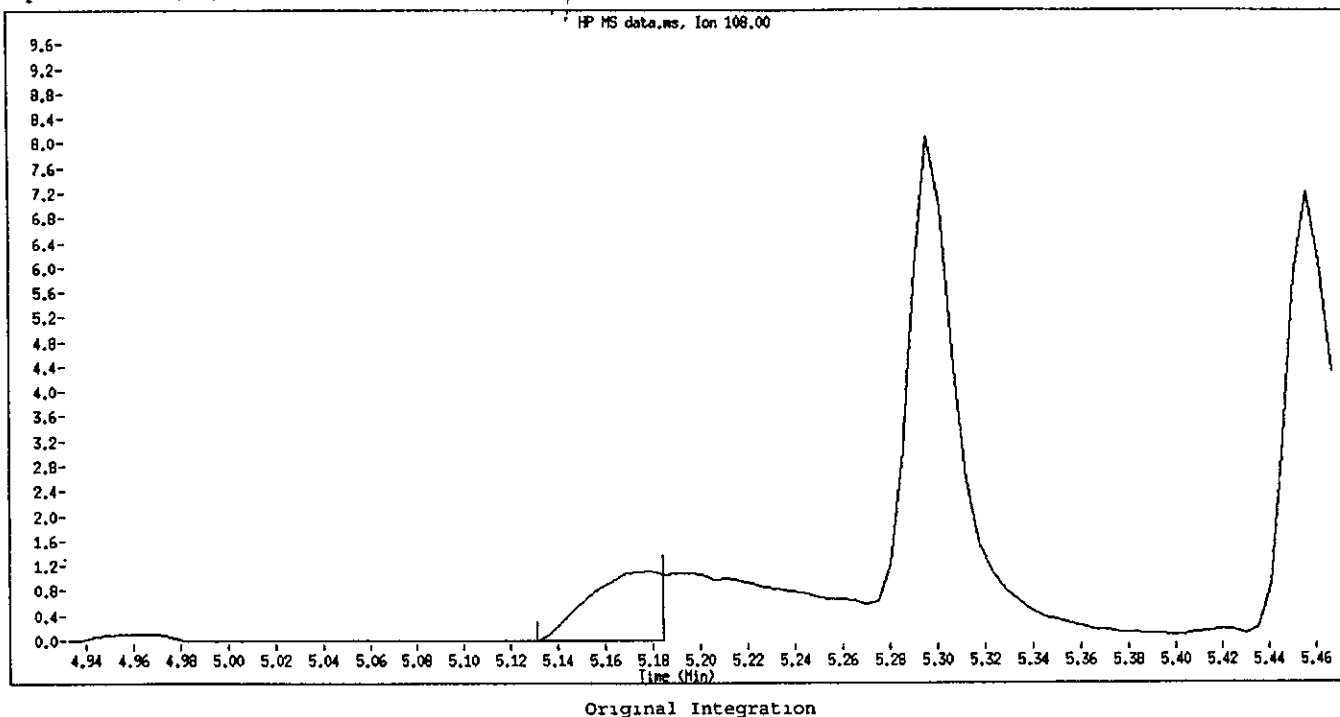
Client ID: SST020

Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 03/27/2001

680 267

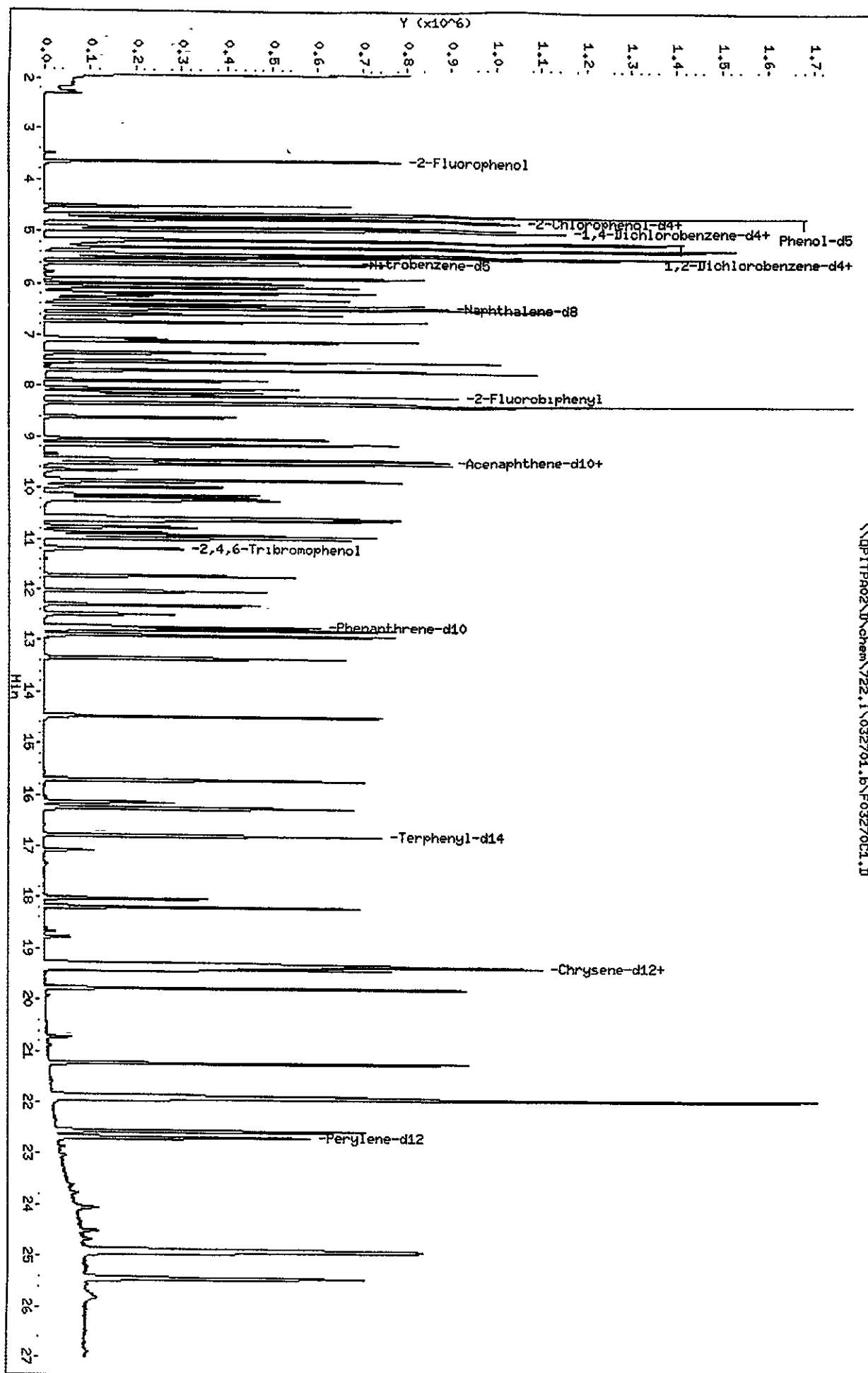


Manually Integrated By bungardf

Manual Integration Reason: Peak Not Found

Data File: \\APITP002\N\chem\722.1\032701.b\F03270C1.D
Date: 27-MAR-2001 12:05
Client ID:
Sample Info: SST050 (25ppb) 77-15-13
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



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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

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						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	{ NG}
=====		=====	==	=====	=====	=====	{ 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
	9 Pyridine	79	1.902	1.902	(0.384)	246280	50.0000
	16 Methyl methanesulfonate	80	3.483	3.483	(0.703)	13461	50.0000
	21 Aniline	93	4.663	4.663	(0.941)	369176	50.0000
	22 Phenol	94	4.680	4.680	(0.944)	337509	50.0000
	23 bis(2-Chloroethyl)ether	93	4.733	4.733	(0.955)	259657	50.0000
	24 2-Chlorophenol	128	4.781	4.781	(0.964)	252590	50.0000
	26 1,3-Dichlorobenzene	146	4.915	4.915	(0.991)	286416	50.0000
	27 1,4-Dichlorobenzene	146	4.973	4.973	(1.003)	294350	50.0000
	28 1,2-Dichlorobenzene	146	5.176	5.176	(1.044)	270708	50.0000
	29 Benzyl Alcohol	108	5.155	5.155	(1.040)	160556	50.0000
	30 2-Methylphenol	108	5.299	5.299	(1.069)	248737	50.0000
	31 2,2'-oxybis(1-Chloropropane)	45	5.310	5.310	(1.071)	439500	50.0000
	32 N-Nitroso-di-n-propylamine	70	5.465	5.465	(1.102)	192452	50.0000
	192 4-Methylphenol	108	5.459	5.459	(1.101)	238475	50.0000
	34 Hexachloroethane	117	5.513	5.513	(1.112)	113482	50.0000
	35 Nitrobenzene	77	5.625	5.625	(0.870)	289385	50.0000
	41 Isophorone	82	5.898	5.898	(0.912)	444825	50.0000
	42 2-Nitrophenol	139	6.004	6.004	(0.929)	132712	50.0000
	43 2,4-Dimethylphenol	107	6.074	6.074	(0.940)	243966	50.0000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		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

680 271

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(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]anthracene		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.

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

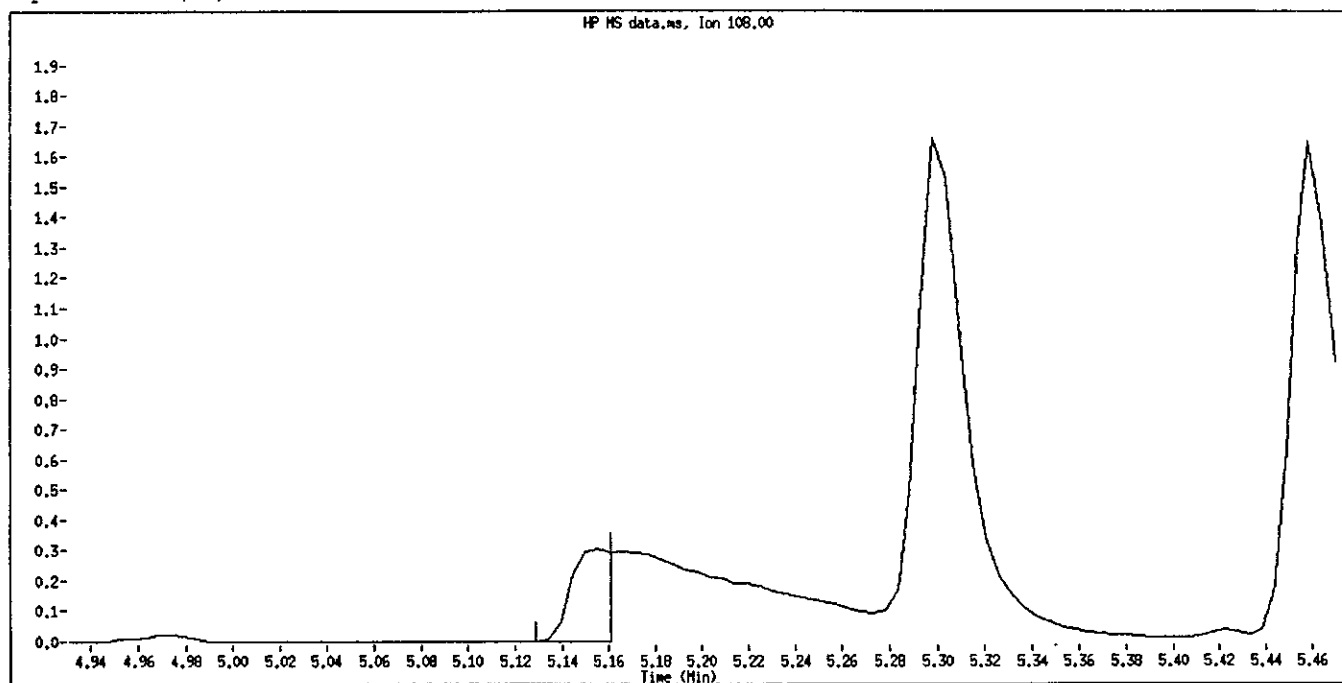
Instrument ID. 722.1

Client ID: SST050

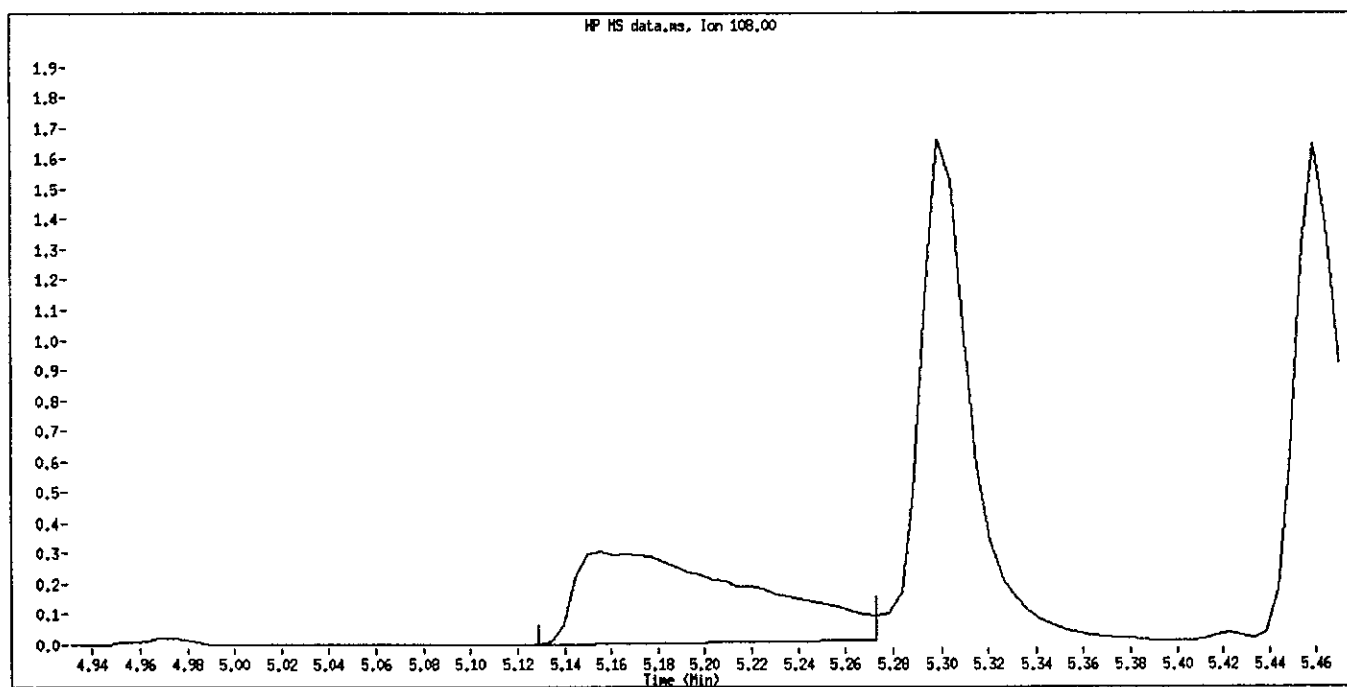
Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 03/27/2001



Original Integration



Manual Integration

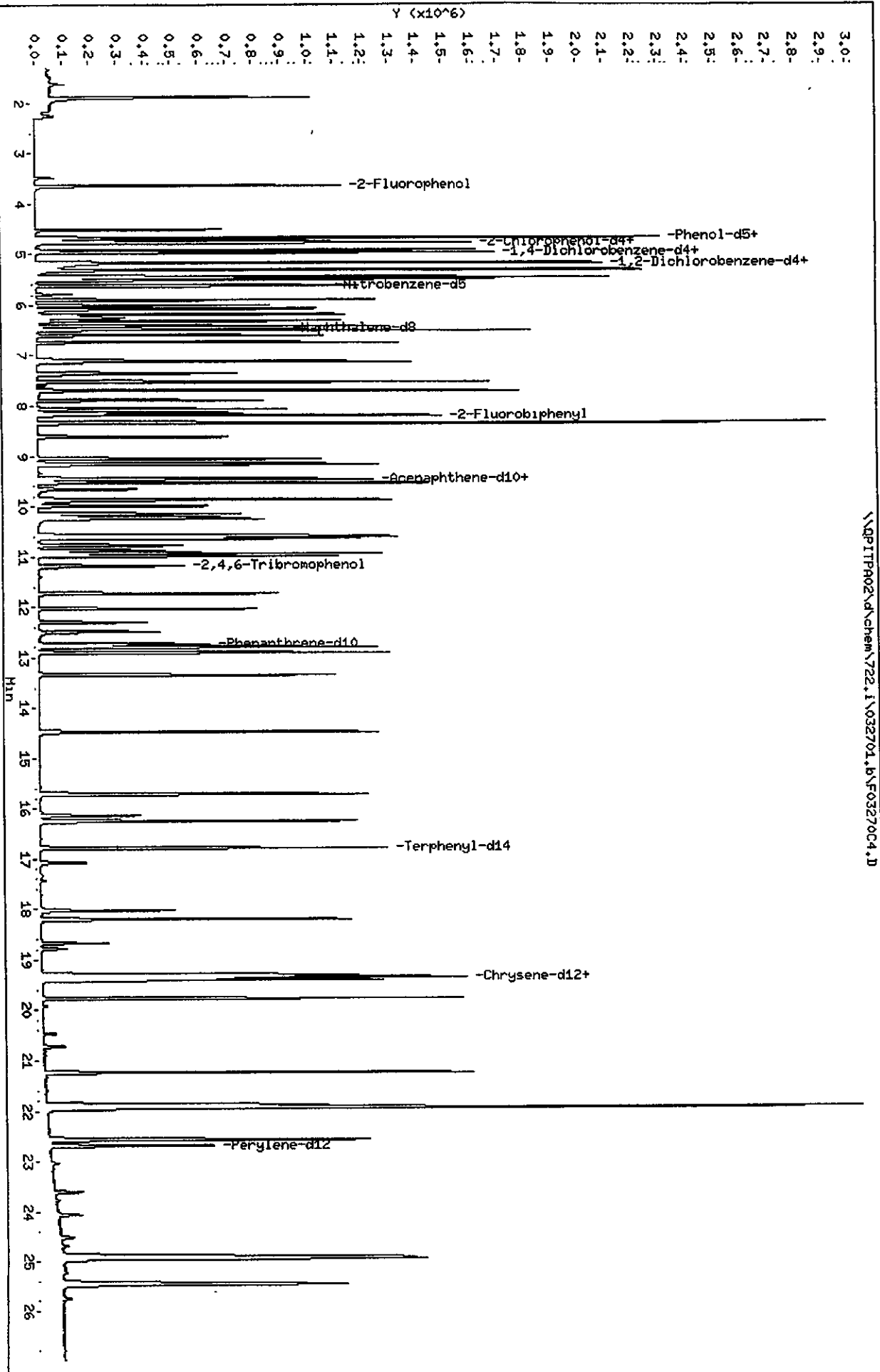
Manually Integrated By bungardf

Manual Integration Reason Peak Not Found

Data File: \\QPIITP002\\d\\chem\\722.1\\032701.b\\F0327004.D
 Date : 27-Mar-2001 13:45
 Client ID: SST0080
 Sample Info: SST0080 (40ppb) 77-11-3
 Column Phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPIITP002\\d\\chem\\722.1\\032701.b\\F0327004.D



680 274

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: SSTD080
Inj Date : 27-MAR-2001 13:45
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD080 (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

IMP
3/27/01

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(NG)	(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

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(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

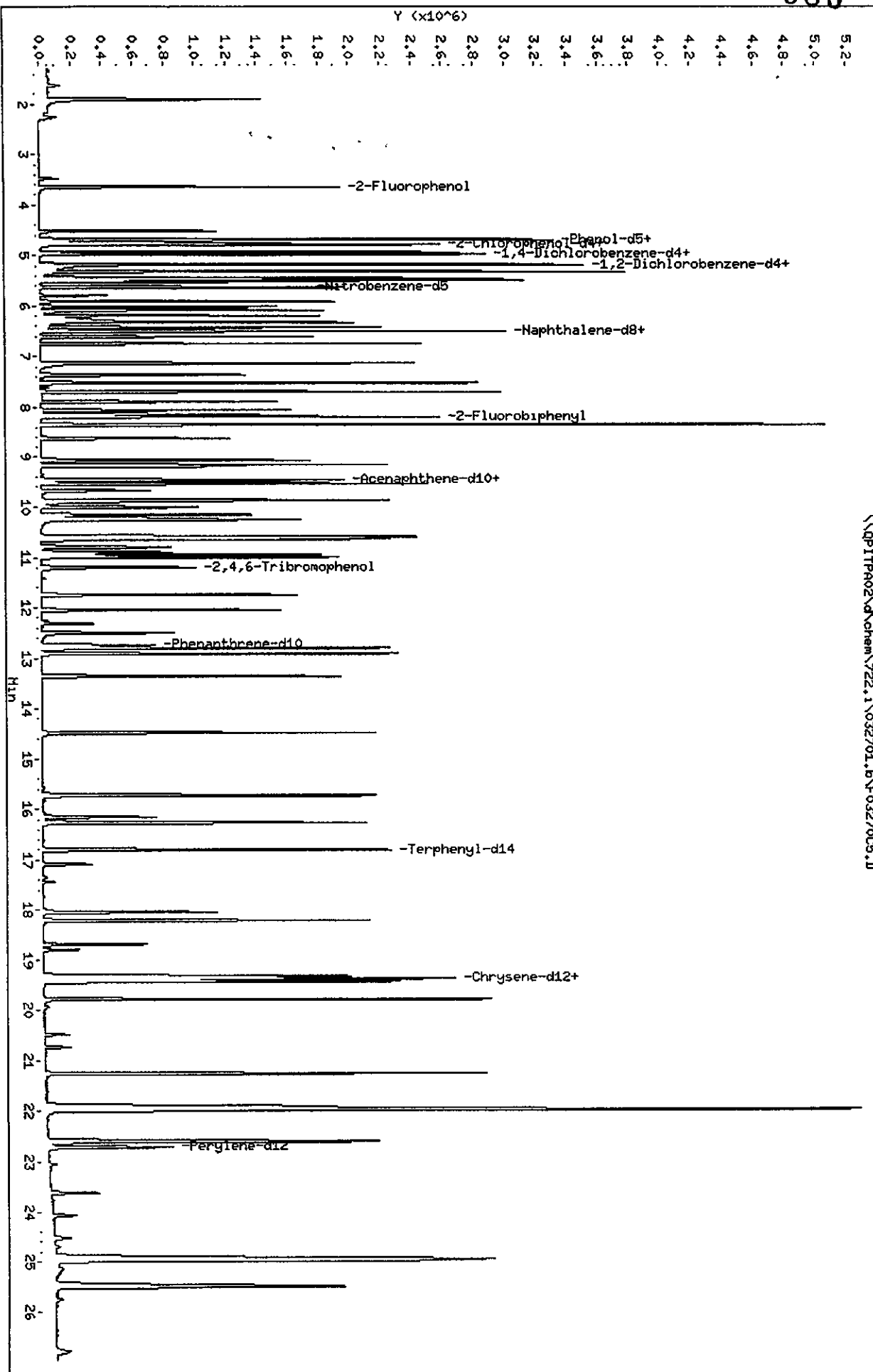
680 276

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (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 Dibenz(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: \\QIPITPA02\chem\722.1\032701.b\F0327005.D
Date : 27-MAR-2001 14:18
Client ID: SSTID120
Sample Info: SSTID120 (60ppb) 77-11-4
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QIPITPA02\chem\722.1\032701.b\F0327005.D



680 278

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

Handwritten: 3/27/01

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	==	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.960	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

680 279

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (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

680 280

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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 Dibenz(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: 722.1

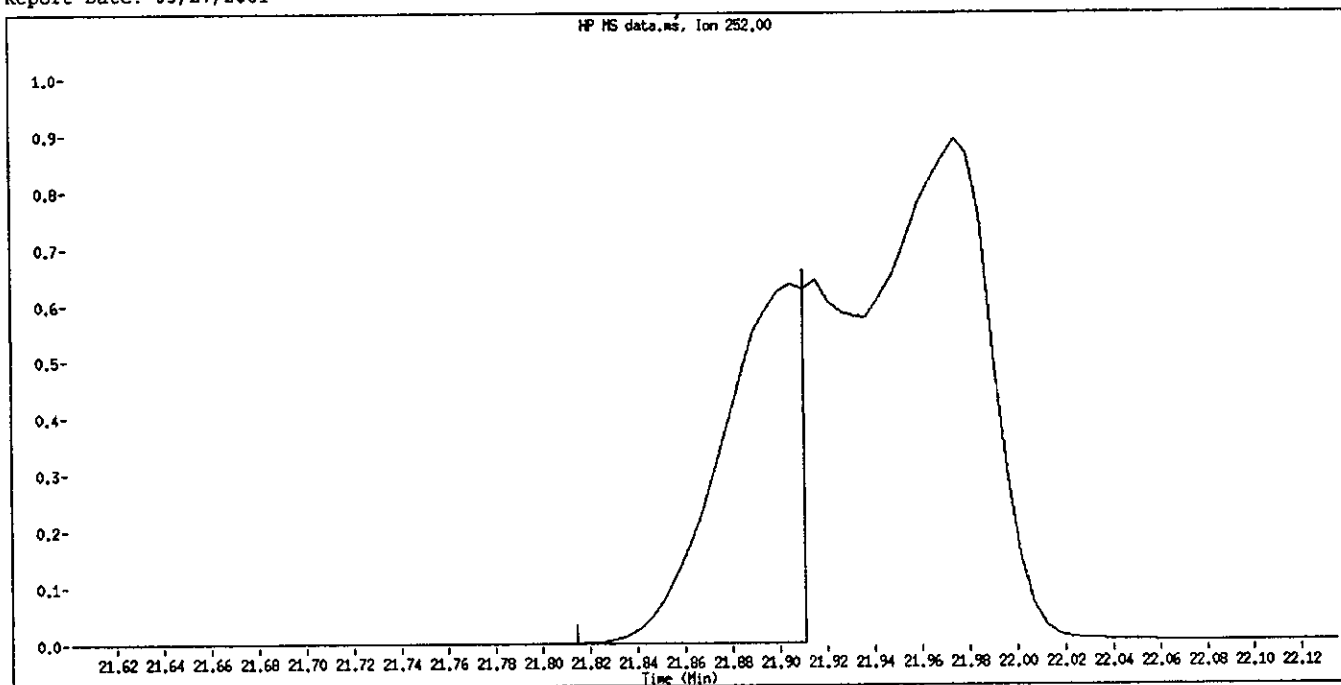
Client ID: SSTD120

Compound Name: Benzo(b)fluoranthene

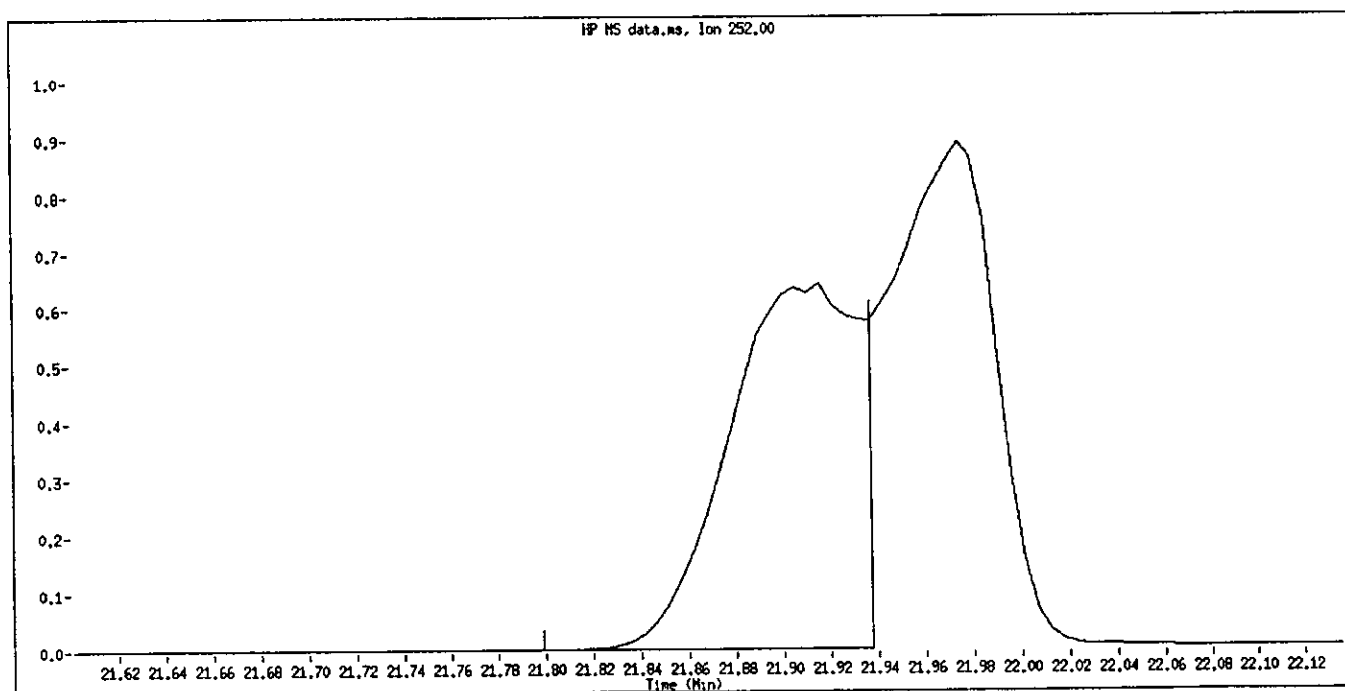
CAS #: 205-99-2

Report Date: 03/27/2001

680 281



Original Integration



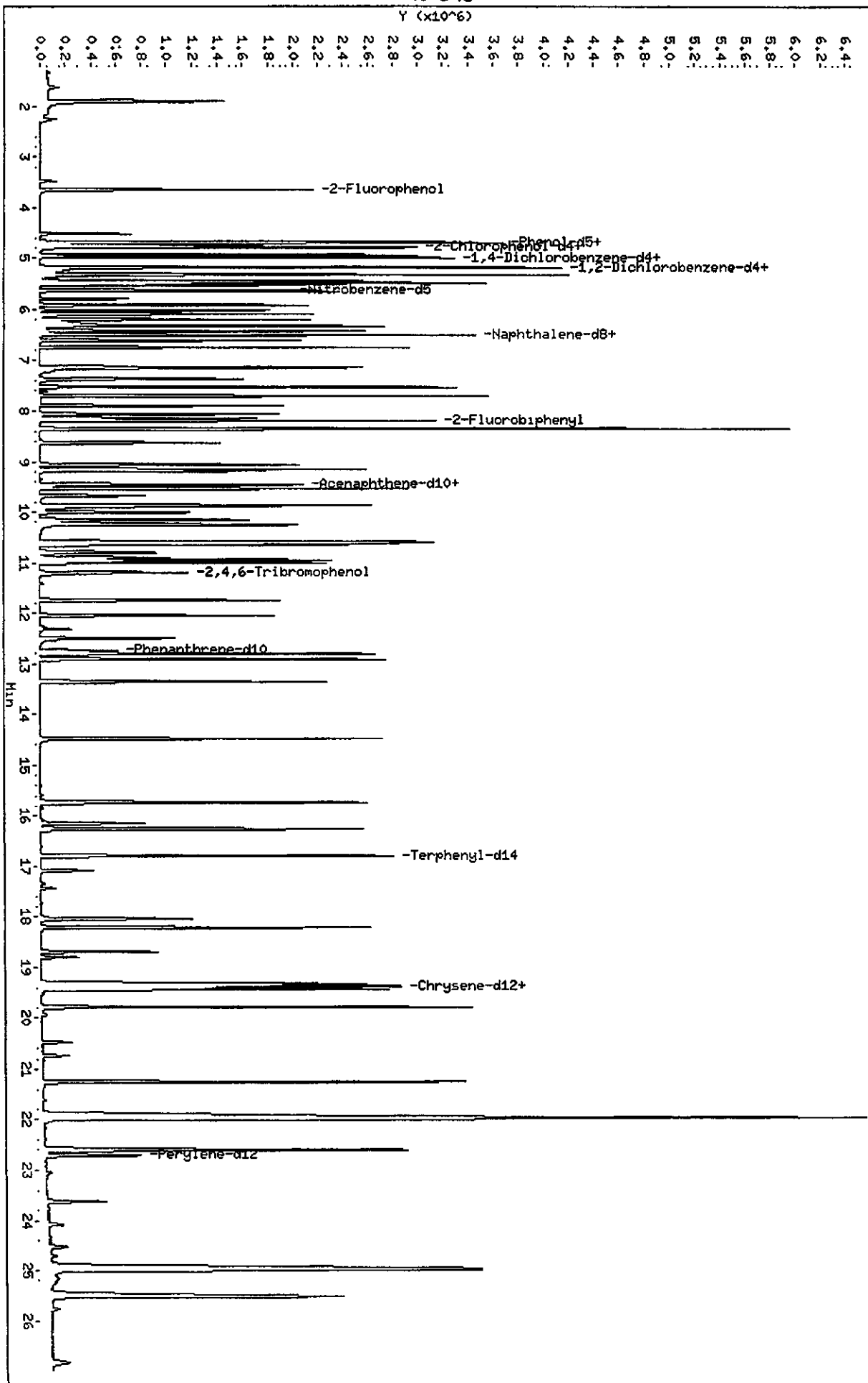
Manual Integration

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

Data File: \\QPIITP02\chem\722.1\032701.b\F0327006.D
Date: 27-MAR-2001 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

\\QPIITP02\chem\722.1\032701.b\F0327006.D



680 283

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

WJL
3/27/01

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

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Compounds	QUANT	SIG	AMOUNTS				
			MASS	RT	EXP RT	REL RT	RESPONSE
=====	=====	==	=====	=====	=====	=====	=====
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

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		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 Dibenzo(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.

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

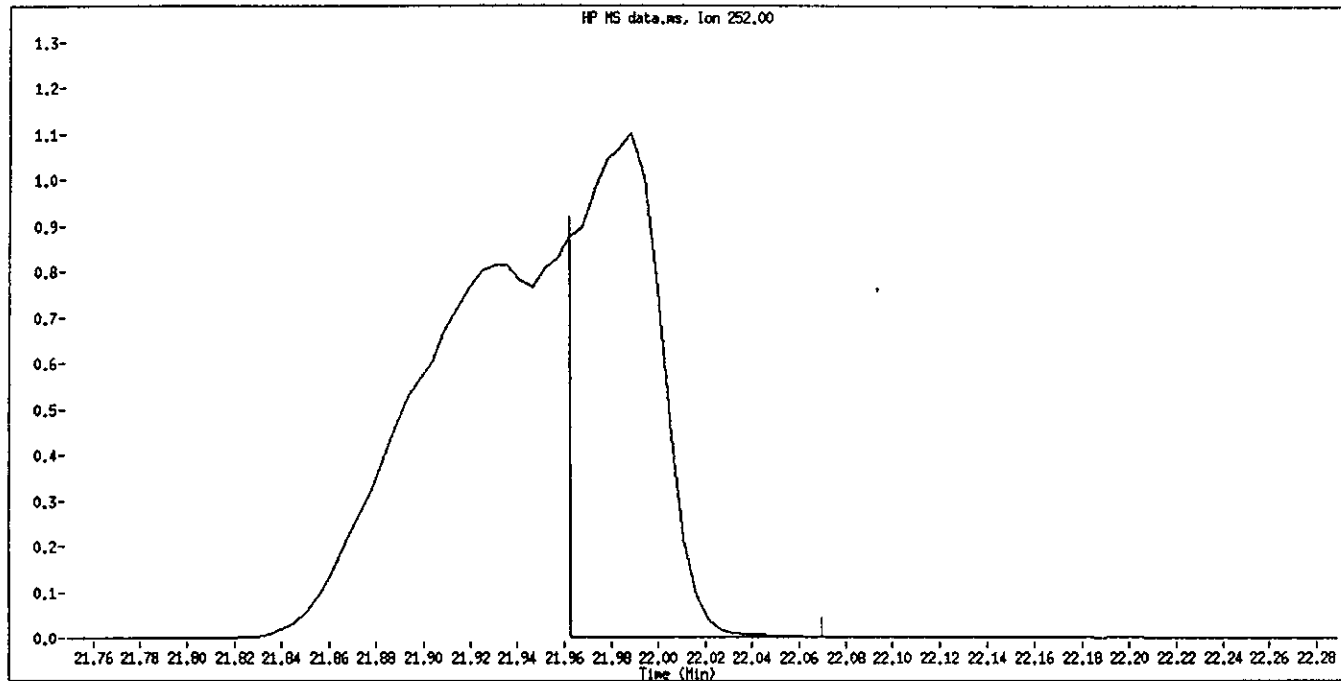
Instrument ID: 722 1

Client ID SSTD160

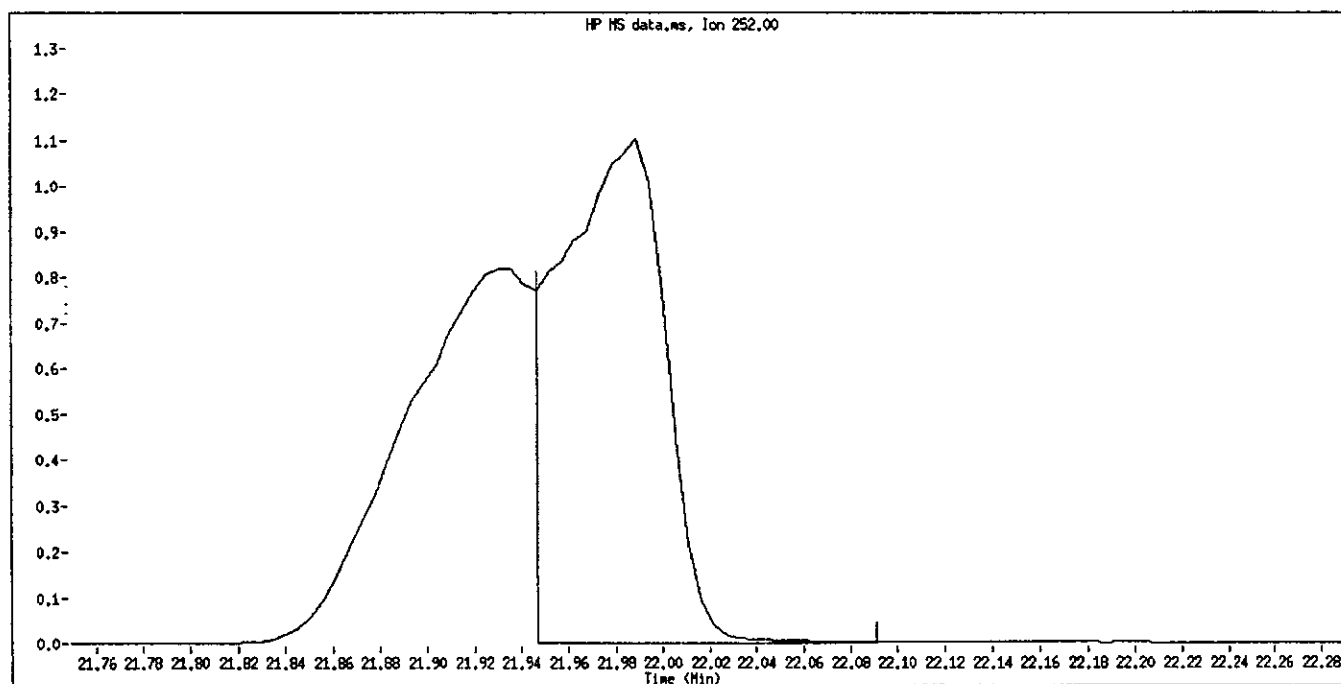
Compound Name Benzo(k)fluoranthene

CAS #: 207-08-9

Report Date: 03/27/2001



Original Integration



Manual Integration

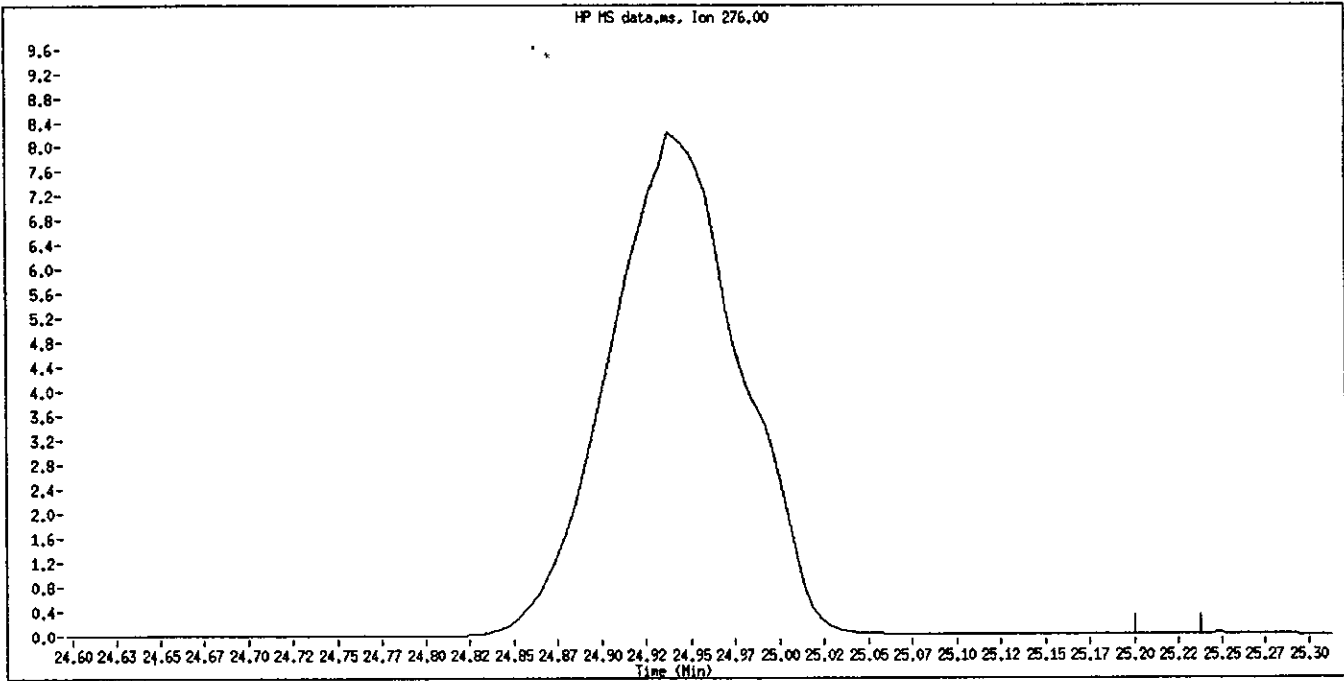
Manually Integrated By: bungardf

ms 3/27/01

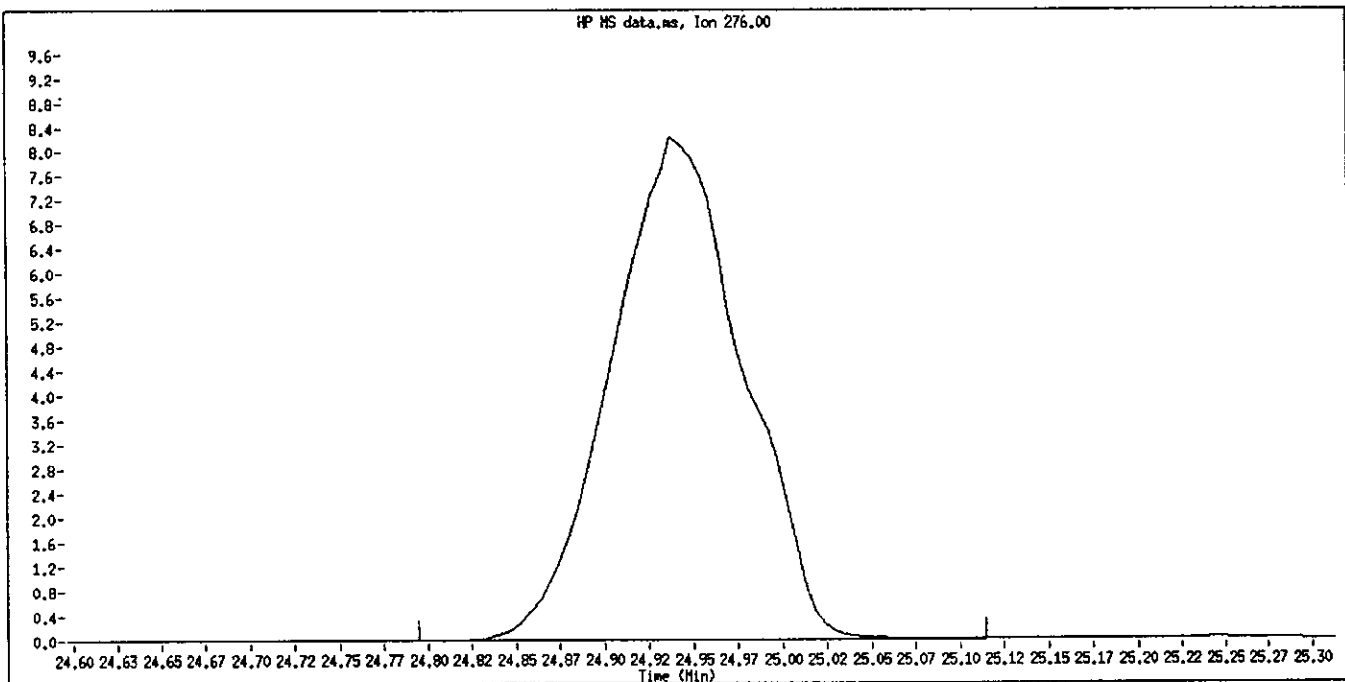
Manual Integration Reason: Poor Chromatography

Data File Name: F03270C6.D
Inj Date and Time: 27-MAR-2001 14:51
Instrument ID: 722.1
Client ID: SST0160
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2001

680 287



Original Integration



Manual Integration

Manually Integrated By: bungardf / *mb* 3/27/01
Manual Integration Reason: Peak Not Found

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C 260/73

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

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

680 289
C1022013

Lab Code:

Case No.:

SAS No.:

SDG No.: _

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

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1C22173

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

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

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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

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

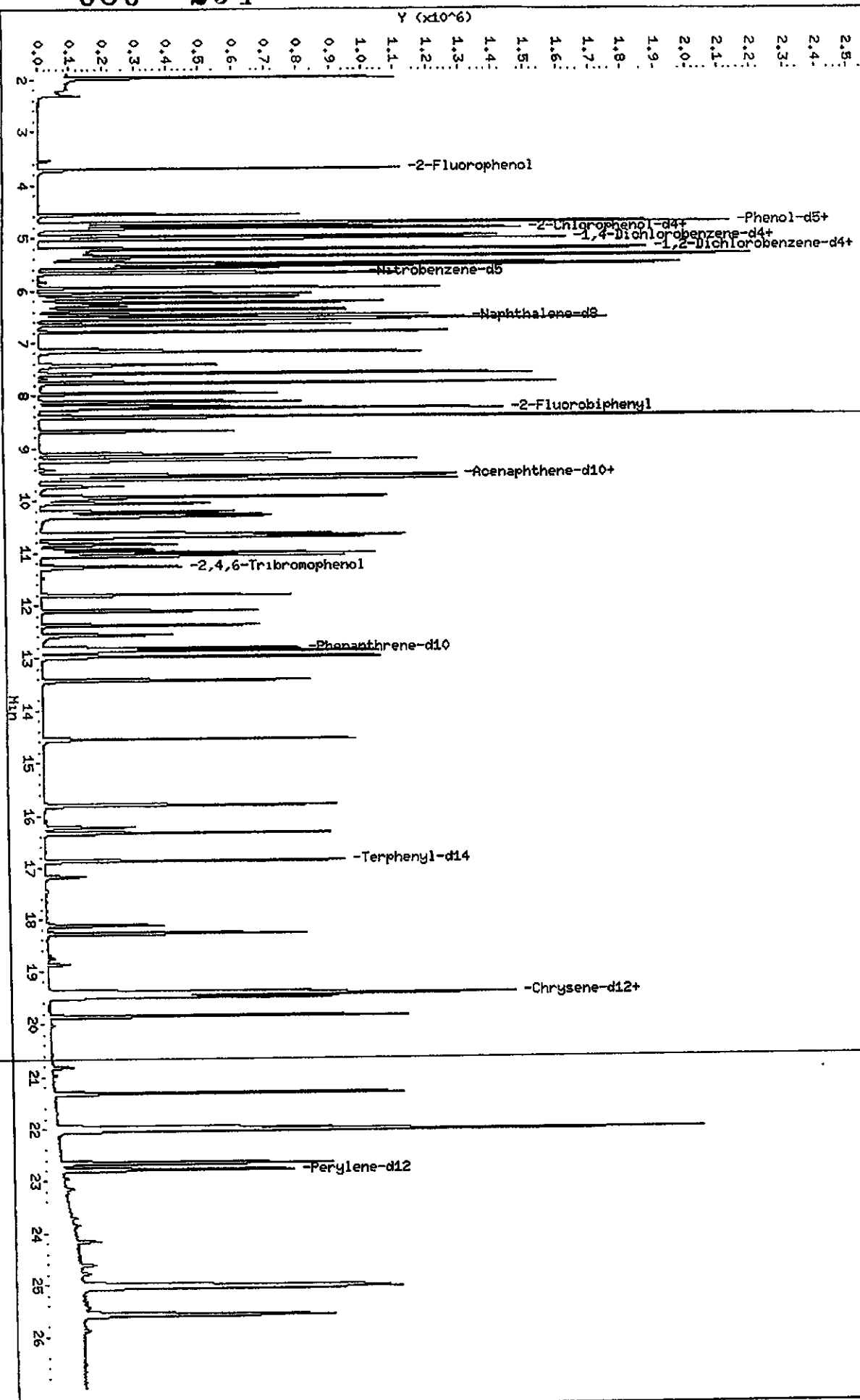
Injection Date: 26-MAR-2001 21:47
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032601n.b

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 Dibenzo(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: \NPI\PA02\chem\722.1\032601n.b\F03260CN.D
Date : 26-MAR-2001 21:47
Client ID: SST0050
Sample Info: SST0050 (25ppb) 77-15-13
Column phase: Hp5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.28

\NPI\PA02\chem\722.1\032601n.b\F03260CN.D



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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: SST050
Inj Date : 26-MAR-2001 21:47 Inst ID: 722.i
Operator : 007062
Smp Info : SST050 (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 Compound Sublist: 2-root.sub
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)	285385	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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (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

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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

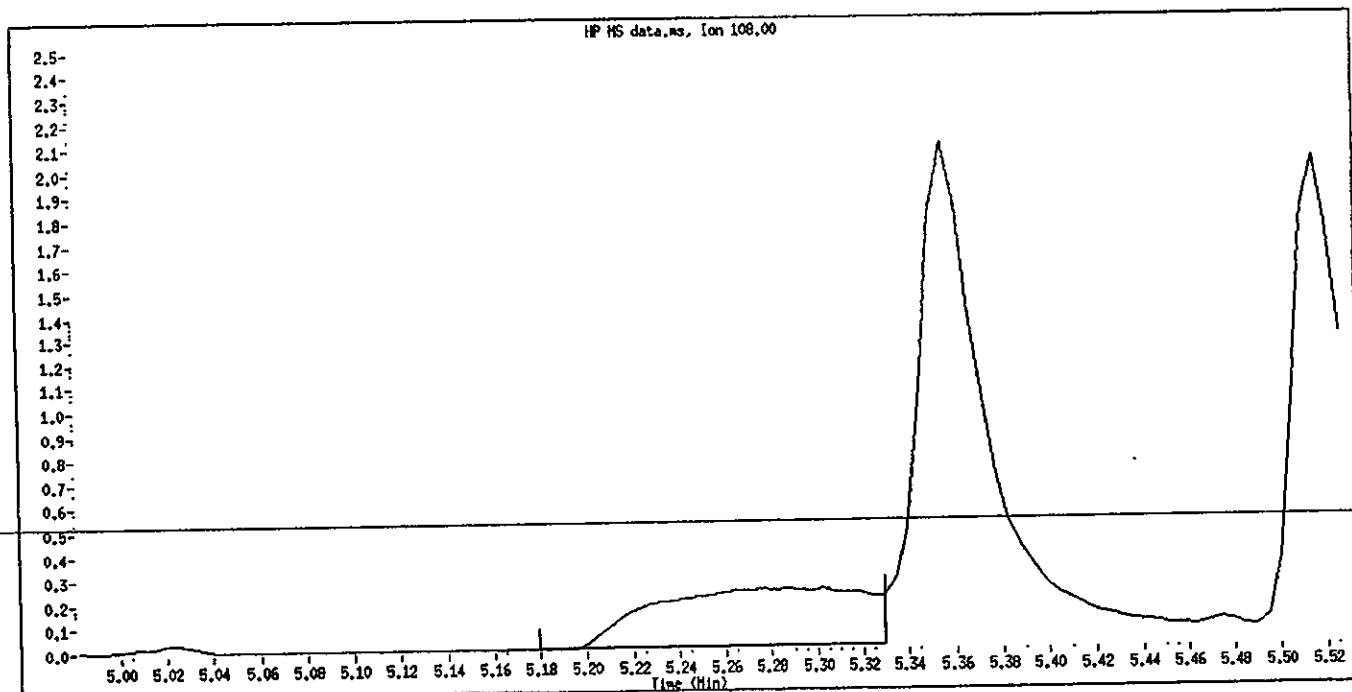
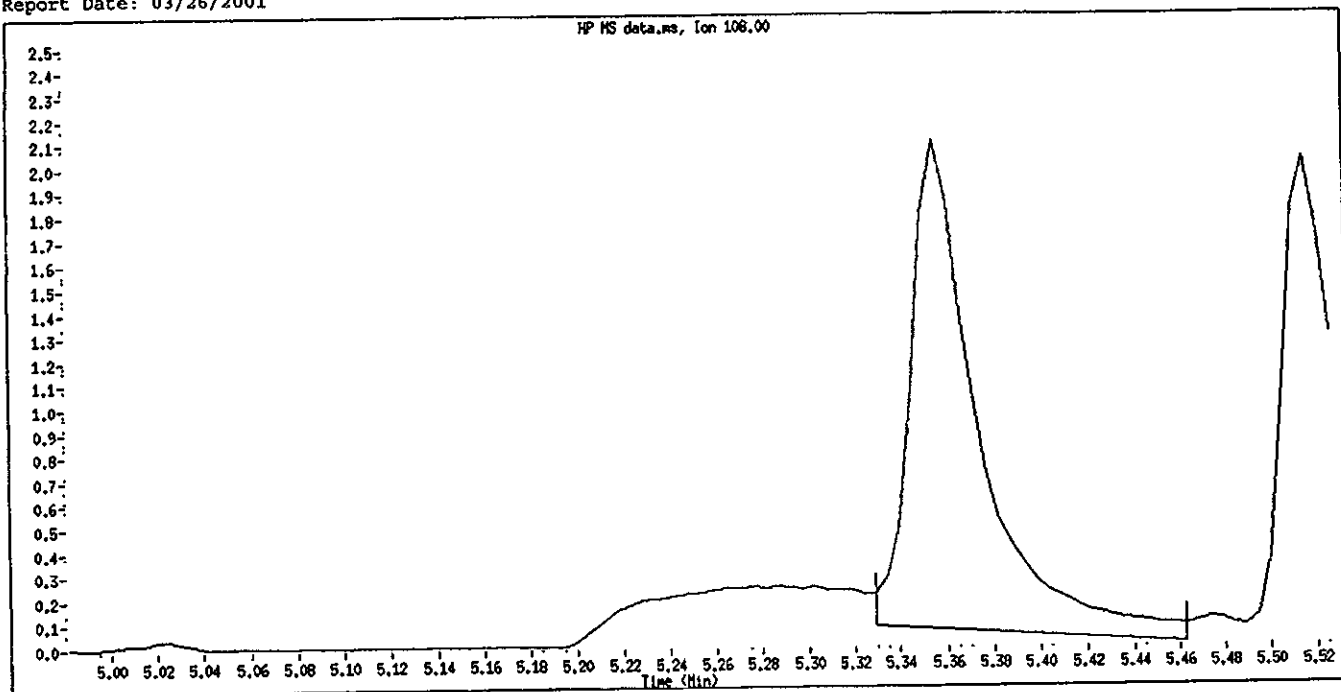
Instrument ID: 722.1

Client ID: SST050

Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 03/26/2001



Manually Integrated By: bungardf /wlp3/26/01

Manual Integration Reason: Poor Chromatography

GC/MS SEMIVOLATILE
QC DATA

Date : 26-FEB-2001 10:46

Client ID: DFTFP02

Instrument: 732.1

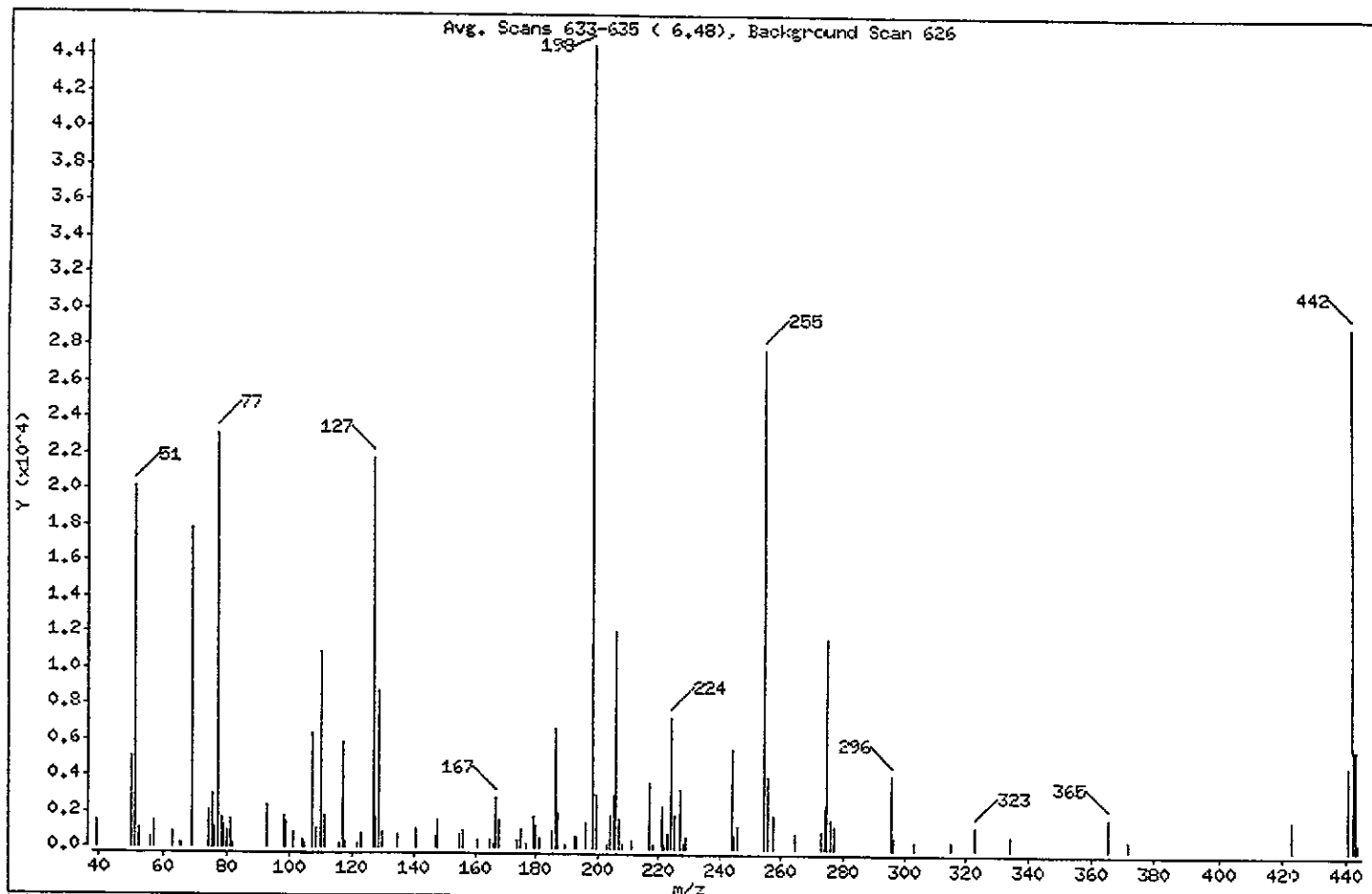
Sample Info: DFTFP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



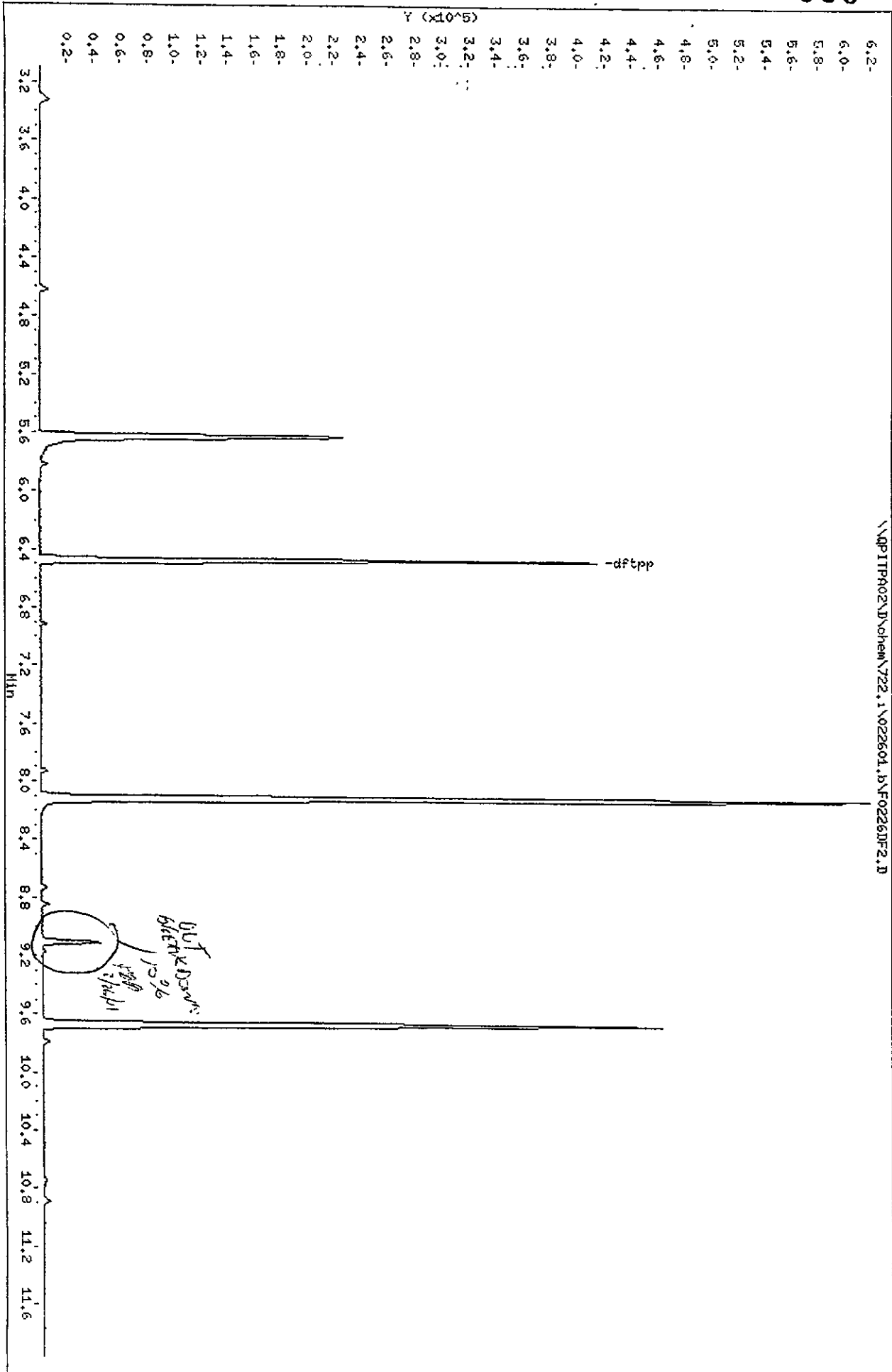
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.66
197	Less than 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: \\NPITPA02\chem\722.1\022601.b\F0226DF2.D
 Date: 26-FEB-2001 10:46
 Client ID: DFTPP02
 Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:

Instrument: 722.1
 Operator: 007062
 Column diameter: 2.00

\\NPITPA02\chem\722.1\022601.b\F0226DF2.D



Data File: \\QPITPA02\chem\722.i\F0226DF2.D

Page 4

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Instrument: 722.1

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

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

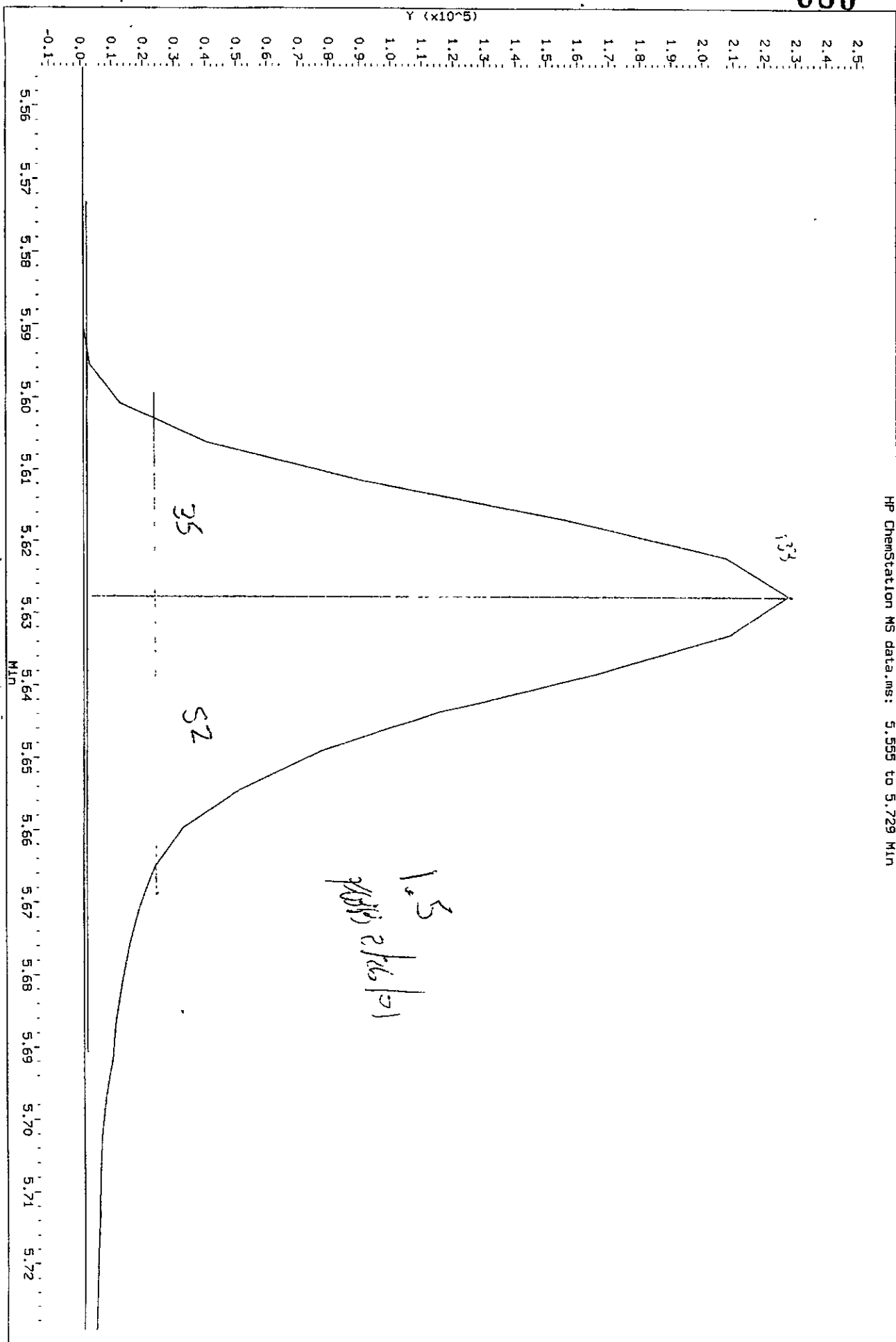
Number of points: 105

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	1532	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	358		
108.00	1037	180.00	1262	229.00	664		
110.00	10870	181.00	465	244.00	5507		

303
 Data File: \\GP1TPA02\chem\722.1\022601.b\F0226DF2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

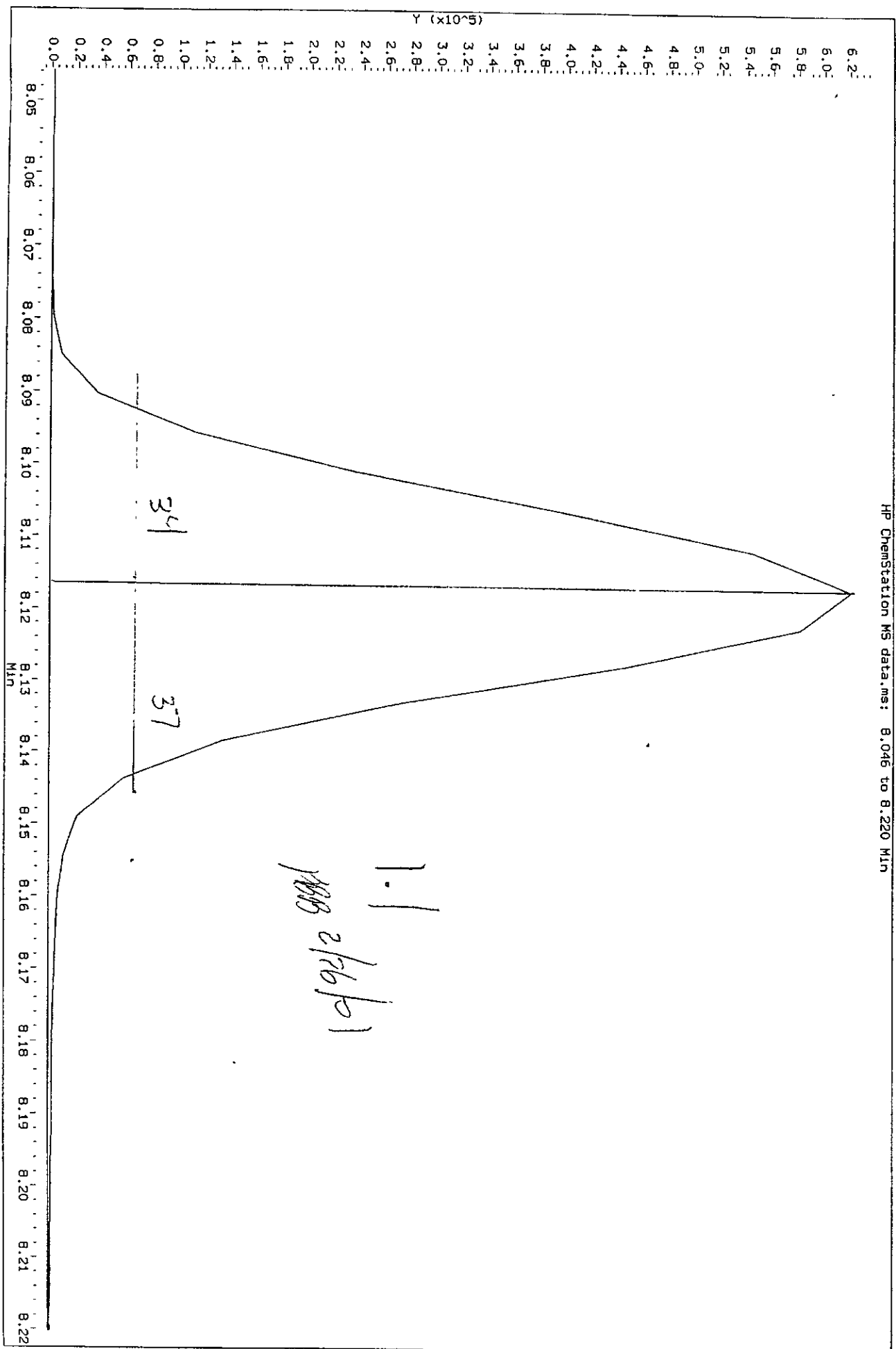
680

HP ChemStation MS data.ms: 5.555 to 5.729 Min



680 304

Data File: \\OP1TPA02\chem\722.1\022601.b\0226DF2.D
Injection Date: 26-FEB-2001 10:46
Instrument: 722.1
Client Sample ID: DFTPP02



Date : 27-MAR-2001 11:48

Client ID: DFTPP02

Instrument: 722.1

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

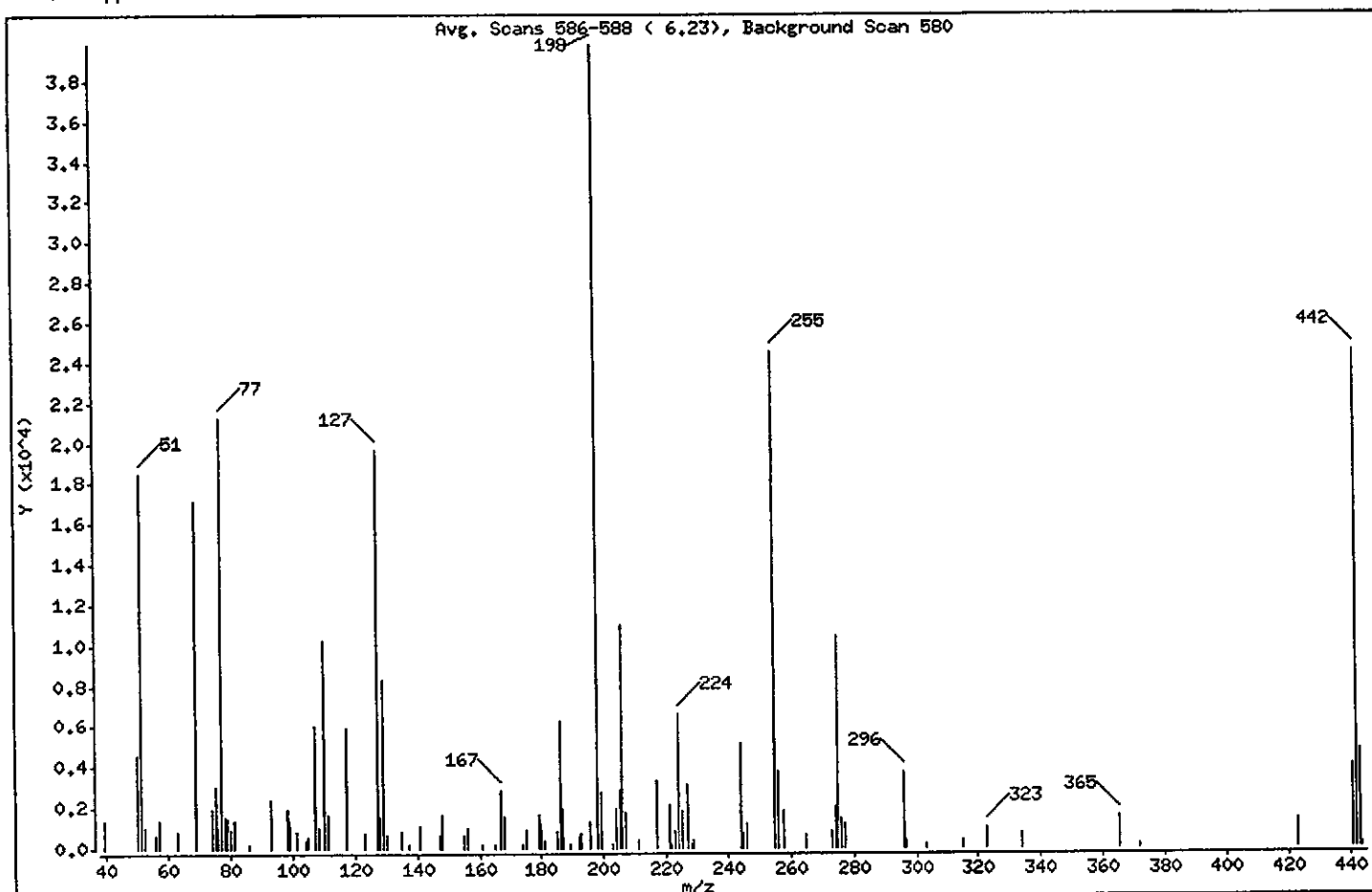
Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp

680 305



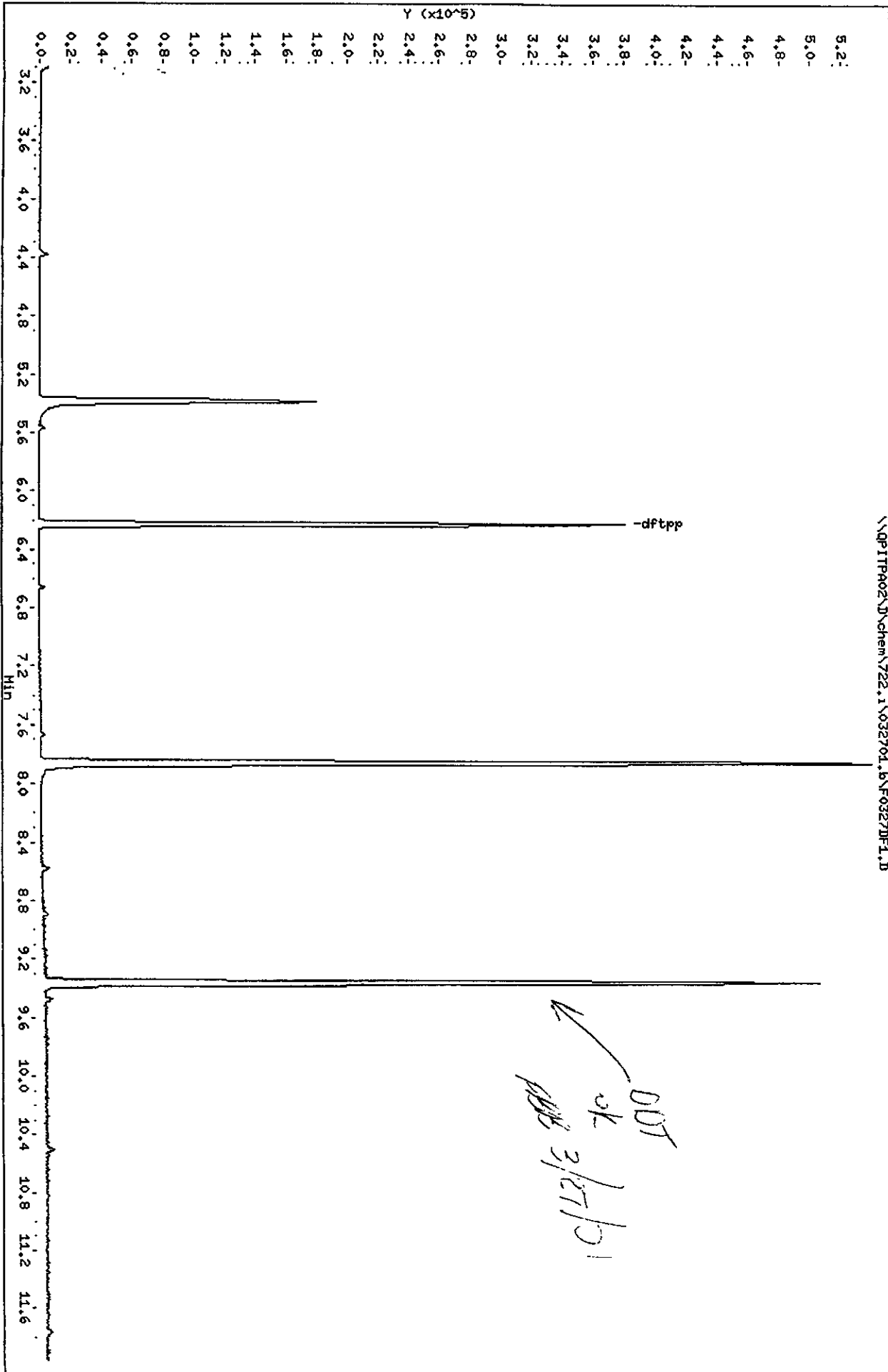
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.33
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.95
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.39
197	Less than 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)

680 306

Data File: \\QPI1P002\J\chem\722.i\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

\\QPI1P002\J\chem\722.i\032701.b\F0327DF1.D



Data File: \\QPITPA02\N\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

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	352
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

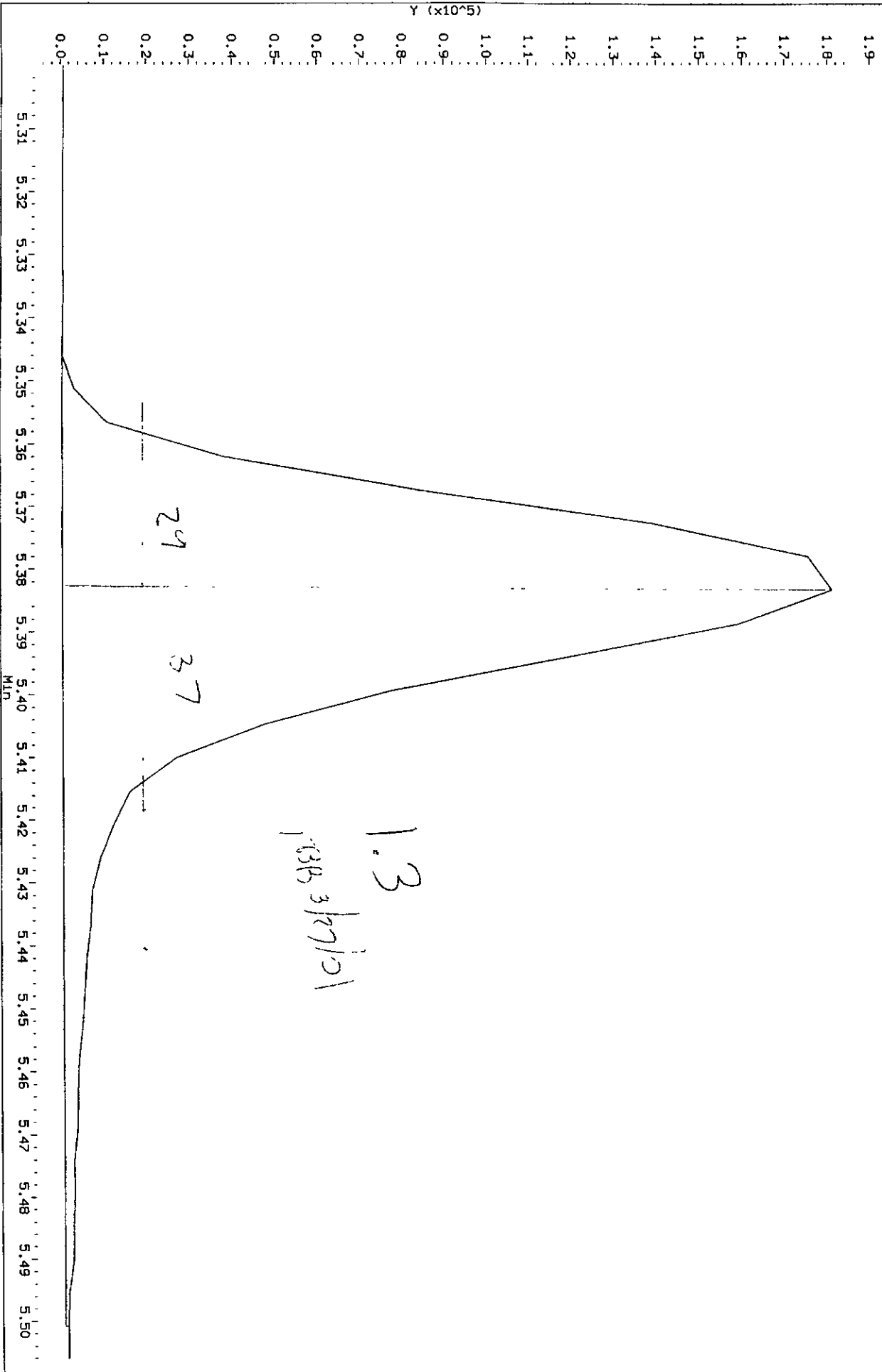
81.00	1380	161.00	211	221.00	2111	334.00	688
86.00	207	165.00	183	222.00	220	365.00	1512
93.00	2343	167.00	2833	223.00	781	372.00	183
98.00	1909	168.00	1572	224.00	6633	423.00	1388
99.00	1406	174.00	190	225.00	1791	441.00	4017

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		

680 308

Data File: \\GPITPA02\chem\722.1\032701.b\F0327DF1.D
Injection Date: 27-MAR-2001 11:48
Instrument: 722.1
Client Sample ID: DFTFP02

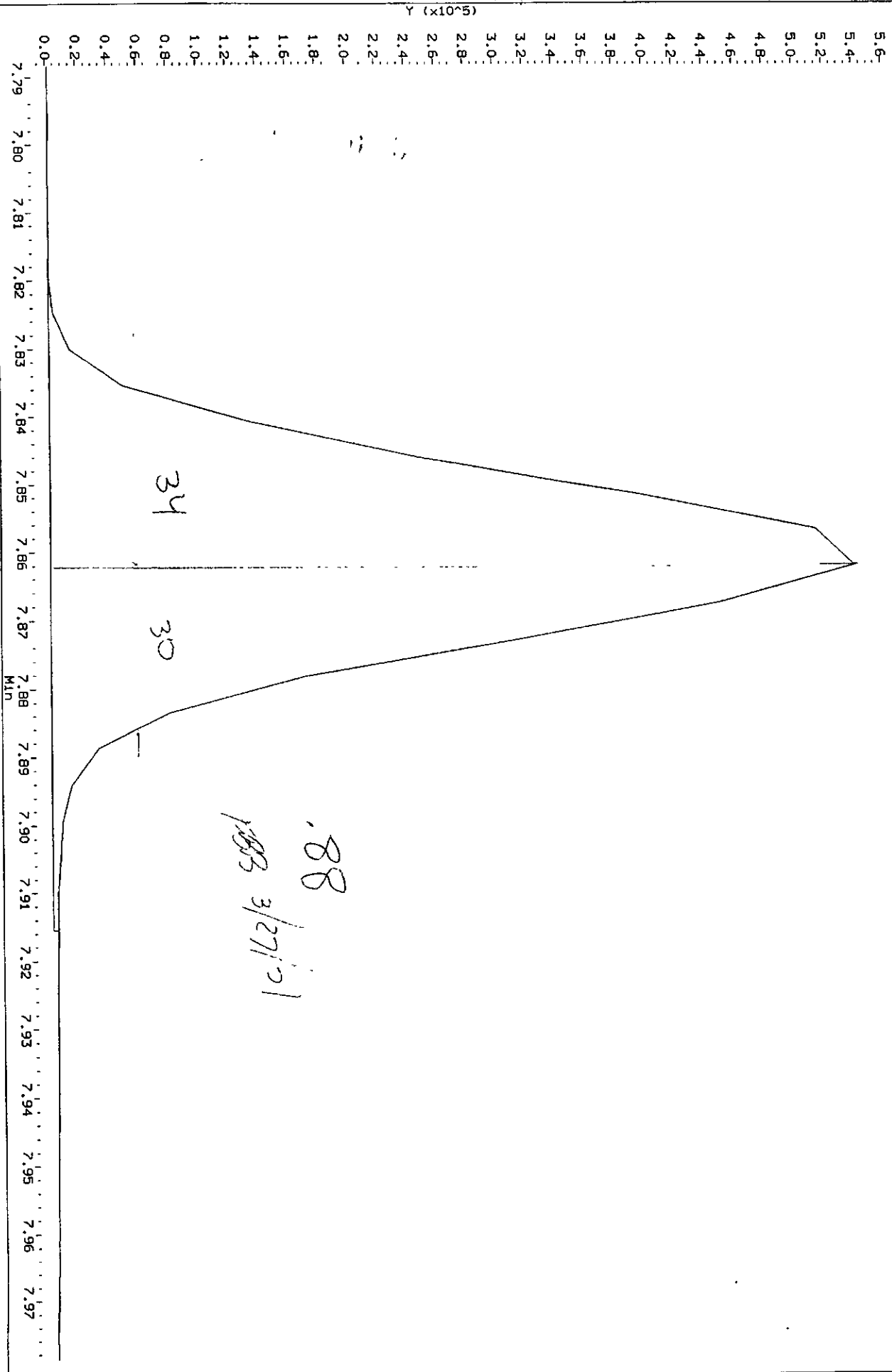
HP ChemStation MS data.ms: 5.300 to 5.506 Min



680 309

Data File: \\QPIPPA02\\d\\chem\\722.1\\032701.b\\F0327DF1.D
Injection Date: 27-MAR-2001 11:48
Instrument: 722.1
Client Sample ID: DTFPP02

HP ChemStation MS data.ms: 7.788 to 7.979 Min



Data File: \\QPITPA02\In\chem\722.1\032601n.b\F0326DFN.D

Date : 26-MAR-2001 20:55

Client ID: DFTPP02

Instrument: 722.1

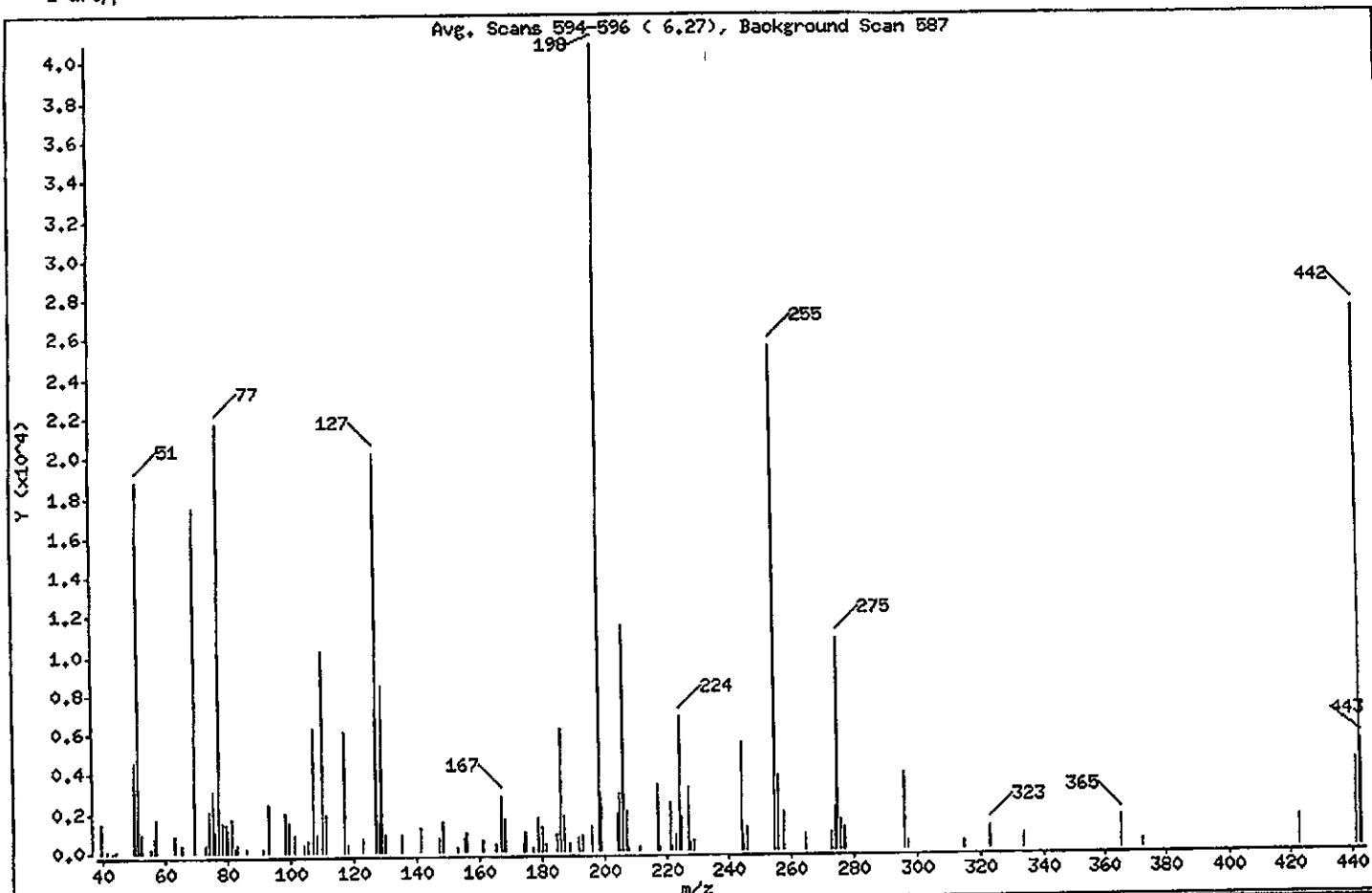
Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column 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	46.07
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\ID\chem\722.1\032601n.b\F0326DFN.D

Date : 26-MAR-2001 20:55

Client ID: DFTPP02

Instrument: 722.1

Sample Info: DFTPP030 (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

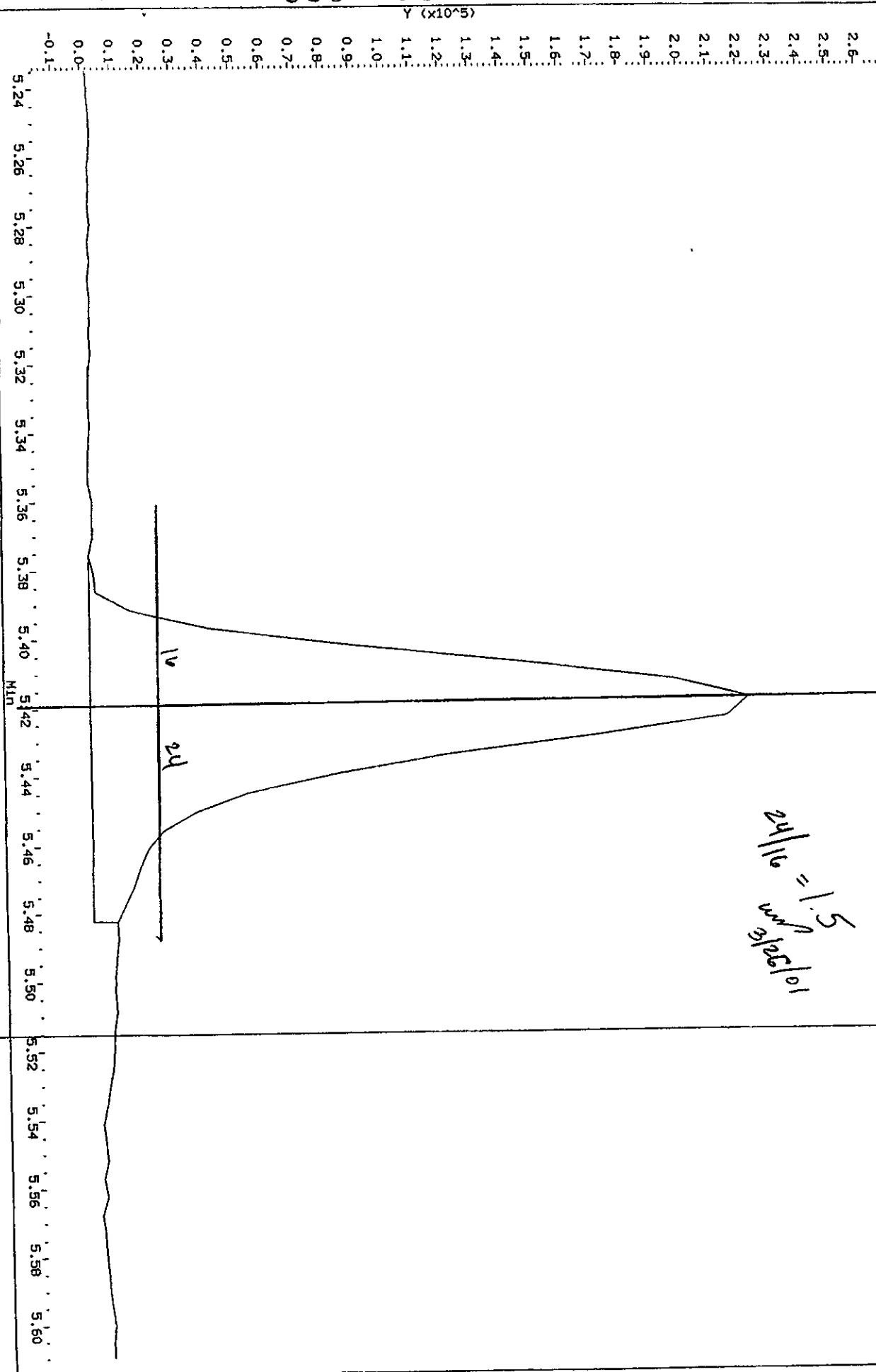
Number of points: 108

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	85	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	3795
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	17828	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	351	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		

Data File: \NPI\TPA02\chem\722.1\032601n.b\F032601FN.D
 Injection Date: 26-Mar-2001 20:55
 Instrument: 722.1
 Client Sample ID: DFTPP02

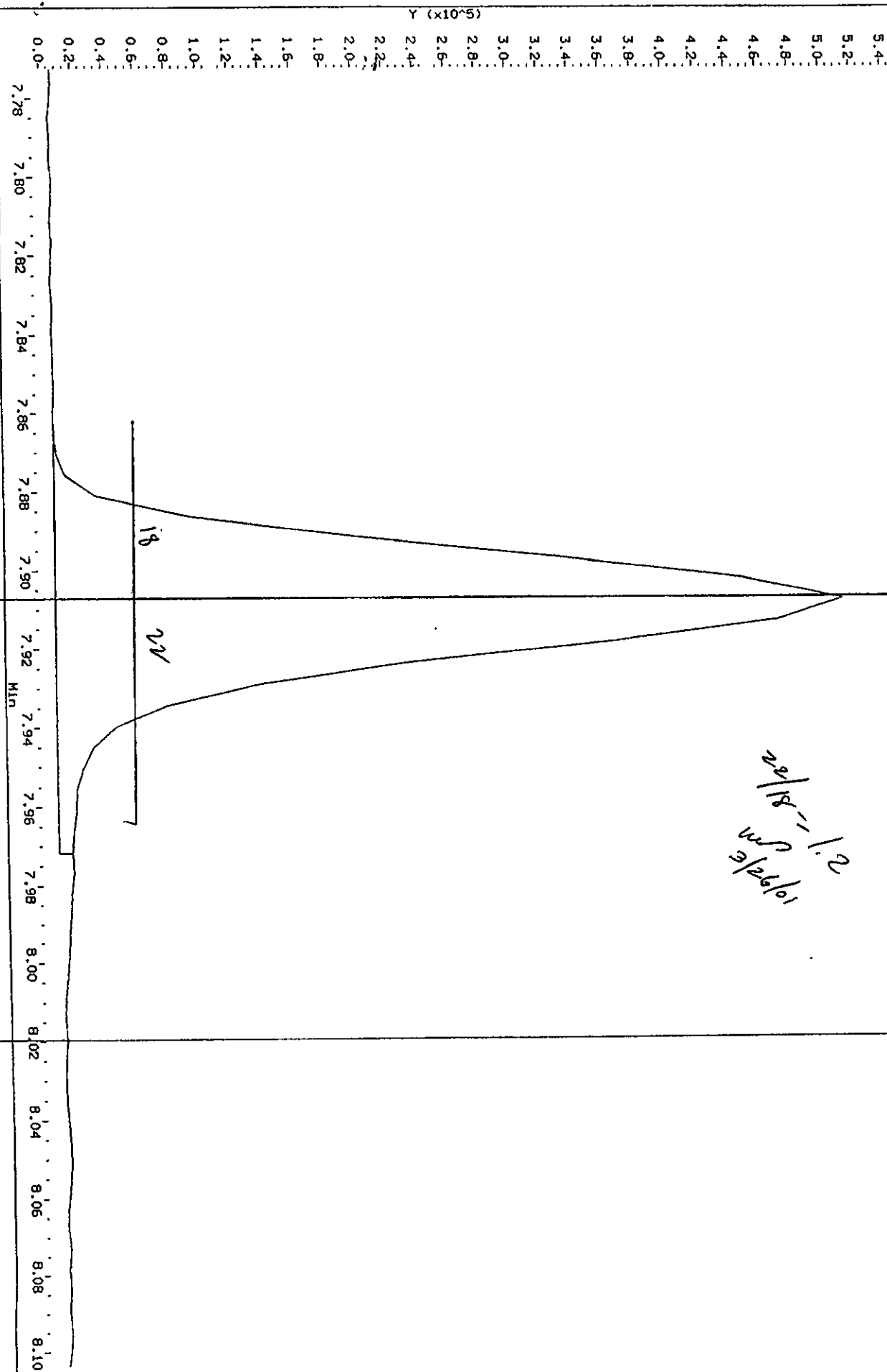
HP ChemStation MS data.ms: 5.235 to 5.610 Min

680 312



Data File: \\QIPITP02\d\chem\722.1\032601n.b\F032601n.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

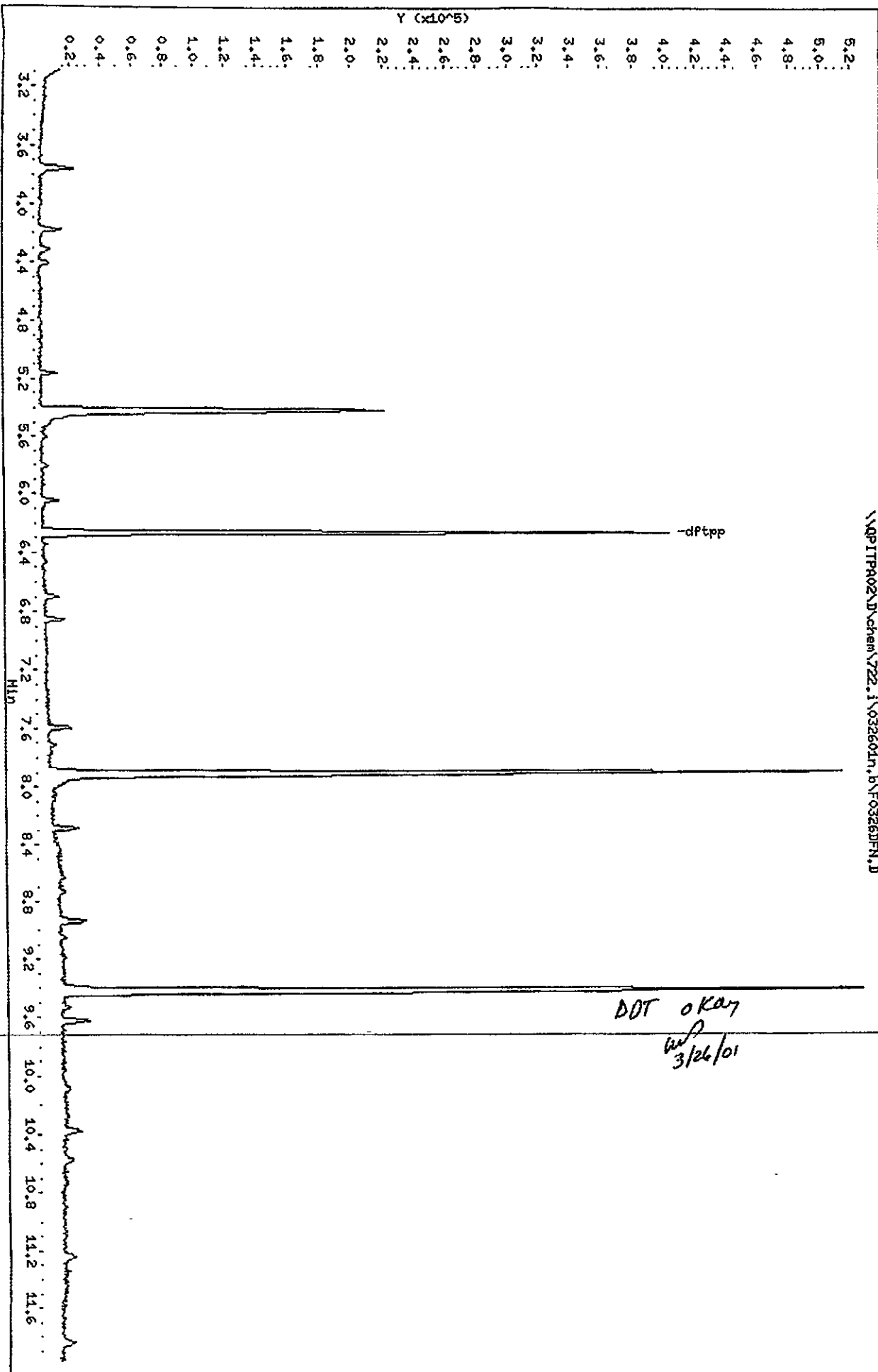


Data File: \\QIPITPRO2\chem\722.1\032601n.b\F0326DFN.D
Date: 26-MAR-2004 20:55
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:

\\QIPITPRO2\chem\722.1\032601n.b\F0326DFN.D

Instrument: 722.1
Operator: 007062
Column diameter: 2.00



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

680 315

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AA

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 320
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/22/01
Work Order: DXV861AA Date Extracted: 03/23/01
Dilution factor: 1 Date Analyzed: 03/27/01
Moisture %: NA

QC Batch: 1082320

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

680 317

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 320
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/22/01
Work Order: DXV861AA Date Extracted: 03/23/01
Dilution factor: 1 Date Analyzed: 03/27/01
Moisture %: NA

QC Batch: 1082320

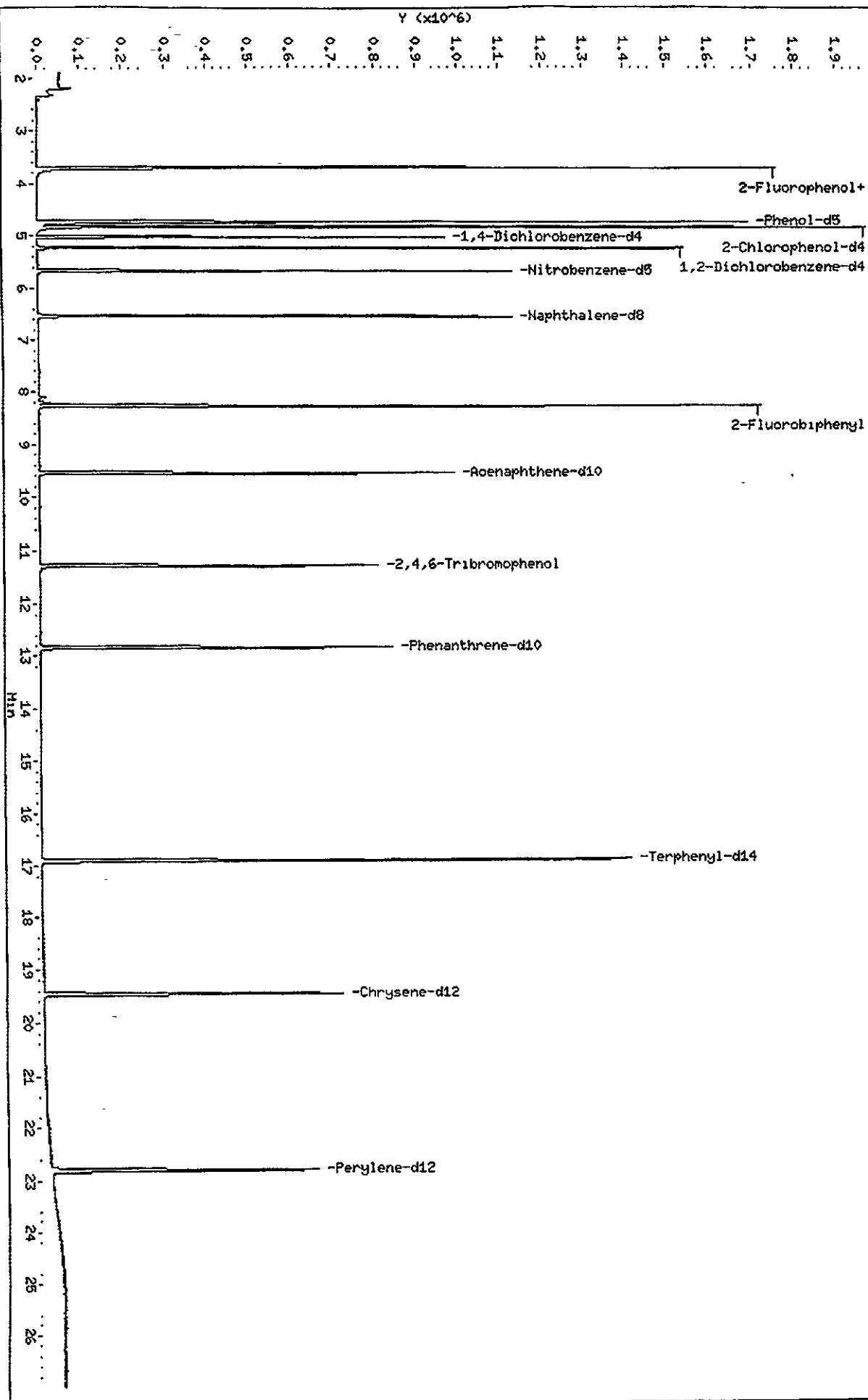
Client Sample Id: INTRA-LAB BLANK

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: \\NPITPA02\chem\722.1\032601n.b\F0326060.D
Date: 27-MAR-2001 01:33
Client ID: INTRA-LAB BLANK
Sample Info: C10220173-BLK 3/23/01 H2O (1082320)
Volume Injected (uL): 2.0
Column phase: Hp5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\NPITPA02\chem\722.1\032601n.b\F0326060.D



680 319

STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326060.D
Lab Smp Id: DXV861AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 27-MAR-2001 01:33
Operator : 007062 Inst ID: 722.i
Smp Info : C1C220173-BLK 3/23/01 H2O (1082320)
Misc Info : dxv861aa,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: 13 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten: 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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(NG)	(ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.018	5.008	(1.000)	185055	40.0000		(Q)
* 2 Naphthalene-d8	136	6.535	6.525	(1.000)	731383	40.0000		
* 3 Acenaphthene-d10	164	9.543	9.528	(1.000)	404920	40.0000		
* 4 Phenanthrene-d10	188	12.833	12.818	(1.000)	702076	40.0000		
* 5 Chrysene-d12	240	19.452	19.437	(1.000)	652680	40.0000		
* 6 Perylene-d12	264	22.807	22.787	(1.000)	583051	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			

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.		

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Compounds	QUANT SIG	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	5.670	5.660	(0.868)	499455	71.3852	35.7
\$ 155 2-Fluorobiphenyl	172	8.261	8.245	(0.866)	869580	73.5040	36.8
\$ 156 Terphenyl-d14	244	16.899	16.873	(0.869)	1073789	84.3305	42.2
\$ 157 Phenol-d5	99	4.724	4.720	(0.941)	795659	100.003	50.0
\$ 158 2-Fluorophenol	112	3.704	3.694	(0.738)	588866	97.7470	48.9
\$ 159 2,4,6-Tribromophenol	330	11.279	11.264	(0.879)	156921	86.8265	43.4
\$ 186 2-Chlorophenol-d4	132	4.820	4.816	(0.961)	652177	109.133	54.6
\$ 187 1,2-Dichlorobenzene-d4	152	5.226	5.211	(1.042)	276104	71.6341	35.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

680 322

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AC

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

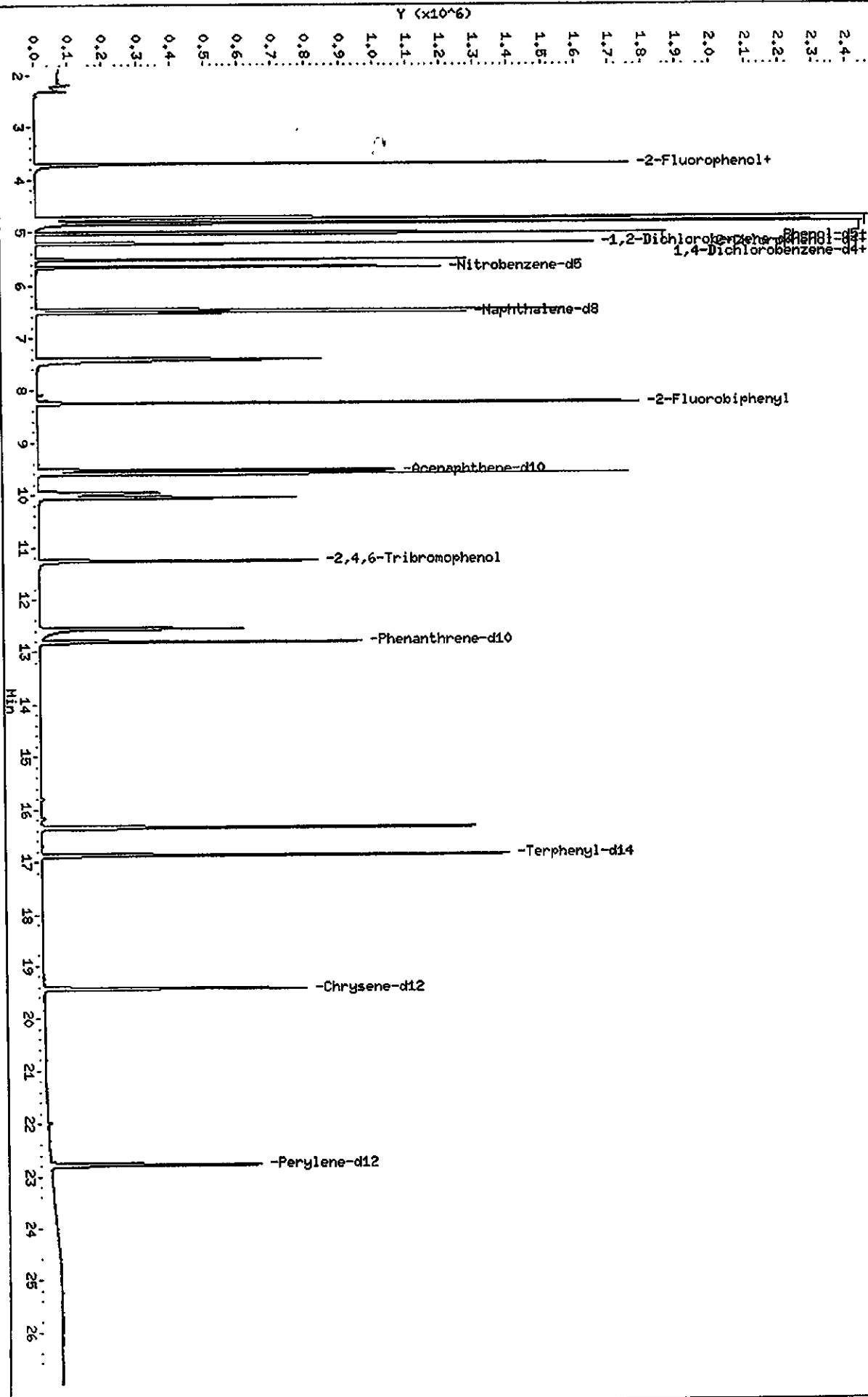
Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	33.1	
59-50-7	4-Chloro-3-methylphenol	46.1	
95-57-8	2-Chlorophenol	51.0	
106-46-7	1,4-Dichlorobenzene	33.4	
121-14-2	2,4-Dinitrotoluene	29.0	
100-02-7	4-Nitrophenol	38.0	
621-64-7	N-Nitrosodi-n-propylamine	32.0	
87-86-5	Pentachlorophenol	36.1	
108-95-2	Phenol	47.1	
129-00-0	Pyrene	36.7	
120-82-1	1,2,4-Trichlorobenzene	33.0	

Data File: \\QPI7P02\J\chem\722.1\032601n.b\F0326064.D
Date: 27-Mar-2001 02:06
Client ID: INTRA-LAB CHECK
Sample Info: C1C220173-LCS 3/23/01 H2O (1062320)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QPI7P02\J\chem\722.1\032601n.b\F0326064.D



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326061.D
 Lab Smp Id: DXV861AC Client Smp ID: INTRA-LAB CHECK
 Inj Date : 27-MAR-2001 02:06
 Operator : 007062 Inst ID: 722.i
 Smp Info : C1C220173-LCS 3/23/01 H2O (1082320)
 Misc Info : dxv861ac,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: 14 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

Handwritten:
 3/27/01

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.007	5.008	(1.000)	197505	40.0000		
* 2 Naphthalene-d8	136	6.519	6.525	(1.000)	807913	40.0000		
* 3 Acenaphthene-d10	164	9.526	9.528	(1.000)	447723	40.0000		
* 4 Phenanthrene-d10	188	12.812	12.818	(1.000)	754094	40.0000		
* 5 Chrysene-d12	240	19.425	19.437	(1.000)	683605	40.0000		
* 6 Perylene-d12	264	22.780	22.787	(1.000)	603294	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	4.734	4.730	(0.946)	807331	94.2803	47.1 (Q)	
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	4.831	4.832	(0.965)	641503	101.932	51.0	
26 1,3-Dichlorobenzene	146	Compound Not Detected.						

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.023	5.024	(1.003)	478933	66.7416	33.4
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	5.509	5.516	(1.100)	341669	64.0855	32.0
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	6.465	6.472	(0.992)	396442	66.0579	33.0
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	7.400	7.417	(1.135)	566728	92.2463	46.1
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	9.590	9.592	(1.007)	781214	66.2509	33.1
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	9.954	9.960	(1.045)	170113	75.9057	38.0(Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	10.050	10.056	(1.055)	255125	58.0999	29.0
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.					

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	12.561	12.567	(0.980)	187770	72.2505	36.1
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	16.338	16.344	(0.841)	1233423	73.4670	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]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	5.653	5.660	(0.867)	520289	67.3188	33.6
\$ 155 2-Fluorobiphenyl	172	8.244	8.245	(0.865)	901336	68.9046	34.4
\$ 156 Terphenyl-d14	244	16.872	16.873	(0.869)	1015533	76.1474	38.1
\$ 157 Phenol-d5	99	4.724	4.720	(0.943)	787533	92.7426	46.4
\$ 158 2-Fluorophenol	112	3.698	3.694	(0.739)	596077	92.7069	46.4
\$ 159 2,4,6-Tribromophenol	330	11.257	11.264	(0.879)	159863	82.3527	41.2
\$ 186 2-Chlorophenol-d4	132	4.815	4.816	(0.962)	662446	103.863	51.9
\$ 187 1,2-Dichlorobenzene-d4	152	5.210	5.211	(1.041)	285754	69.4643	34.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

680 327

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 320

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXV861AD

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082320

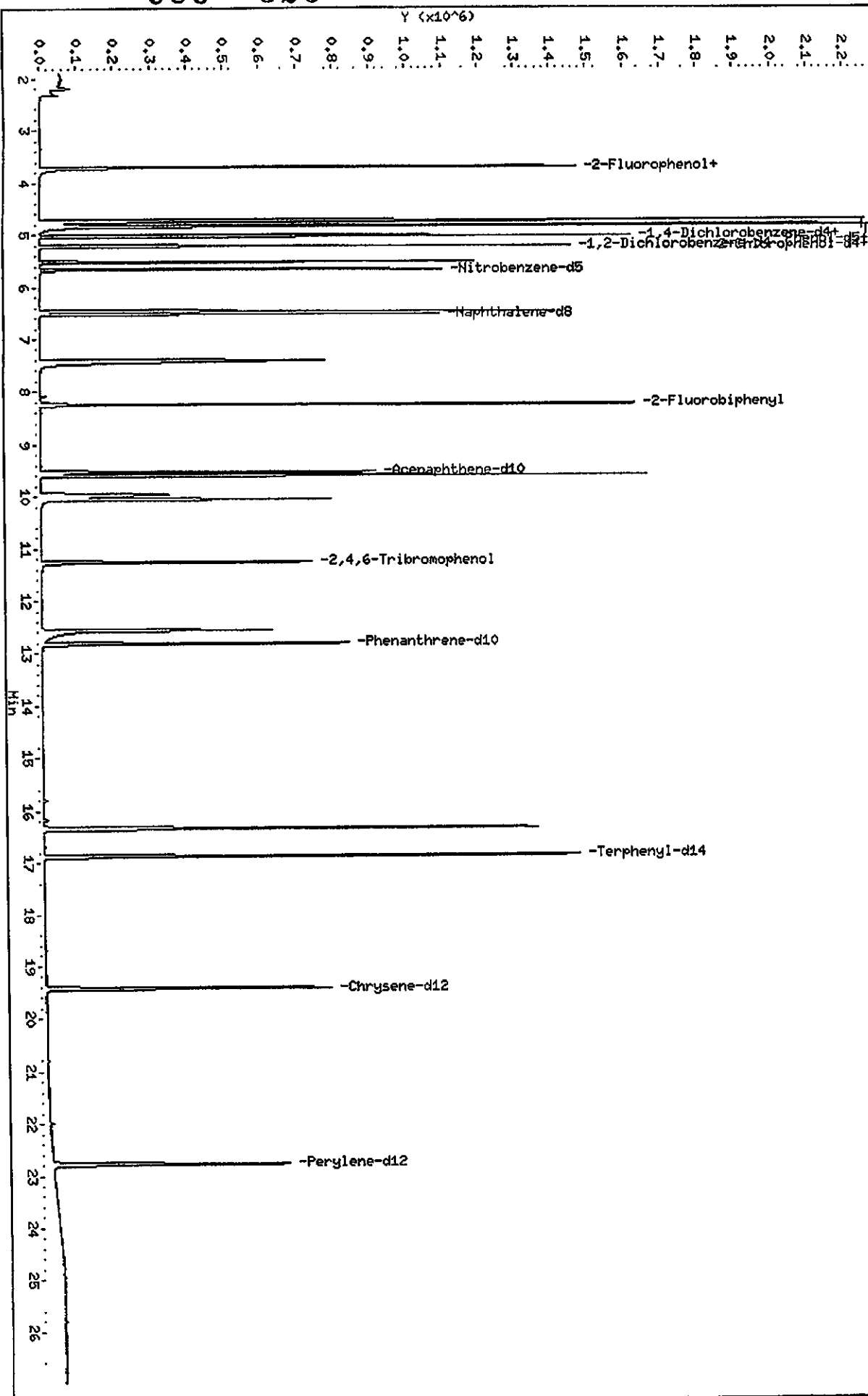
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	37.0	
59-50-7	4-Chloro-3-methylphenol	52.4	
95-57-8	2-Chlorophenol	54.8	
106-46-7	1,4-Dichlorobenzene	35.5	
121-14-2	2,4-Dinitrotoluene	34.2	
100-02-7	4-Nitrophenol	46.2	
621-64-7	N-Nitrosodi-n-propylamine	35.0	
87-86-5	Pentachlorophenol	40.6	
108-95-2	Phenol	51.7	
129-00-0	Pyrene	38.4	
120-82-1	1,2,4-Trichlorobenzene	35.8	

Date File: \\QP1TP002\\chem\\722.1\\032601n.b\\F0326062.D
Date : 27-MAR-2001 02:38
Client ID: INTRA-LAB CHECK
Sample Info: C1020173-LCSD 3/23/01 H2O (1082320)
Volume Injected (uL): 2.0
Column phase: H5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QP1TP002\\chem\\722.1\\032601n.b\\F0326062.D



680 329

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326062.D
Lab Smp Id: DXV861AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 27-MAR-2001 02:38
Operator : 007062 Inst ID: 722.i
Smp Info : C1C220173-LCSD 3/23/01 H2O (1082320)
Misc Info : dxv861ad,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: 15 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten: 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	FINAL
	MASS					(NG)	(ug/L)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.002	5.008	(1.000)	169548	40.0000	
* 2 Naphthalene-d8	136	6.520	6.525	(1.000)	678993	40.0000	
* 3 Acenaphthene-d10	164	9.522	9.528	(1.000)	381931	40.0000	
* 4 Phenanthrene-d10	188	12.813	12.818	(1.000)	684638	40.0000	
* 5 Chrysene-d12	240	19.426	19.437	(1.000)	693774	40.0000	
* 6 Perylene-d12	264	22.781	22.787	(1.000)	636422	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	4.730	4.730	(0.946)	760121	103.404	51.7(Q)
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
24 2-Chlorophenol	128	4.826	4.832	(0.965)	591857	109.551	54.8
26 1,3-Dichlorobenzene	146	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.024	5.024	(1.004)	437845	71.0768	35.5
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	5.510	5.516	(1.101)	320380	70.0011	35.0
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	6.466	6.472	(0.992)	361622	71.6967	35.8
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	7.396	7.417	(1.134)	541388	104.853	52.4
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	9.591	9.592	(1.007)	745451	74.1080	37.0
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	9.955	9.960	(1.045)	176766	92.4613	46.2(Q)
86 Dibenzofuran	168	Compound Not Detected					
87 2,4-Dinitrotoluene	165	10.045	10.056	(1.055)	256015	68.3459	34.2
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.					

680 331

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	12.562	12.567	(0.980)	191766	81.2738	40.6
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	16.344	16.344	(0.841)	1307213	76 7209	38.4
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	5.654	5.660	(0.867)	469556	72.2901	36.1
\$ 155 2-Fluorobiphenyl	172	8.245	8.245	(0.866)	826044	74.0268	37.0
\$ 156 Terphenyl-d14	244	16.873	16.873	(0.869)	1075422	79.4561	39.7
\$ 157 Phenol-d5	99	4.719	4.720	(0.943)	721889	99.0299	49.5
\$ 158 2-Fluorophenol	112	3.699	3.694	(0.739)	543649	98.4949	49.2
\$ 159 2,4,6-Tribromophenol	330	11.258	11.264	(0.879)	151232	85.8100	42.9
\$ 186 2-Chlorophenol-d4	132	4.810	4.816	(0.962)	600128	109.608	54.8
\$ 187 1,2-Dichlorobenzene-d4	152	5.211	5.211	(1.042)	255593	72.3776	36.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

680 332

GC/MS SEMIVOLATILE
MISCELLANEOUS

Continuous L-L Extraction Worksheet

Bat. 1082320

STL - Pittsburgh
Logbook ID: OP44

[illegible]

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	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

680 335

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

WJ
3/27/01

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	ABC 2	F03270C2	72EARLY	SSTD050 (25ppb) 77-15-13
4)	Sample	ABC 24	F03270C3	72EARLY	SSTD020 (10ppb) 77-11-1
5)	Sample	ABC 25	F03270C4	72EARLY	SSTD080 (40ppb) 77-11-3
6)	Sample	ABC 26	F03270C5	72EARLY	SSTD120 (60ppb) 77-11-4
7)	Sample	ABC 27	F03270C6	72EARLY	SSTD160 (80ppb) 77-11-5
8)	Sample	ABC 1	F03270C7	72EARLY	STDVER50 (25ppb) 77-13-15
9)	Sample	100	F03090B3	72EARLY	Clean out Blank
10)	Sample	100	F03090B4	72EARLY	Clean out Blank

WJ
3/27/01

Bytes Needed: 554612 Space on drive D: 1023932928

Sequence Verification Done!

680 336

PSR024 3/23/01 6:28.16 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY TROUTS

METHOD QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
14C,CLP1	DXRH2-1-AC	___	322466	399411	I-49-QL	C1C220173	001		WATER	0	13
14C,CLP1	DXRKF-1-AN	___	322467	399411	I-49-QL	C1C220173	002		WATER	0	13

RELINQUISHED BY

RECEIVED BY

DATE/TIME

dumped empty jar

A

B Trout

3/23/2001 08:50

B Trout

A

3/23/2001 13:30

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

Instrument Name: GC/MS Instrument #1

680 337

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

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int 8270

Operator: 007062

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

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

3/26/01(N)
VVP

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	2055 1	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	2058	F0326065	72EARLY	I1C140249-023D 3/22/01 soil (108
15) Sample	2059	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!

(C1C220173)

680 338

PESTICIDE DATA

680 339

PESTICIDE
QC SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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	DF/24-B/1080	0*	198*	60	74			2
02	DF/24-B/1080	0*	204*	66	73			2
03	PBLK4105	81	86	84	91			0
04	LCS4105	81	86	84	92			0
05	LCD4105	82	86	84	91			0
06								
07								
08								
09								
10								
11								
12								
13								
14								
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17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITSS1 (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

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2E1AC

BATCH: 1084105

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.206	83	49- 137	
Dieldrin	0.500	0.448	90	68- 130	
Heptachlor	0.250	0.202	81	57- 124	
Aldrin	0.250	0.200	80	62- 120	
Endrin	0.500	0.448	90	46- 137	
4,4'-DDT	0.500	0.443	89	60- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

680 342

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2E1AD

BATCH: 1084105

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.215	86	49- 137	
Heptachlor	0.250	0.211	84	57- 124	
Aldrin	0.250	0.210	84	62- 120	
Dieldrin	0.500	0.454	91	68- 130	
Endrin	0.500	0.458	92	46- 137	
4,4'-DDT	0.500	0.456	91	60- 140	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: ____0____ out of ____6____ outside limits

COMMENTS:

FORM III

4C
PESTICIDE METHOD BLANK SUMMARY

680 343

EPA SAMPLE NO.

PBLK4105

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXX2E1AA

Lab File ID: D-A3189

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 03/25/01

Date Analyzed (1): 03/26/01

Date Analyzed (2): 03/26/01

Time Analyzed (1): 2118

Time Analyzed (2): 2118

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	DF/24-B/1080	DXRH21AD	03/26/01	03/26/01
02	DF/24-B/1080	DXRKFLAP	03/26/01	03/26/01
03	LCS4105	DXX2E1AC	03/26/01	03/26/01
04	LCD4105	DXX2E1AD	03/26/01	03/26/01
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

680 344

PESTICIDE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AD

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.14	P
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.75	P
319-86-8	delta-BHC	0.31	
58-89-9	gamma-BHC (Lindane)	0.065	P
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.16	P
72-54-8	4,4'-DDD	0.046	J P
72-55-9	4,4'-DDE	0.078	P
50-29-3	4,4'-DDT	0.041	J P
60-57-1	Dieldrin	0.10	P
959-98-8	Endosulfan I	0.20	P
33213-65-9	Endosulfan II	0.025	J P
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.16	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-A3185.d
 Report Date: 27-Mar-2001 13:17

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3185.d
 Lab Smp Id: DXRH21AD Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 26-MAR-2001 19:26
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXRH21AD, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-1
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 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				Compound Not Detected.		
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)	8.780	8.766	0.014	12727	0.00654	0.06544 (M)
10 beta-BHC	9.706	9.733	-0.027	76148	0.07526	0.7526 (M)
8 Chlordane				Compound Not Detected.		
9 Heptachlor				Compound Not Detected.		
11 delta-BHC	10.733	10.700	0.033	56911	0.03361	0.3361 (M)
13 Aldrin	11.000	10.993	0.007	20968	0.01408	0.1408 (M)
17 Heptachlor epoxide	12.846	12.880	-0.034	41182	0.02135	0.2135 (M)
18 gamma-Chlordane	13.293	13.300	-0.007	33795	0.01605	0.1605 (M)
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I	13.613	13.626	-0.013	39931	0.01973	0.1973 (M)
22 4,4'-DDE	14.066	14.060	0.006	17705	0.00780	0.07802 (M)
23 Dieldrin	14.226	14.226	0.000	22395	0.01004	0.1004 (M)
26 Endrin				Compound Not Detected.		

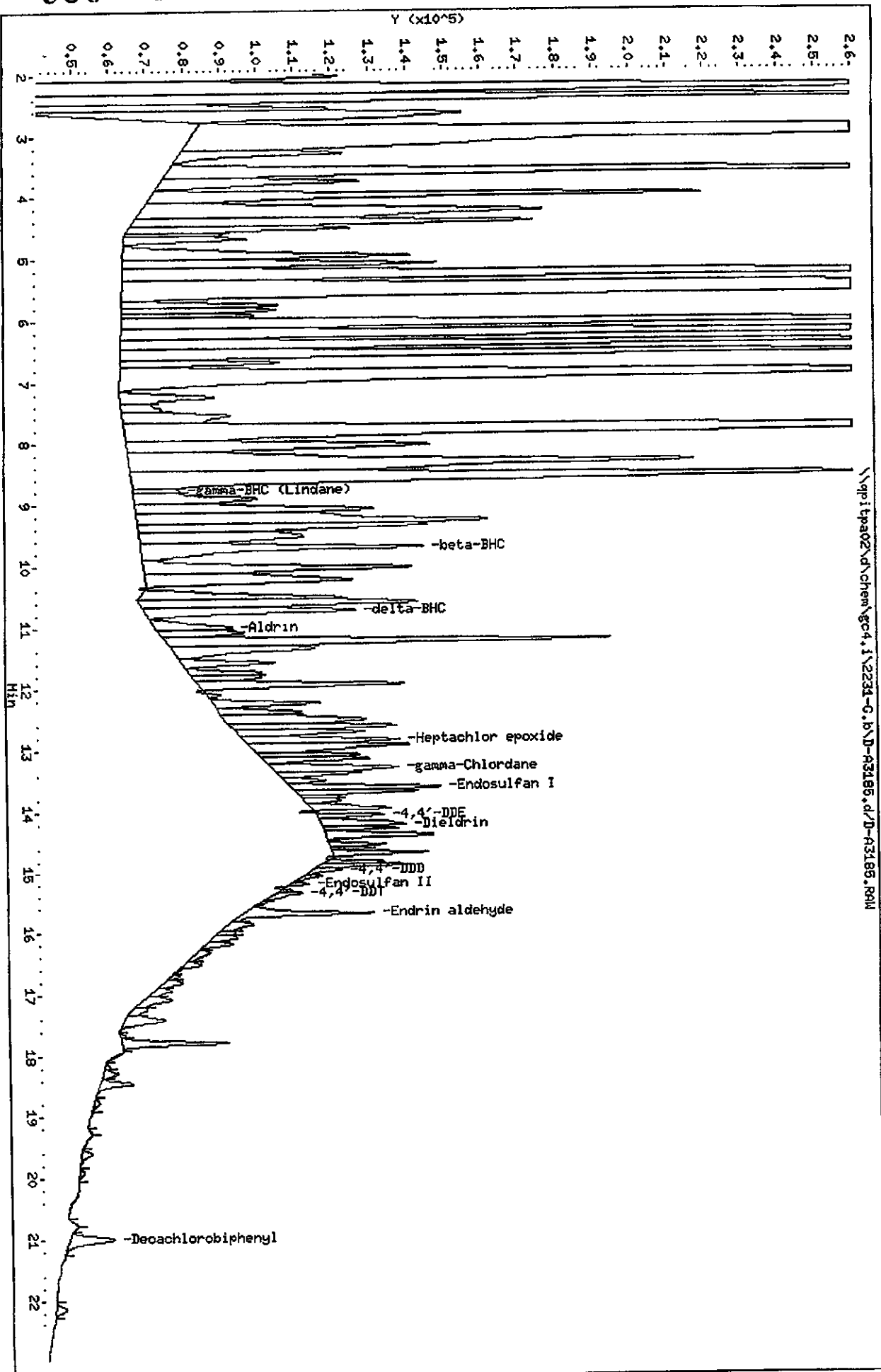
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	14.960	14.973	-0.013	8036	0 00460	0.04597 (aM)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.186	15 153	0.033	5002	0.00250	0.02499 (aM)
32 4,4'-DDT	15.353	15.393	-0.040	7146	0.00408	0.04078 (aM)
33 Endrin aldehyde	15.693	15.646	0.047	35123	0 02289	0.2289 (M)
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	12180	0.01204	0.1204

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).
- M - Compound response manually integrated.

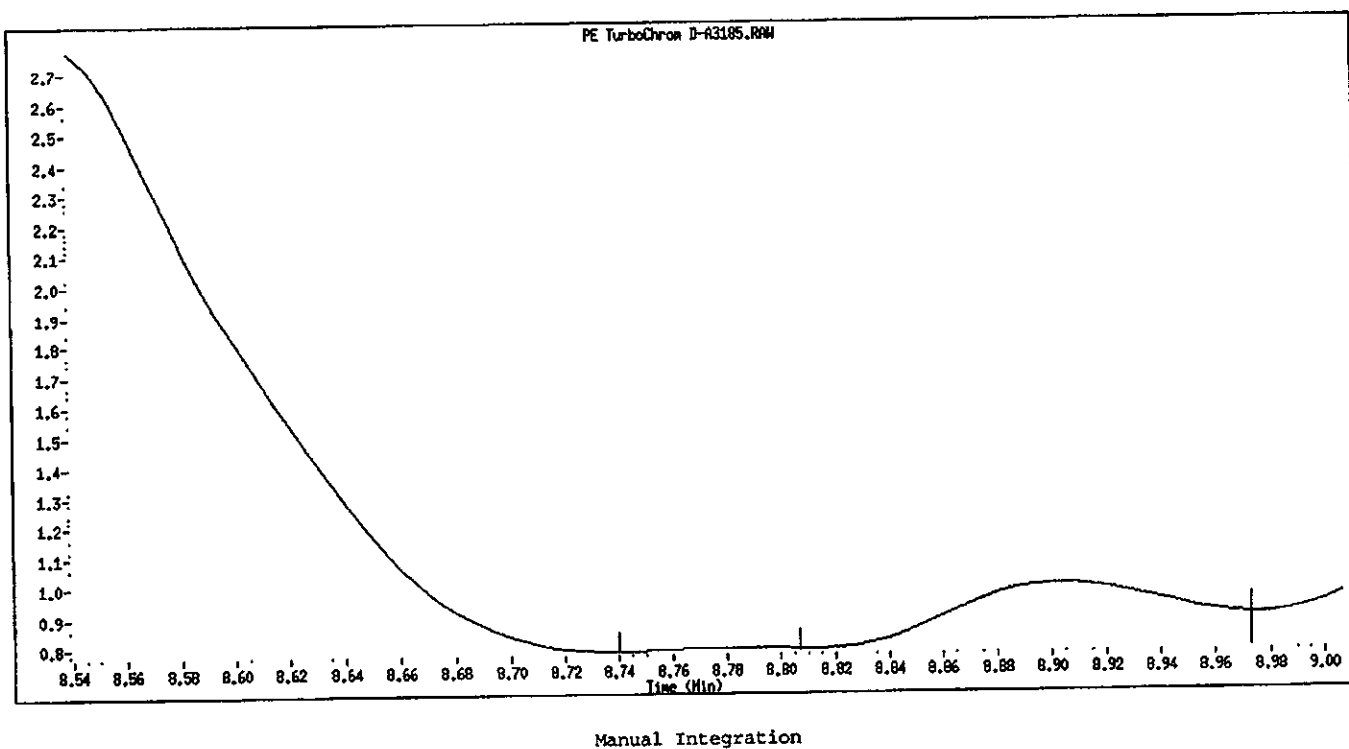
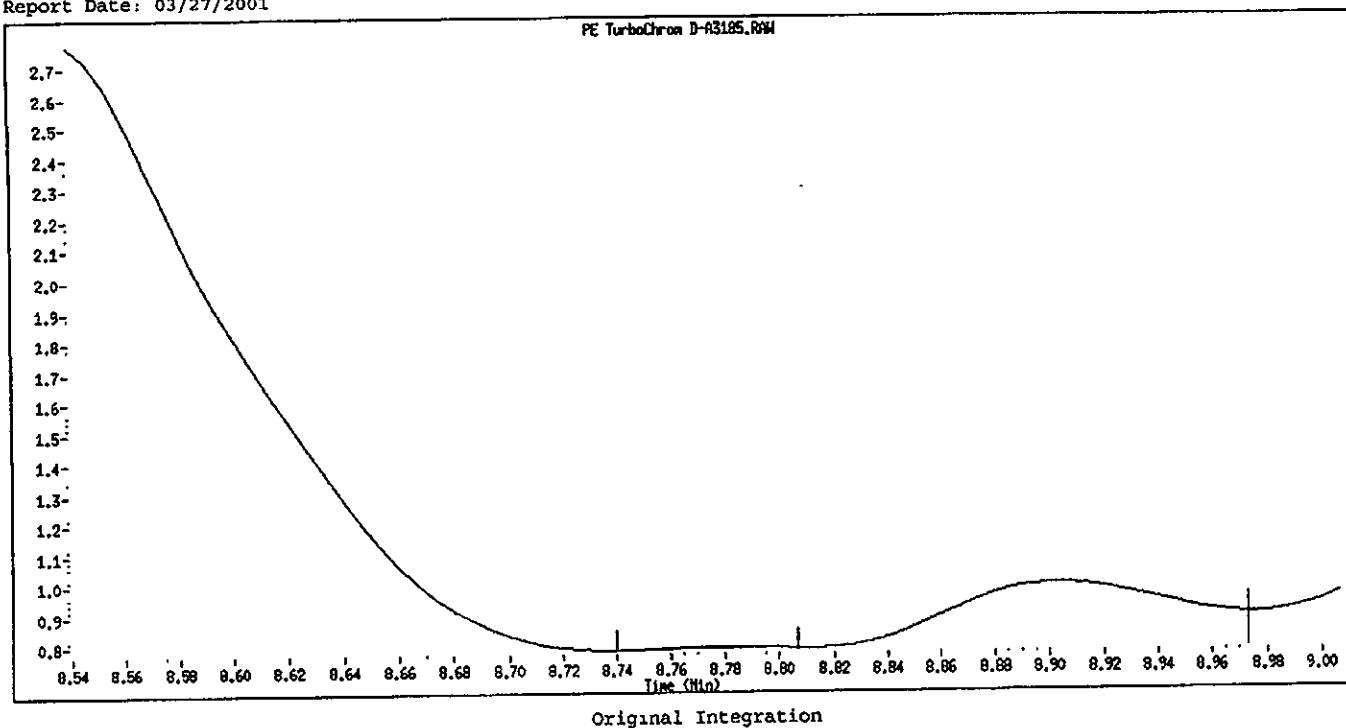
Data File: \\apitpa02\chem\gc4.1\2231-G.b.D-A3185.d
Date: 26-MAR-2001 19:26
Client ID: JF/24-B/1080/IDM/00
Sample Info: DMR216D,2231-G.b.,PEST,sub,,,
Volume Injected (uL): 1.0
Column phase: RTX-50

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



Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19:26
Instrument ID: gc4.i
Client ID: DF/24-B/1080/IDW/00
Compound Name: gamma-BHC (Lindane)
CAS #: 58-89-9
Report Date: 03/27/2001

680 349



Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

680 350

Data File Name. D-A3185 d

Inj. Date and Time. 26-MAR-2001 19:26

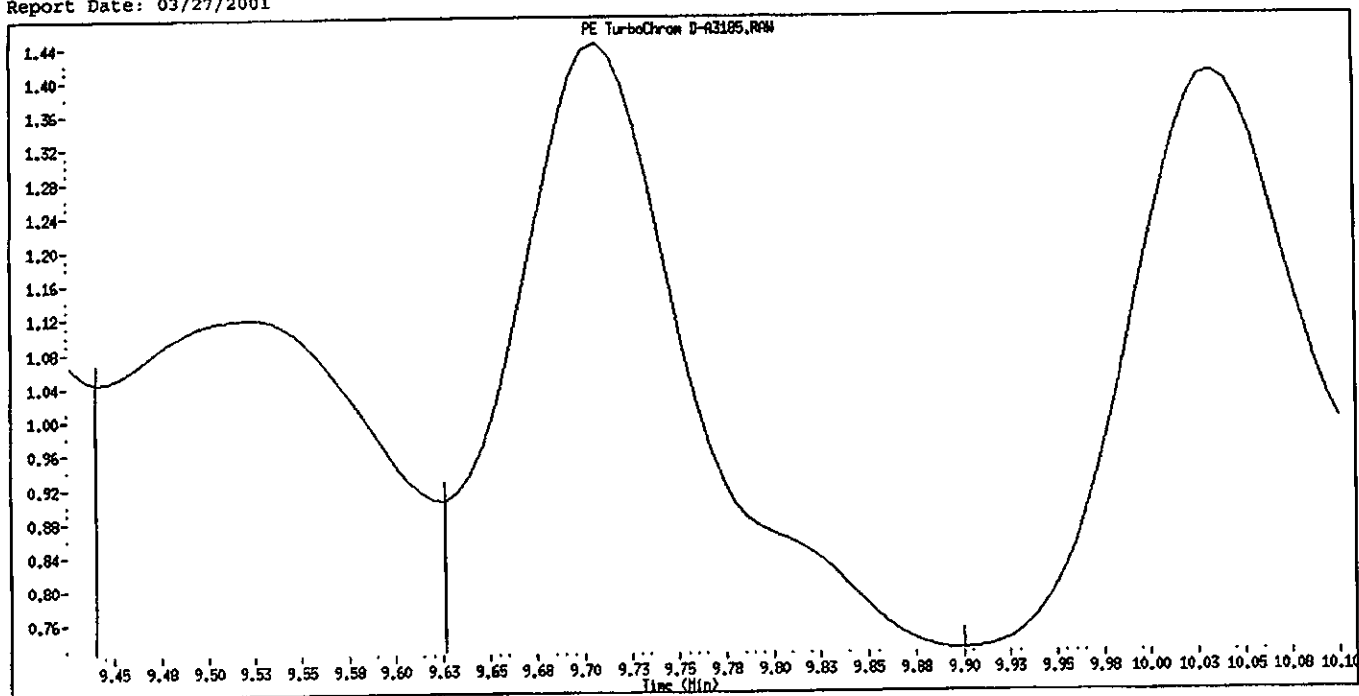
Instrument ID. gc4.1

Client ID. DF/24-B/1080/IDW/00

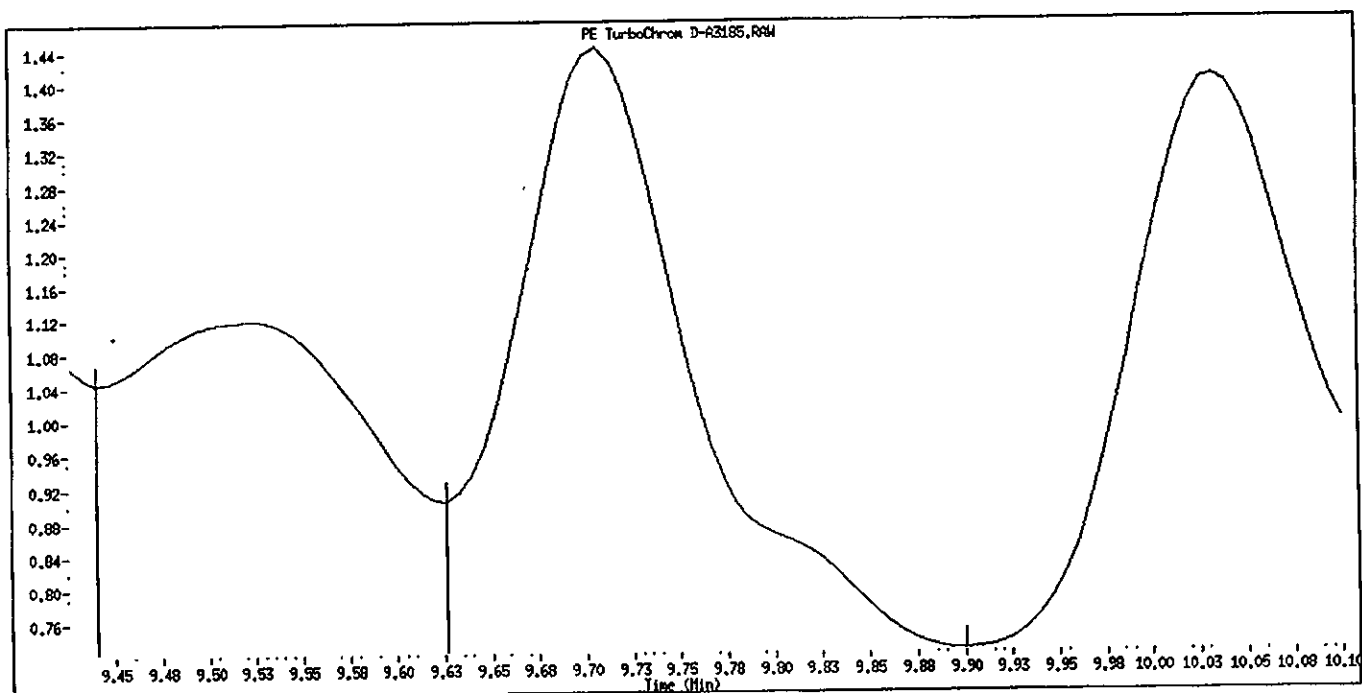
Compound Name. beta-BHC

CAS #. 319-85-7

Report Date: 03/27/2001



Original Integration



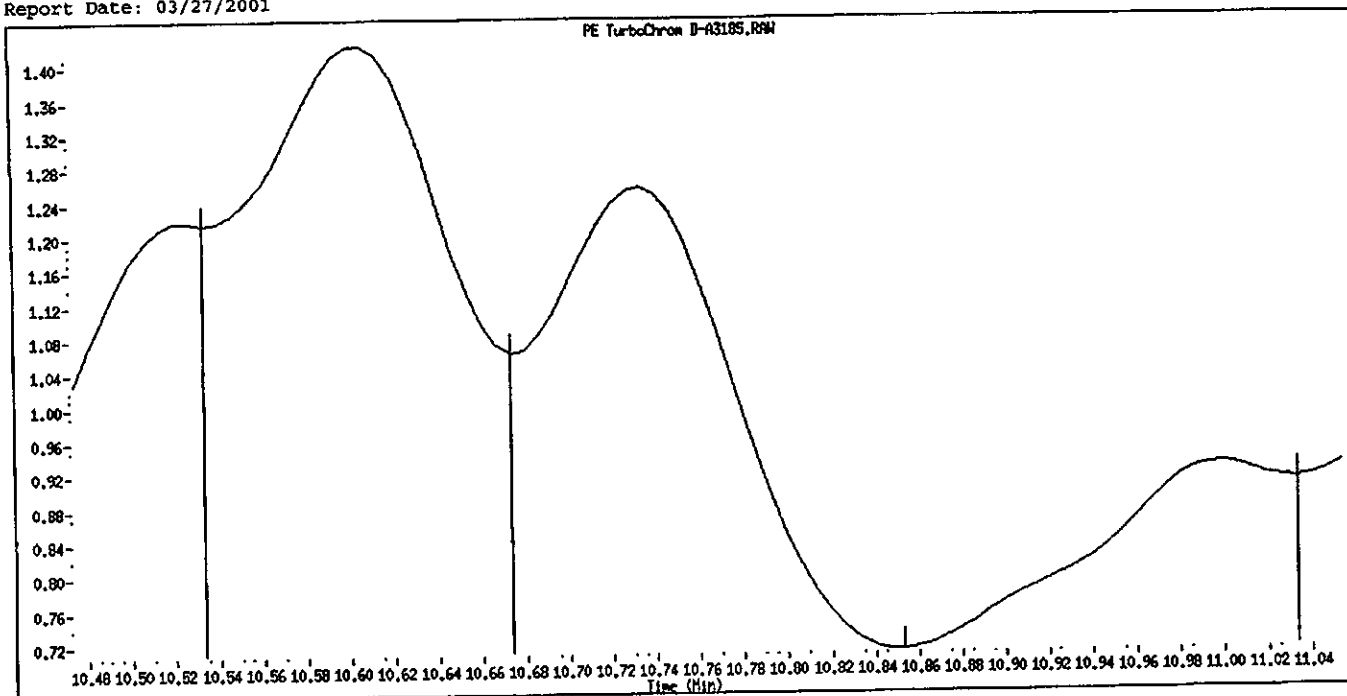
Manual Integration

Manually Integrated By: MatkoL

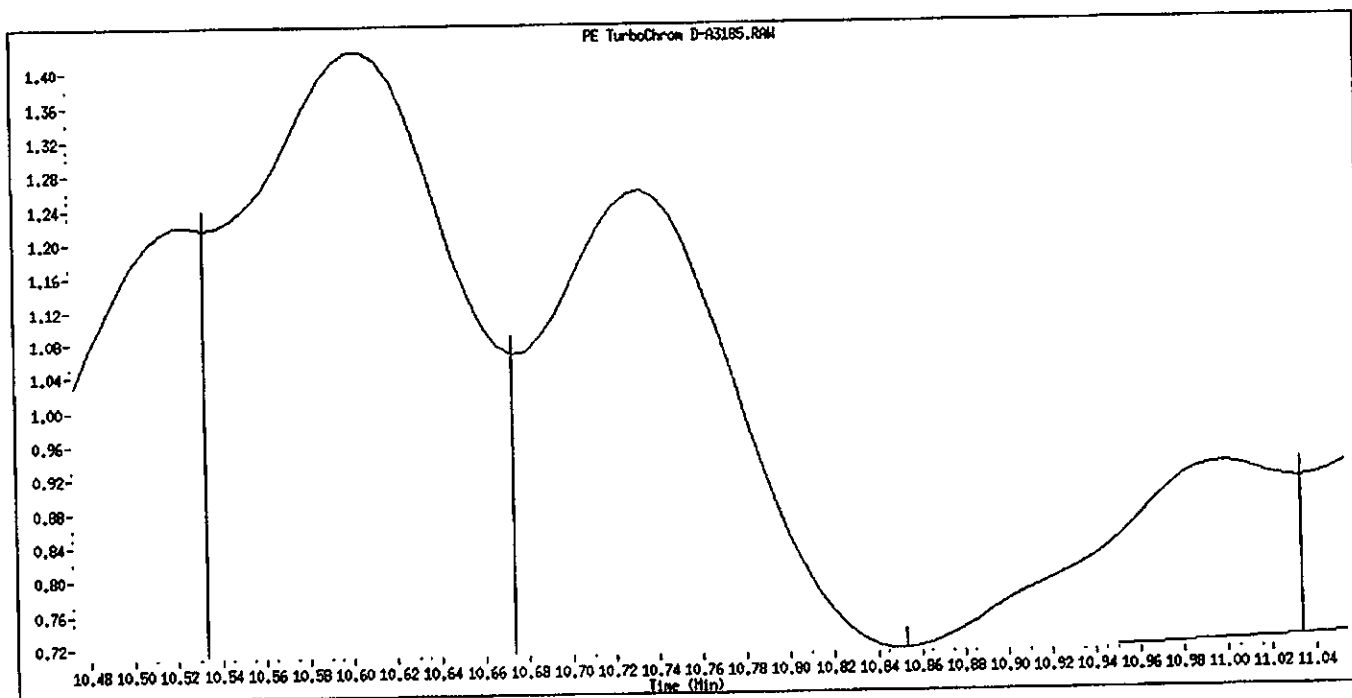
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19.26
Instrument ID: gc4.1
Client ID: DF/24-B/1080/IDW/00
Compound Name: delta-BHC
CAS #: 319-86-8
Report Date: 03/27/2001

680 351



Original Integration

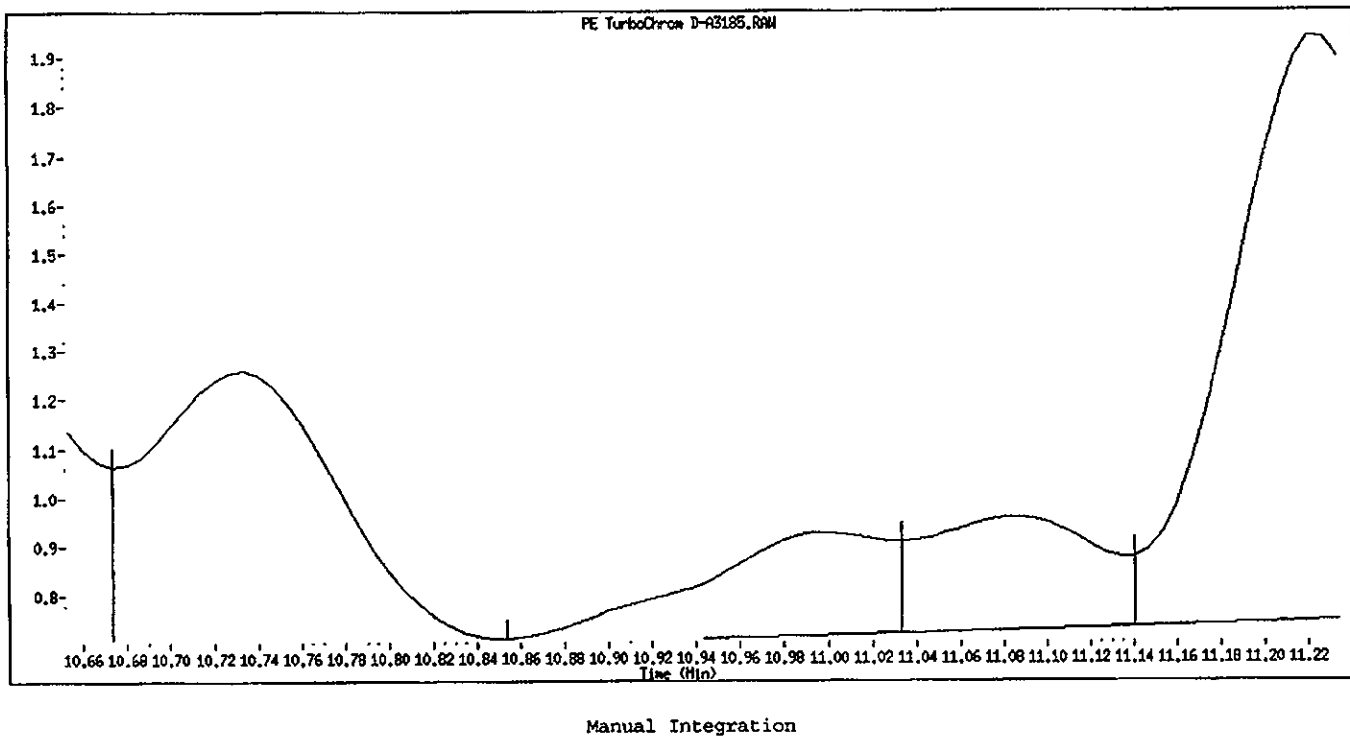
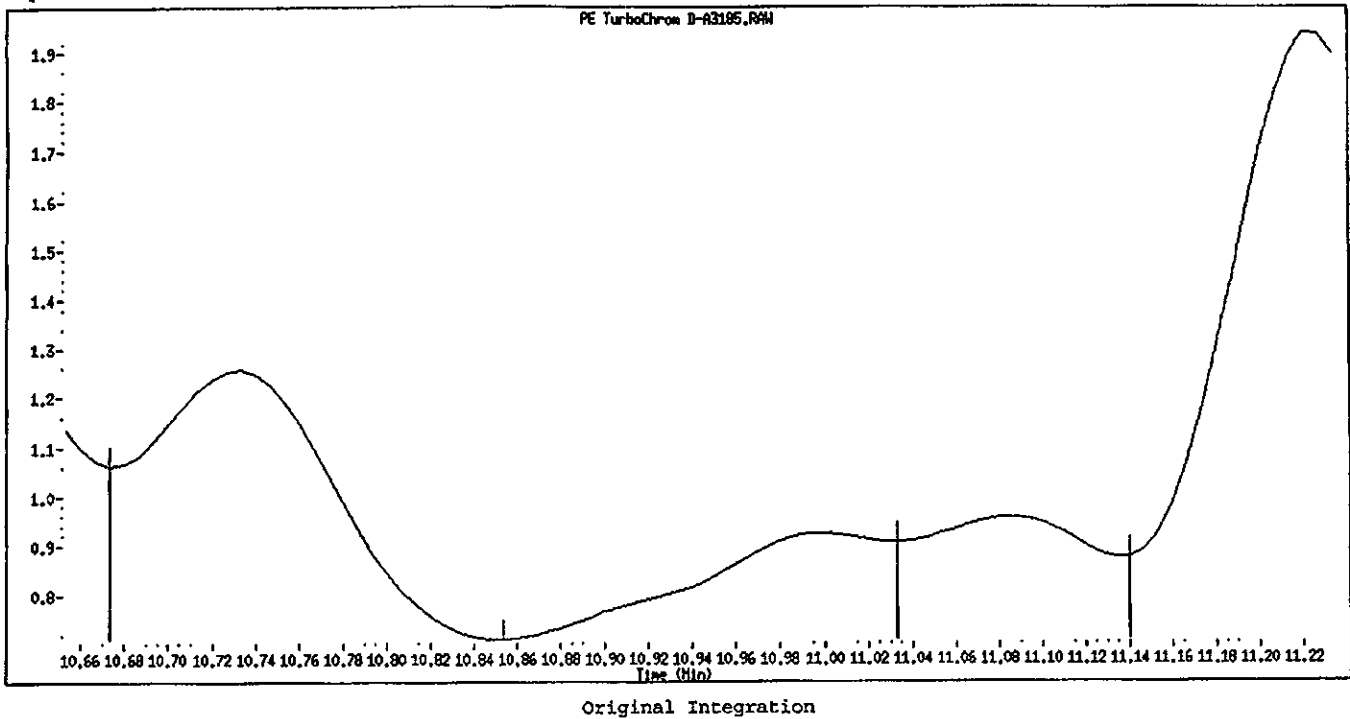


Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

680 352

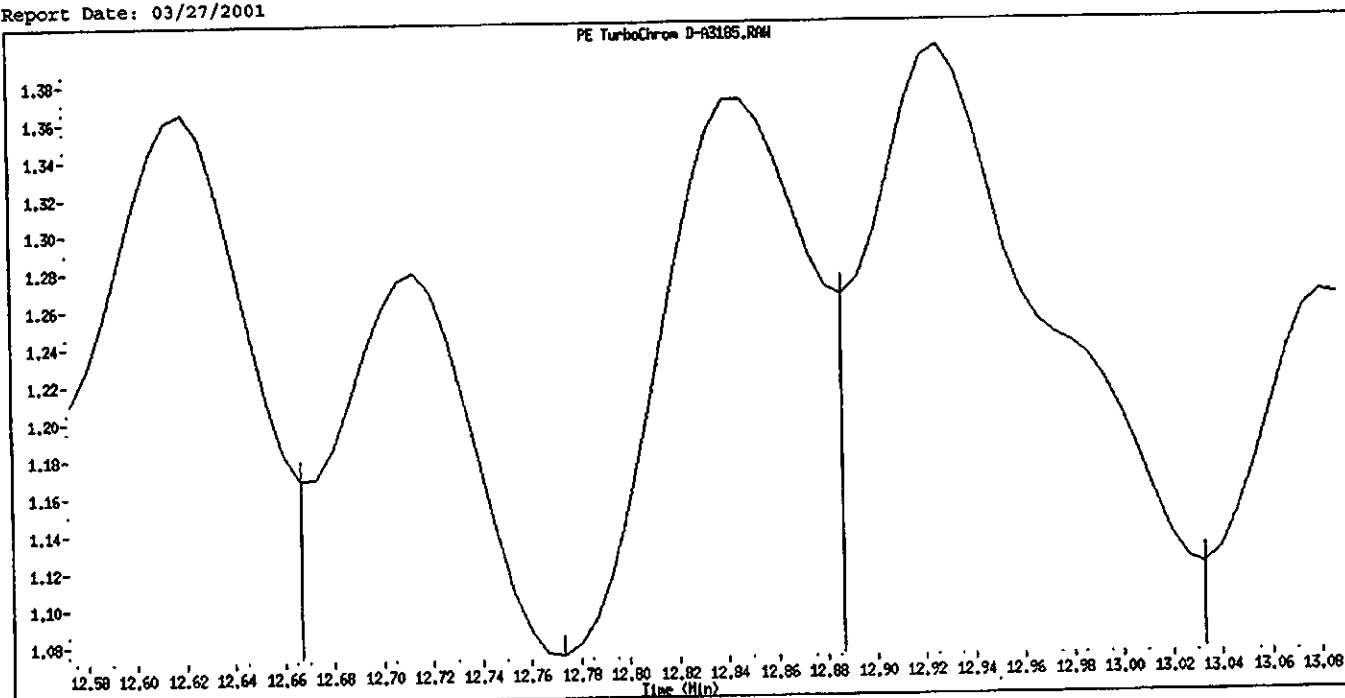
Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19 26
Instrument ID: gc4.i
Client ID: DF/24-B/1080/IDW/00
Compound Name: Aldrin
CAS #: 309-00-2
Report Date: 03/27/2001



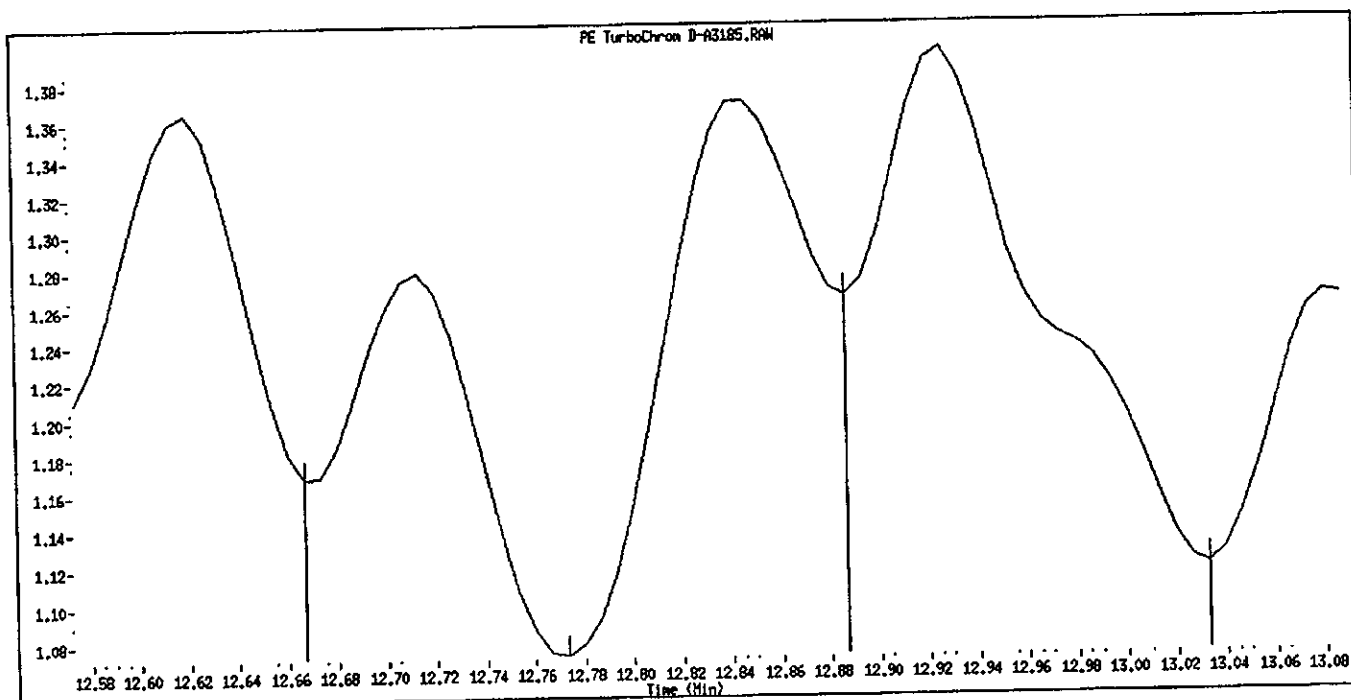
Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19.26
Instrument ID: gc4.1
Client ID: DP/24-B/1080/IDW/00
Compound Name: Heptachlor epoxide
CAS #: 1024-57-3
Report Date: 03/27/2001

680 353



Original Integration



Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d

Inj. Date and Time: 26-MAR-2001 19 26

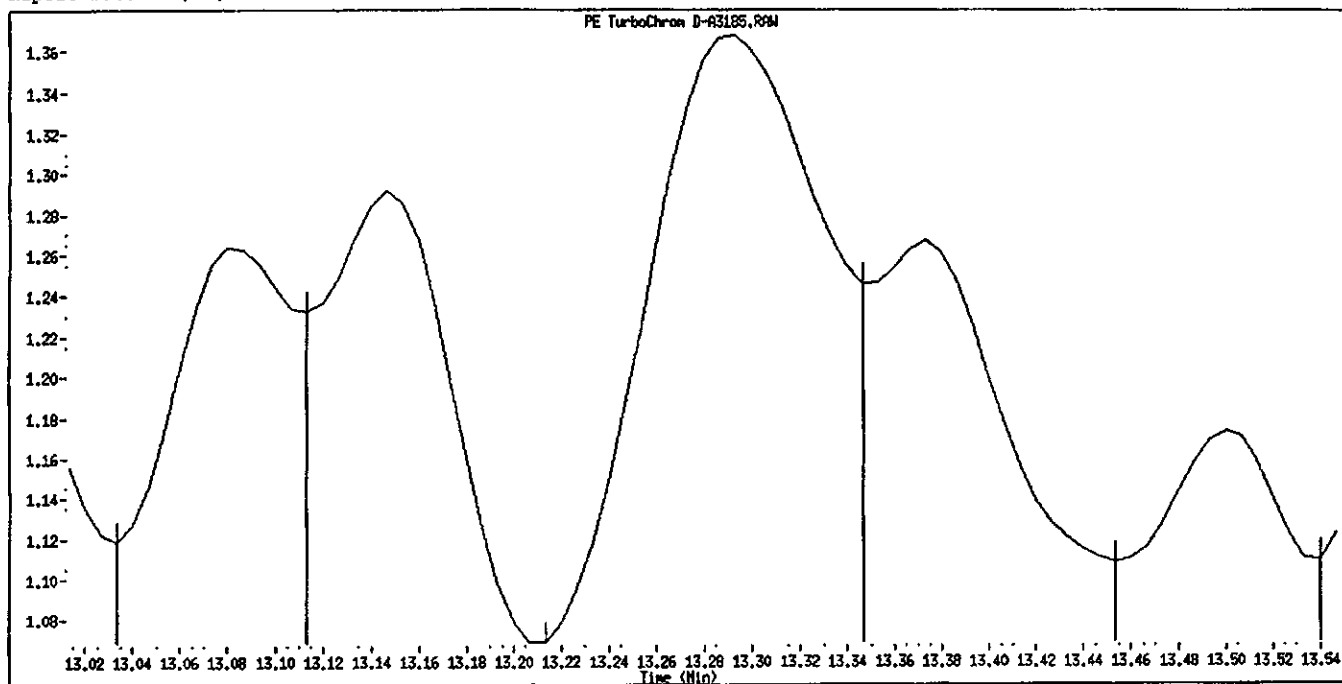
Instrument ID: gc4 1

Client ID: DF/24-B/1080/IDW/00

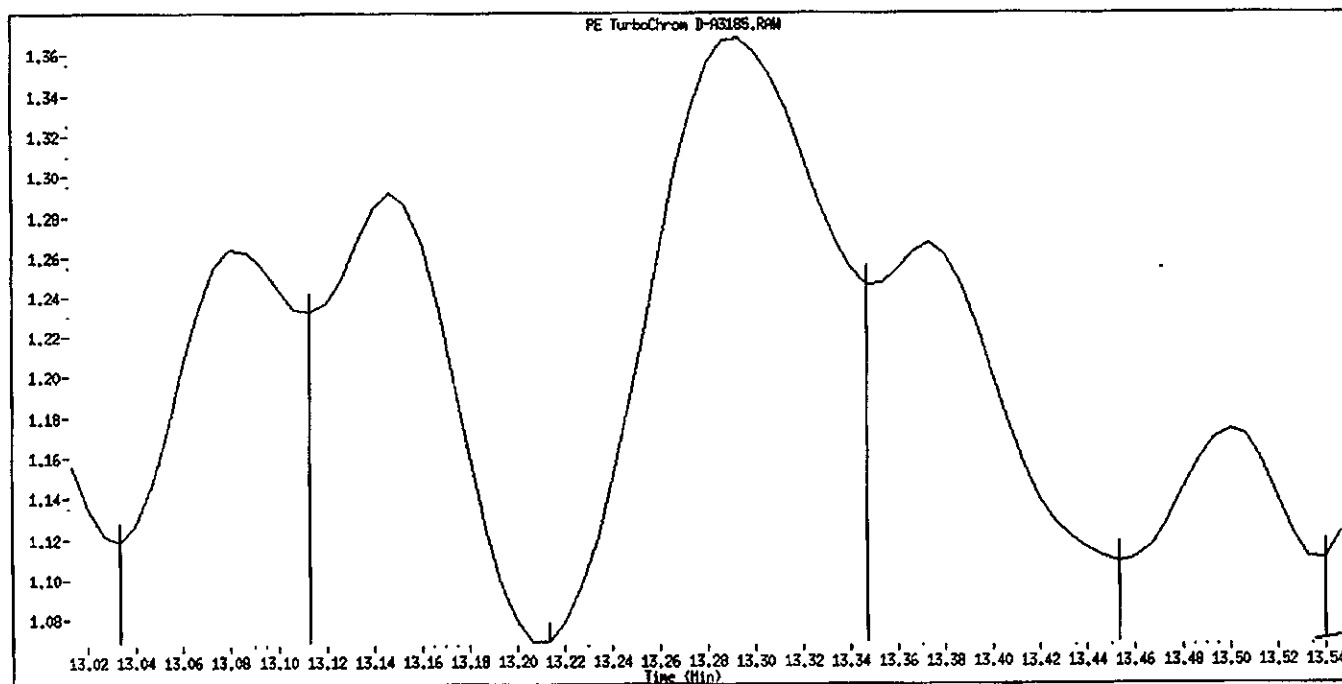
Compound Name: gamma-Chlordane

CAS #: 5103-74-2

Report Date: 03/27/2001



Original Integration



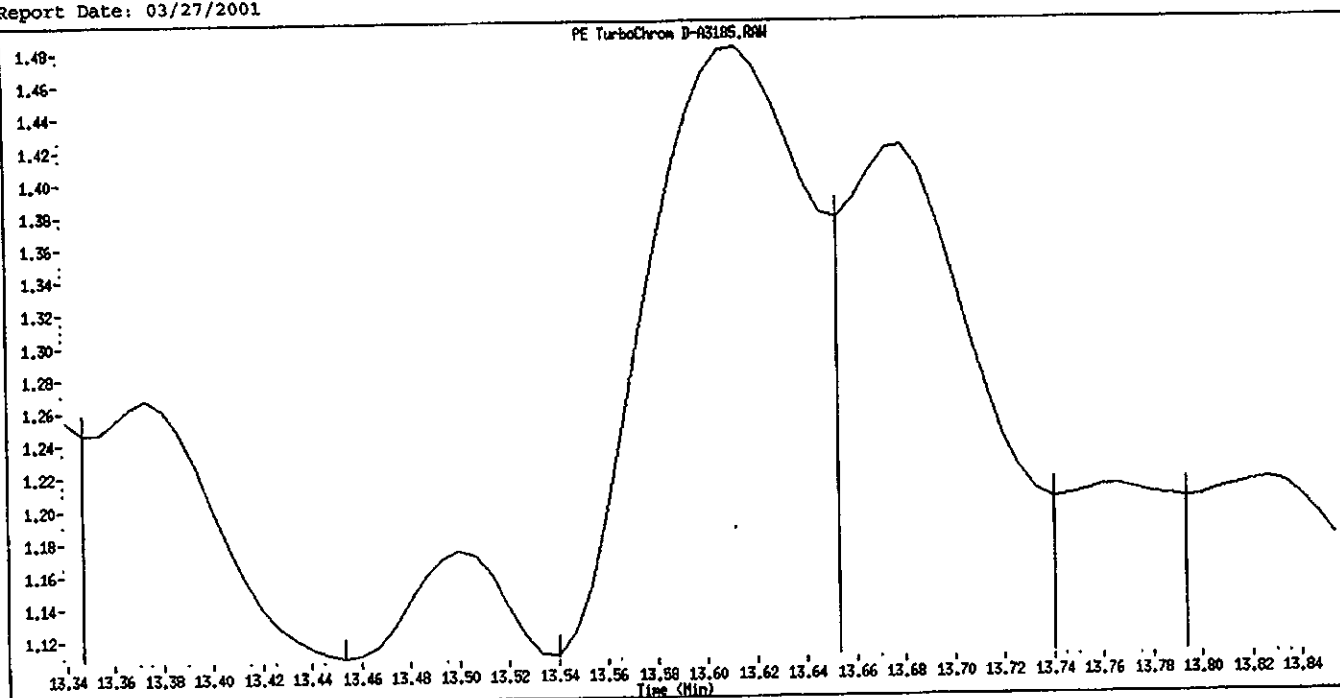
Manual Integration

Manually Integrated By: MatkoL

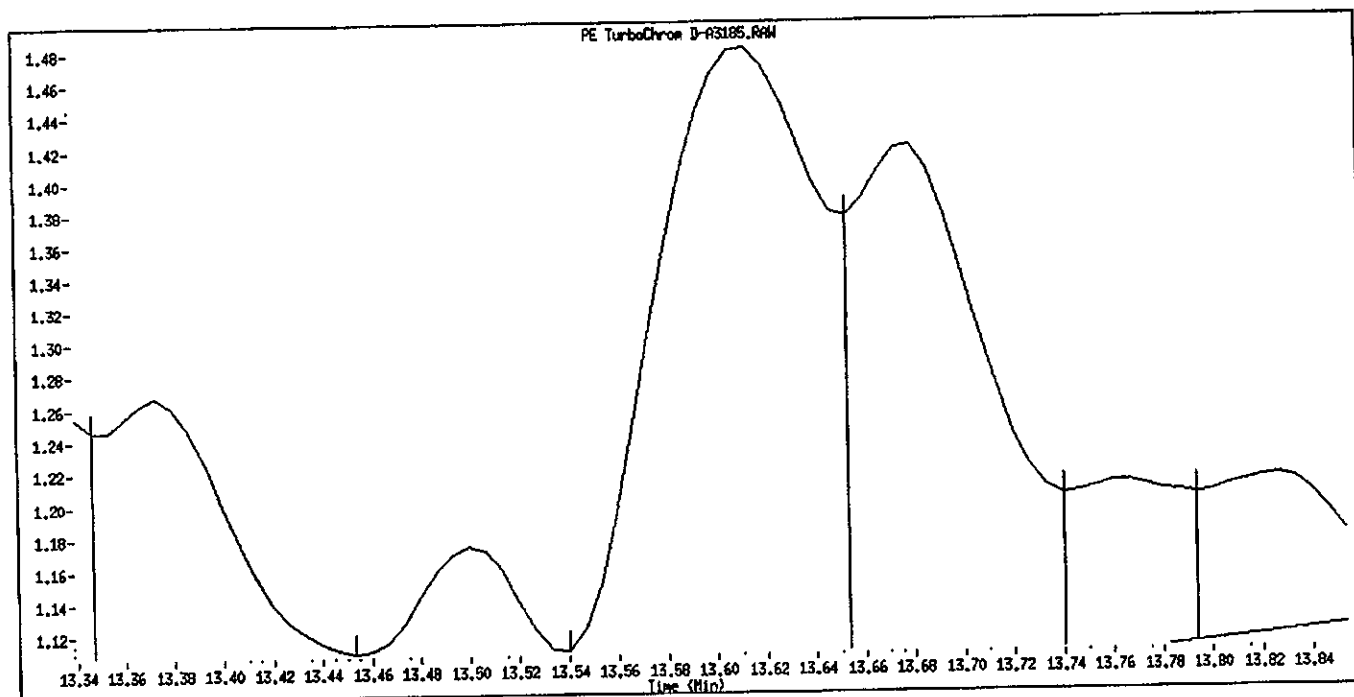
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19:26
Instrument ID: gc4.i
Client ID: DF/24-B/1080/IDW/00
Compound Name: Endosulfan I
CAS #: 959-98-8
Report Date: 03/27/2001

680 355



Original Integration



Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d

680 356

Inj. Date and Time: 26-MAR-2001 19:26

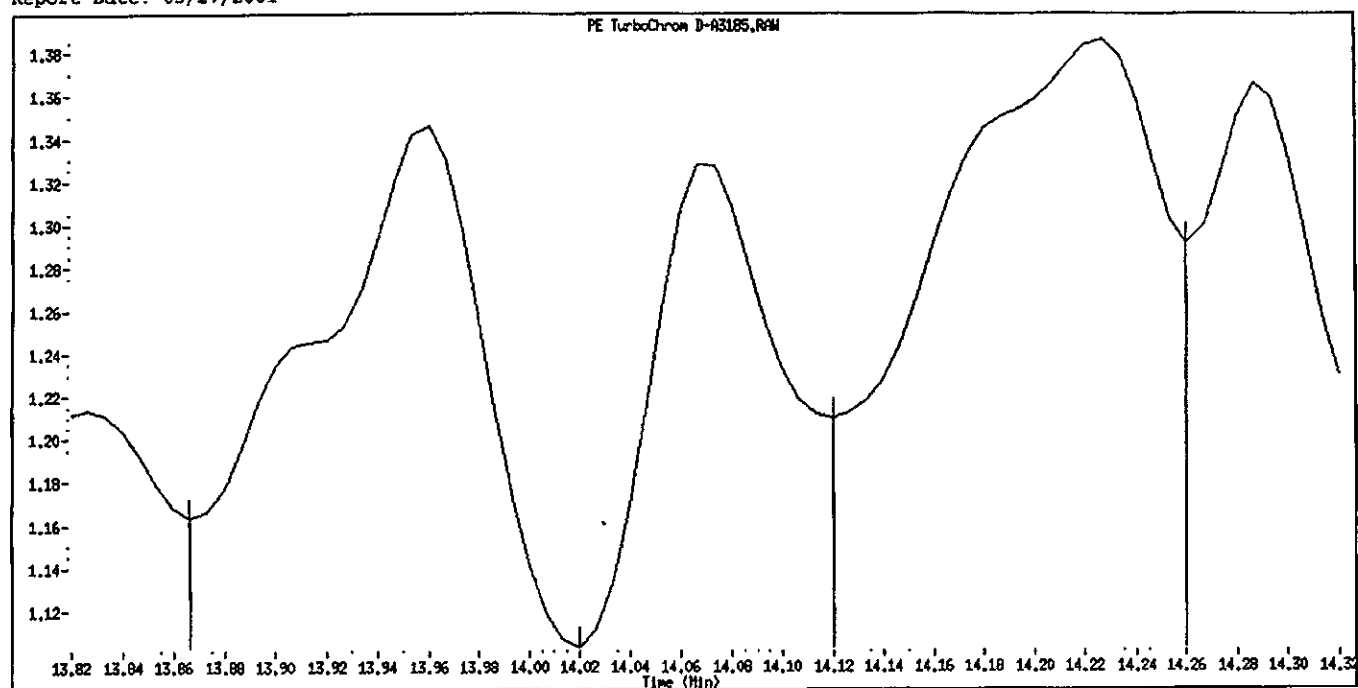
Instrument ID: gc4.i

Client ID: DF/24-B/1080/IDW/00

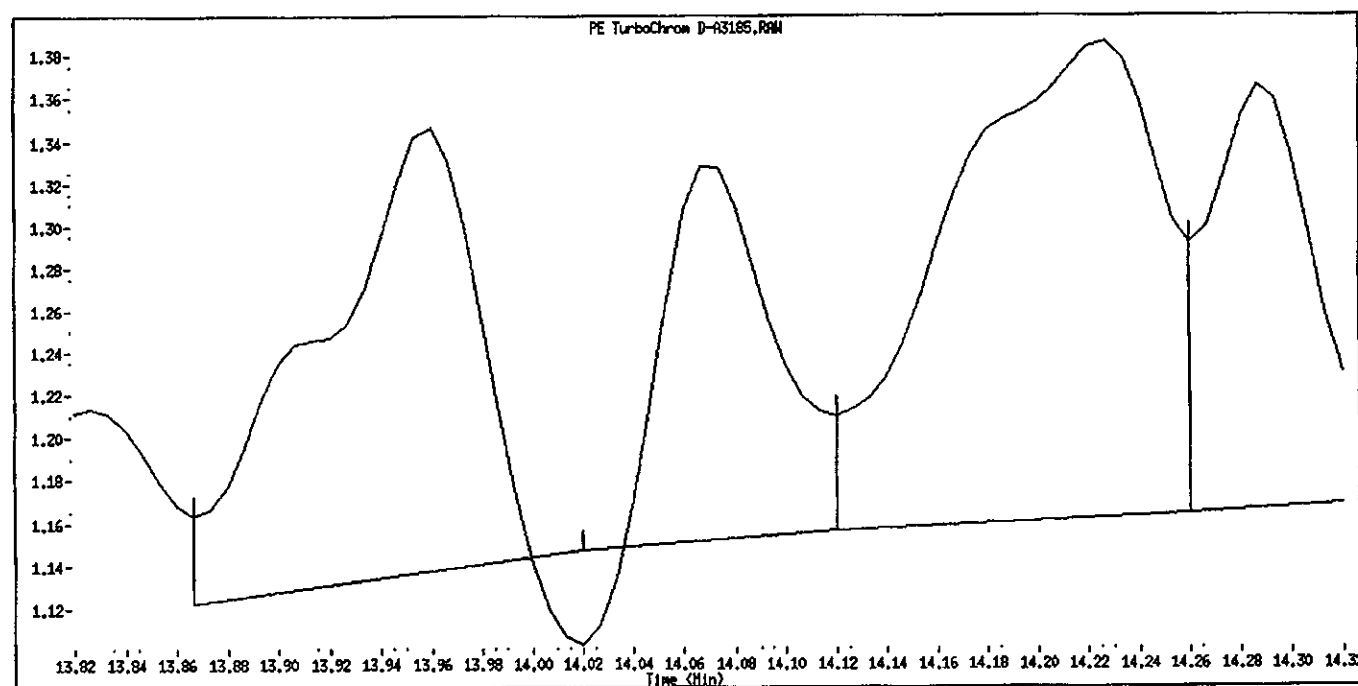
Compound Name: 4,4'-DDE

CAS #: 72-55-9

Report Date: 03/27/2001



Original Integration



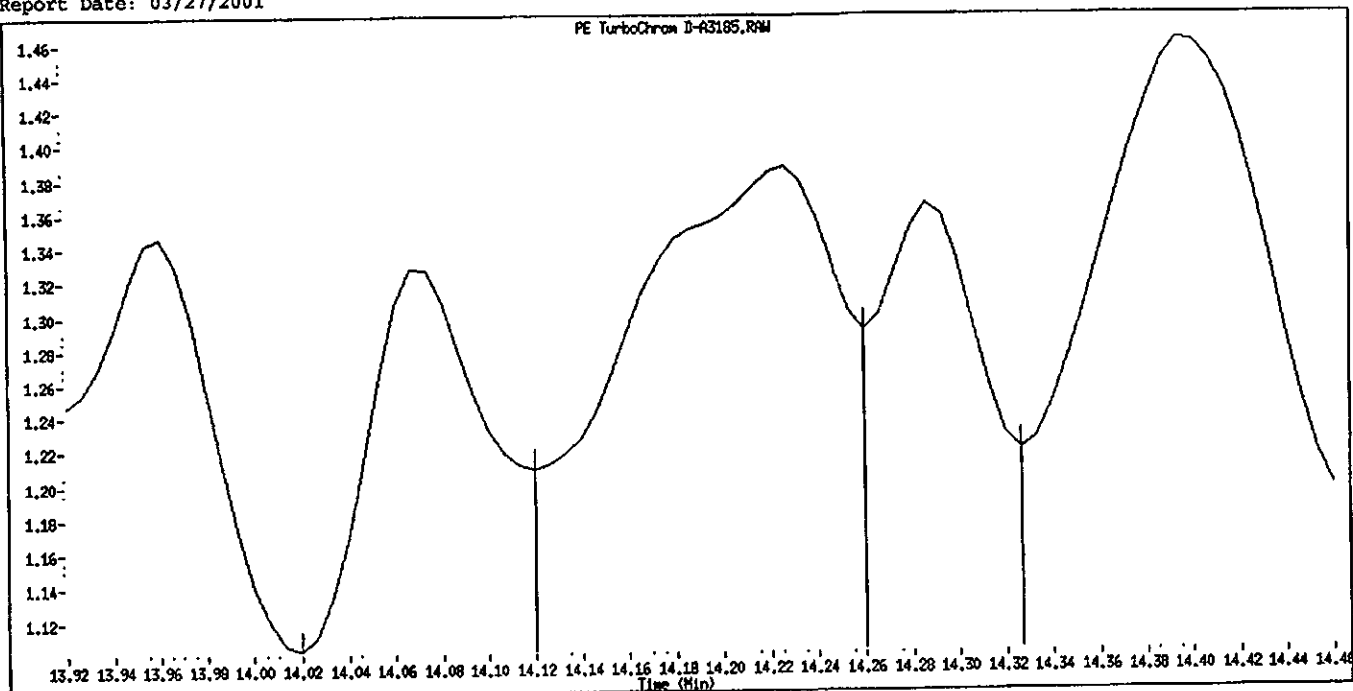
Manual Integration

Manually Integrated By MatkoL

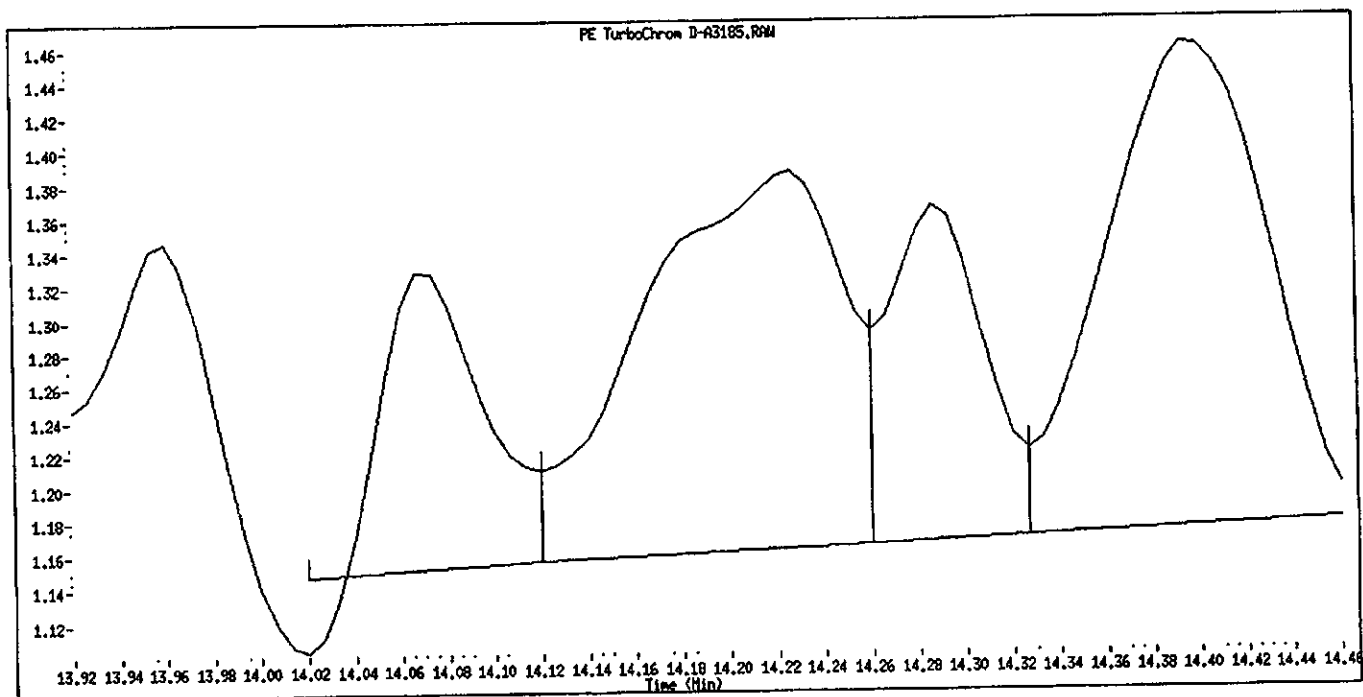
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d
Inj. Date and Time: 26-MAR-2001 19:26
Instrument ID: gc4.1
Client ID: DF/24-B/1080/IDW/00
Compound Name: Dieldrin
CAS #: 60-57-1
Report Date: 03/27/2001

680 357



Original Integration



Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185.d

680 358

Inj. Date and Time: 26-MAR-2001 19.26

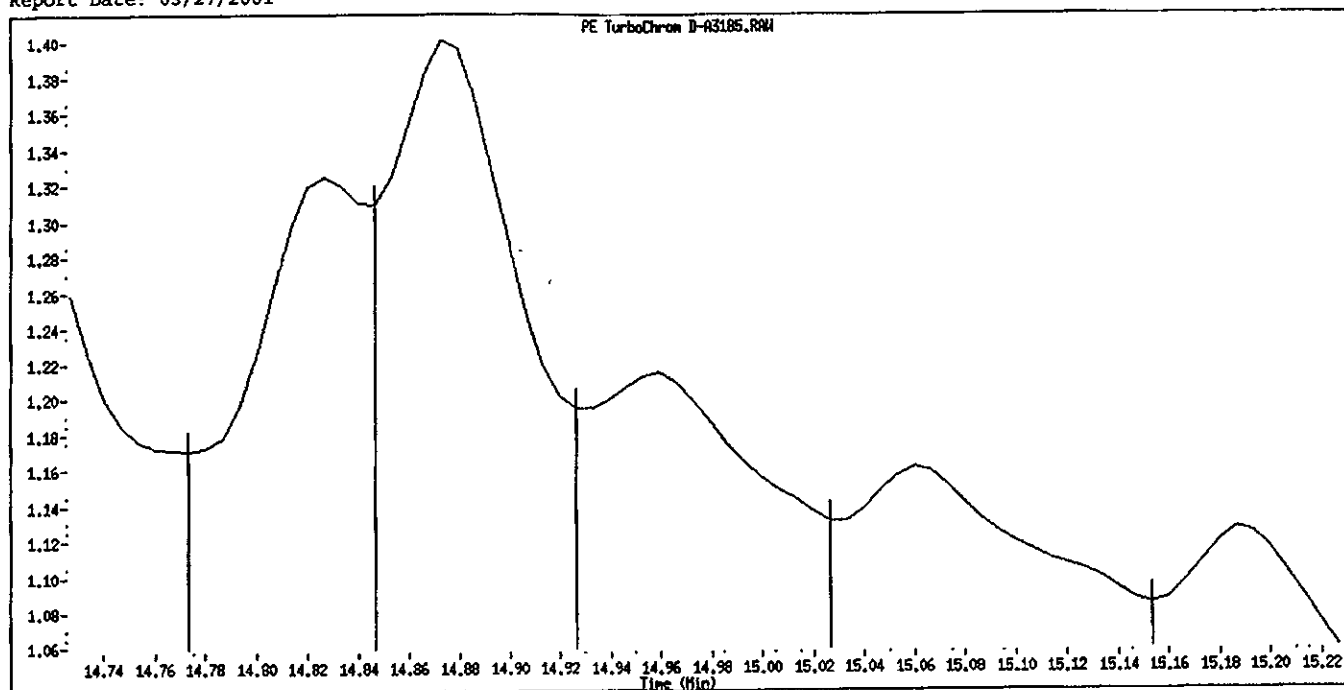
Instrument ID: gc4.1

Client ID: DF/24-B/1080/IDW/00

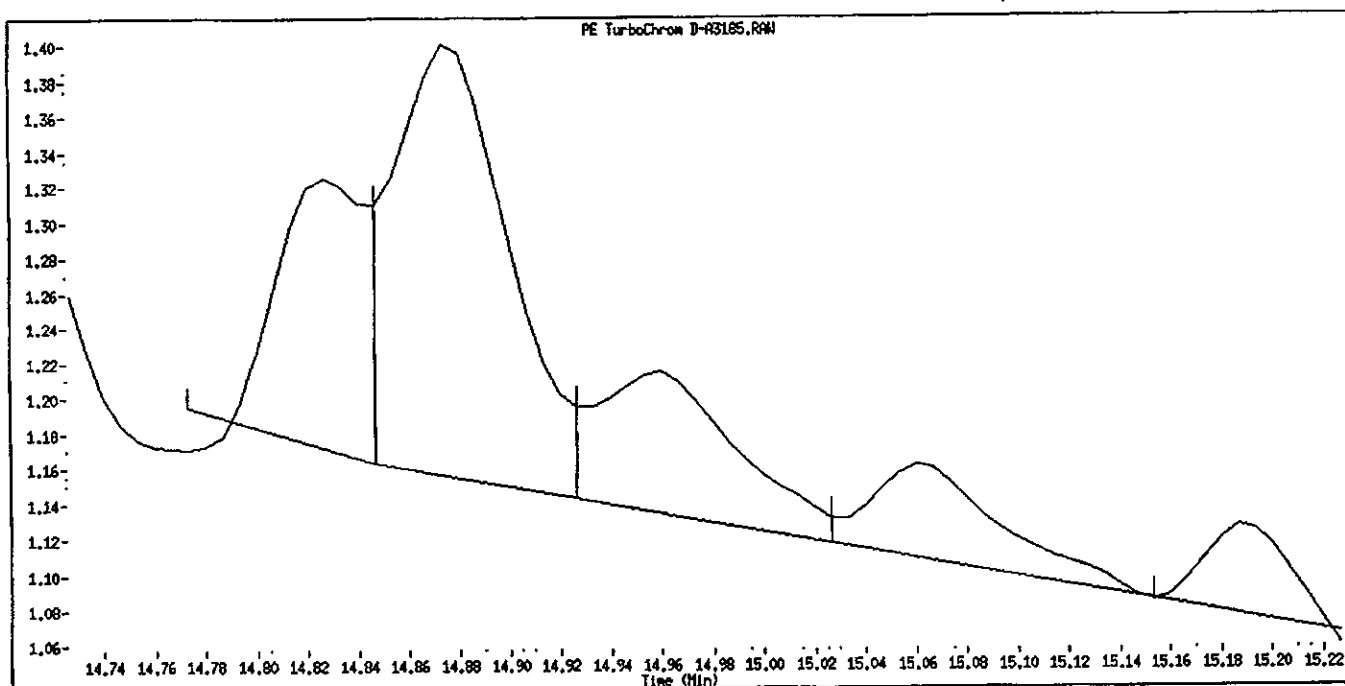
Compound Name: 4,4'-DDD

CAS #: 72-54-8

Report Date: 03/27/2001



Original Integration



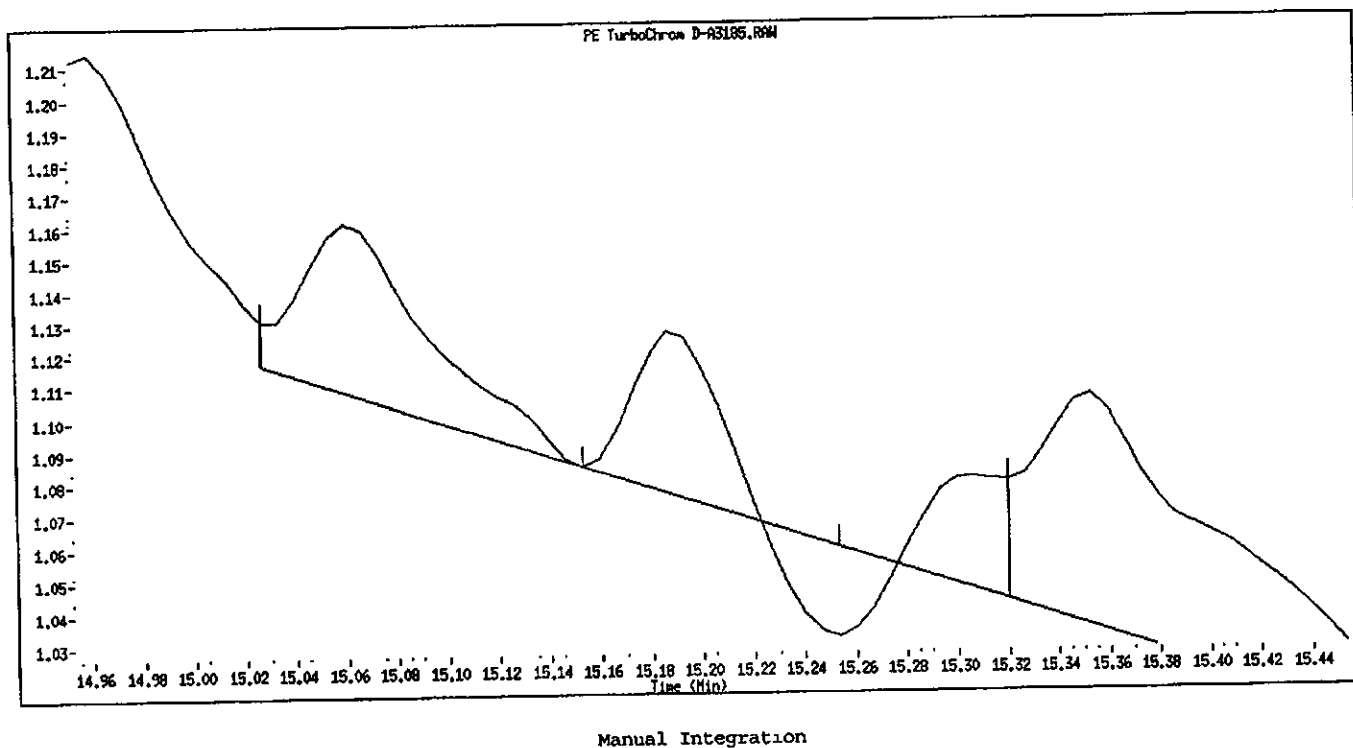
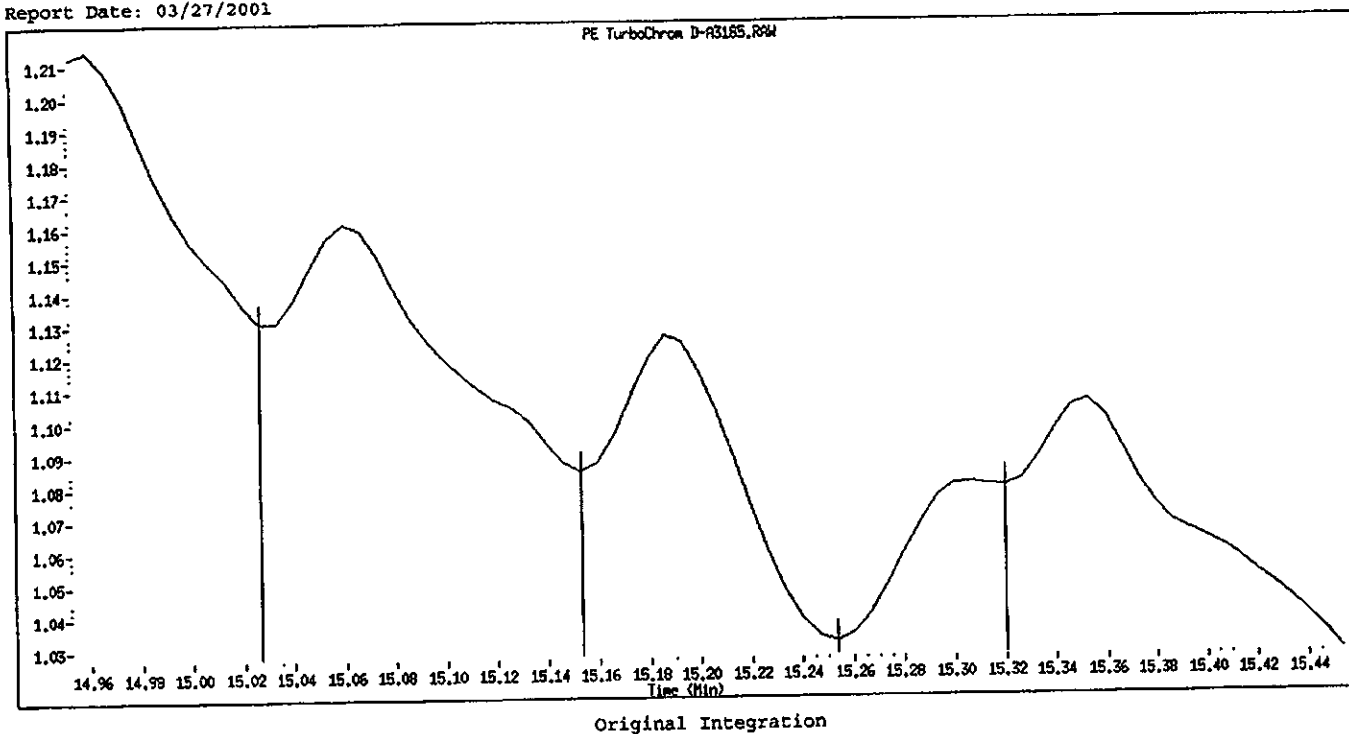
Manual Integration

Manually Integrated By: MatkoL

Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185 d
Inj. Date and Time: 26-MAR-2001 19.26
Instrument ID: gc4.i
Client ID: DF/24-B/1080/IDW/00
Compound Name: Endosulfan II
CAS #: 33213-65-9
Report Date: 03/27/2001

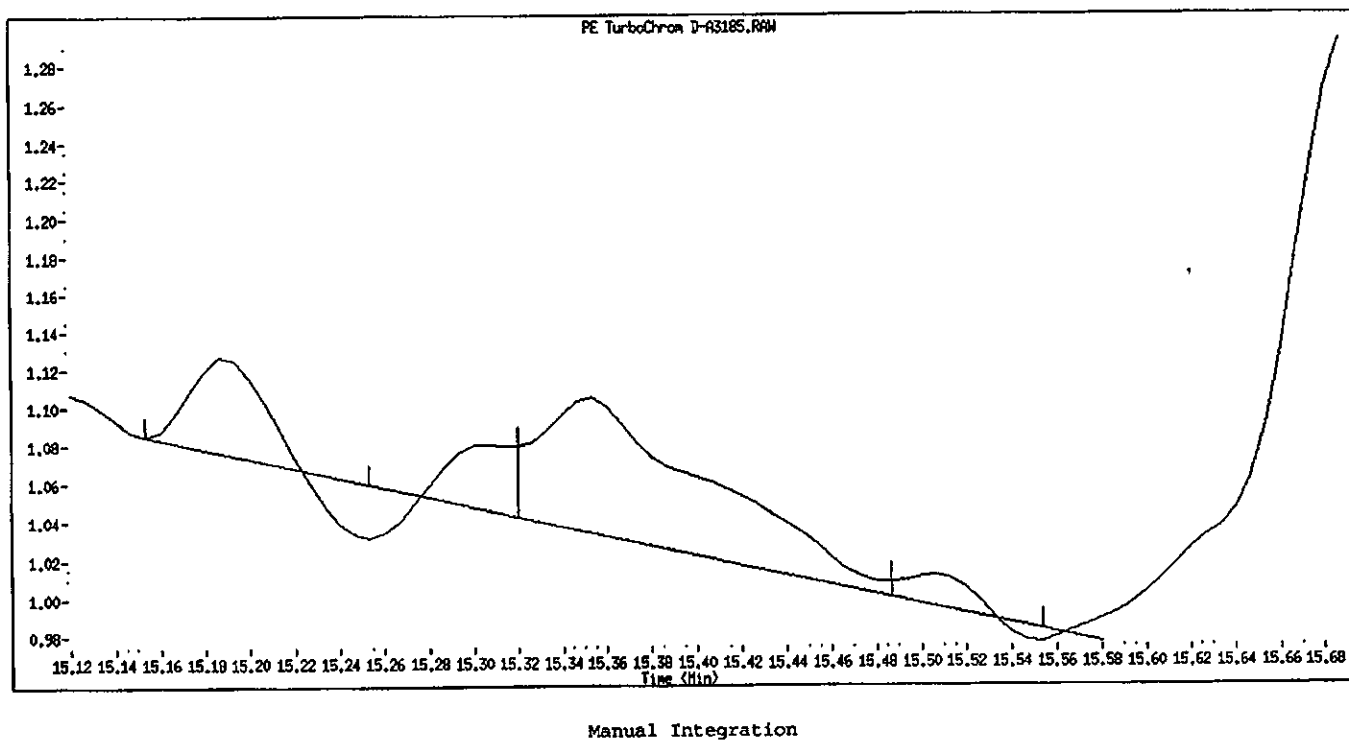
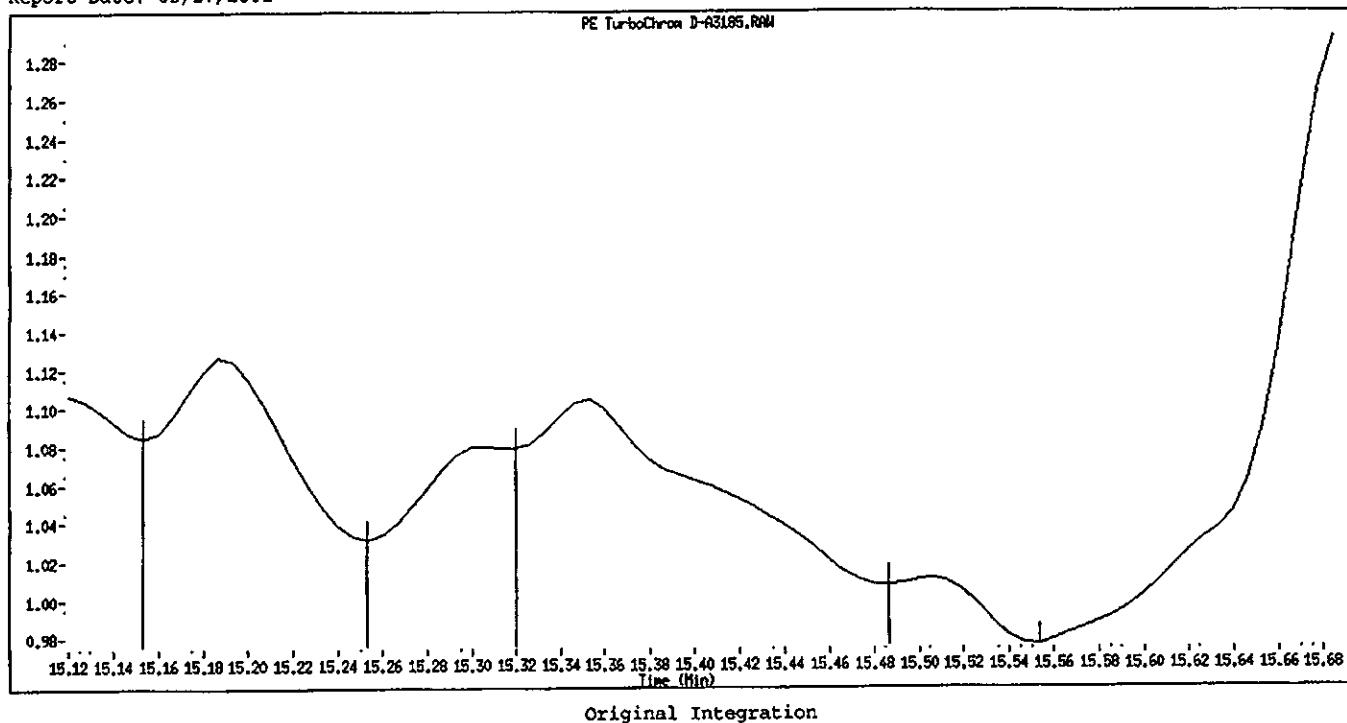
680 359



Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

680 360

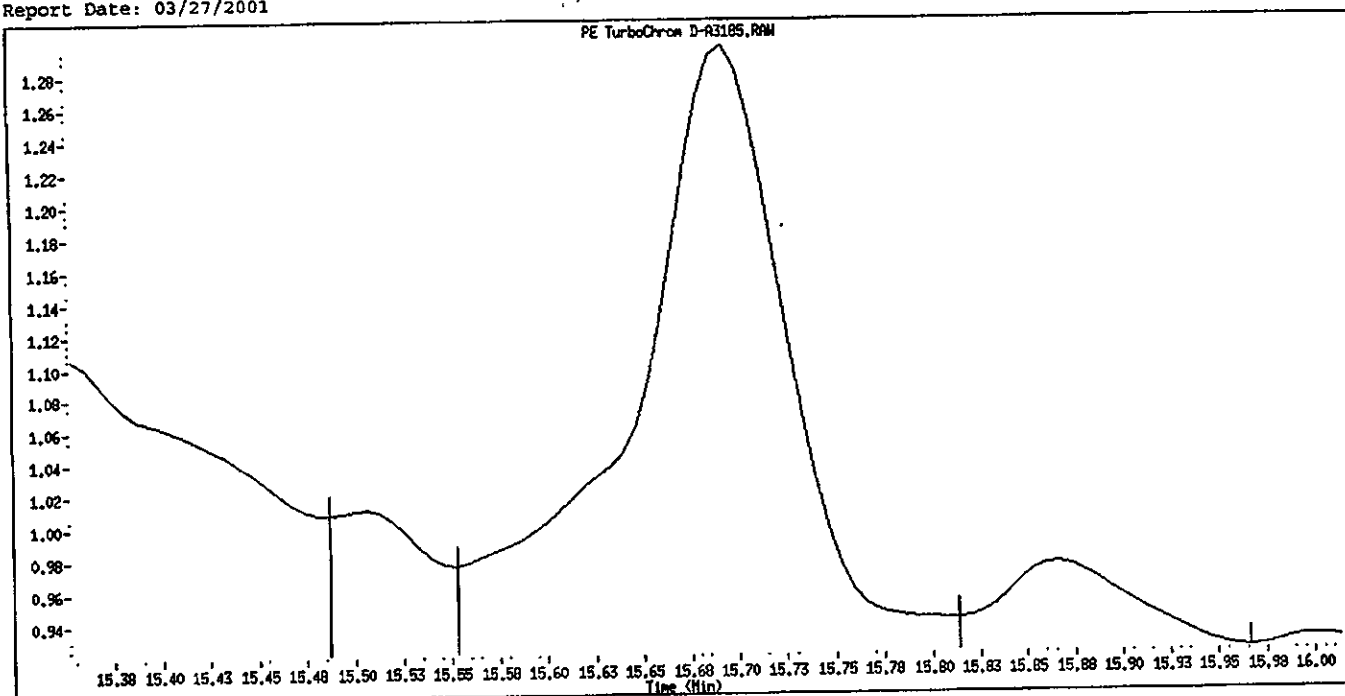
Data File Name: D-A3185.d
 Inj. Date and Time: 26-MAR-2001 19:26
 Instrument ID: gc4.i
 Client ID: DF/24-B/1080/IDW/00
 Compound Name: 4,4'-DDT
 CAS #: 50-29-3
 Report Date: 03/27/2001



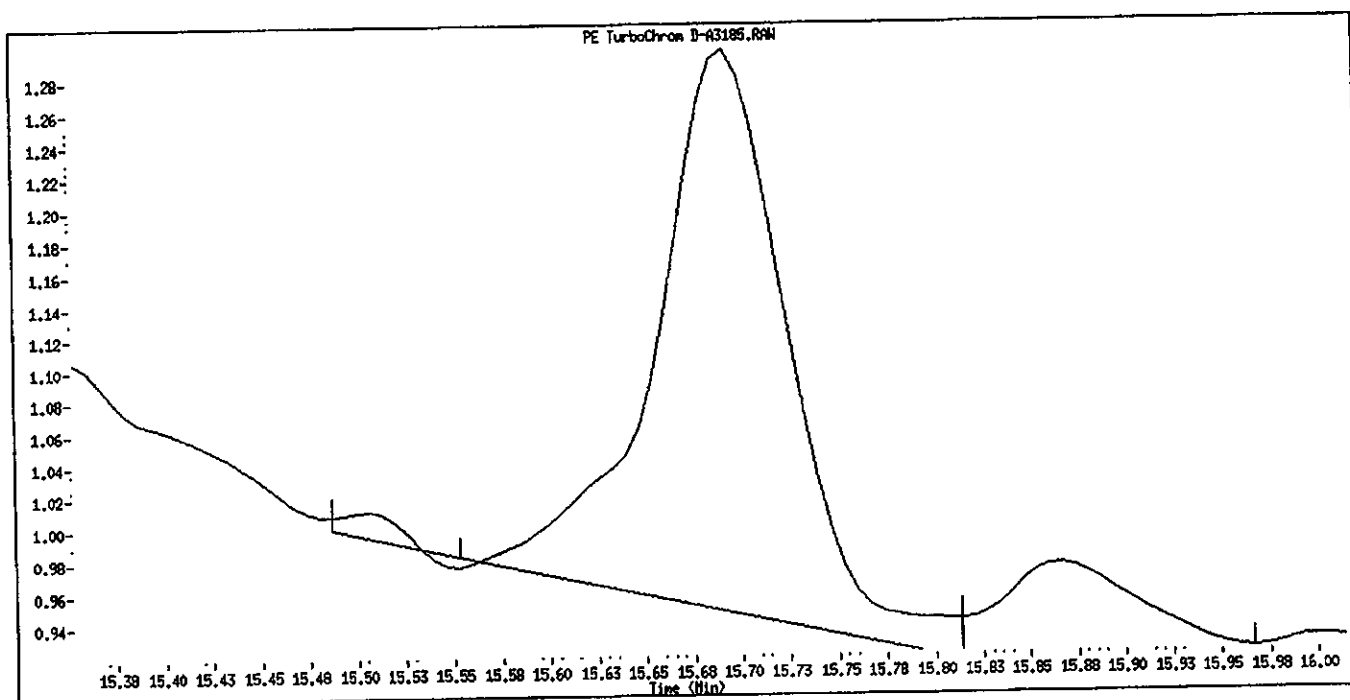
Manually Integrated By: MatkoL
 Manual Integration Reason: Poor Chromatography

Data File Name: D-A3185 d
Inj Date and Time: 26-MAR-2001 19:26
Instrument ID: gc4.i
Client ID: DF/24-B/1080/IDW/00
Compound Name: Endrin aldehyde
CAS #: 7421-93-4
Report Date: 03/27/2001

680 361



Original Integration



Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Poor Chromatography

680 362

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3185.d
 Report Date: 27-Mar-2001 12:51

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3185.d
 Lab Smp Id: DXRH21AD Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 26-MAR-2001 19:26
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXRH21AD, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-1
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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

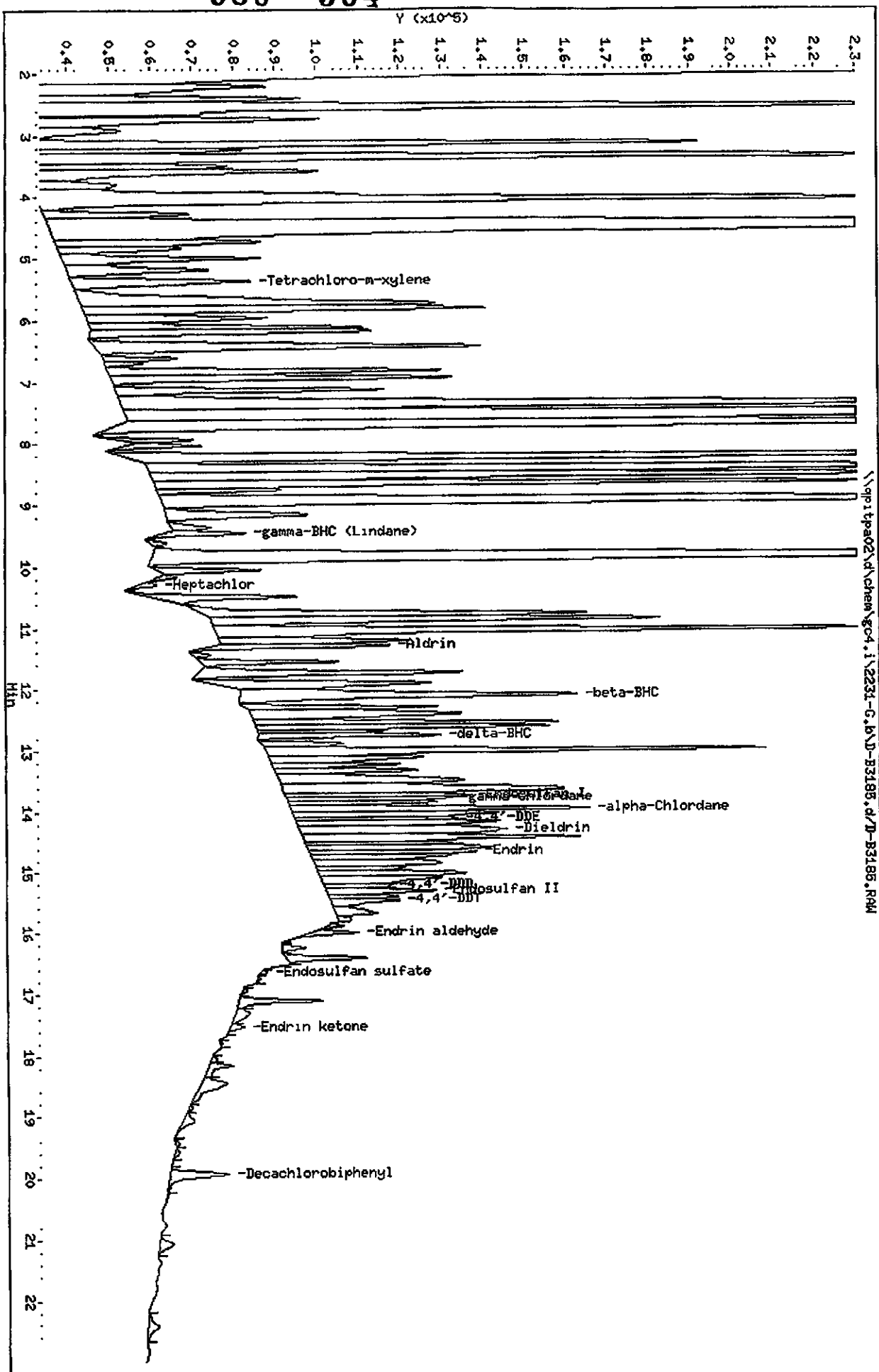
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
*****	00	*****	*****	*****	*****	*****
\$ 2 Tetrachloro-m-xylene	5.366	5.400	-0.034	43048	0.03955	0.3955 (R)
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	9.453	9.473	-0.020	19798	0.01677	0.1677
10 beta-BHC	12.106	12.120	-0.014	80853	0.10967	1.097 (A)
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.286	10.300	-0.014	4440	0.00363	0.03634 (a)
11 delta-BHC	12.760	12.726	0.034	43958	0.03144	0.3144
13 Aldrin	11.286	11.260	0.026	42531	0.03641	0.3641
17 Heptachlor epoxide	Compound Not Detected.					
18 gamma-Chlordane	13.786	13.806	-0.020	39887	0.02406	0.2406
19 alpha-Chlordane	13.960	13.926	0.034	71867	0.04370	0.4370
20 Endosulfan I	13.733	13.720	0.013	44475	0.02944	0.2944
22 4,4'-DDE	14.120	14.073	0.047	39209	0.02465	0.2465
23 Dieldrin	14.293	14.326	-0.033	49805	0.03038	0.3038
26 Endrin	14.660	14.660	0.000	40568	0.03246	0.3246

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.213	15.220	-0.007	16105	0.01338	0.1338
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.313	15.346	-0.033	26488	0.01718	0.1718
32 4,4'-DDT	15.466	15.480	-0.014	16593	0.01280	0.1280
33 Endrin aldehyde	16.000	16.020	-0.020	11625	0.01593	0.1593
34 Endosulfan sulfate	16.640	16.613	0.027	1620	0.00199	0.01992(a)
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.533	17.486	0.047	3471	0.00305	0.03052(a)
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	14171	0.01489	0.1489

QC Flag Legend

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

680 364



Data File: \\pptpa02\chem\gc4.i\2231-G.b\B-B3185.d
Date: 26-MAR-2001 19:26
Client ID: DF/24-B/1080/IDM/00
Sample Info: DMRH21AD, 2231-G.b, PEST, sub,,
Volume Injected (uL): 1.0
Column phase: RTX-1701

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

10A **680** **365**

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRH21AD

Date(s) Analyzed: 03/26/01 03/26/01

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	0.7526	
	2	12.11	12.07	12.17	1.097	45.8
delta-BHC	1	10.73	10.65	10.75	0.3361	
	2	12.76	12.68	12.78	0.3144	6.9
gamma-BHC (Lindane)	1	8.78	8.72	8.82	0.06544	
	2	9.45	9.42	9.52	0.1677	156.3
Aldrin	1	11.00	10.94	11.04	0.1408	
	2	11.29	11.21	11.31	0.3641	158.6
Endosulfan I	1	13.61	13.58	13.68	0.1973	
	2	13.73	13.67	13.77	0.2944	49.2
Dieldrin	1	14.23	14.18	14.28	0.1004	
	2	14.29	14.28	14.38	0.3038	202.6
4,4'-DDE	1	14.07	14.01	14.11	0.07802	
	2	14.12	14.02	14.12	0.2465	215.9
Endosulfan II	1	15.19	15.10	15.20	0.02499	
	2	15.31	15.30	15.40	0.1718	587.5

680 366

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRH21AD

Date(s) Analyzed: 03/26/01 03/26/01

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	14.96	14.92	15.02	0.04597	
	2	15.21	15.17	15.27	0.1338	191.0
4,4'-DDT	1	15.35	15.34	15.44	0.04078	
	2	15.47	15.43	15.53	0.1280	213.9
Endrin aldehyde	1	15.69	15.60	15.70	0.2289	
	2	16.00	15.97	16.07	0.1593	43.7
gamma-Chlordane	1	13.29	13.25	13.35	0.1605	
	2	13.79	13.76	13.86	0.2406	49.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

UXB INTERNATIONAL

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

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

Lab Sample ID: C1C220173 002

Sample WT/Vol: 1000 / mL
Work Order: DXRKF1AP
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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	0.34		
319-86-8	delta-BHC	0.21		
58-89-9	gamma-BHC (Lindane)	0.22		P
5103-71-9	alpha-Chlordane	0.050		U
5103-74-2	gamma-Chlordane	0.074		P
72-54-8	4,4'-DDD	0.023		J P
72-55-9	4,4'-DDE	0.075		
50-29-3	4,4'-DDT	0.053		P
60-57-1	Dieldrin	0.084		P
959-98-8	Endosulfan I	0.14		P
33213-65-9	Endosulfan II	0.065		
1031-07-8	Endosulfan sulfate	0.050		U
72-20-8	Endrin	0.050		U
7421-93-4	Endrin aldehyde	0.060		P
53494-70-5	Endrin ketone	0.050		U
76-44-8	Heptachlor	0.024		J P
1024-57-3	Heptachlor epoxide	0.12		P
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-A3187.d
 Report Date: 27-Mar-2001 13:17

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3187.d
 Lab Smp Id: DXRKFLAP Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 26-MAR-2001 20:22
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXRKFLAP, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-2
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 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)	8.753	8.766	-0.013	262347	0.13489	1.349(A)
10 beta-BHC	9.706	9.733	-0.027	34089	0.03369	0.3369
8 Chlordane	9.073	9.120	-0.047	34482	0.23341	2.334
9 Heptachlor	9.813	9.766	0.047	3723	0.00242	0.02422(a)
11 delta-BHC	10.726	10.700	0.026	35046	0.02070	0.2070
13 Aldrin	10.993	10.993	0.000	6847	0.00460	0.04598(a)
17 Heptachlor epoxide	12.846	12.880	-0.034	22488	0.01166	0.1166
18 gamma-Chlordane	13.300	13.300	0.000	25488	0.01211	0.1211
19 alpha-Chlordane						
20 Endosulfan I	13.613	13.626	-0.013	28500	0.01408	0.1408
22 4,4'-DDE	14.066	14.060	0.006	17061	0.00752	0.07518
23 Dieldrin	14.220	14.226	-0.006	18817	0.00844	0.08439
26 Endrin						

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
29 4,4'-DDD	14.953	14.973	-0.020	17346	0.00992	0.09922
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.186	15.153	0.033	13006	0.00650	0.06499
32 4,4'-DDT	15.406	15.393	0.013	13664	0.00780	0.07798
33 Endrin aldehyde	15.693	15.646	0.047	27811	0.01812	0.1812
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	13359	0.01321	0.1321

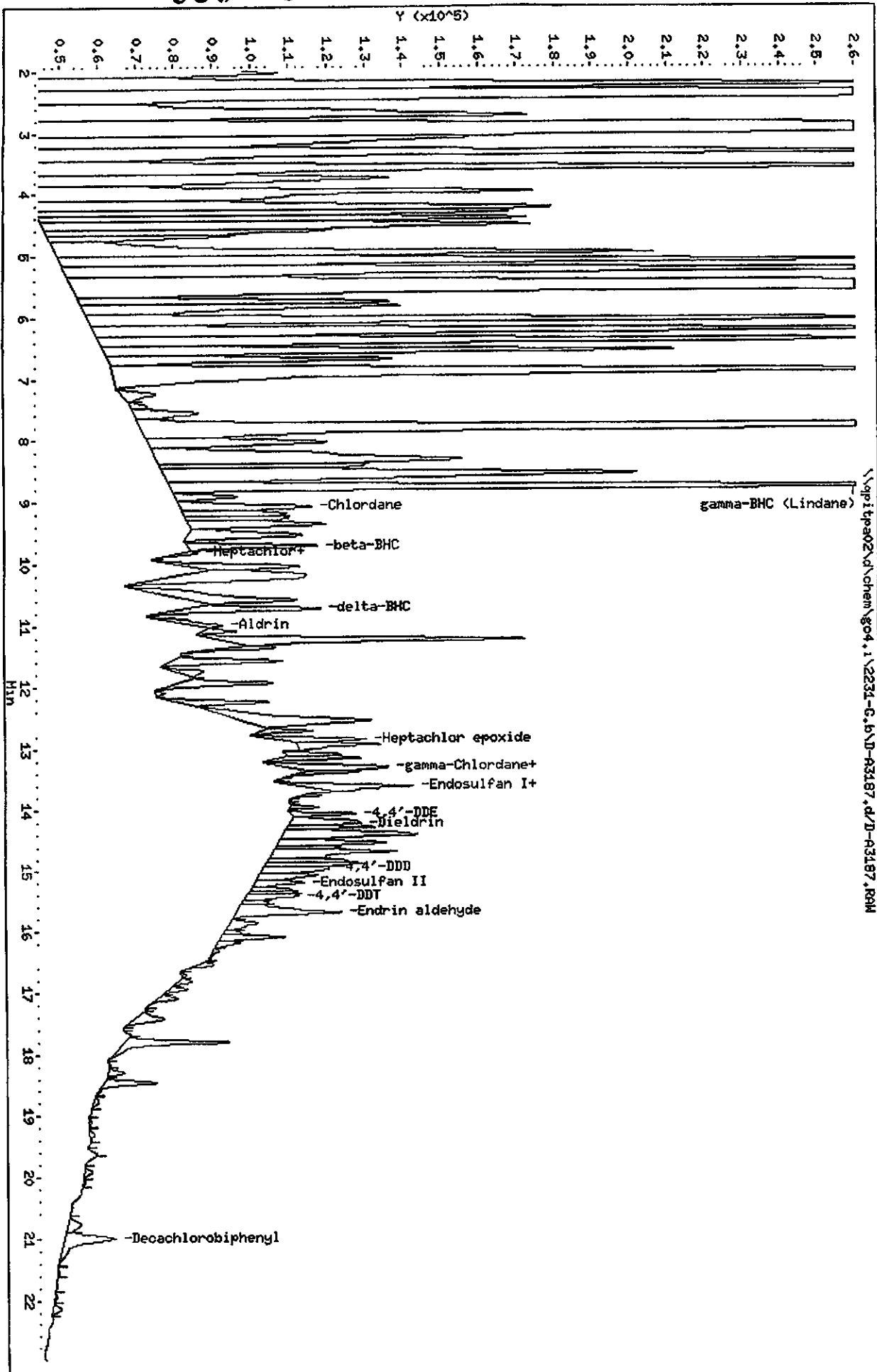
QC Flag Legend

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

680 370

Data File: \\pittpa02\chem\gc04.1\2231-G.b\D-A3487.d
 Date: 26-MAR-2001 20:22
 Client ID: DF/24-B/1080/1DM/00
 Sample Info: DKKF1AP,2231-G.b,,PEST,sub,,,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc04.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3187.d
 Lab Smp Id: DXRKF1AP Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 26-MAR-2001 20:22
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXRKF1AP,2231-G.b,,PEST.sub,,,
 Misc Info : 220173-2
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.366	5.400	-0.034	44365	0.04076	0.4076 (R)
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	9.460	9.473	-0.013	25915	0.02195	0.2195
10 beta-BHC	12.106	12.120	-0.014	32450	0.04401	0.4401
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.286	10.300	-0.014	4634	0.00379	0.03792 (a)
11 delta-BHC	12.753	12.726	0.027	35574	0.02544	0.2544
13 Aldrin	Compound Not Detected.					
17 Heptachlor epoxide	13.120	13.166	-0.046	27583	0.01856	0.1856
18 gamma-Chlordane	13.853	13.806	0.047	12222	0.00737	0.07371
19 alpha-Chlordane	13.960	13.926	0.034	41340	0.02514	0.2514
20 Endosulfan I	13.746	13.720	0.026	33568	0.02222	0.2222
22 4,4'-DDE	14.120	14.073	0.047	14711	0.00925	0.09250
23 Dieldrin	14.293	14.326	-0.033	28000	0.01708	0.1708
26 Endrin	14.653	14.660	-0.007	20048	0.01604	0.1604

680 372

Data File: \\gpitpa02\d\chem\gc4.i\2231-G.b\D-B3187.d
Report Date: 27-Mar-2001 12:52

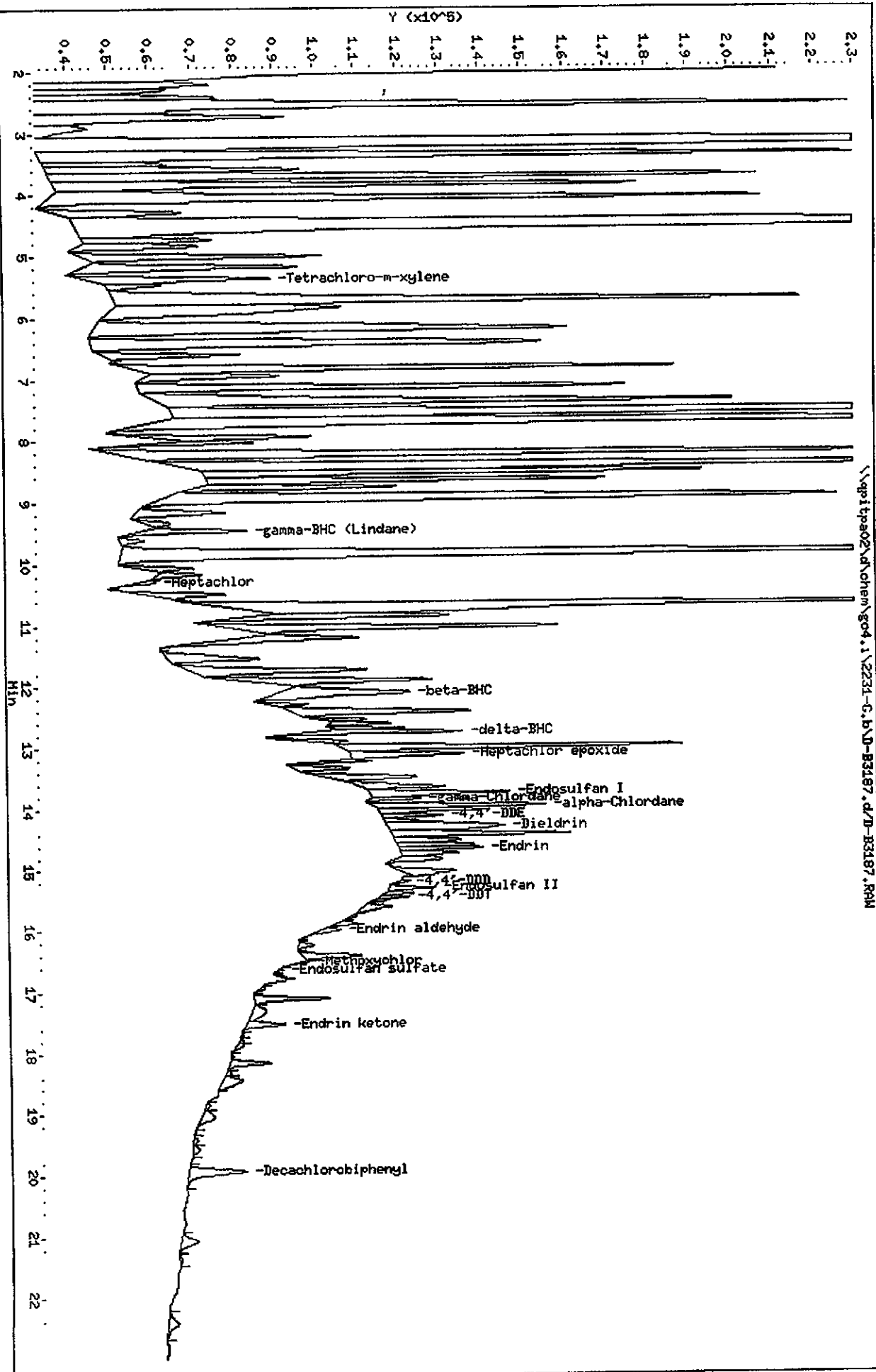
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
29 4,4'-DDD	15.213	15.220	-0.007	2760	0.00229	0.02294 (a)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.313	15.346	-0.033	11084	0.00719	0.07190
32 4,4'-DDT	15.466	15.480	-0.014	6866	0.00530	0.05298
33 Endrin aldehyde	16.000	16.020	-0.020	4354	0.00597	0.05968
34 Endosulfan sulfate	16.633	16.613	0.020	842	0.00104	0.01036 (a)
35 Methoxychlor	16.513	16.506	0.007	2155	0.00333	0.03330 (a)
37 Endrin ketone	17.533	17.486	0.047	9598	0.00844	0.08440
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	13869	0.01457	0.1457

QC Flag Legend

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

Data File: \\api\tpa02\data\chem\g04.1\2231-G.b.D-B3187.d
 Date : 26-MAR-2001 20:22
 Client ID: IF/24-B/1080/IDM/00
 Sample Info: DMRKFLAF,2231-G.b.,PEST,sub,,
 Volume injected (uL): 1.0
 Column phase: RTX-1701

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



10A
680 374 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRKFIAP

Date(s) Analyzed: 03/26/01 03/26/01

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	0.3369	
	2	12.11	12.07	12.17	0.4401	30.6
delta-BHC	1	10.73	10.65	10.75	0.2070	
	2	12.75	12.68	12.78	0.2544	22.9
gamma-BHC (Lindane)	1	8.75	8.72	8.82	1.349	
	2	9.46	9.42	9.52	0.2195	514.6
Heptachlor	1	9.81	9.72	9.82	0.02422	
	2	10.29	10.25	10.35	0.03792	56.6
Heptachlor epoxide	1	12.85	12.83	12.93	0.1166	
	2	13.12	13.12	13.22	0.1856	59.2
Endosulfan I	1	13.61	13.58	13.68	0.1408	
	2	13.75	13.67	13.77	0.2222	57.8
Dieldrin	1	14.22	14.18	14.28	0.08439	
	2	14.29	14.28	14.38	0.1708	102.4
4,4'-DDE	1	14.07	14.01	14.11	0.07518	
	2	14.12	14.02	14.12	0.09250	23.0

10A **680** **375**

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRKF1AP

Date(s) Analyzed: 03/26/01 03/26/01

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		
Endosulfan II	1	15.19	15.10	15.20	0.06499	
	2	15.31	15.30	15.40	0.07190	10.6
4,4'-DDD	1	14.95	14.92	15.02	0.09922	
	2	15.21	15.17	15.27	0.02294	332.5
4,4'-DDT	1	15.41	15.34	15.44	0.07798	
	2	15.47	15.43	15.53	0.05298	47.2
Endrin aldehyde	1	15.69	15.60	15.70	0.1812	
	2	16.00	15.97	16.07	0.05968	203.6
gamma-Chlordane	1	13.30	13.25	13.35	0.1211	
	2	13.85	13.76	13.86	0.07371	64.3
	1					
	2					
	1					
	2					
	1					
	2					

680 376

PESTICIDE
CALIBRATION DATA

Report Date : 27-Mar-2001 12:58

LD
JB904A
RT-50

680 377

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 : 27-Mar-2001 12:57 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	13.300	13.250-13.350	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	14.227	14.177-14.277	2.23e+006
26 Endrin	14.760	14.710-14.810	1.95e+006
29 4,4'-DDD	14.973	14.923-15.023	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

680 378

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58904A
RTX-SD

Report Date : 27-Mar-2001 12:58

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

Report Date : 26-Mar-2001 10:53

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RTx-5D

680 379

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

	0.00500	0.01000	0.02500	0.05000	0.10000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
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

680 380

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58901A
RTx-SD

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

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

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

680 381

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 FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
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): ~~6.33~~ 4.7
 Combined % breakdown (1): ~~2.73~~ 6.5

mm
3/24/01

680 382

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 : 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):

~~1.09~~1.4
6.1

Endrin % breakdown (1):

~~6.87~~

5.2

Combined % breakdown (1):

~~7.96~~hm
3/24/01

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

680 383

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 : 03/26/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 1801

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.76	14.71	14.81	0.02278	0.02500	-8.9
4,4'-DDT	15.39	15.34	15.44	0.02235	0.02500	-10.6

4,4'-DDT % breakdown (1): ~~0.96~~ 1.4 Endrin % breakdown (1): ~~5.00~~ 4.1
 Combined % breakdown (1): ~~5.96~~ 5.5

um
3/27/01

680 384

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3183.d
 Report Date: 27-Mar-2001 12:57

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 58901A
 RTX-SD

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-MAR-2001 18:29
 Lab File ID: D-A3183.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
\$ 2 Tetrachloro-m-xylene	1702060	1647200	0.000	-3.2 15.0
6 alpha-BHC	2067394	2040800	0.010	-1.3 15.0
7 gamma-BHC (Lindane)	1944928	1904560	0.010	-2.1 15.0
9 Heptachlor	1537042	1393480	0.010	-9.3 15.0
20 Endosulfan I	2024084	1936960	0.010	-4.3 15.0
23 Dieldrin	2229850	2142040	0.010	-3.9 15.0
26 Endrin	1947972	1831480	0.010	-6.0 15.0
29 4,4'-DDD	1748180	1695920	0.010	-3.0 15.0
32 4,4'-DDT	1752204	1616480	0.010	-7.7 15.0
35 Methoxychlor	696955	675360	0.010	-3.1 15.0
\$ 38 Decachlorobiphenyl	1011338	885960	0.010	-12.4 15.0

680 385 7L

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3184.d
Report Date: 27-Mar-2001 12:57SB904A
RTx 50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-MAR-2001 18:57
 Lab File ID: D-A3184.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	1429360	0.010	-4.0 15.0
10 beta-BHC	1011832	960000	0.010	-5.1 15.0
11 delta-BHC	1693032	1680200	0.010	-0.8 15.0
17 Heptachlor epoxide	1928840	1851360	0.010	-4.0 15.0
18 gamma-Chlordane	2105078	2020360	0.010	-4.0 15.0
19 alpha-Chlordane	2181062	2096160	0.010	-3.9 15.0
22 4,4'-DDE	2269318	2244160	0.010	-1.1 15.0
31 Endosulfan II	2001214	1878640	0.010	-6.1 15.0
33 Endrin aldehyde	1534496	1404080	0.010	-8.5 15.0
34 Endosulfan sulfate	1357384	1289360	0.010	-5.0 15.0
37 Endrin ketone	1533182	1463720	0.010	-4.5 15.0

680 386

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3200.d
 Report Date: 27-Mar-2001 13:12

7E
 58904A
 RTX-SD

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-MAR-2001 02:27
 Lab File ID: D-A3200.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	RF0	MIN	MAX
-----	-----	-----	-----	-----
\$ 2 Tetrachloro-m-xylene	1702060	1677080	0.000	-1.5 15.0
6 alpha-BHC	2067394	2095200	0.010	1.3 15.0
7 gamma-BHC (Lindane)	1944928	1961040	0.010	0.8 15.0
9 Heptachlor	1537042	1528160	0.010	-0.6 15.0
20 Endosulfan I	2024084	1993920	0.010	-1.5 15.0
23 Dieldrin	2229850	2192600	0.010	-1.7 15.0
26 Endrin	1947972	1912480	0.010	-1.8 15.0
29 4,4'-DDD	1748180	1724520	0.010	-1.4 15.0
32 4,4'-DDT	1752204	1704680	0.010	-2.7 15.0
35 Methoxychlor	696955	752740	0.010	8.0 15.0
\$ 38 Decachlorobiphenyl	1011338	934040	0.010	-7.6 15.0

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3201.d
Report Date: 27-Mar-2001 13:12

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58904A
RTx50

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-MAR-2001 02:55
Lab File ID: D-A3201.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	1465680	0.010	-1.6 15.0
10 beta-BHC	1011832	979960	0.010	-3.1 15.0
11 delta-BHC	1693032	1745800	0.010	3.1 15.0
17 Heptachlor epoxide	1928840	1902360	0.010	-1.4 15.0
18 gamma-Chlordane	2105078	2074400	0.010	-1.5 15.0
19 alpha-Chlordane	2181062	2146720	0.010	-1.6 15.0
22 4,4'-DDE	2269318	2284800	0.010	0.7 15.0
31 Endosulfan II	2001214	1919000	0.010	-4.1 15.0
33 Endrin aldehyde	1534496	1361800	0.010	-11.3 15.0
34 Endosulfan sulfate	1357384	1314000	0.010	-3.2 15.0
37 Endrin ketone	1533182	1467920	0.010	-4.3 15.0

680 388

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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	EVALB	03/26/01	1801	5.15	21.00
18	MEDA	03/26/01	1829	5.15	21.00
19	MEDB	03/26/01	1857		
20	DF/24-B/1080 DXRH21AD	03/26/01	1926		21.00
21	DF/24-B/1080 DXRKF1AP	03/26/01	2022		21.00
22	PBLK4105 DXX2E1AA	03/26/01	2118	5.15	20.99
23	LCS4105 DXX2E1AC	03/26/01	2146	5.15	21.00
24	LCD4105 DXX2E1AD	03/26/01	2214	5.15	20.99
25	MEDA	03/27/01	0227	5.15	21.00
26	MEDB	03/27/01	0255		
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-A3110.d
Report Date: 26-Mar-2001 11:30

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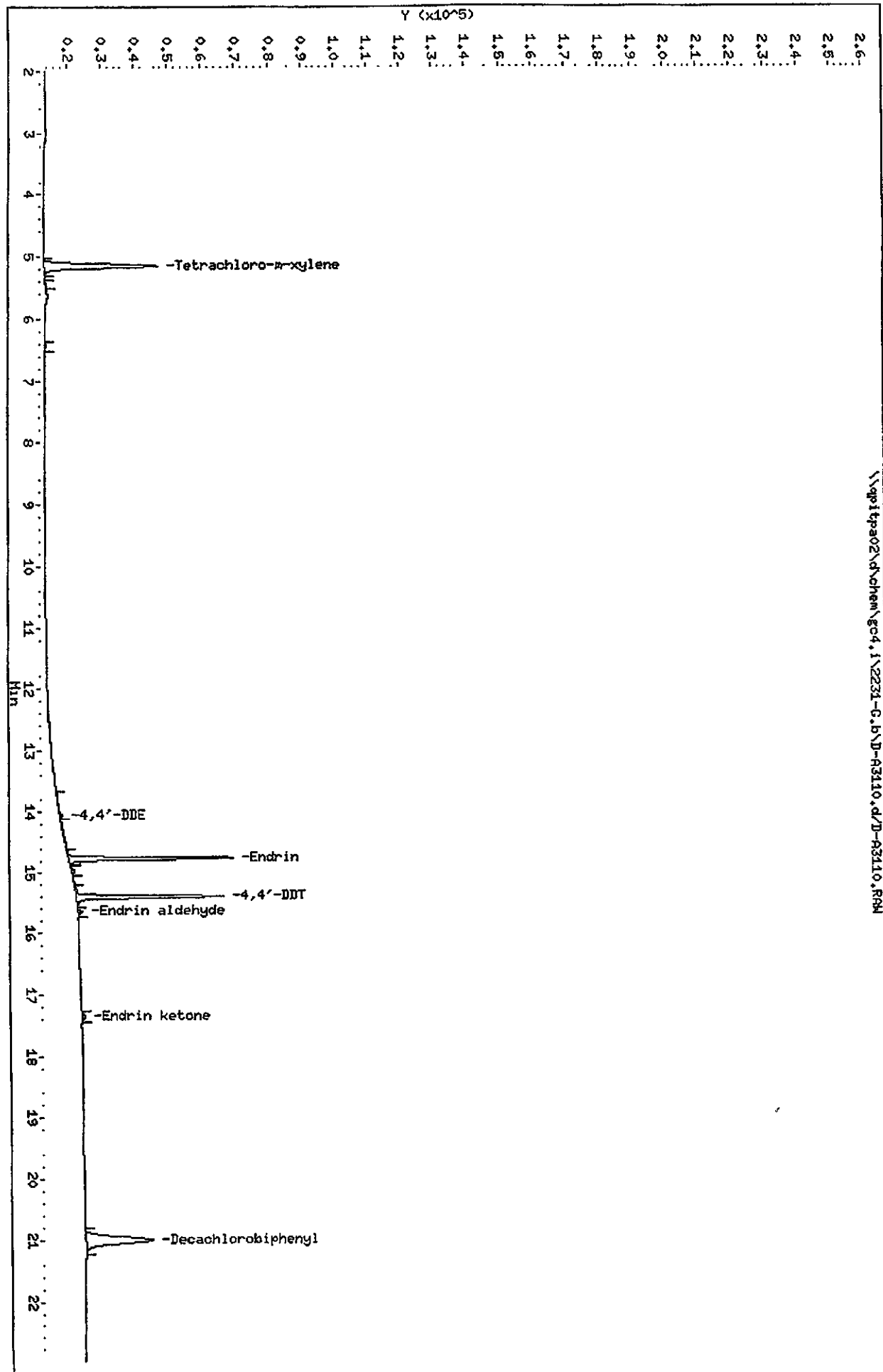
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3110.d
Lab Smp Id: EVALB
Inj Date : 23-MAR-2001 13:13
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 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	FINAL
					(ng)	(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: \\p01tpa02\chem\gc4,1\2231-G.b\D-A3110.d
Date: 23-MAR-2001 13:43
Client ID:
Sample Info: EVALB,2231-G.b,EVALBR,sub,3,1
Column phase: RTX-50

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

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

680 391

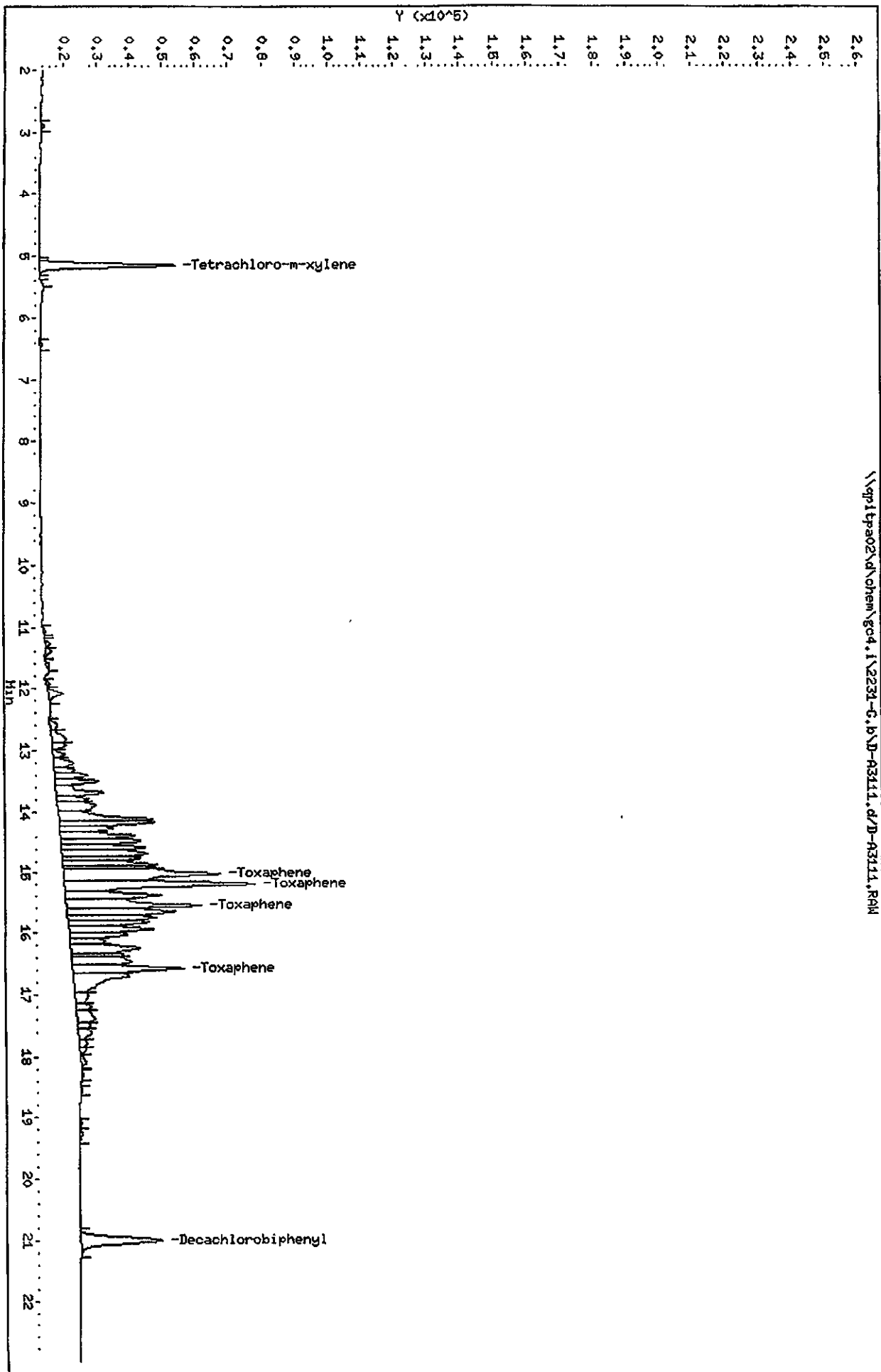
STL-Pittsburgh

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

Date File: \\vp1tpa02\chem\gc4.1\2231-G.b\D-A3111.d
Date: 23-MAR-2001 13:41
Client ID:
Sample Info: HEDTOX, 2231-G.b, 1-TOX, sub, 1, 3
Column phase: RTX-50

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



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

680 393

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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
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
Cal Date : 23-MAR-2001 14:10
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-A3112.d
Calibration Sample, Level: 3
Compound Sublist: 2-CHLO.sub

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

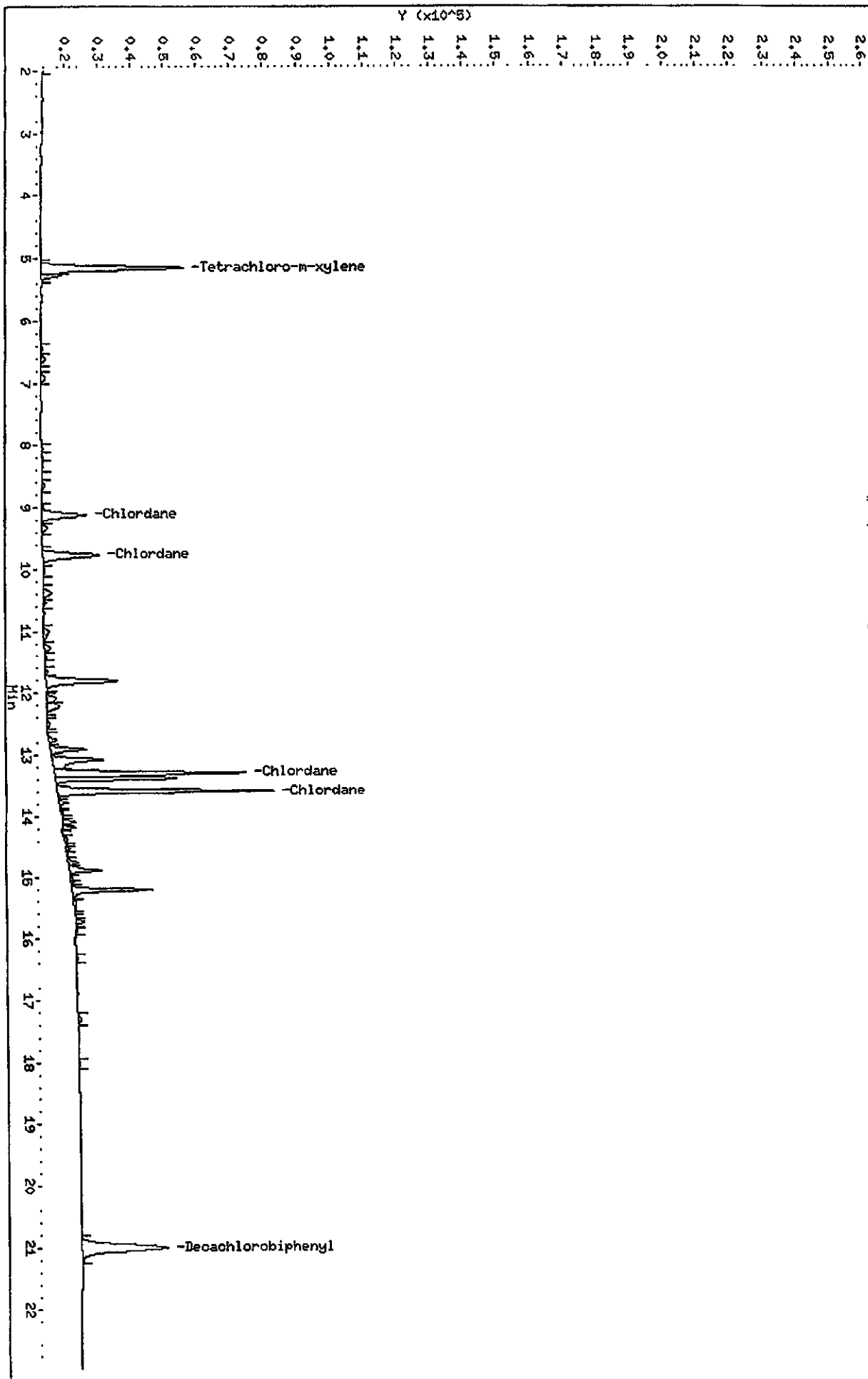
QC Flag Legend

M - Compound response manually integrated.

Data File: \\qpi1tpa02\nd\chem\gc4.1\2231-G.b\D-A3112.d
Date: 23-MAR-2001 14:10
Client ID:
Sample Info: HEDCHLOR,2231-G.b,2-CHLO,sub,1,3
Column phase: RTX-60

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

\\qpi1tpa02\nd\chem\gc4.1\2231-G.b\D-A3112.d\D-A3112.RAW



Data File Name: D-A3112.d

Inj Date and Time: 23-MAR-2001 14:10

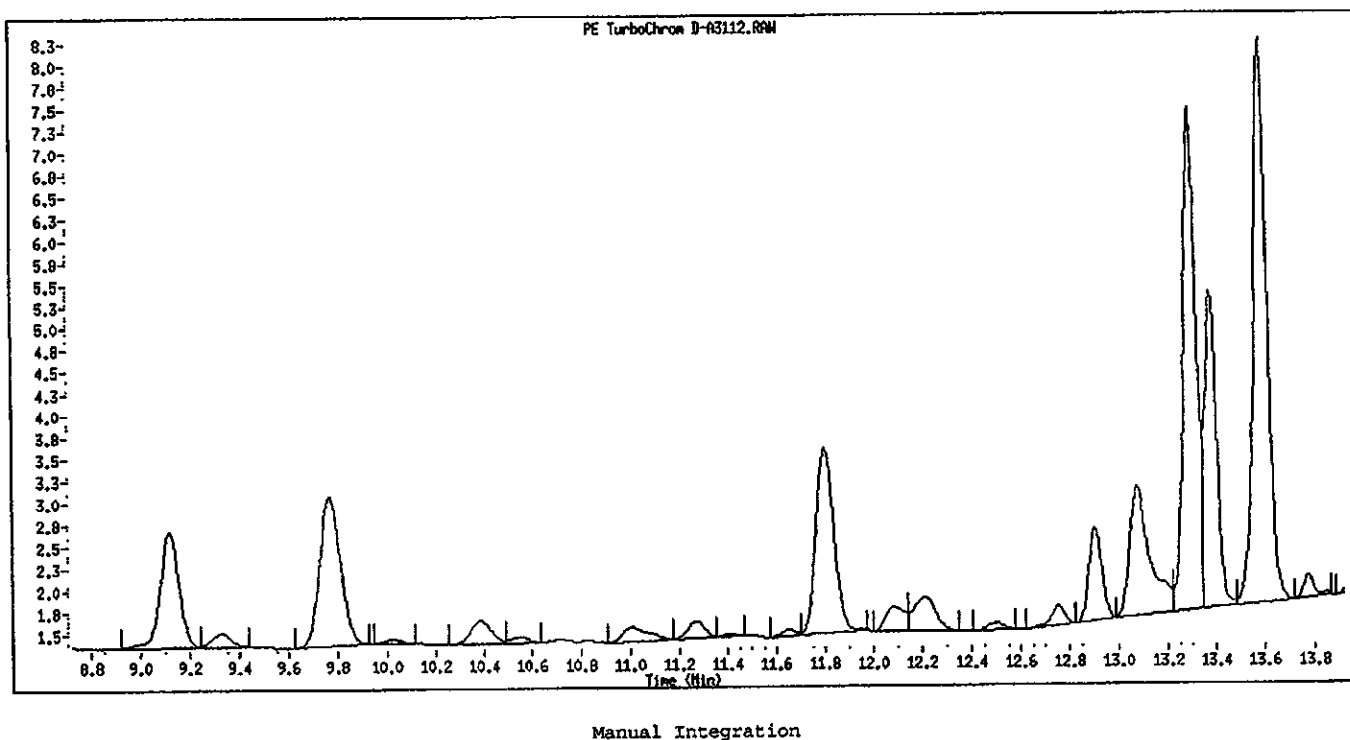
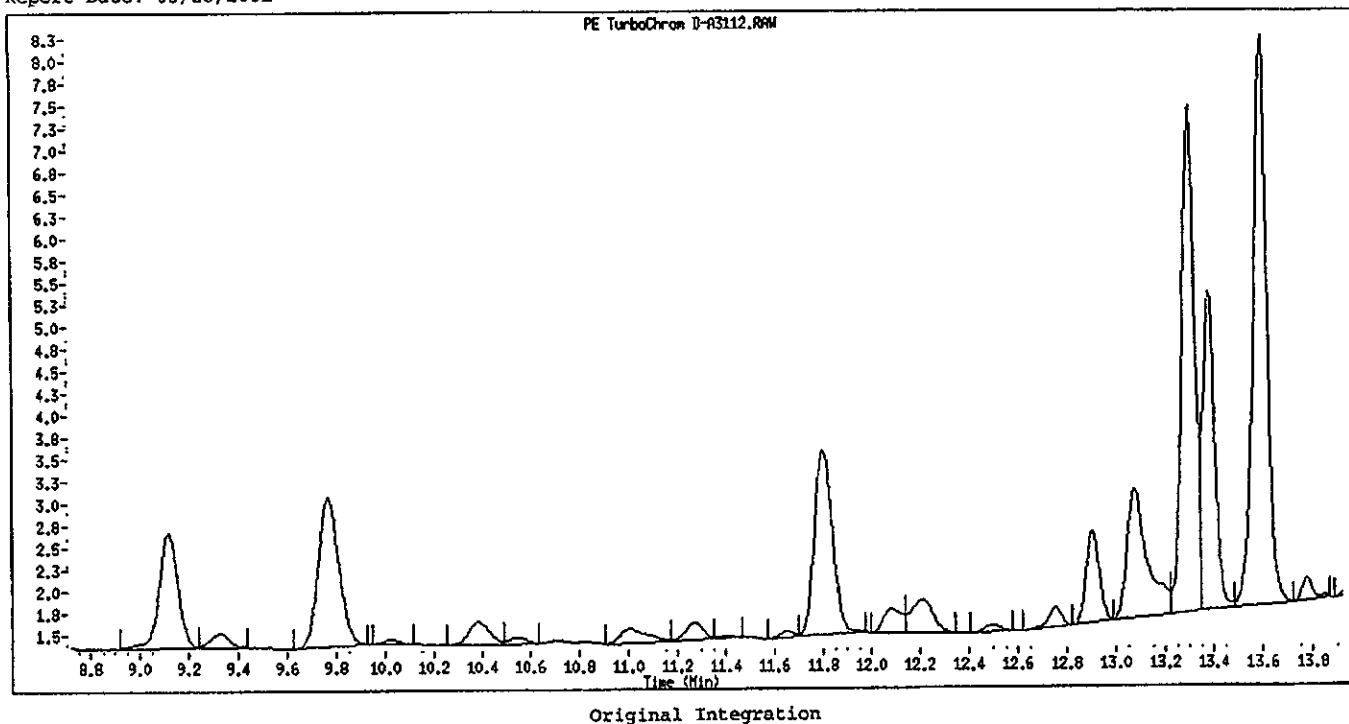
Instrument ID: gc4.i

Client ID:

Compound Name: Chlordane

CAS #: 57-74-9

Report Date: 03/26/2001



Manually Integrated By: MatkoL

Manual Integration Reason: Unknown

680 396

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

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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

Data File: \\pittpa02\chem\gc4.1\2231-G.b\D-A3113.d

Date: 23-MAR-2001 14:38

Client ID:

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

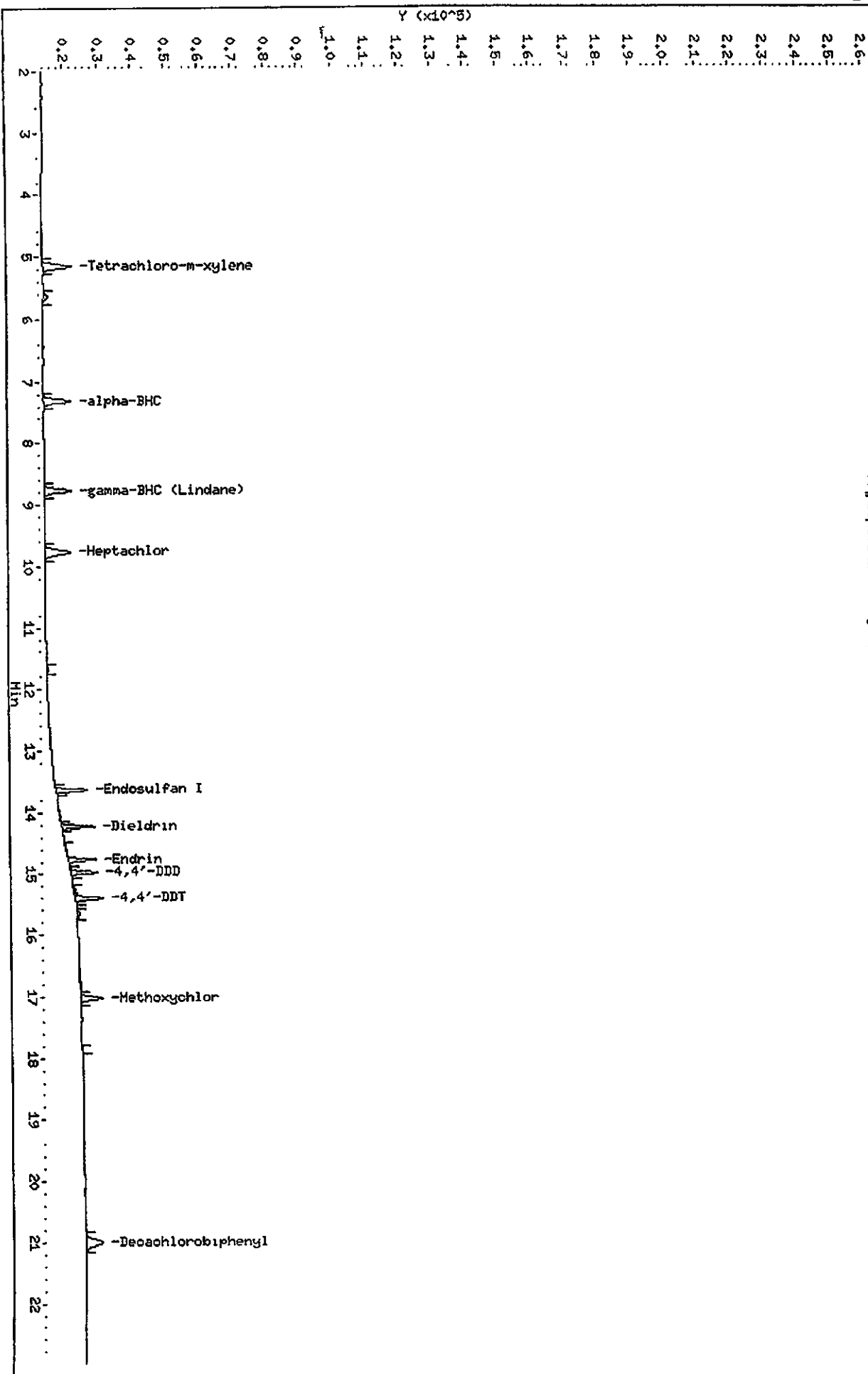
Column phase: RTX-50

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

\\pittpa02\chem\gc4.1\2231-G.b\D-A3113.d\D-A3113.RAW



680 398

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

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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

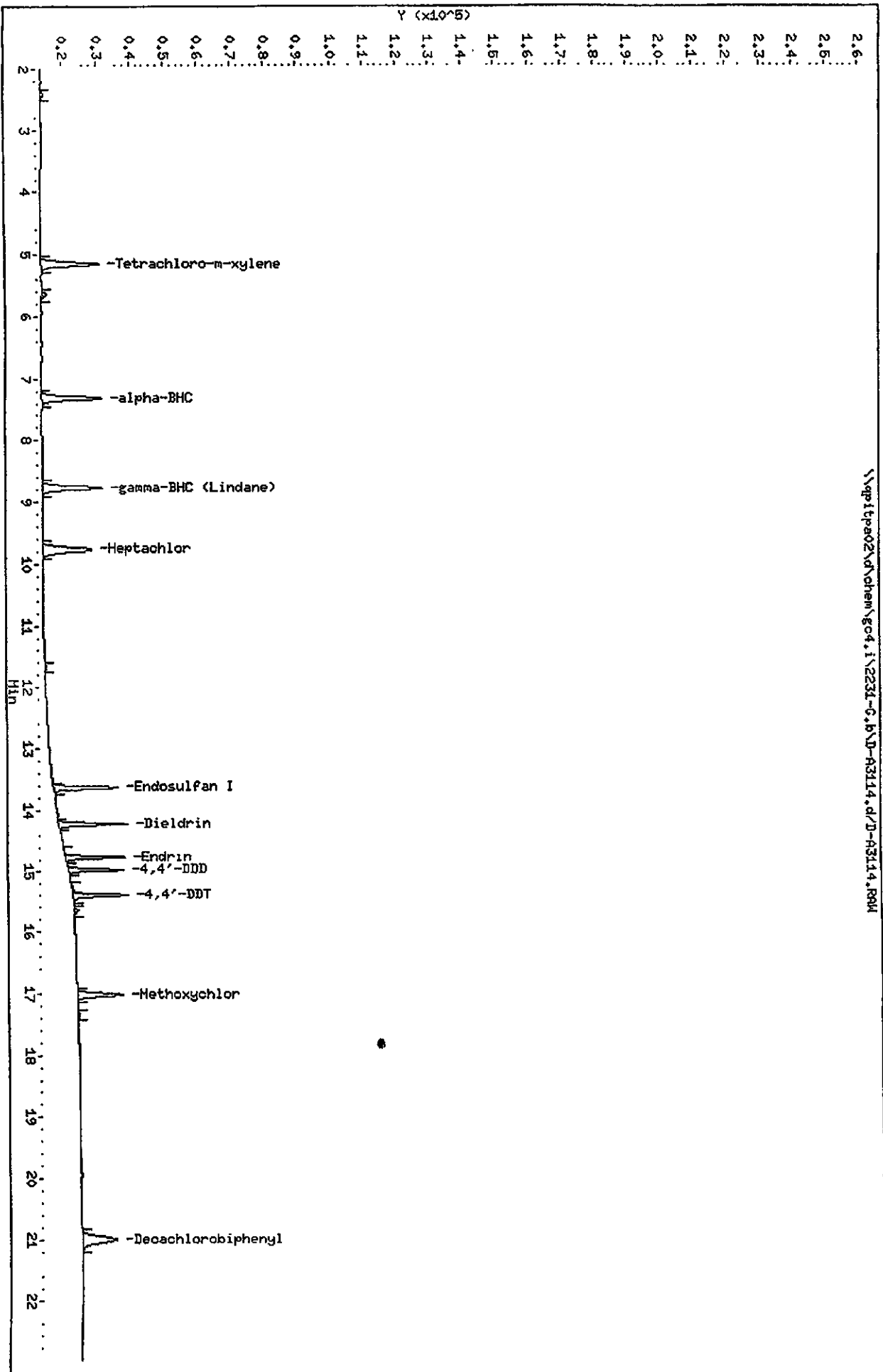
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	17177	0.01000	0.01000
6 alpha-BHC	7.313	7.313	0.000	18114	0.01000	0.009625
7 gamma-BHC (Lindane)	8.766	8.766	0.000	17697	0.01000	0.009729
9 Heptachlor	9.766	9.766	0.000	14624	0.01000	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

680

399

Data File: \\pittpa02\chem\gc04.1\2231-G.b\D-A3114.d
Date: 23-MAR-2004 15:06
Client ID:
Sample Info: MLOMA, 2231-G.b, 3-INDA, sub, 1,2
Column phase: RTX-50

Instrument: gc04.1
Operator: 010139
Column diameter: 0.53



680 400

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

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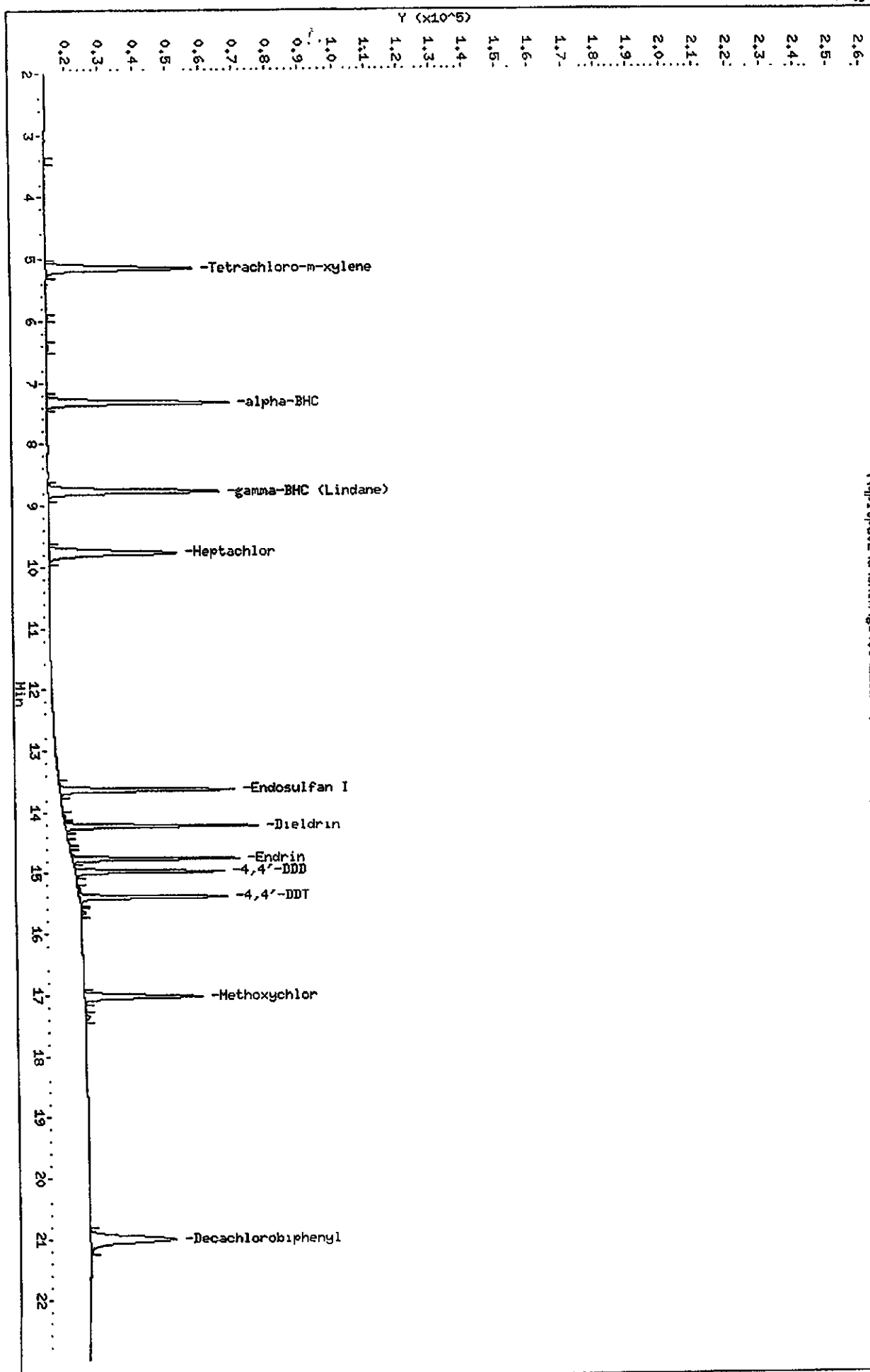
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3115.d
Lab Smp Id: MEDA
Inj Date : 23-MAR-2001 15:34
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,2231-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 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

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (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: \\qpltpa02\chem\gc4.1\2231-G.b-D-43145.d
Date: 23-MAR-2001 15:34
Client ID:
Sample Info: MEDIA,2231-G.b/,3-INDA,sub,4,3
Column phase: RTX-60

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

\\qpltpa02\chem\gc4.1\2231-G.b-D-43145.d\B-43145.RAW



680 402

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

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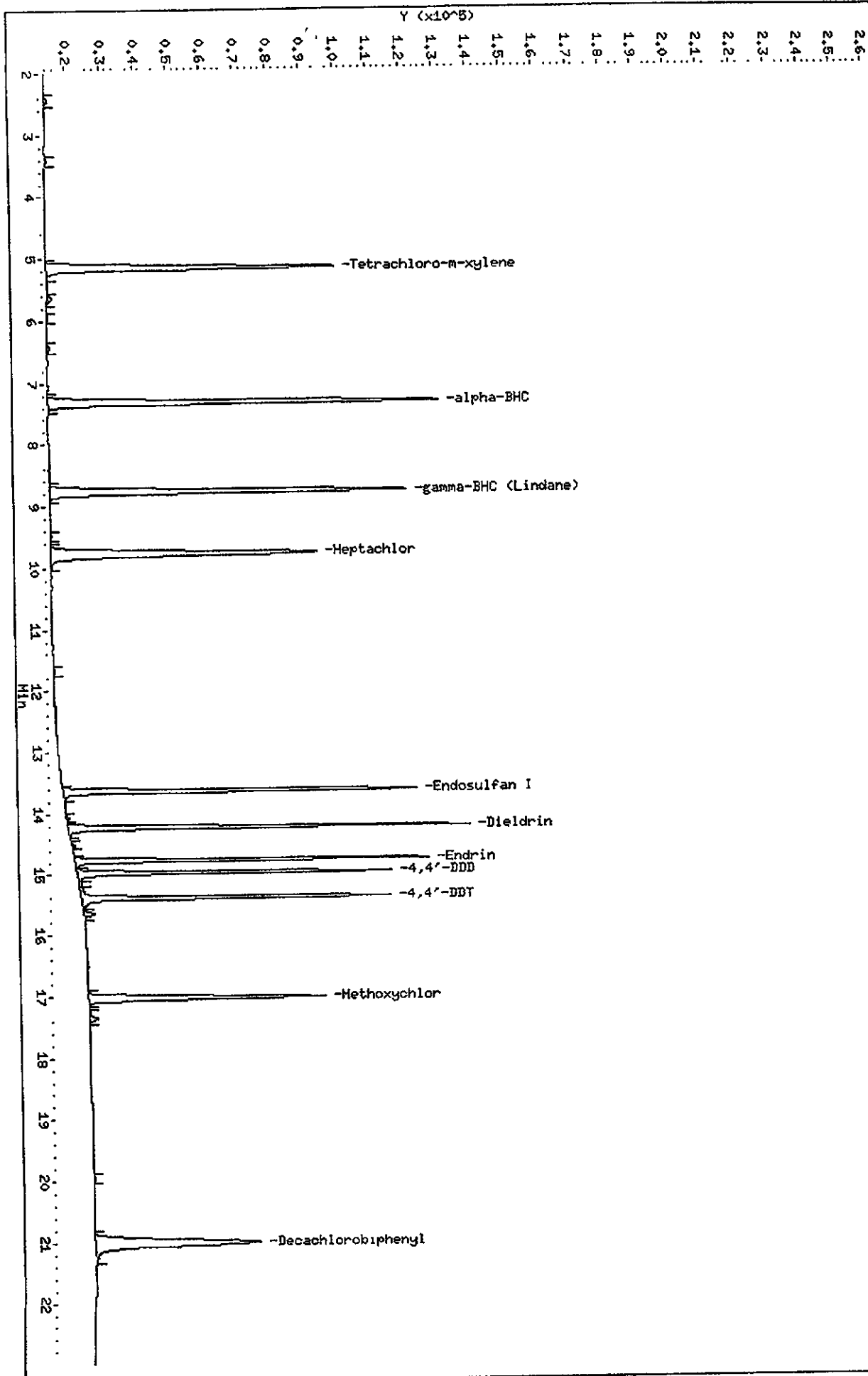
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3116.d
 Lab Smp Id: MHIGHA
 Inj Date : 23-MAR-2001 16:02
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHA,2231-G.b,,3-INDA.sub,,1,4
 Misc Info : 190-100-9
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 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

Data File: \\pp1tpa02\chem\gc4.i\2231-G.b\D-A3116.d
Date: 23-MAR-2001 16:02
Client ID:
Sample Info: HHC18, 2231-G.b, 3-INDA, sub, 1,4
Column phase: RTX-50

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

\\pp1tpa02\chem\gc4.i\2231-G.b\D-A3116.d\D-A3116.RAW



680 404

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3117.d
 Report Date: 26-Mar-2001 11:31

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.

680

405

Data File: \\pittpa02\chem\gc04.i\2231-G.b\D-A3117.d
Date: 23-MAR-2001 16:34

Client ID:

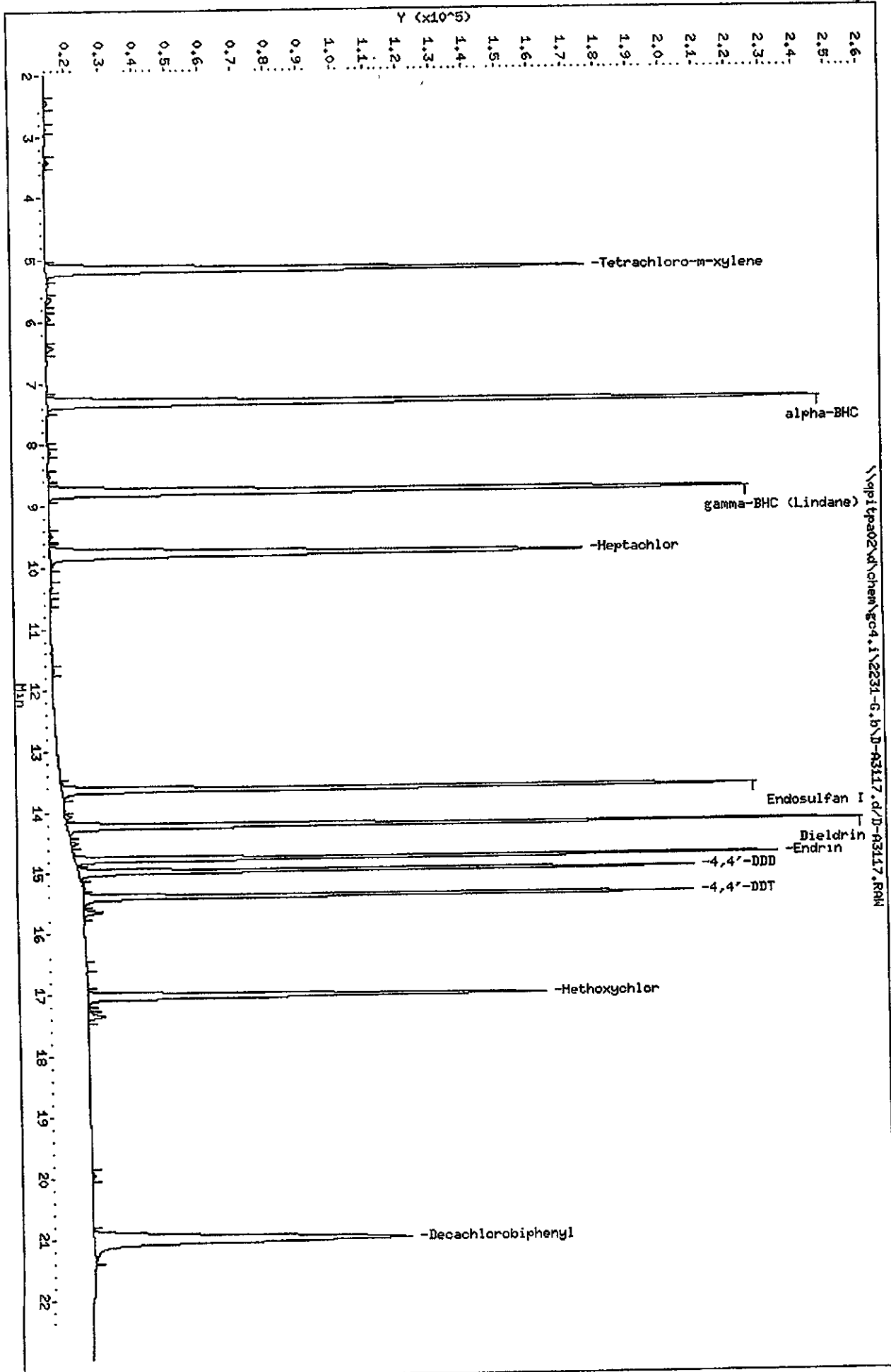
Sample Info: HIC18, 2231-G.b, 3-INDR, sub, 1.5

Column phase: RTX-50

Instrument: gc04.i

Operator: 010139

Column diameter: 0.53



680 406

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3118.d
Report Date: 26-Mar-2001 11:31

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

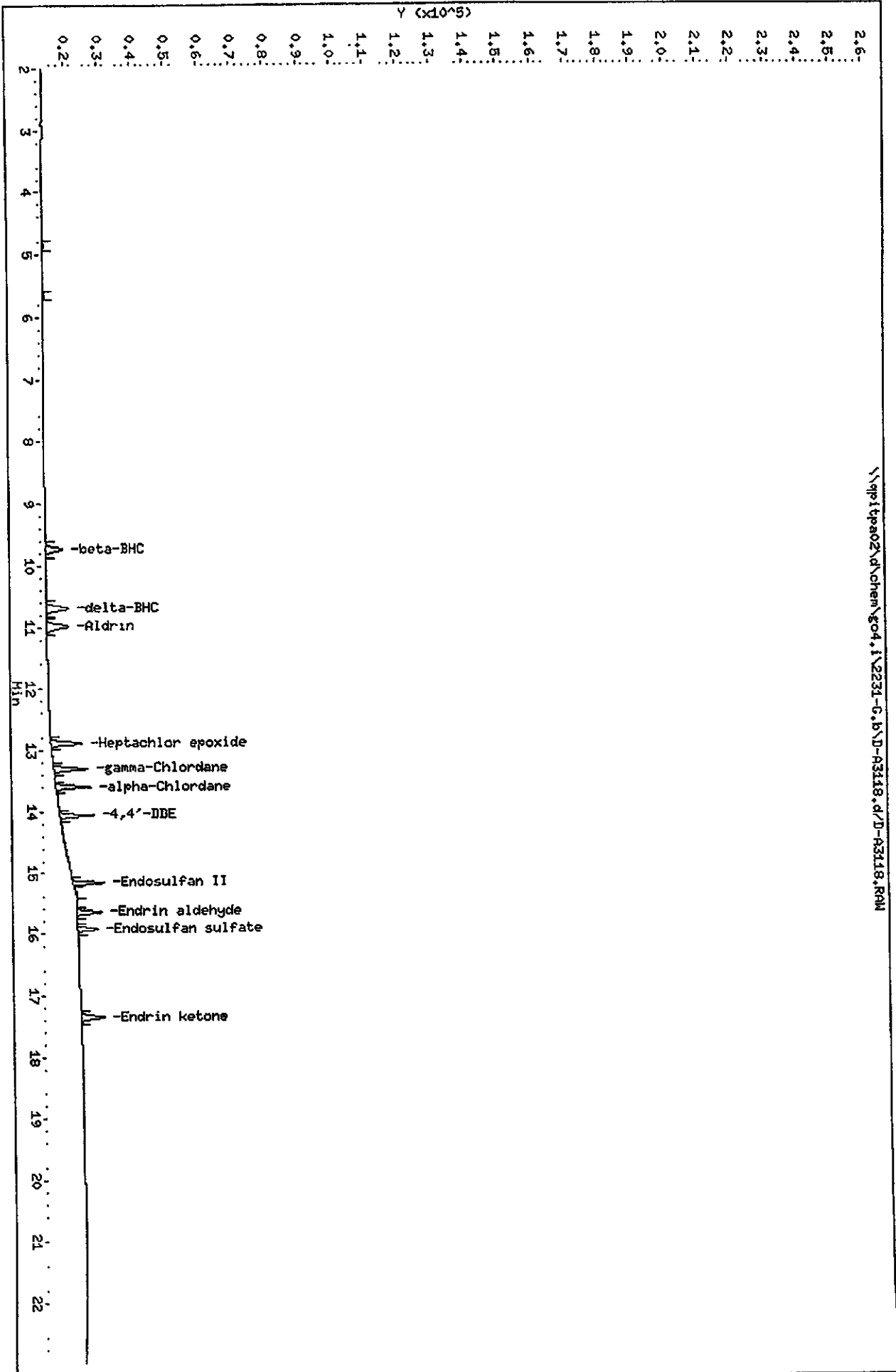
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	6656	0.00500	0.004702
10 beta-BHC	9.726	9.733	-0.007	5101	0.00500	0.004980
11 delta-BHC	10.693	10.700	-0.007	6841	0.00500	0.004389
17 Heptachlor epoxide	12.880	12.880	0.000	9069	0.00500	0.004805
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

680

407

Data File: \\pp1tpa02\chem\g04.i\2231-G.b\D-A3118.d
Date: 23-MAR-2001 16:59
Client ID:
Sample Info: LONB,2231-G.b,4-INDB.sub,1,1
Column phase: RTX-60

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



680 408

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3119.d
Report Date: 26-Mar-2001 11:32

STL-Pittsburgh

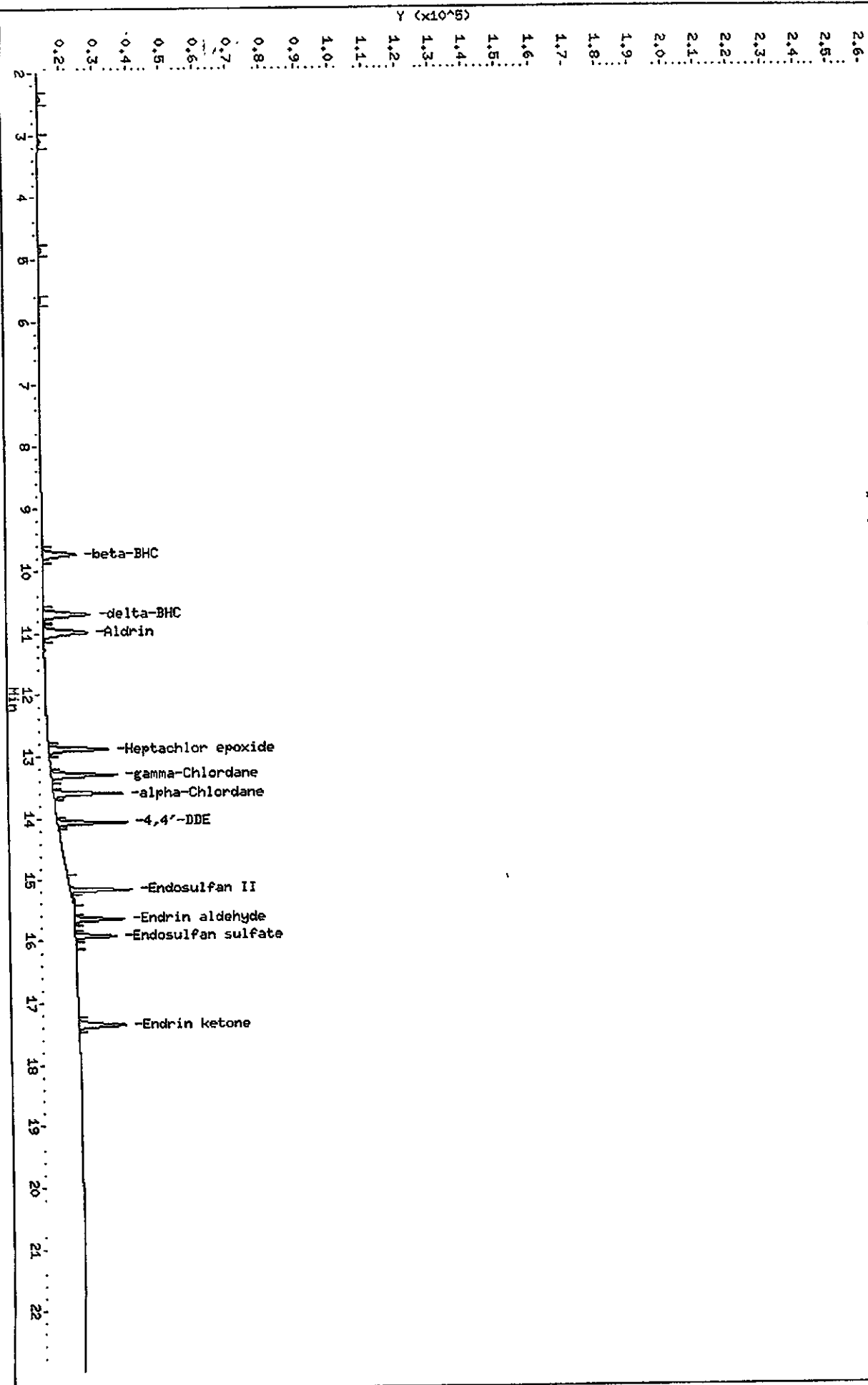
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3119.d
Lab Smp Id: MLOWB
Inj Date : 23-MAR-2001 17:27
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWB,2231-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 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

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\D-A3119.d
Date: 23-MAR-2004 17:27
Client ID:
Sample Info: HL0MB,2231-G.b,,4-INDB.sub.,1,2
Column phase: RTX-50

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

\\ppitpa02\chem\gc4.i\2231-G.b\D-A3119.d\D-A3119.R04



680 410

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3120.d
Report Date: 26-Mar-2001 11:32

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

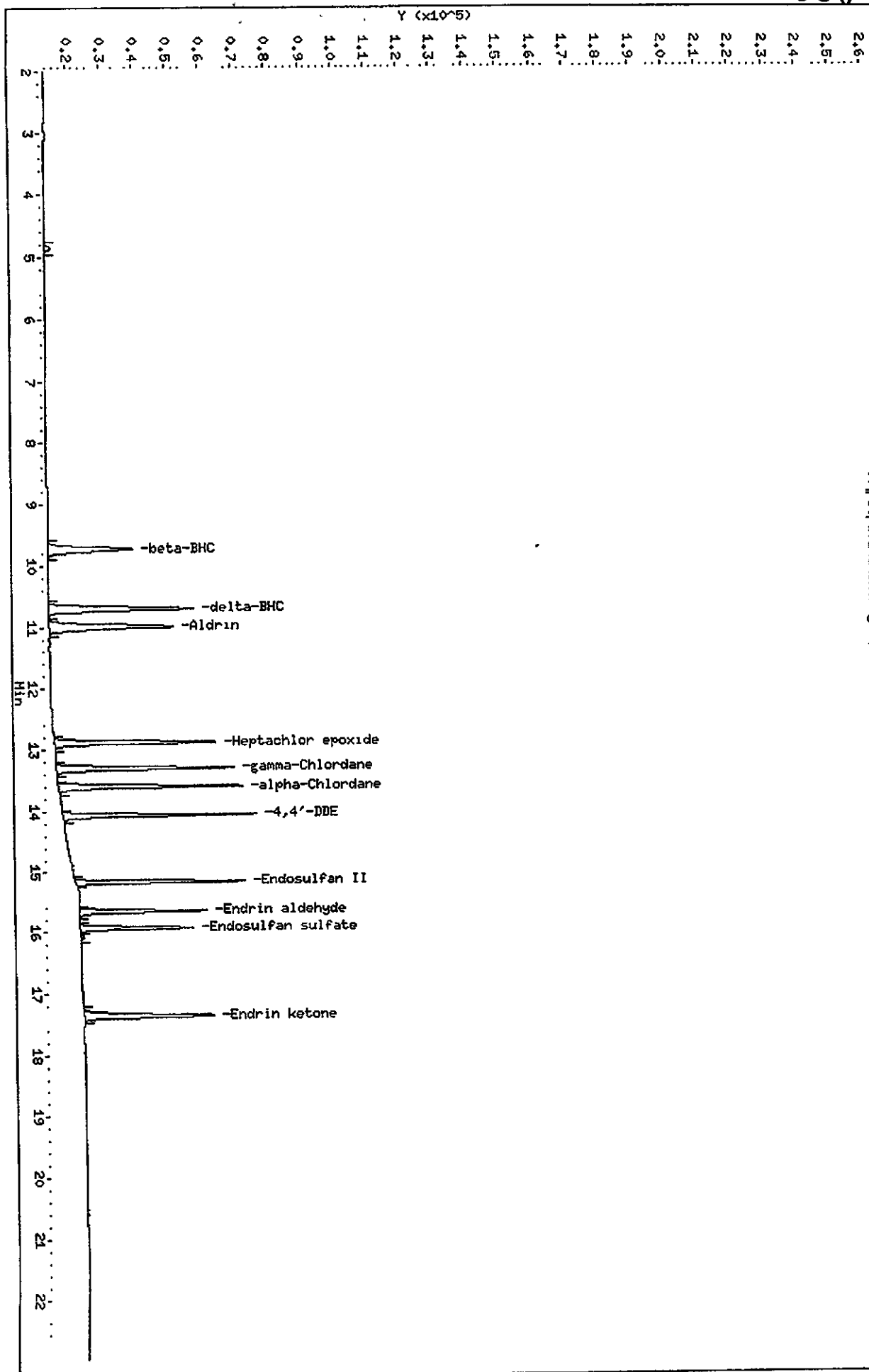
680

411

Data File: \\ppitpa02\chem\go4.i\2231-G.b\D-A3120.d
Date: 23-MAR-2001 17:05
Client ID:
Sample Info: HEDB,2231-G.b,4-INDB.sub,1.3
Column phase: RTX-50

Instrument: go4.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\go4.i\2231-G.b\D-A3120.d\D-A3120.R01



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3121.d
 Report Date: 26-Mar-2001 11:32

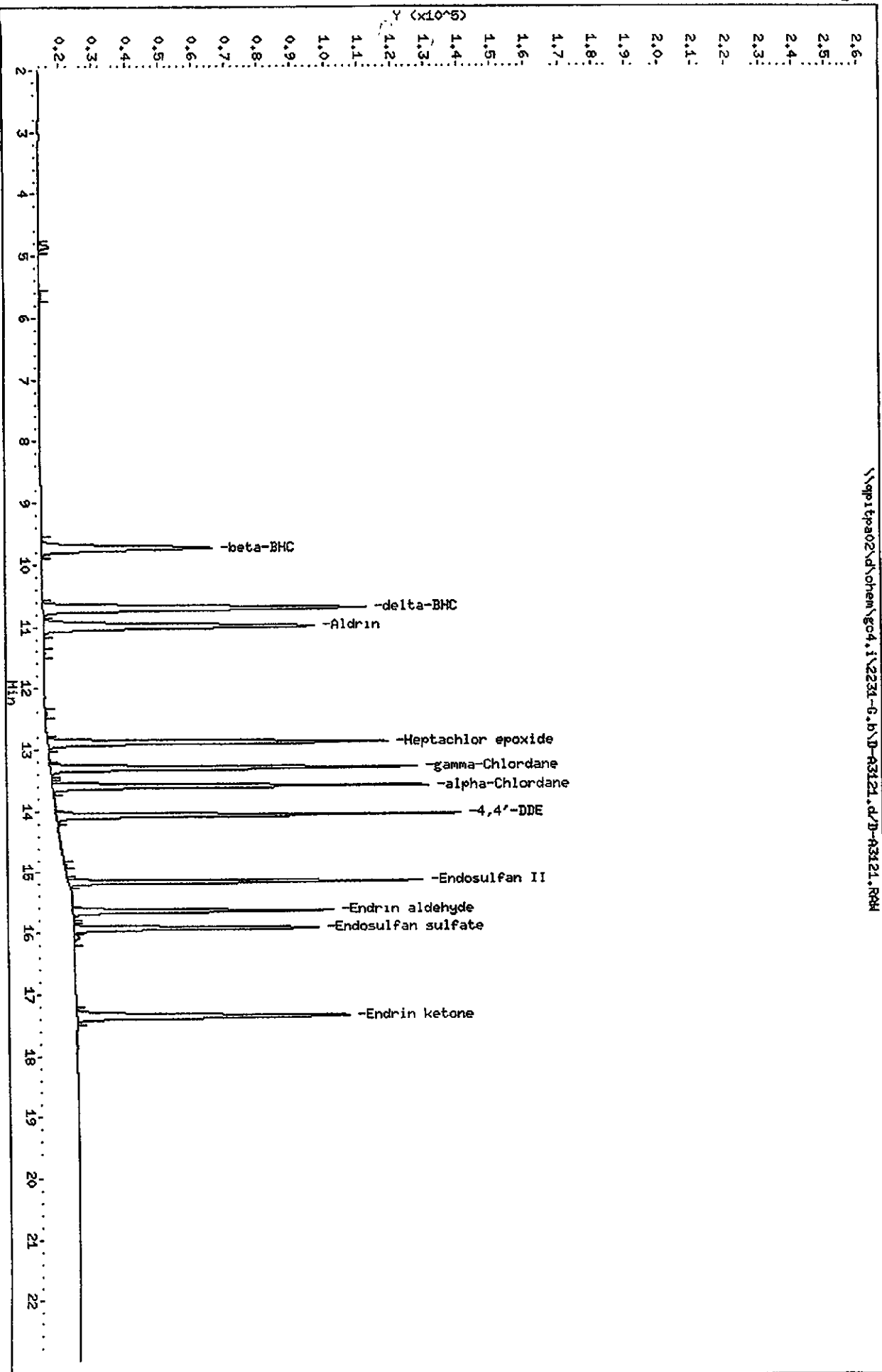
STL-Pittsburgh

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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	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

Data File: \\sp1tpa02\chem\g04.1\2231-G.b\B-A3121.d
Date: 23-MAR-2001 18:23
Client ID:
Sample Info: MHIGHB,2231-G.b,4-IMDB,sub,1,4
Column phase: RTX-50

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



680 414

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3122.d
Report Date: 26-Mar-2001 11:32

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.

680

415

Data File: \\pp1tpa02\chem\gc4.1\2231-G.b\B-A3122.d

Date : 23-MAR-2001 18:52

Client ID:

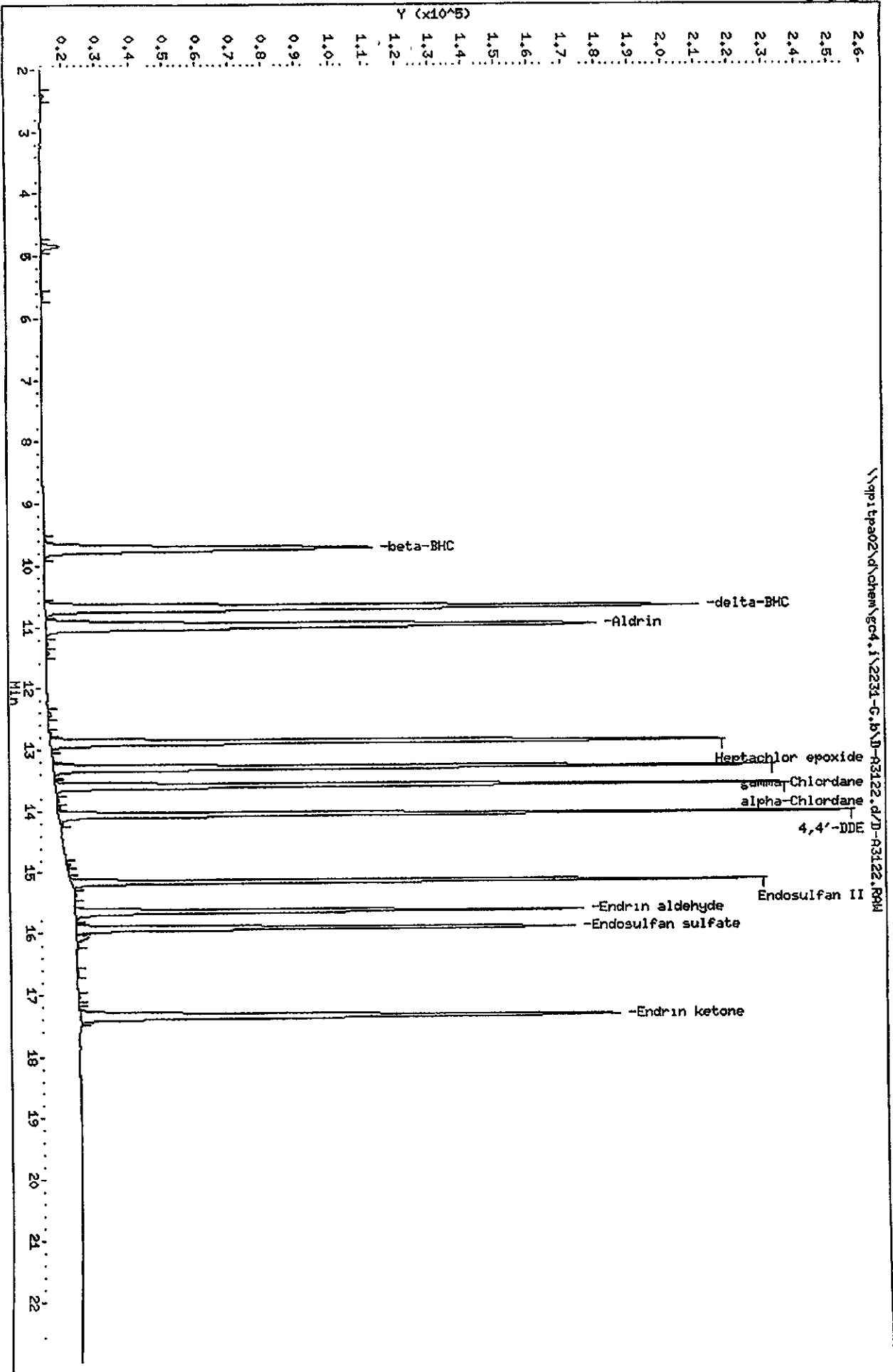
Sample Info: HIGHB,2231-G.b,4-INDB.sub,4,5

Column phase: RTX-50

Instrument: gc4.1

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

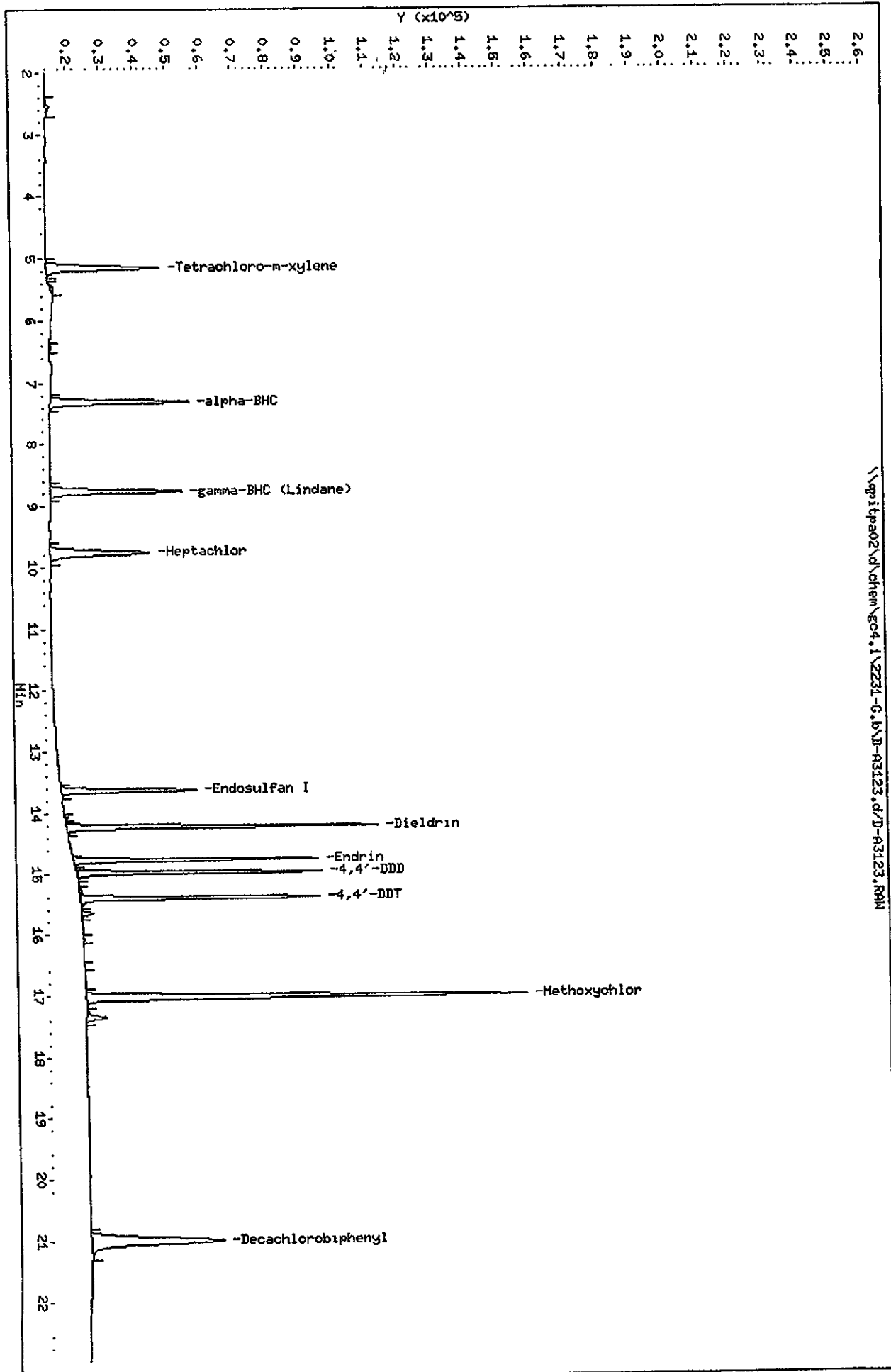
STL-Pittsburgh

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

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (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

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



680 418

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3124.d
Report Date: 26-Mar-2001 11:33

STL-Pittsburgh

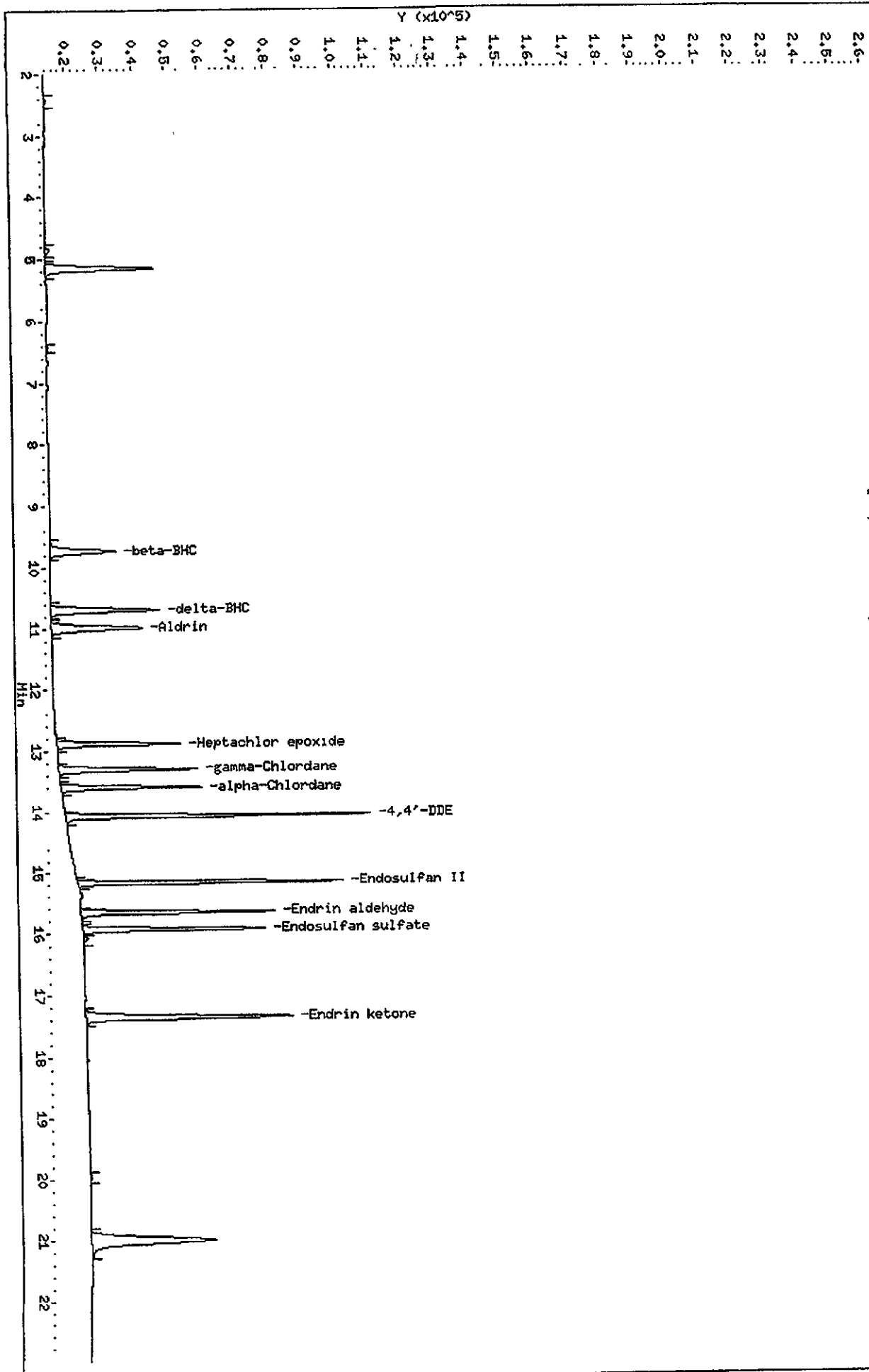
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3124.d
Lab Smp Id: 2ND B
Inj Date : 23-MAR-2001 19:48
Operator : 010139 Inst ID: gc4.i
Smp Info : 2ND B,2231-G.b,,INDB.sub,,2,3
Misc Info : 190-101-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 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

Data File: \\p1tpa02\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

\\p1tpa02\chem\gc4.i\2231-G.b\D-A3124.d\D-A3124.RAW



680 420

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3125.d
Report Date: 26-Mar-2001 11:33

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.

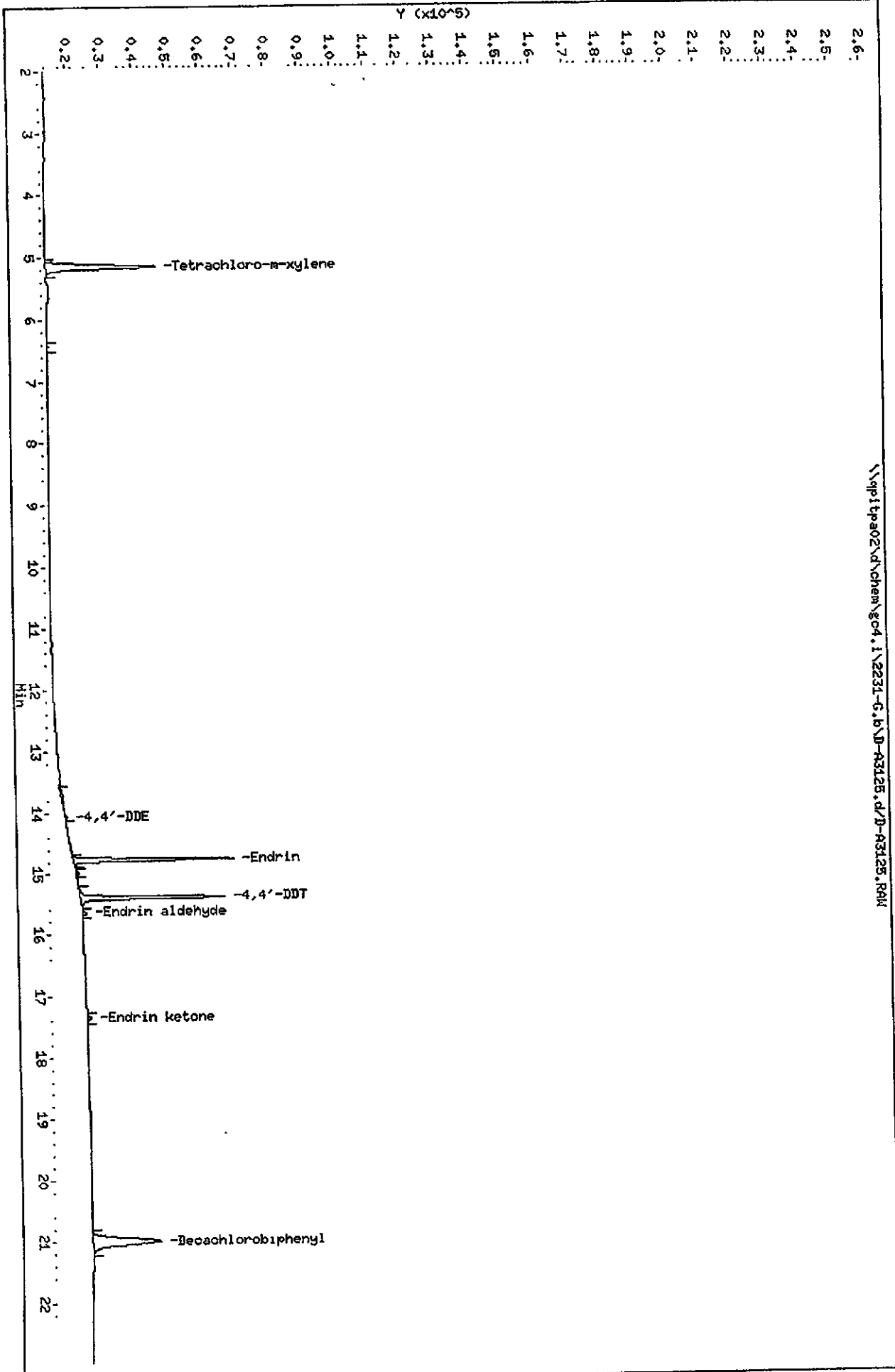
DDT = 1.4
Endrin = 5.2

680

421

Data File: \\vpitpa02\chem\gc04.1\2231-G.b\B-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: gc04.1
Operator: 010139
Column diameter: 0.53



680 422

Data File: \\gpitpa02\d\chem\gc4.i\2231-G.b\D-A3182.d
 Report Date: 27-Mar-2001 13:16

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\2231-G.b\D-A3182.d
 Lab Smp Id: EVALB
 Inj Date : 26-MAR-2001 18:01
 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 : \\gpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	31419	0.01846	0.01846 (R)
22 4,4'-DDE	14.060	14.060	0.000	545	0.00024	0.0002402
26 Endrin	14.760	14.760	0.000	44382	0.02278	0.02278
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.393	15.393	0.000	39161	0.02235	0.02235
33 Endrin aldehyde	15.646	15.646	0.000	1040	<0.0	0.0006777
37 Endrin ketone	17.353	17.353	0.000	877	<0.0	0.0005720
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	17386	0.01719	0.01719 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

*DDT = 1.4
Endrin = 4.1*

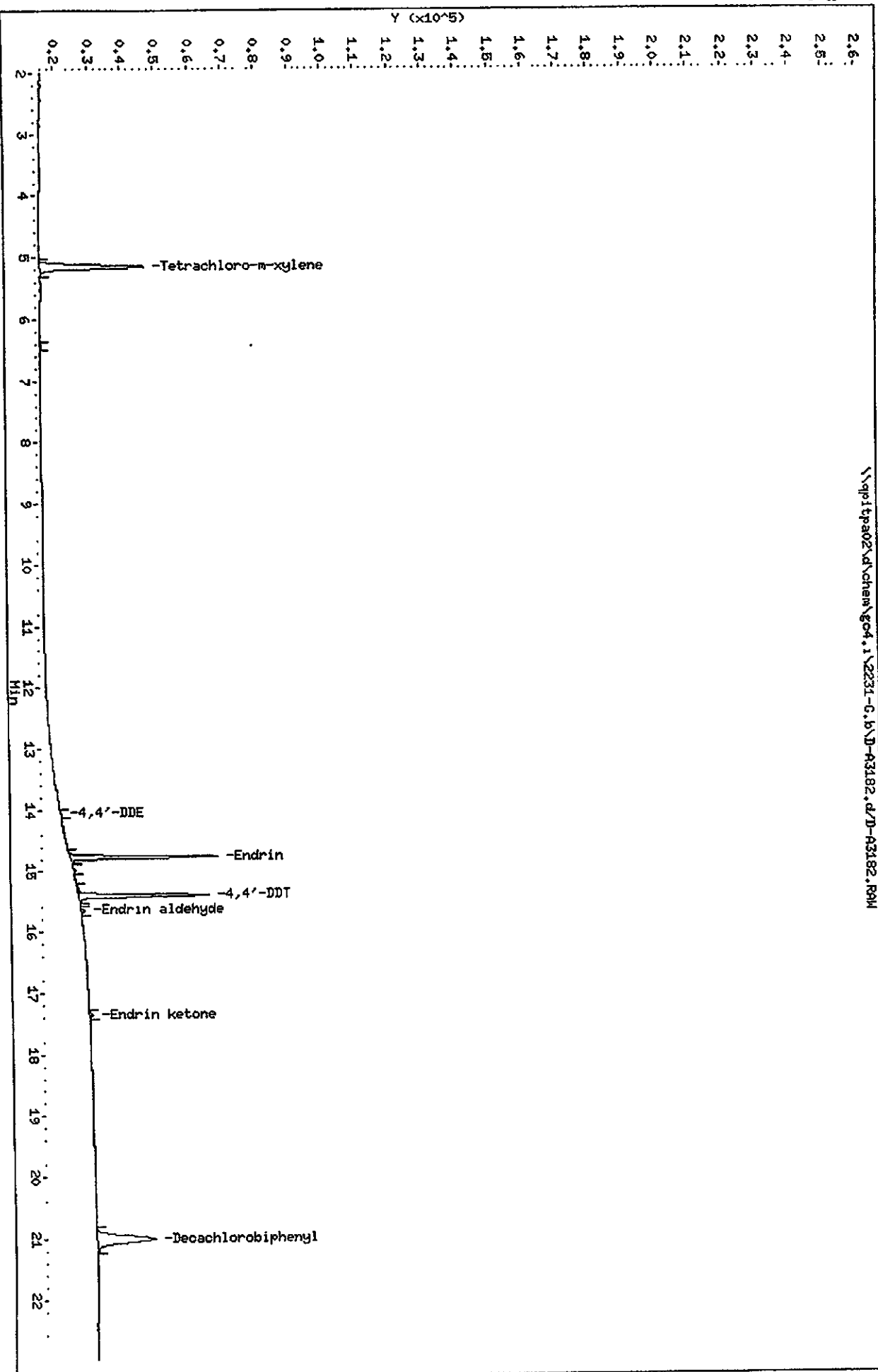
680

423

Data File: \\q1tpa02\chem\gc4.1\2231-G,b,D-A3182.d
Date: 26-MAR-2001 18:01
Client ID:
Sample Info: EVALB,2231-G,b,EVALBR,sub,3,1
Column phase: RTX-B0

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

\\q1tpa02\chem\gc4.1\2231-G,b,D-A3182.d\7-A3182.R01



680 424

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3183.d
 Report Date: 27-Mar-2001 13:16

STL-Pittsburgh

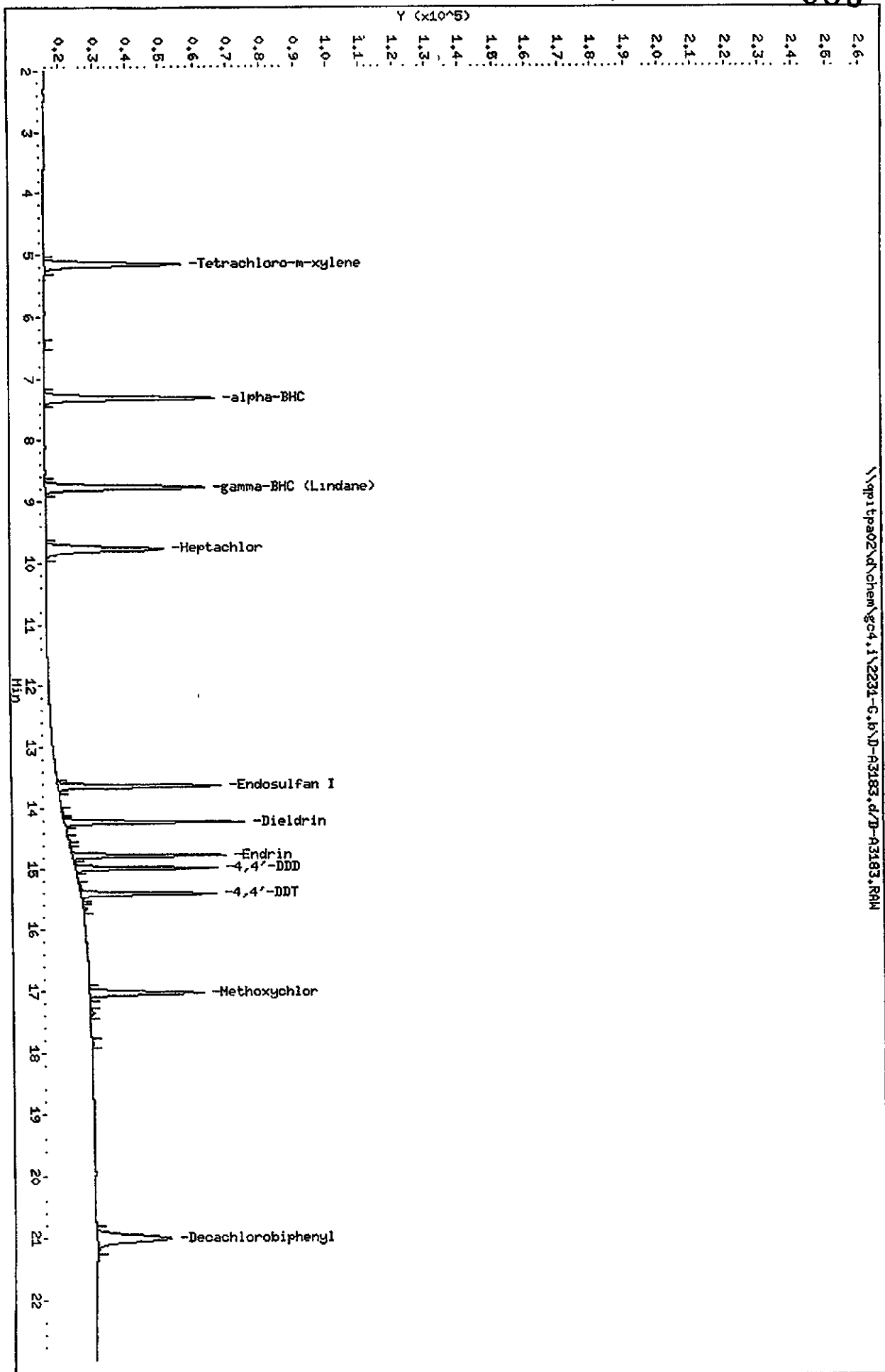
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3183.d
 Lab Smp Id: MEDA
 Inj Date : 26-MAR-2001 18:29
 Operator : 010139
 Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 matkol
 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

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	41180	0.02500	0.02419
6 alpha-BHC	7.313	7.313	0.000	51020	0.02500	0.02468
7 gamma-BHC (Lindane)	8.766	8.766	0.000	47614	0.02500	0.02448
9 Heptachlor	9.766	9.766	0.000	34837	0.02500	0.02266
20 Endosulfan I	13.626	13.626	0.000	48424	0.02500	0.02392
23 Dieldrin	14.226	14.226	0.000	53551	0.02500	0.02402
26 Endrin	14.760	14.760	0.000	45787	0.02500	0.02350
29 4,4'-DDD	14.973	14.973	0.000	42398	0.02500	0.02425
32 4,4'-DDT	15.393	15.393	0.000	40412	0.02500	0.02306
35 Methoxychlor	17.020	17.020	0.000	33768	0.05000	0.04845
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	22149	0.02500	0.02190

Data File: \\pp1tpa02\chem\gc4.1\2231-G.b.D-A3183.d
Date: 26-MAR-2001 18:29
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



680 426

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3184.d
 Report Date: 27-Mar-2001 13:16

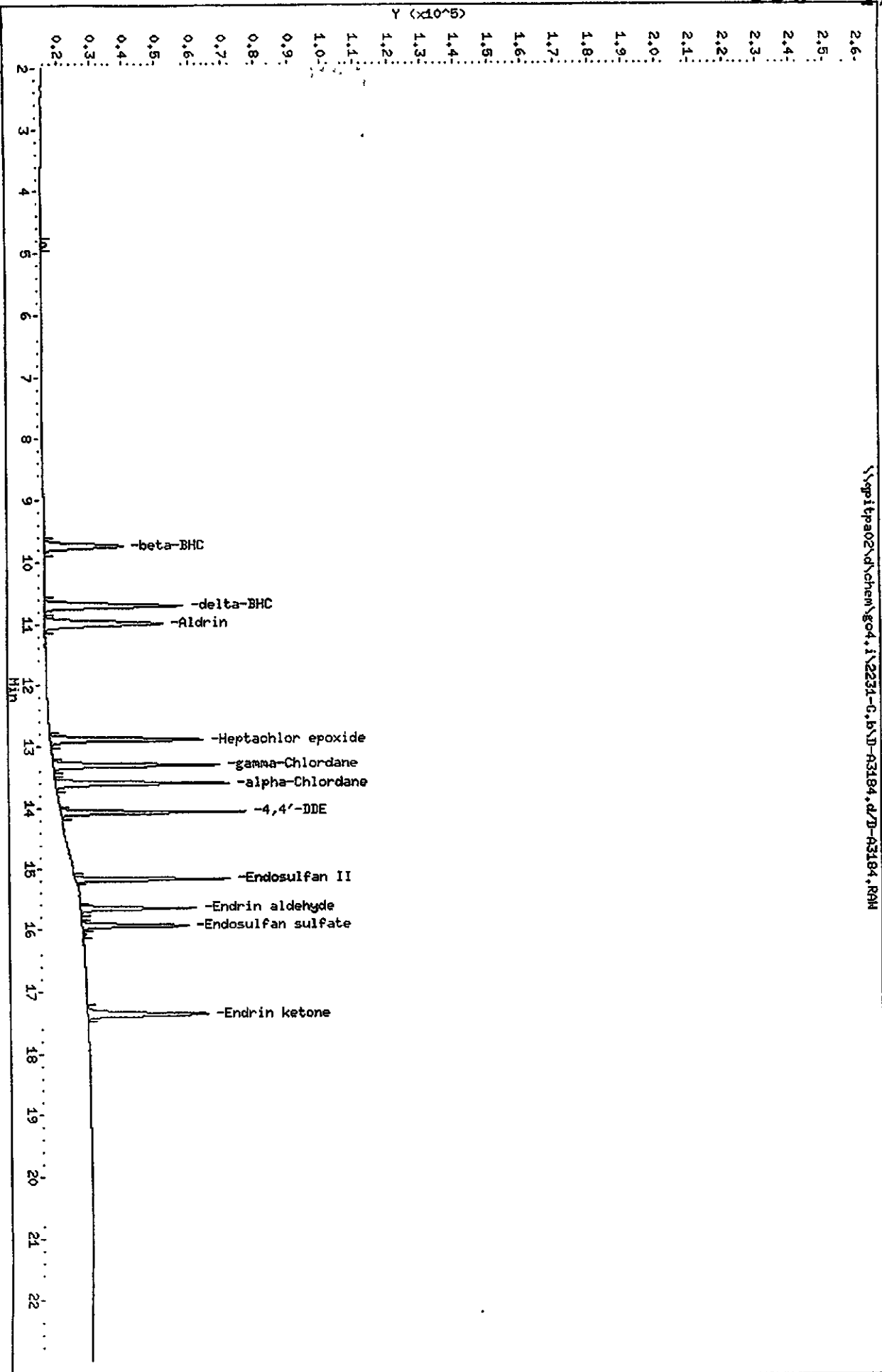
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3184.d
 Lab Smp Id: MEDB
 Inj Date : 26-MAR-2001 18:57
 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 : 27-Mar-2001 13:12 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	35734	0.02500	0.02400
10 beta-BHC	9.733	9.733	0.000	24000	0.02500	0.02372
11 delta-BHC	10.700	10.700	0.000	42005	0.02500	0.02481
17 Heptachlor epoxide	12.880	12.880	0.000	46284	0.02500	0.02400
18 gamma-Chlordane	13.300	13.300	0.000	50509	0.02500	0.02399
19 alpha-Chlordane	13.593	13.593	0.000	52404	0.02500	0.02403
22 4,4'-DDE	14.060	14.060	0.000	56104	0.02500	0.02472
31 Endosulfan II	15.153	15.153	0.000	46966	0.02500	0.02347
33 Endrin aldehyde	15.646	15.646	0.000	35102	0.02500	0.02288
34 Endosulfan sulfate	15.926	15.926	0.000	32234	0.02500	0.02375
37 Endrin ketone	17.353	17.353	0.000	36593	0.02500	0.02387

Data File: \\spitpa02\chem\gc4.i\2231-G.b\D-A3184.d
Date: 26-MAR-2001 18:57
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



680 428

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3200.d
 Report Date: 27-Mar-2001 13:19

STL-Pittsburgh

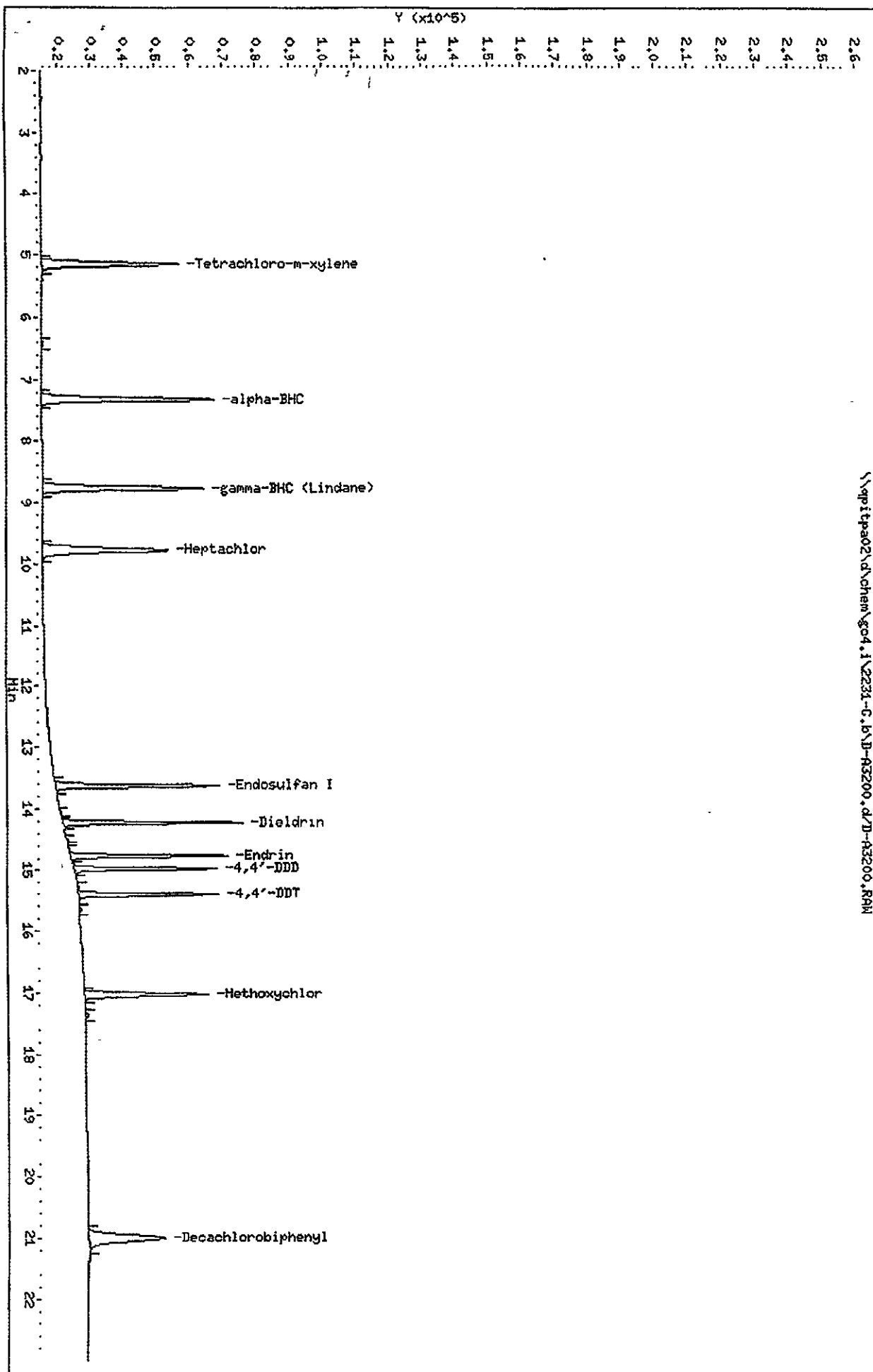
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3200.d
 Lab Smp Id: MEDA
 Inj Date : 27-MAR-2001 02:27
 Operator : 010139
 Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 matkol
 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

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	41927	0.02500	0.02463
6 alpha-BHC	7.313	7.313	0.000	52380	0.02500	0.02534
7 gamma-BHC (Lindane)	8.766	8.766	0.000	49026	0.02500	0.02521
9 Heptachlor	9.766	9.766	0.000	38204	0.02500	0.02486
20 Endosulfan I	13.626	13.626	0.000	49848	0.02500	0.02463
23 Dieldrin	14.220	14.226	-0.006	54815	0.02500	0.02458
26 Endrin	14.760	14.760	0.000	47812	0.02500	0.02454
29 4,4'-DDD	14.973	14.973	0.000	43113	0.02500	0.02466
32 4,4'-DDT	15.393	15.393	0.000	42617	0.02500	0.02432
35 Methoxychlor	17.020	17.020	0.000	37637	0.05000	0.05400
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	23351	0.02500	0.02309

Data File: \\pippa02\chem\god.1\2231-G.b.D-A3200.d
Date: 27-MAR-2001 02:27
Client ID:
Sample Info: HED9,2231-G.b.,IND9,sub.,2,3
Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3201.d
Report Date: 27-Mar-2001 13:19

680 430

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Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3201.d
Lab Smp Id: MEDB
Inj Date : 27-MAR-2001 02:55
Operator : 010139
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 : 27-Mar-2001 13:12 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

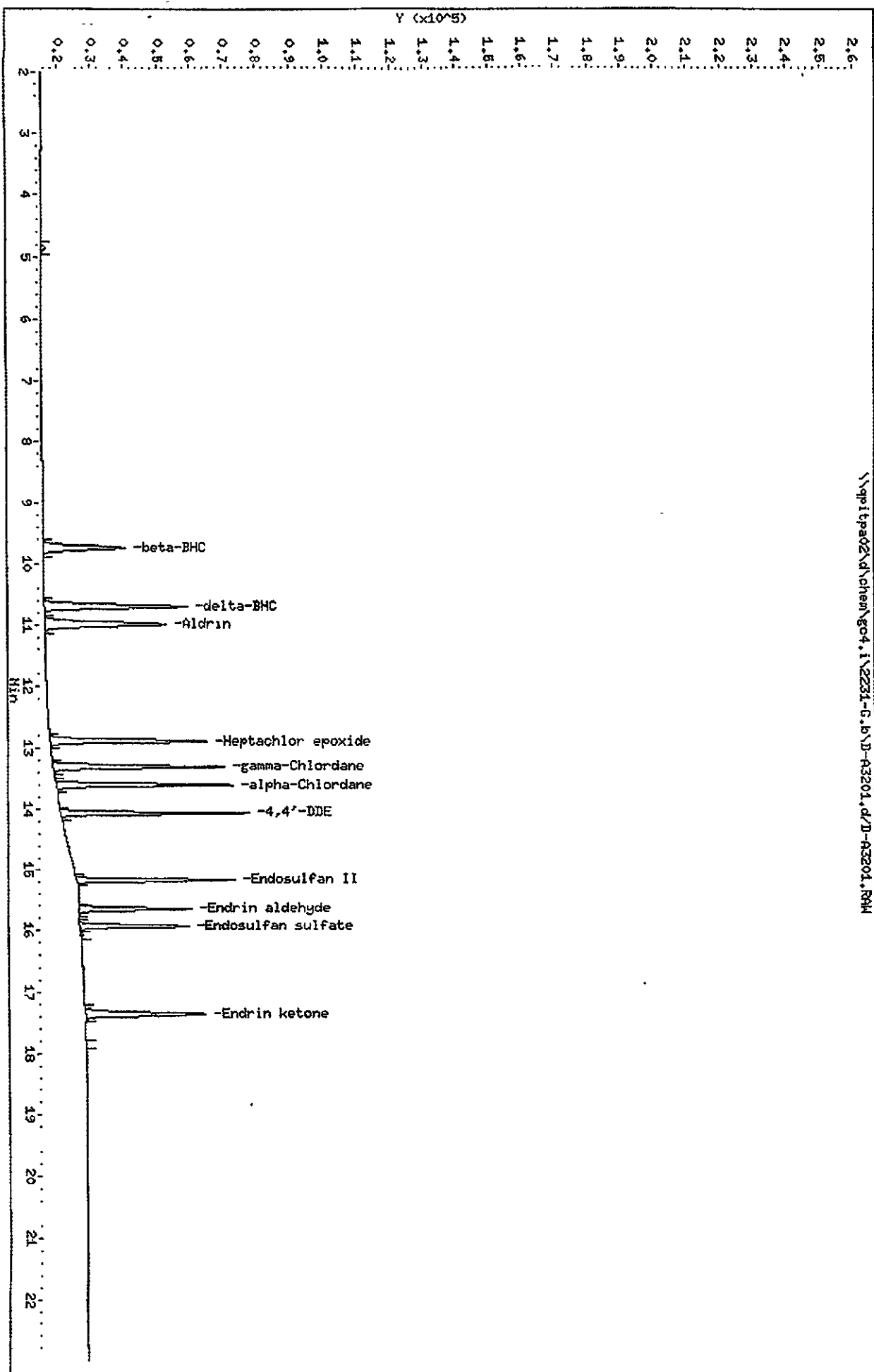
Compound Sublist: INDB.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	36642	0.02500	0.02461
10 beta-BHC	9.733	9.733	0.000	24499	0.02500	0.02421
11 delta-BHC	10.700	10.700	0.000	43645	0.02500	0.02578
17 Heptachlor epoxide	12.880	12.880	0.000	47559	0.02500	0.02466
18 gamma-Chlordane	13.293	13.300	-0.007	51860	0.02500	0.02464
19 alpha-Chlordane	13.593	13.593	0.000	53668	0.02500	0.02461
22 4,4'-DDE	14.060	14.060	0.000	57120	0.02500	0.02517
31 Endosulfan II	15.153	15.153	0.000	47975	0.02500	0.02397
33 Endrin aldehyde	15.646	15.646	0.000	34045	0.02500	0.02219
34 Endosulfan sulfate	15.926	15.926	0.000	32850	0.02500	0.02420
37 Endrin ketone	17.353	17.353	0.000	36698	0.02500	0.02394

680 431

Data File: \\qpitpa02\chem\gc4.i\2231-G.b\D-A3201.d
Date: 27-MAR-2001 02:55
Client ID:
Sample Info: MEDB, 2231-G.b, INDB, sub, 2,3
Column phase: RTX-50

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



Report Date : 27-Mar-2001 12:39

6D
58904B
RTX-1701

680 432

STL-Pittsburgh

COMPOUND LISTING

Method file : \\gpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Quant Method : ESTD Target Version : 4.04
Last Update : 27-Mar-2001 12:22 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	5.400	5.350-5.450	1.09e+006
6 alpha-BHC	8.107	8.057-8.157	1.28e+006
7 gamma-BHC (Lindane)	9.473	9.423-9.523	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	10.300	10.250-10.350	1.22e+006
10 beta-BHC	12.120	12.070-12.170	7.37e+005
11 delta-BHC	12.727	12.677-12.777	1.40e+006
13 Aldrin	11.260	11.210-11.310	1.17e+006
17 Heptachlor epoxide	13.167	13.117-13.217	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	13.720	13.670-13.770	1.51e+006
22 4,4'-DDE	14.073	14.023-14.123	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	15.220	15.170-15.270	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	15.347	15.297-15.397	1.54e+006

Report Date : 27-Mar-2001 12:39

6D
589046
RTx-1701

680 433

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	15.480	15.430-15.530	1.30e+006
33 Endrin aldehyde	16.027	15.977-16.077	7.30e+005
34 Endosulfan sulfate	16.613	16.563-16.663	8.13e+005
35 Methoxychlor	16.513	16.463-16.563	6.47e+005
37 Endrin ketone	17.487	17.437-17.537	1.14e+006
\$ 38 Decachlorobiphenyl	19.927	19.877-19.977	9.52e+005

680 434

62
589048
RT-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

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	RRF	% 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

Report Date : 26-Mar-2001 09:16

6E
58904B
RTX-1701

680 435

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	RRF	% 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

AVC-8.76

680 436

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 : 1313

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
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): ~~7.37~~Combined % breakdown (1): ~~12.83~~ 10.6

53

mm
3/26/01

FORM VII PEST-1

OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: _____ Contract: **680 437**

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~~ ^{5.6}

Combined % breakdown (1): ~~11.55~~ ^{9.4}

hm
3/26/01

680 438

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 : 03/26/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1801

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.66	14.61	14.71	0.02603	0.02500	4.1
4,4'-DDT	15.48	15.43	15.53	0.02470	0.02500	-1.2
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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

~~4.87~~ 4.4

Endrin % breakdown (1):

~~6.20~~

Combined % breakdown (1):

~~11.07~~ 8.6

4.2

lm 3/27/01

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3183.d
 Report Date: 27-Mar-2001 12:21

76
 589045
 RTx 1701

STL-Pittsburgh

680 439

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-MAR-2001 18:29
 Lab File ID: D-B3183.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	1128120	0.000	3 6 15.0
6 alpha-BHC	1284582	1319720	0.010	2.7 15 0
7 gamma-BHC (Lindane)	1180788	1222160	0.010	3.5 15 0
9 Heptachlor	1221916	1232720	0.010	0.9 15.0
20 Endosulfan I	1510542	1531480	0.010	1 4 15.0
23 Dieldrin	1639410	1655560	0.010	1.0 15.0
26 Endrin	1249952	1337760	0.010	7 0 15 0
29 4,4'-DDD	1203262	1251840	0.010	4.0 15.0
32 4,4'-DDT	1296068	1286800	0.010	-0.7 15.0
35 Methoxychlor	647122	669160	0.010	3.4 15 0
\$ 38 Decachlorobiphenyl	951608	934840	0.010	-1.8 15.0

680 440

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3184.d
 Report Date: 27-Mar-2001 12:22

72
 589046
 RTx-1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-MAR-2001 18:58
 Lab File ID: D-B3184.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	RFD	MIN	MAX
13 Aldrin	1168186	1158040	0.010	-0.9 15.0
10 beta-BHC	737268	766560	0.010	4.0 15.0
11 delta-BHC	1398234	1482040	0.010	6.0 15.0
17 Heptachlor epoxide	1486372	1518120	0.010	2.1 15.0
18 gamma-Chlordane	1658020	1638120	0.010	-1.2 15.0
19 alpha-Chlordane	1644514	1672680	0.010	1.7 15.0
22 4,4'-DDE	1590374	1654160	0.010	4.0 15.0
31 Endosulfan II	1541480	1462120	0.010	-5.1 15.0
33 Endrin aldehyde	729558	745000	0.010	2.1 15.0
34 Endosulfan sulfate	813016	863960	0.010	6.3 15.0
37 Endrin ketone	1137248	1170640	0.010	2.9 15.0

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3200.d
Report Date: 27-Mar-2001 12:46

72
3801B
RTX-1701

STL-Pittsburgh

680 441

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-MAR-2001 02:27
Lab File ID: D-B3200.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	RF0	MIN	MAX
			RRF	%D
\$ 2 Tetrachloro-m-xylene	1088426	1113520	0.000	2.3
6 alpha-BHC	1284582	1307400	0.010	1.8
7 gamma-BHC (Lindane)	1180788	1213200	0.010	2.7
9 Heptachlor	1221916	1209200	0.010	-1.0
20 Endosulfan I	1510542	1511520	0.010	0.1
23 Dieldrin	1639410	1635560	0.010	-0.2
26 Endrin	1249952	1345440	0.010	7.6
29 4,4'-DDD	1203262	1274880	0.010	6.0
32 4,4'-DDT	1296068	1300040	0.010	0.3
35 Methoxychlor	647122	661440	0.010	2.2
\$ 38 Decachlorobiphenyl	951608	940760	0.010	-1.1

680 442

7E

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3201.d
 Report Date: 27-Mar-2001 12:47

589046
 RTx-1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-MAR-2001 02:55
 Lab File ID: D-B3201.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	RRF	%D	MAX
-----	-----	-----	-----	-----	-----	-----
13 Aldrin	1168186	1145520	0.010	-1.9	15.0	
10 beta-BHC	737268	752720	0.010	2.1	15.0	
11 delta-BHC	1398234	1483000	0.010	6.1	15.0	
17 Heptachlor epoxide	1486372	1492680	0.010	0.4	15.0	
18 gamma-Chlordane	1658020	1641920	0.010	-1.0	15.0	
19 alpha-Chlordane	1644514	1643680	0.010	-0.1	15.0	
22 4,4'-DDE	1590374	1633480	0.010	2.7	15.0	
31 Endosulfan II	1541480	1471360	0.010	-4.5	15.0	
33 Endrin aldehyde	729558	745360	0.010	2.2	15.0	
34 Endosulfan sulfate	813016	892800	0.010	9.8	15.0	
37 Endrin ketone	1137248	1181200	0.010	3.9	15.0	

8D
PESTICIDE ANALYTICAL SEQUENCE

680 443

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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: 5.40			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	EVALB	03/26/01	1801	5.40	19.93
18	MEDA	03/26/01	1829	5.40	19.93
19	MEDB	03/26/01	1858		
20	DF/24-B/1080 DXRH21AD	03/26/01	1926	5.37	19.93
21	DF/24-B/1080 DXRKF1AP	03/26/01	2022	5.37	19.93
22	PBLK4105 DXX2E1AA	03/26/01	2118	5.40	19.93
23	LCS4105 DXX2E1AC	03/26/01	2146	5.40	19.93
24	LCD4105 DXX2E1AD	03/26/01	2214	5.40	19.93
25	MEDA	03/27/01	0227	5.40	19.93
26	MEDB	03/27/01	0255		
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.

680 444

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3110.d
 Report Date: 26-Mar-2001 10:13

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
 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
 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
 QC Sample: PEM
 Compound Sublist: EVALBR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (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

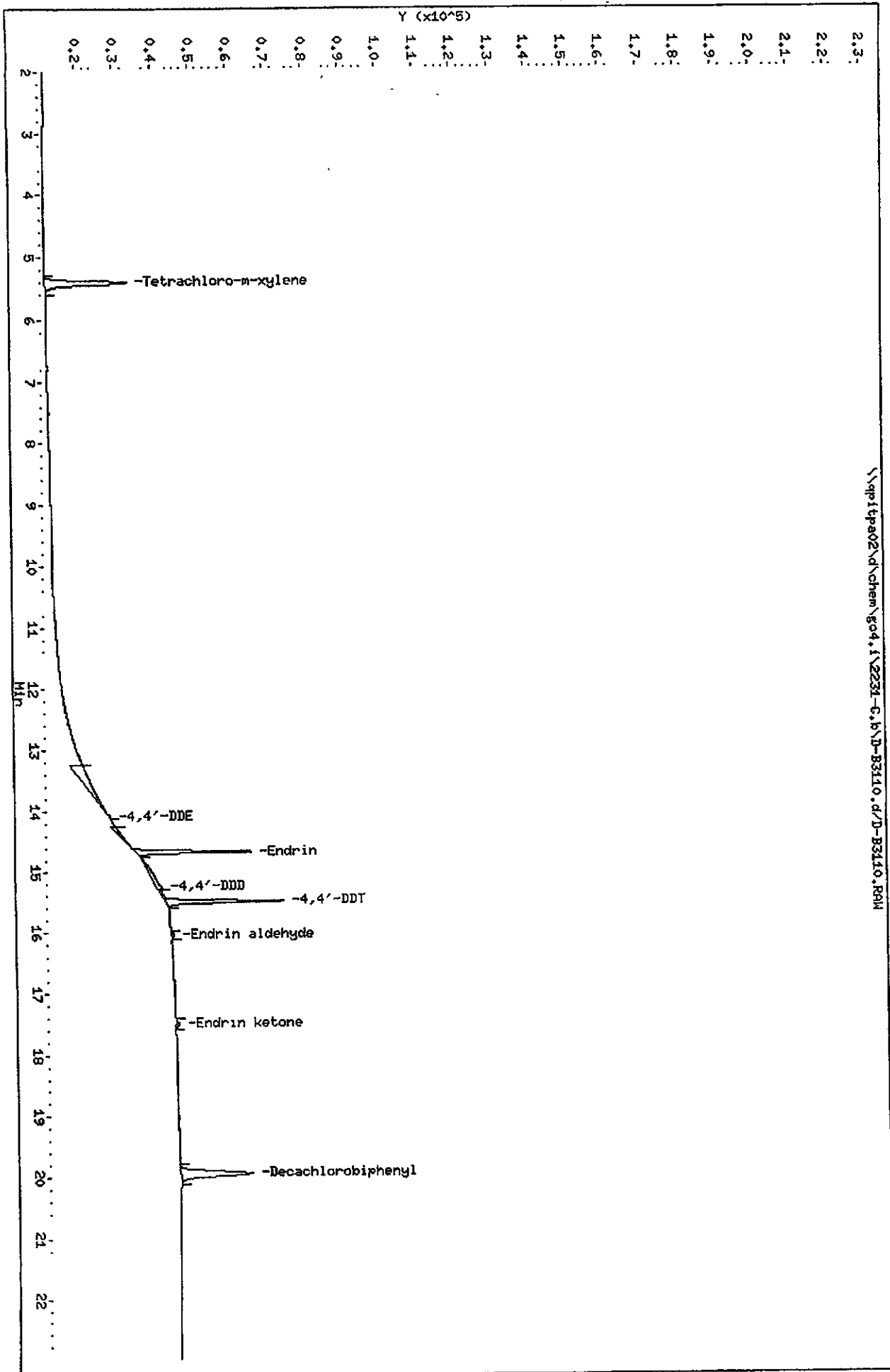
R - Spike/Surrogate failed recovery limits.

DDT = 5.3
 Endrin = 5.3

Data File: \\pp1tpa02\chem\god,1\2231-G,b\B3110.d
 Date : 23-MAR-2001 13:13
 Client ID:
 Sample Info: EVALB,2231-G,b,EVALBR,sub,3,1
 Column phase: RTX-1701

Instrument: god,1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\god,1\2231-G,b\B3110.d\B3110.R01M



680 446

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3111.d
Report Date: 26-Mar-2001 10:13

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

680

447

Data File: \\pittpa02\chem\gc4.1\2231-G.b\B3111.d

Date: 23-MAR-2001 13:41

Client ID:

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

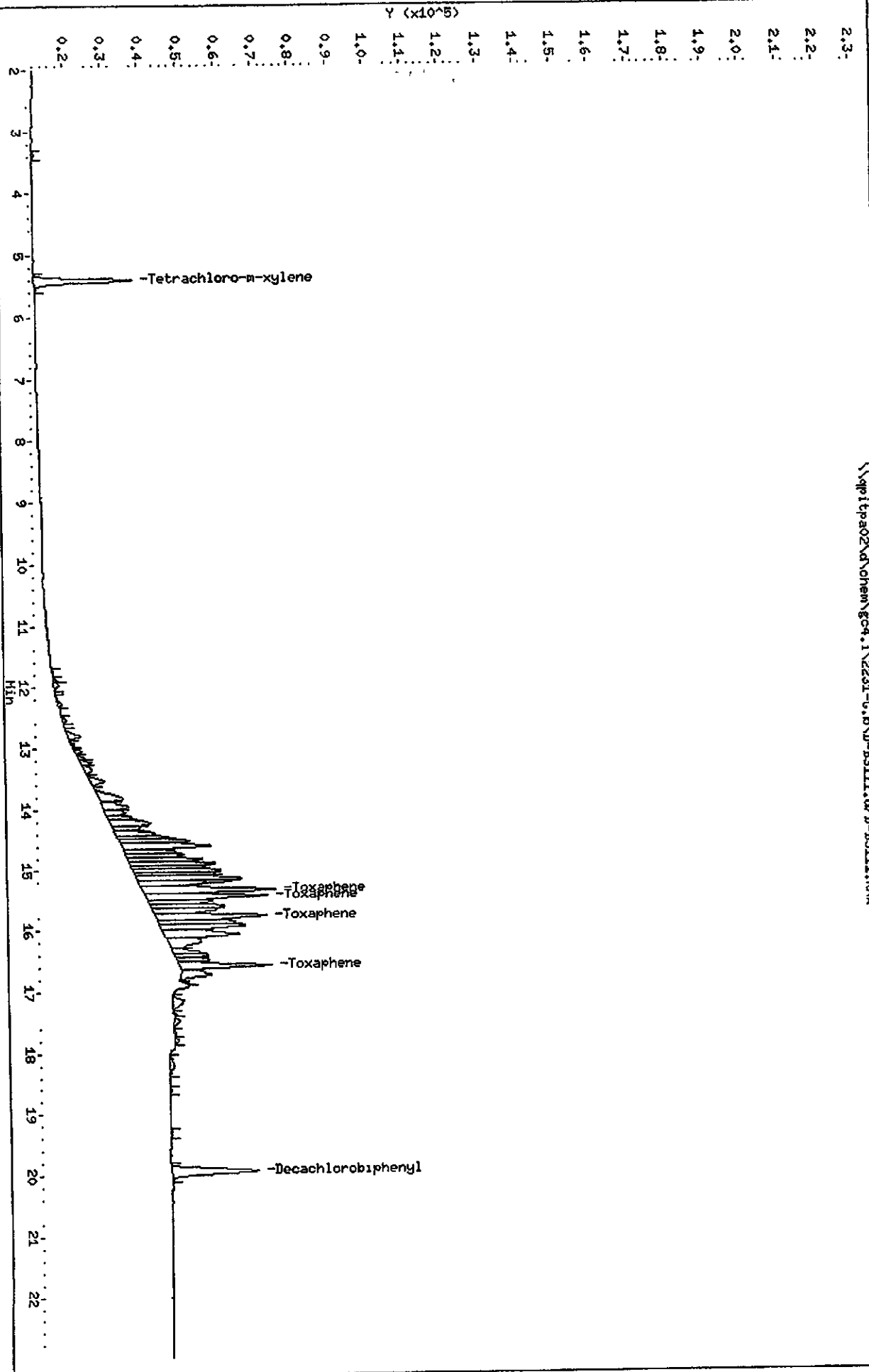
Column phase: RTX-1701

Instrument: gc4.1

Operator: Q10139

Column diameter: 0.53

\\pittpa02\chem\gc4.1\2231-G.b\B3111.d\B3111.R04



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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	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: \\qptpa02\chem\gc4.i\2231-G,b,D-B3112.d

Date: 23-MAR-2001 14:10

Client ID:

Sample Info: HEDCHLOR,2231-G,b,,2-CHLO,sub,,1,3

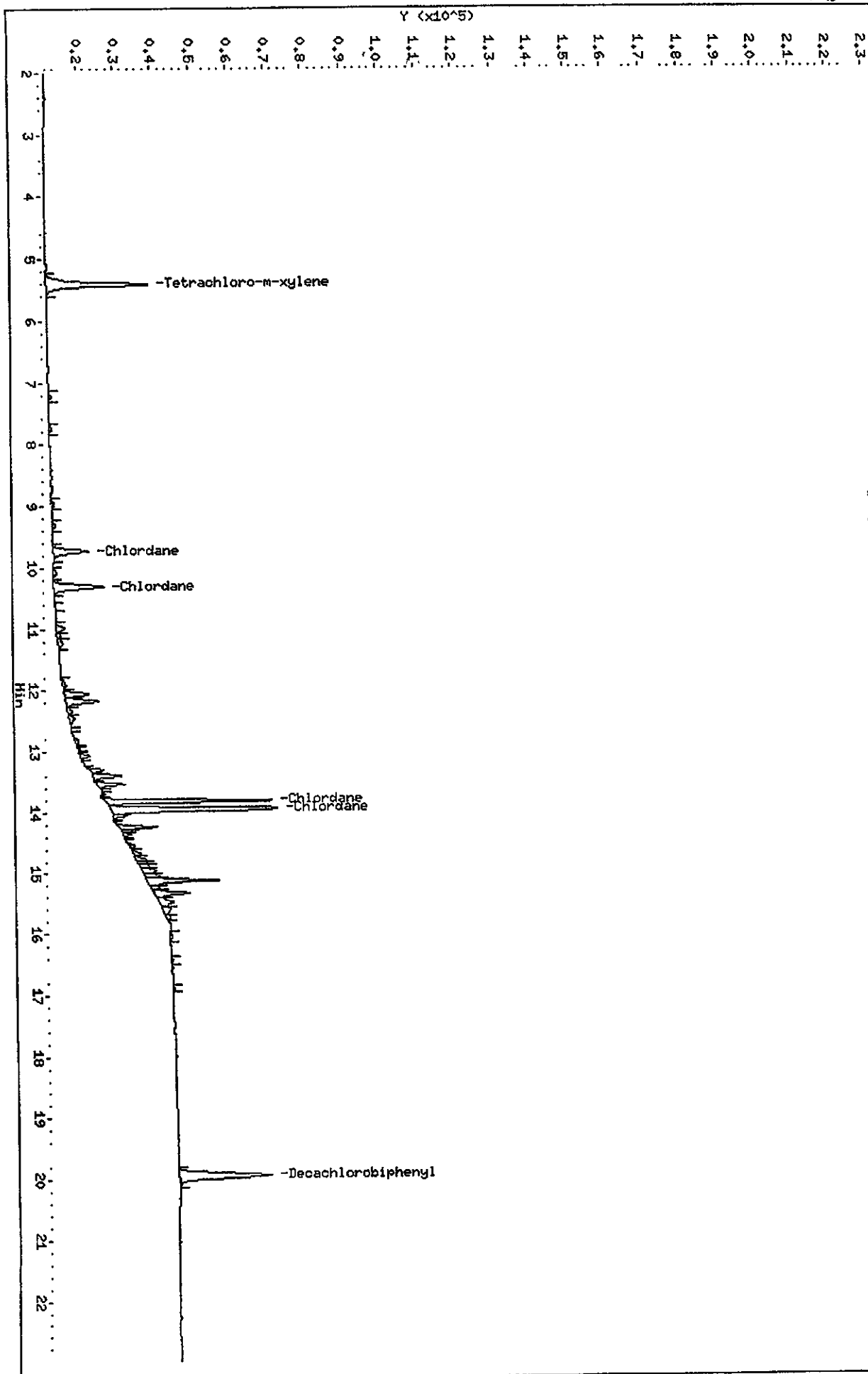
Column phase: RTX-1701

Instrument: gc4.i

Operator: 010139

Column diameter: 0.53

\\qptpa02\chem\gc4.i\2231-G,b,D-B3112.d/D-B3112.RAW



Data File Name: D-B3112.d

680 450

Inj Date and Time: 23-MAR-2001 14:10

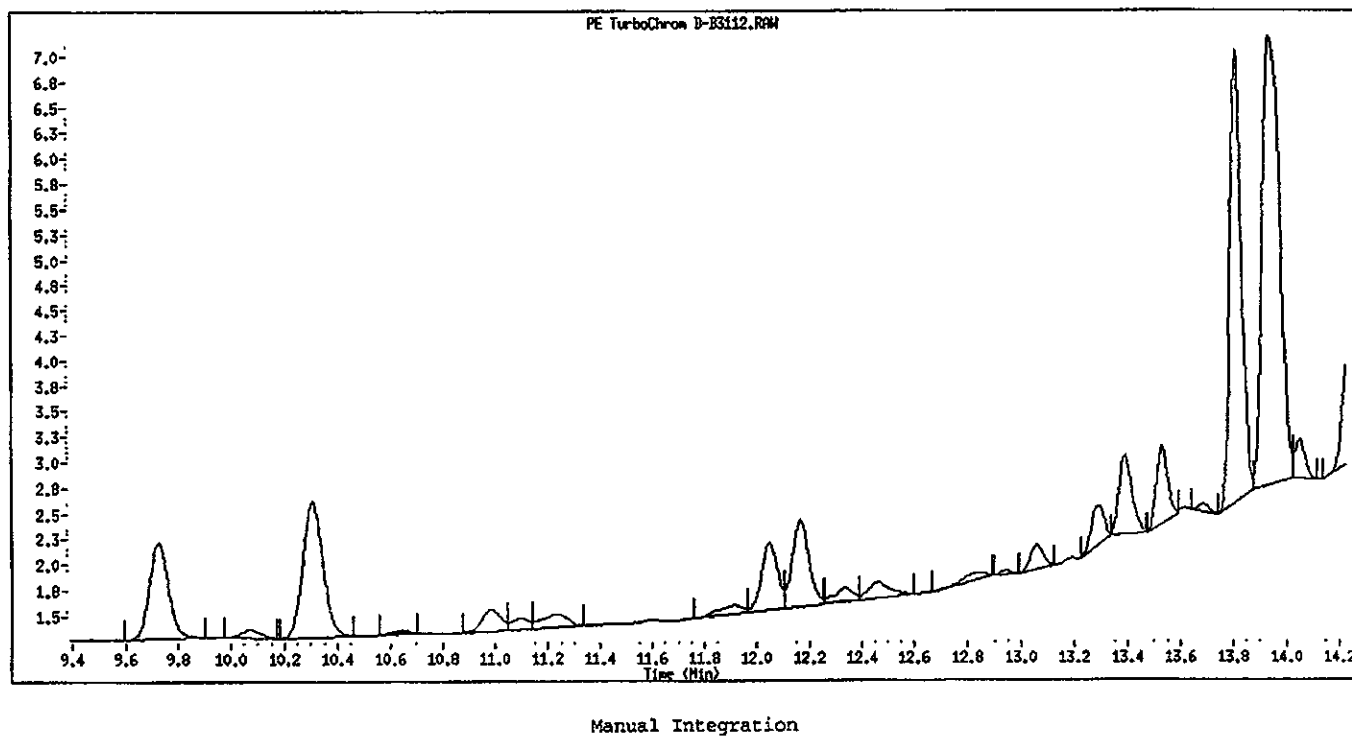
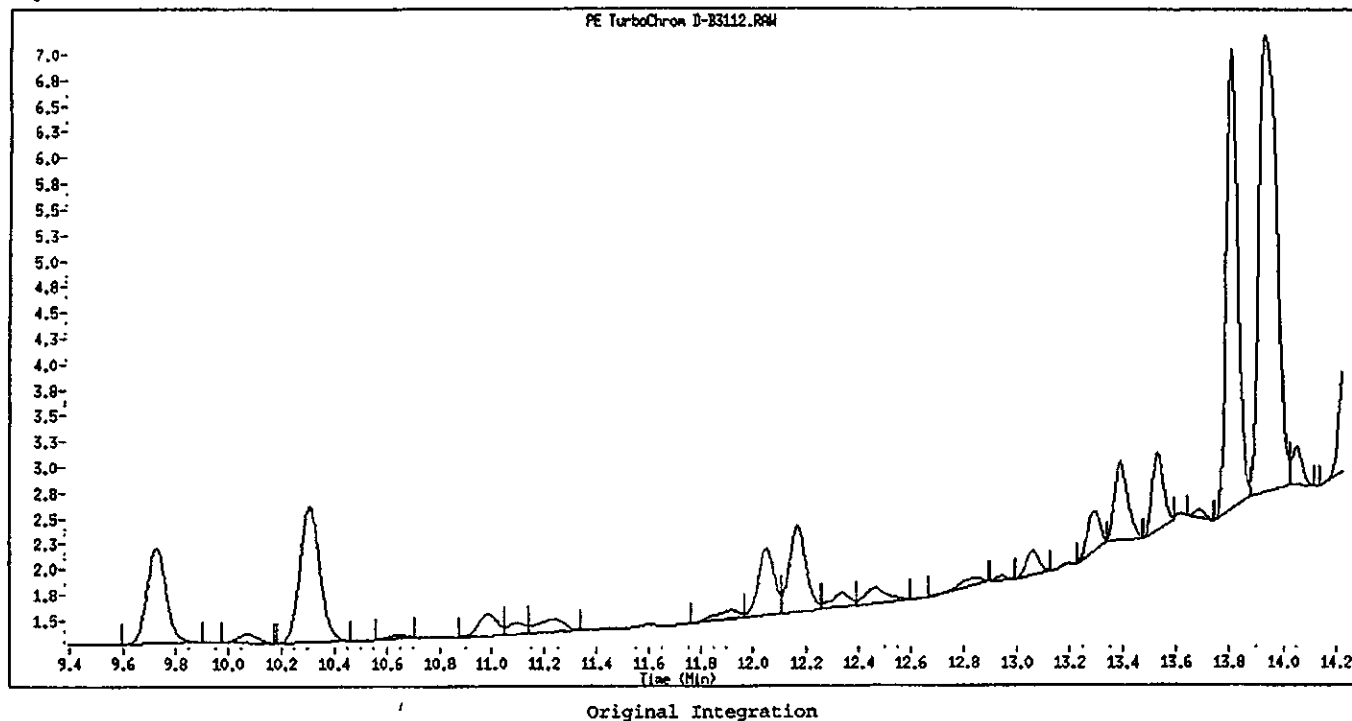
Instrument ID: gc4 1

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-B3113.d
Report Date: 26-Mar-2001 10:14

680 451

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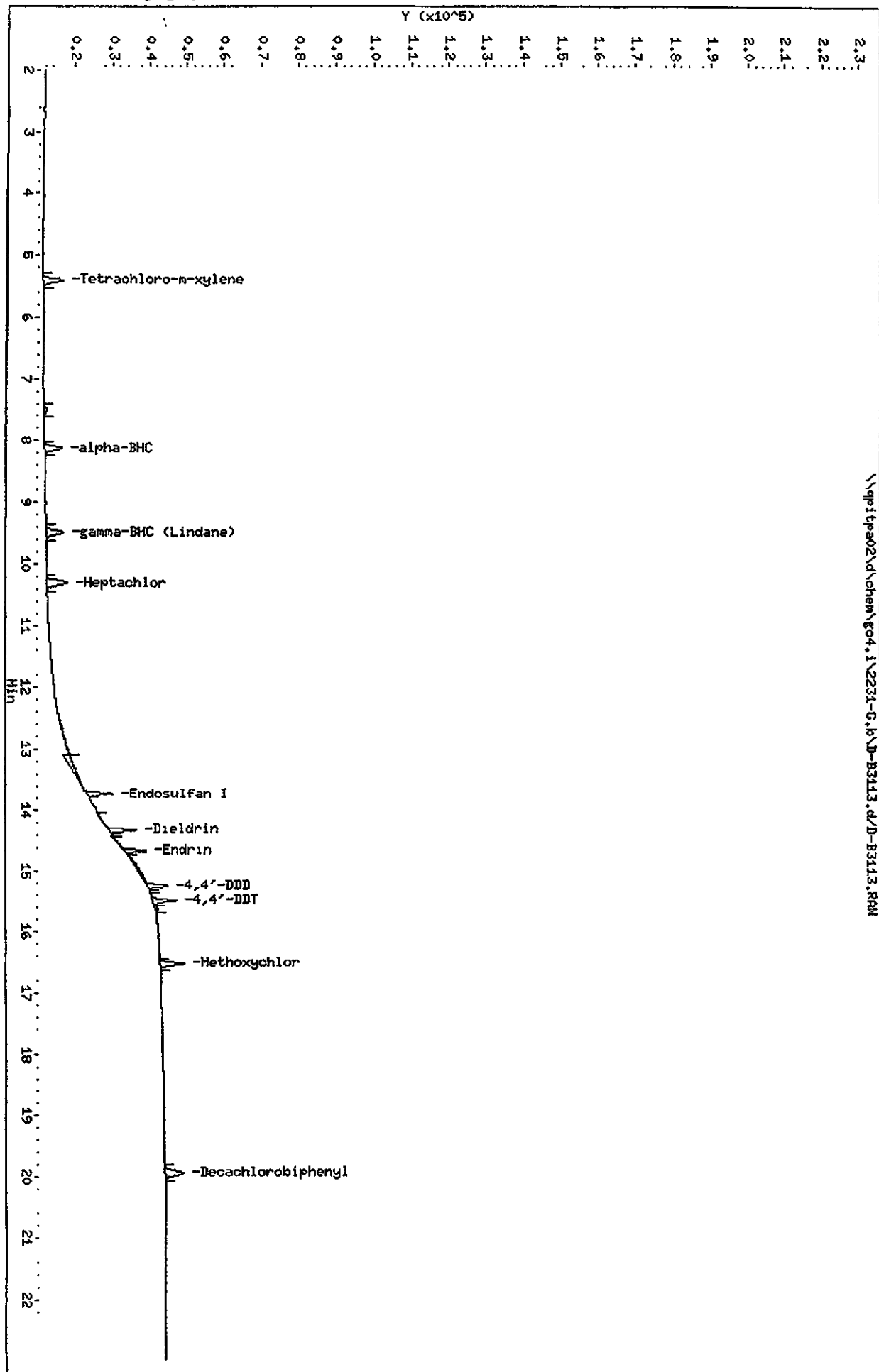
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3113.d
Lab Smp Id: LOWA
Inj Date : 23-MAR-2001 14:38
Operator : 010139 Inst ID: gc4.i
Smp Info : LOWA,2231-G.b,,3-INDA.sub,,1,1
Misc Info : 190-100-6
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 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

		AMOUNTS					
		RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
Compounds						(ng)	(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

680 452

Data File: \\ppitp02\chem\gc4.1\2231-G.b\D-B3113.d
 Date : 23-MAR-2001 14:38
 Client ID:
 Sample Info: LQMA,2231-G,b,3-INDR,sub,4,1
 Column phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3114.d
 Report Date: 26-Mar-2001 10:14

680 453

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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
 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
 Cal Date : 23-MAR-2001 17:55
 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-B3120.d
 Calibration Sample, Level: 2
 Compound Sublist: 3-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	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\gc04.1\2231-G.b\D-B3114.d
Date: 23-MAR-2001 15:06

Client ID:

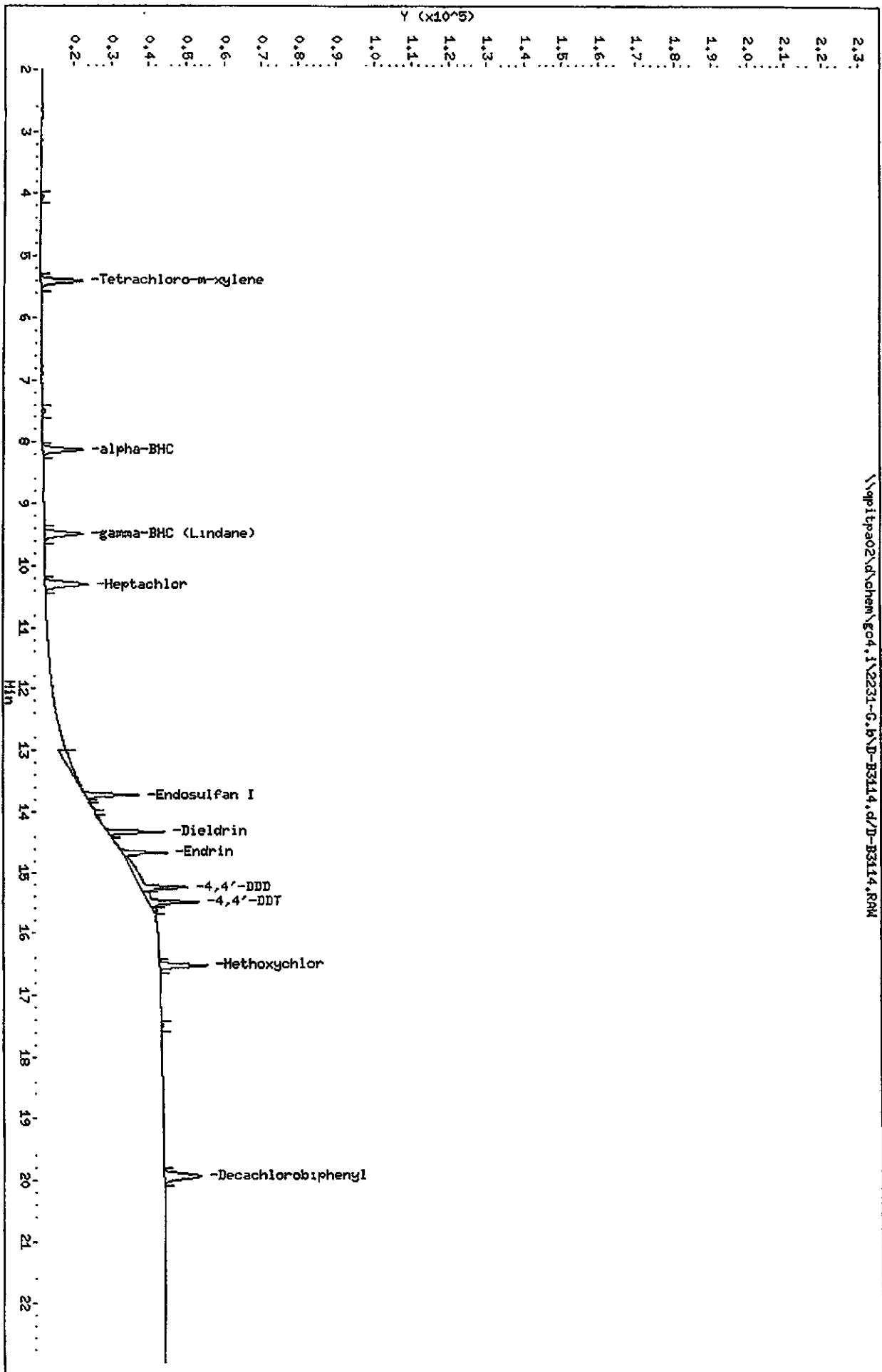
Sample Info: MLOHA, 2231-G, b, 3-INDA, sub, 1, 2

Column phase: RTX-1701

Instrument: gc04.1

Operator: 010139

Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3115.d
Report Date: 26-Mar-2001 10:14

680 455

STL-Pittsburgh

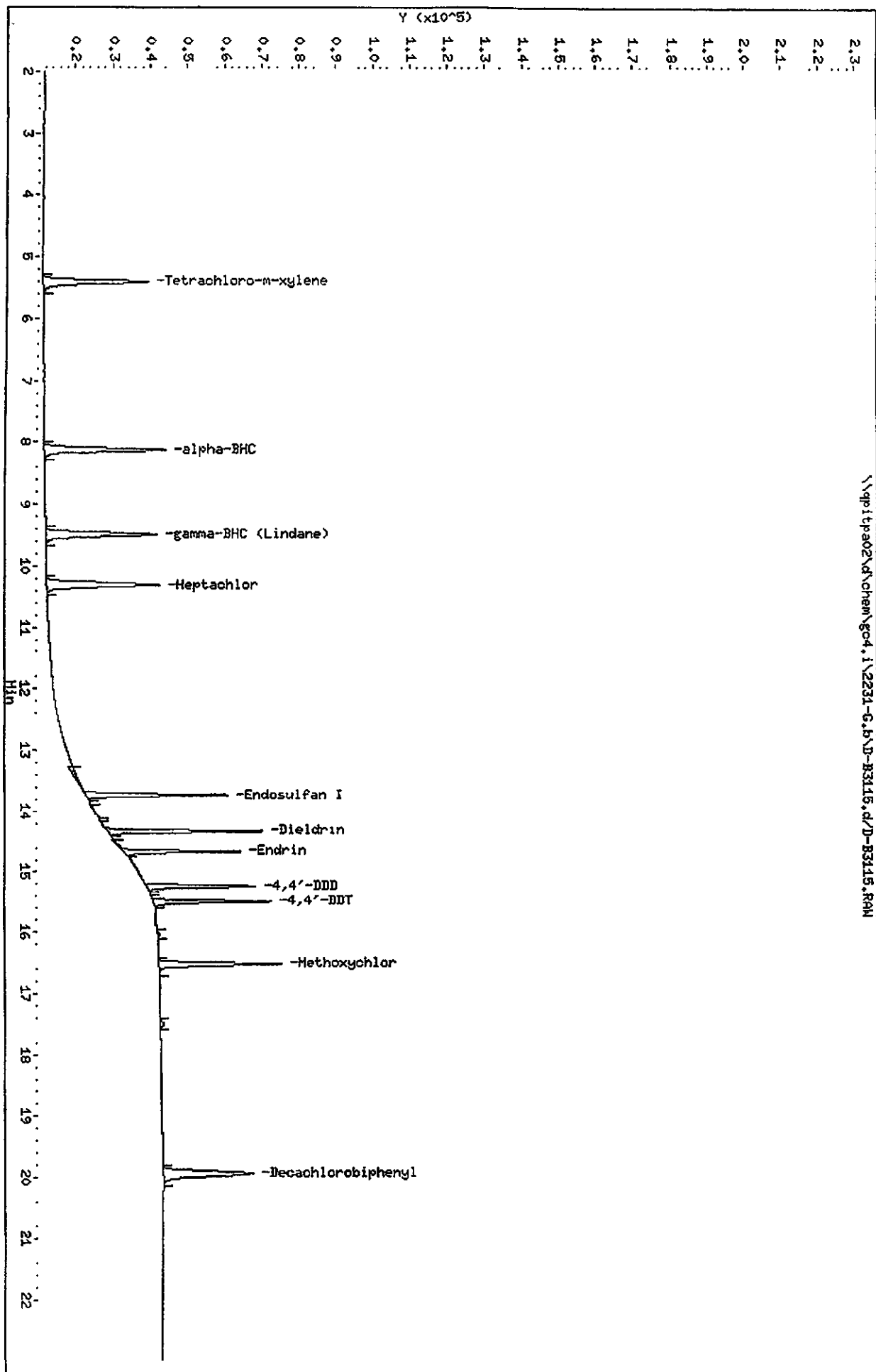
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3115.d
Lab Smp Id: MEDA
Inj Date : 23-MAR-2001 15:34
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,2231-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 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

		AMOUNTS					
		RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
Compounds							
*****		==	=====	=====	=====	=====	=====
\$ 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

680 456

Data File: \\vpitpa02\chem\gc4.1\2231-G.b\D-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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3116.d
Report Date: 26-Mar-2001 10:14

680 457

STL-Pittsburgh

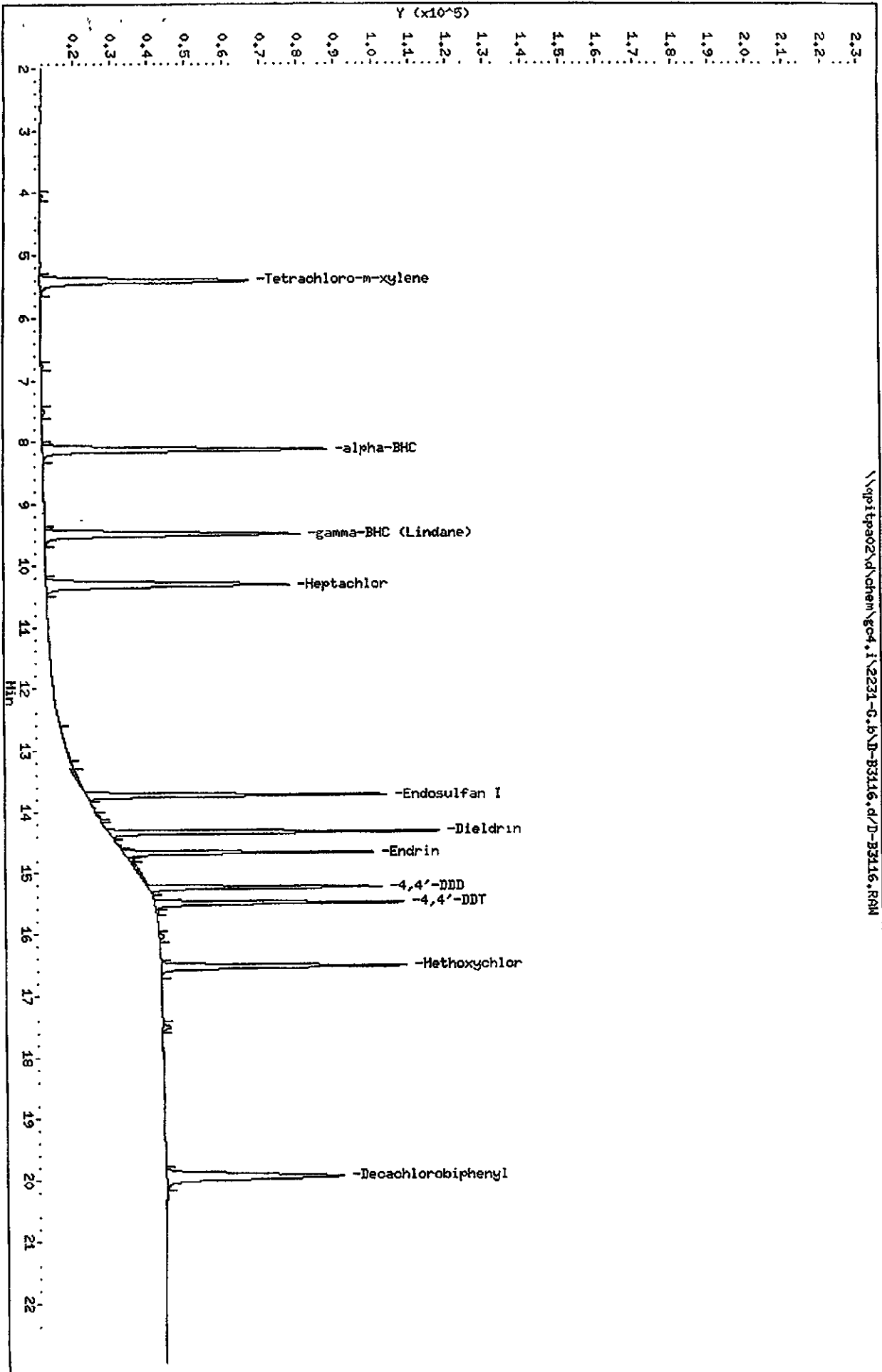
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Lab Smp Id: MHIGHA
Inj Date : 23-MAR-2001 16:02
Operator : 010139
Smp Info : MHIGHA,2231-G.b,,3-INDA.sub,,1,4
Misc Info : 190-100-9
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol
Cal Date : 23-MAR-2001 17:55
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-B3120.d
Calibration Sample, Level: 4
Compound Sublist: 3-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	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: \\pittpa02\chem\gc4.i\2231-G.b\B3116.d
Date: 23-MAR-2001 16:02
Client ID:
Sample Info: MHIGH, 2231-G.b, 3-INDA, sub, 1,4
Column phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3117.d
 Report Date: 26-Mar-2001 10:14

680 459

STL-Pittsburgh

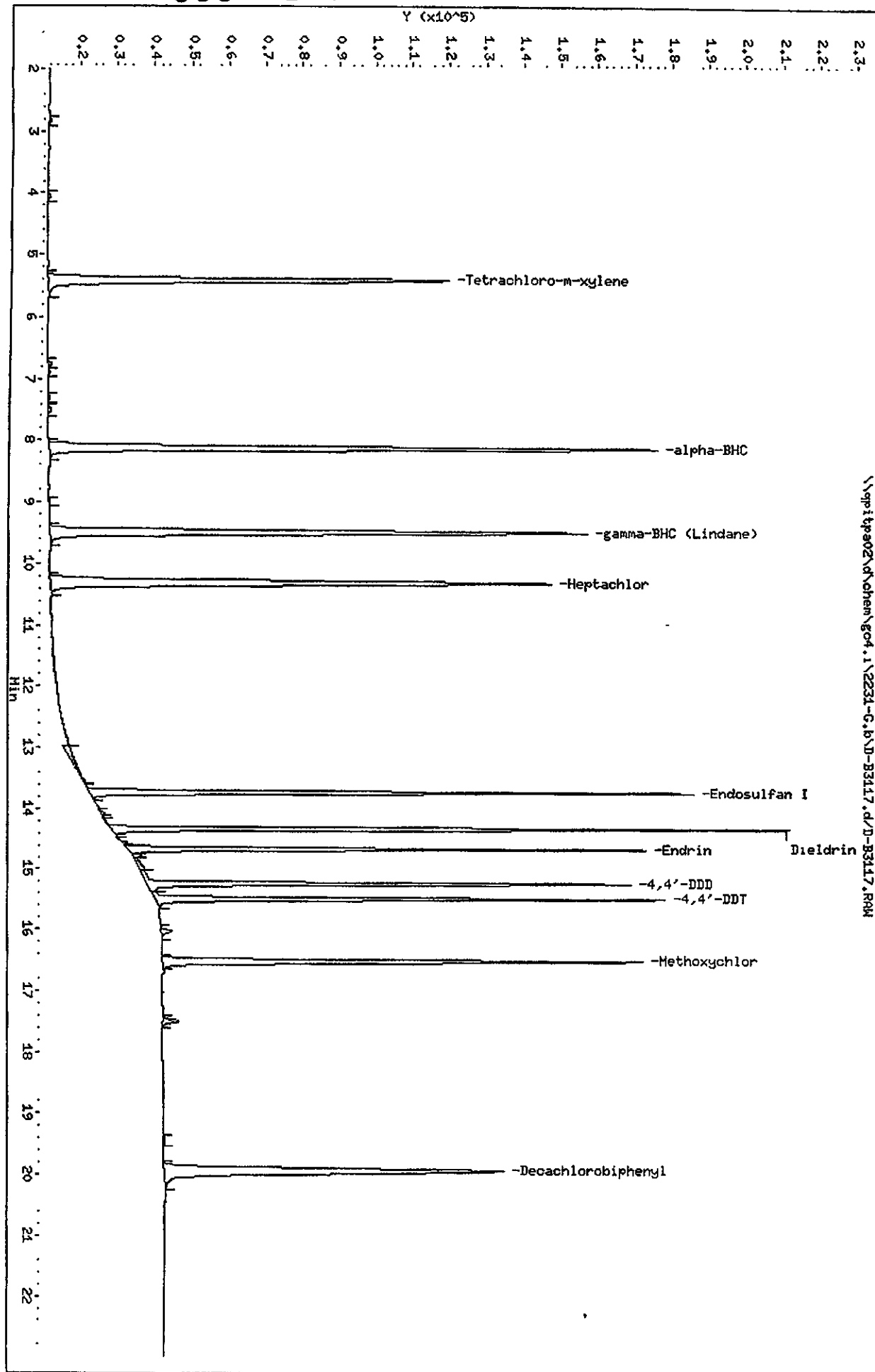
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3117.d
 Lab Smp Id: HIGHA
 Inj Date : 23-MAR-2001 16:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHA,2231-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-100-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 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.

680 460



Data File: \\pittpa02\chem\gc4.1\2231-G.b\D-B3117.d
 Date: 23-MAR-2001 16:31
 Client ID:
 Sample Info: HICHA,2231-G.b,3-INDA,sld,4.5
 Column phase: RTX-1701

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

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3118.d
 Report Date: 26-Mar-2001 10:15

680 461

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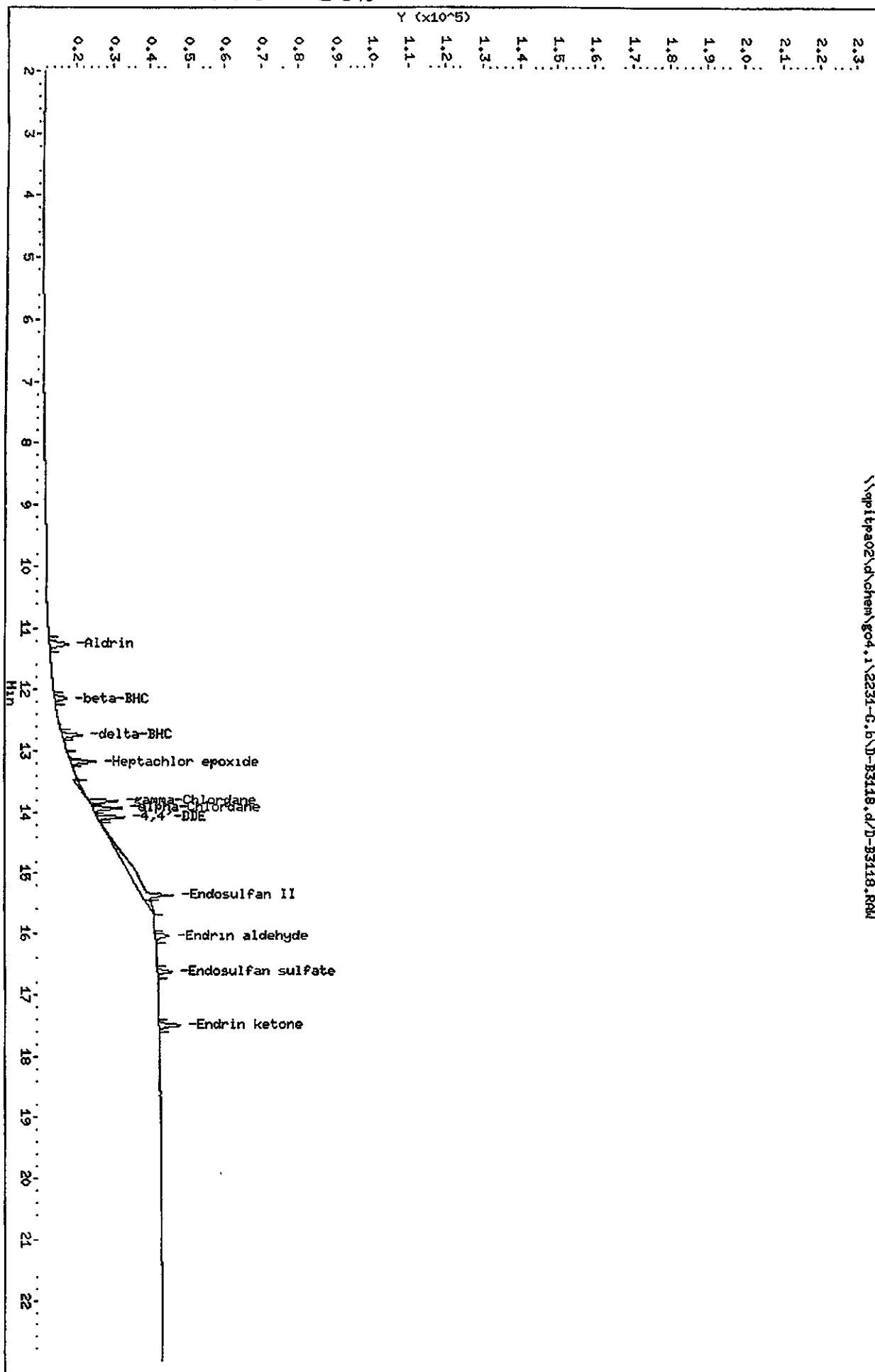
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3118.d
 Lab Smp Id: LOWB
 Inj Date : 23-MAR-2001 16:59
 Operator : 010139
 Smp Info : LOWB,2231-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-100-12
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol
 Cal Date : 23-MAR-2001 17:55
 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-B3120.d
 Calibration Sample, Level: 1
 Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					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: \\qpltpa02\chem\gc4.1\2231-G.b\D-B3118.d
Date: 23-MAR-2001 16:59
Client ID:
Sample Info: LOHB,2231-G.b,4-INDB.sub,1.1
Column phase: RTX-1701

Instrument: gc4.1
Operator: Q10139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3119.d
Report Date: 26-Mar-2001 10:15

680 463

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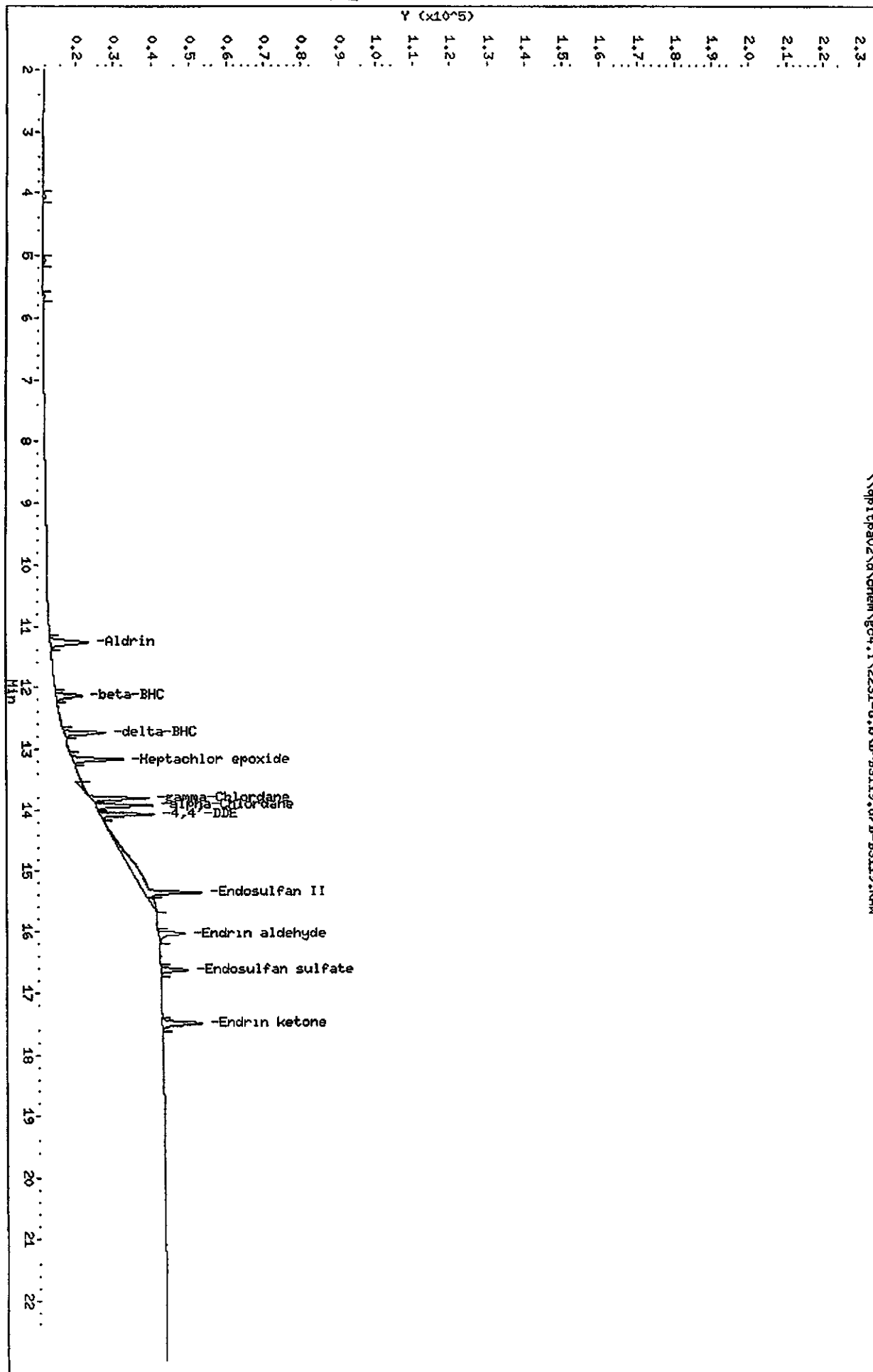
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3119.d
Lab Smp Id: MLOWB
Inj Date : 23-MAR-2001 17:27
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWB,2231-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 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: \\pp1tpa02\chem\gc4.i\2231-G.b\B-B3119.d
Date: 23-MAR-2001 17:27
Client ID:
Sample Info: HL0NB,2231-G.b,4-INDR.sub,1,2
Column phase: RTX-1701

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

\\pp1tpa02\chem\gc4.i\2231-G.b\B-B3119.d\B-B3119.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3120.d
 Report Date: 26-Mar-2001 10:15

680 465

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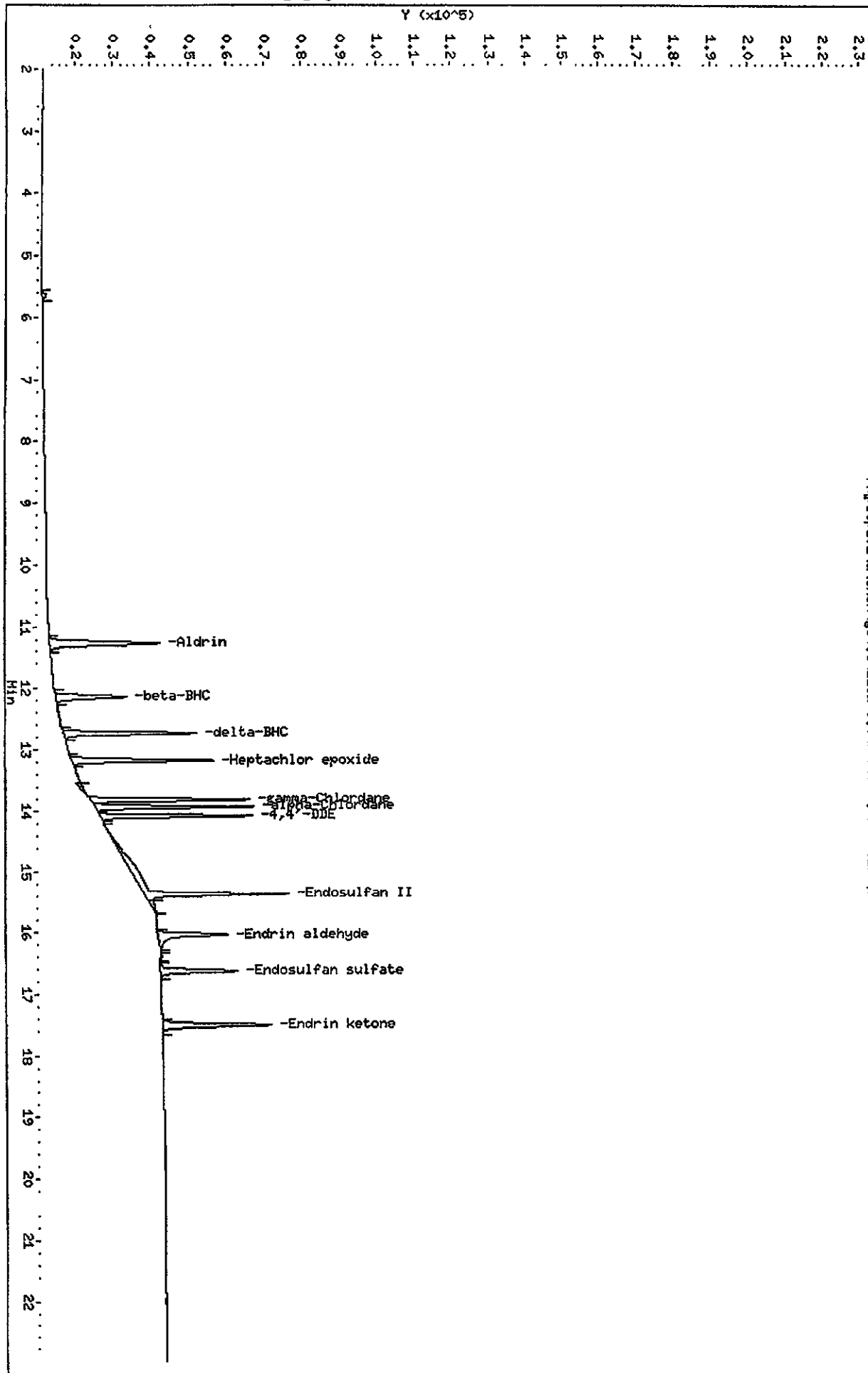
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 Lab Smp Id: MEDB
 Inj Date : 23-MAR-2001 17:55
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,2231-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-100-14
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 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: \\ppitpa02\chem\gc04.i\2231-G.b\B3120.d
 Date: 23-MAR-2001 17:55
 Client ID:
 Sample Info: HEDB,2231-G.b,4-INDB.sub,1,3
 Column phase: RTX-1701

Instrument: gc04.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc04.i\2231-G.b\B3120.d\B3120.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3121.d
 Report Date: 26-Mar-2001 10:15

680 467

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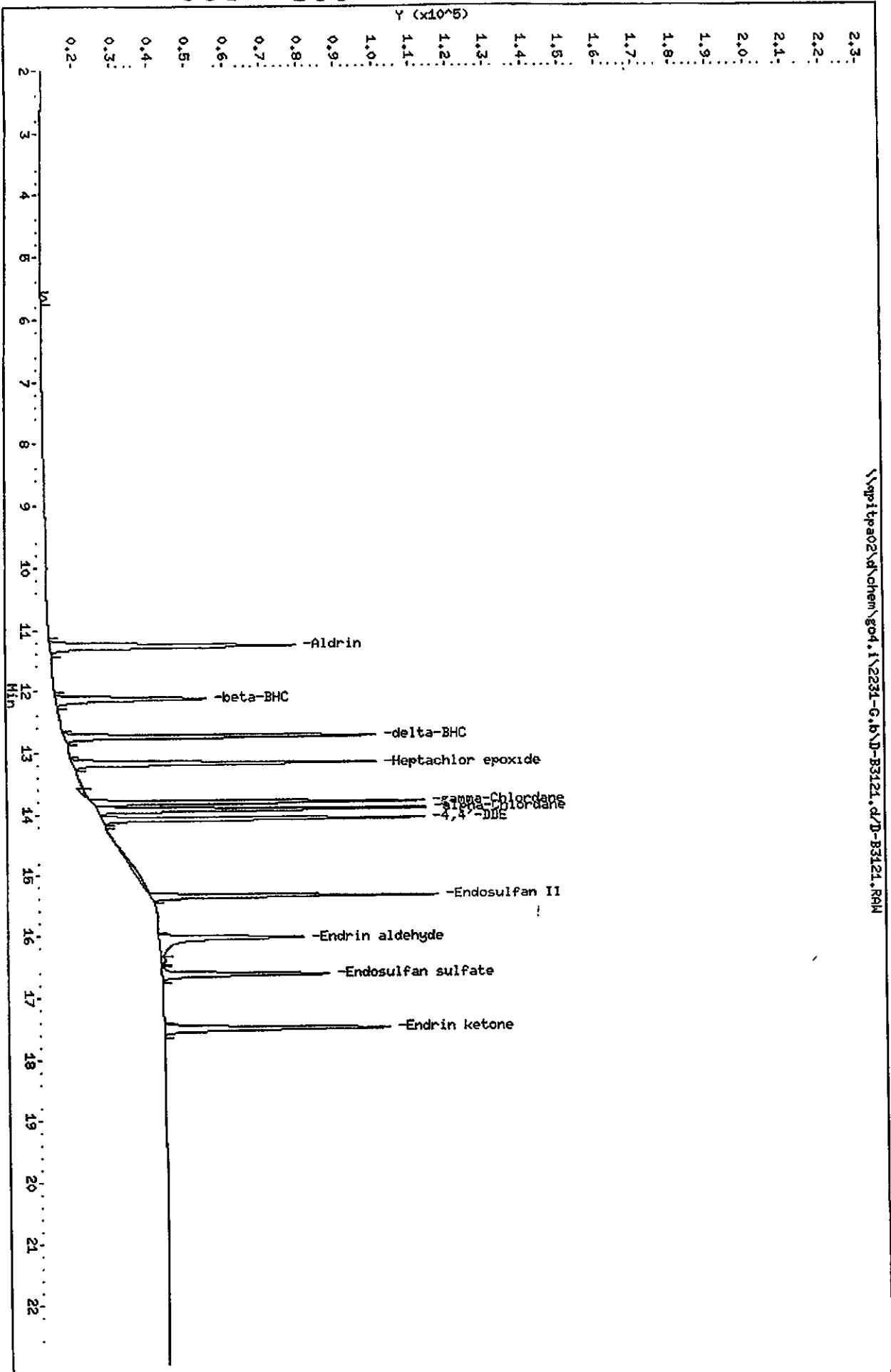
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 Lab Smp Id: MHIGHB
 Inj Date : 23-MAR-2001 18:23
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHB,2231-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-101-1
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					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

680 468

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\B3421.d
 Date : 23-MAR-2001 18:23
 Client ID:
 Sample Info: HHCHE, 2231-G.b, 4-INDB, sub, 1, 4
 Column phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3122.d
Report Date: 26-Mar-2001 10:15

680 469

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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
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
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
Calibration Sample, Level: 5
Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	135889	0.10000	0.1163 (A)
10 beta-BHC	12.125	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)

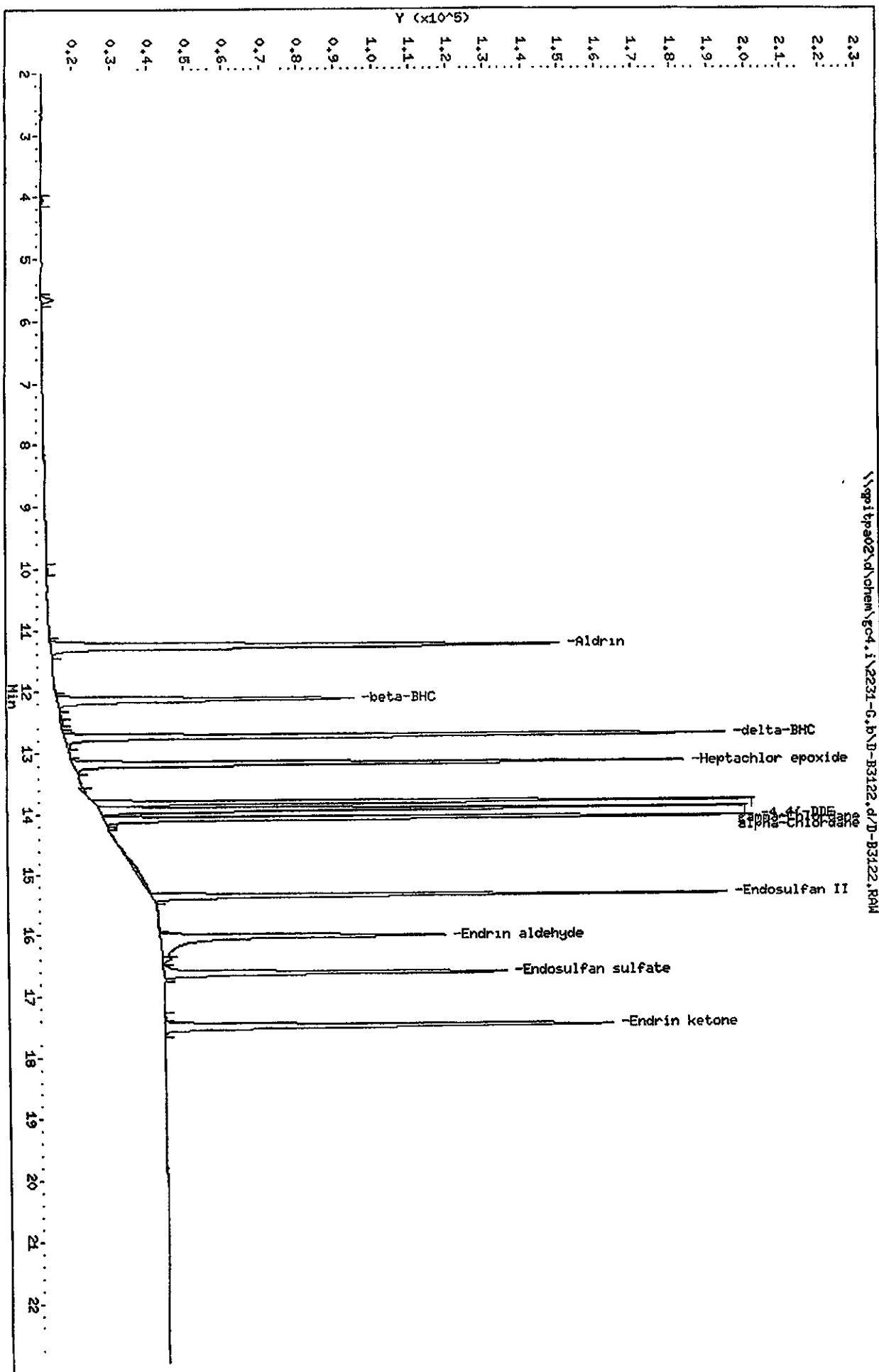
QC Flag Legend

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

680 470

Data File: \\pp1tpa02\chem\g04.i\2231-G.b\B-83122.d
 Date: 23-MAR-2001 18:52
 Client ID:
 Sample Info: HICHB, 2231-G.b, 4-INDB.sub, 1,5
 Column phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3123.d
 Report Date: 26-Mar-2001 10:16

680 471

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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 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\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: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

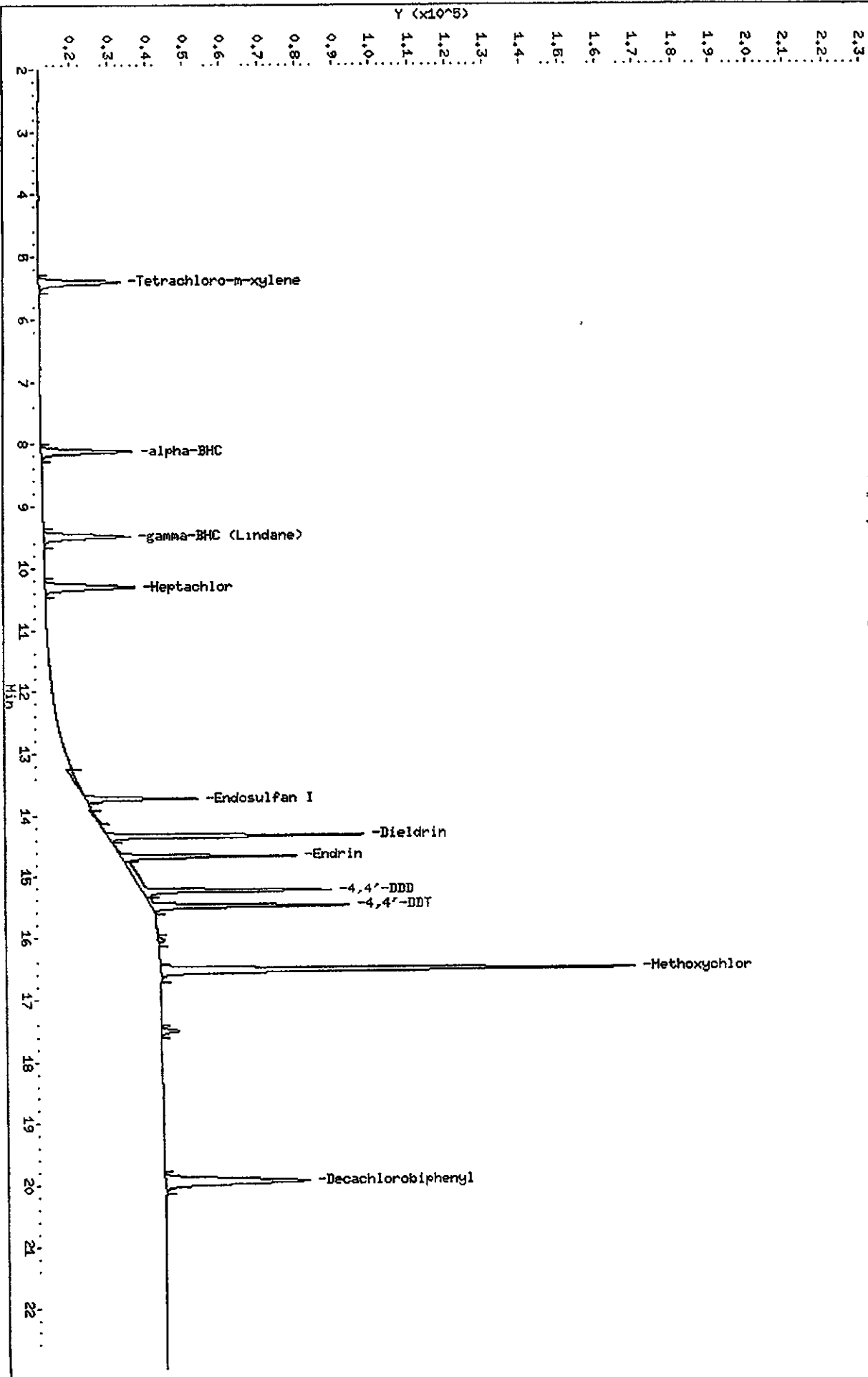
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	21324	0.02500	0.01959
6 alpha-BHC	8.120	8.120	0.000	24117	0.02500	0.01877
7 gamma-BHC (Lindane)	9.486	9.486	0.000	22631	0.02500	0.01917
9 Heptachlor	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	52633	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

680 472

Data File: \\qpi\pa02\chem\g04.1\2231-G.b\B3123.d
Date: 23-MAR-2001 19:20
Client ID:
Sample Info: 2ND A,2231-G.b,1INDA.sub,,2,3
Column phase: RTX-1701

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

\\qpi\pa02\chem\g04.1\2231-G.b\B3123.d\B3123.R01



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3124.d
Report Date: 26-Mar-2001 10:16

680 473

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

Data File: \\p1tpa02\chem\gc4.1\2231-G.b\D-B3124.d

Date : 23-MAR-2001 19:48

Client ID:

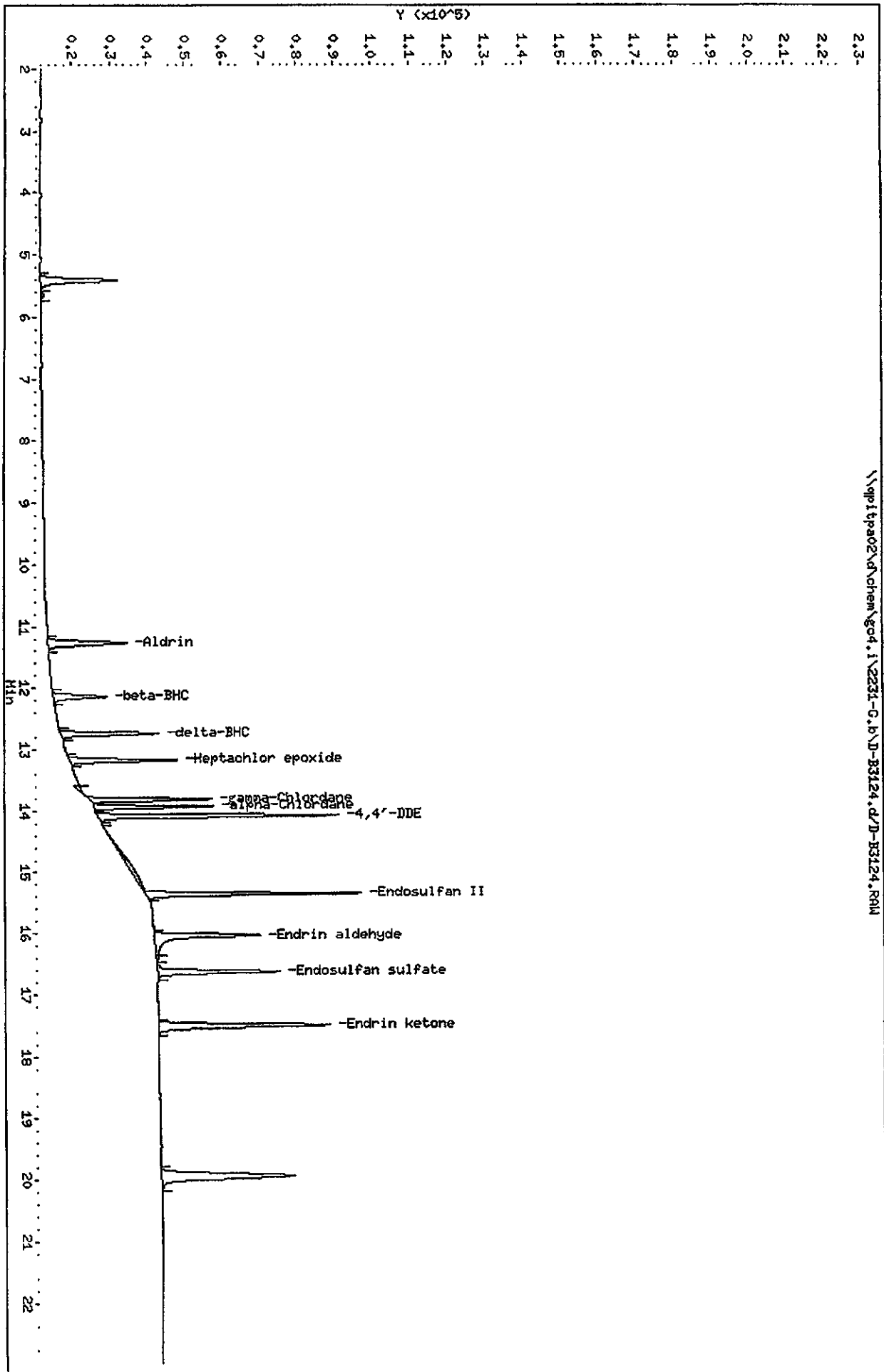
Sample Info: 2ND B,2231-G.b,1NDB,sub,,2,3

Column phase: RTX-1701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53



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: \\ppltpa02\chem\gc4.1\2231-G.b\D-B3125.d

Date: 23-MAR-2001 20:16

Client ID:

Sample Info: EVALB, 2231-G.b, EVAL BR, sub, 3,1

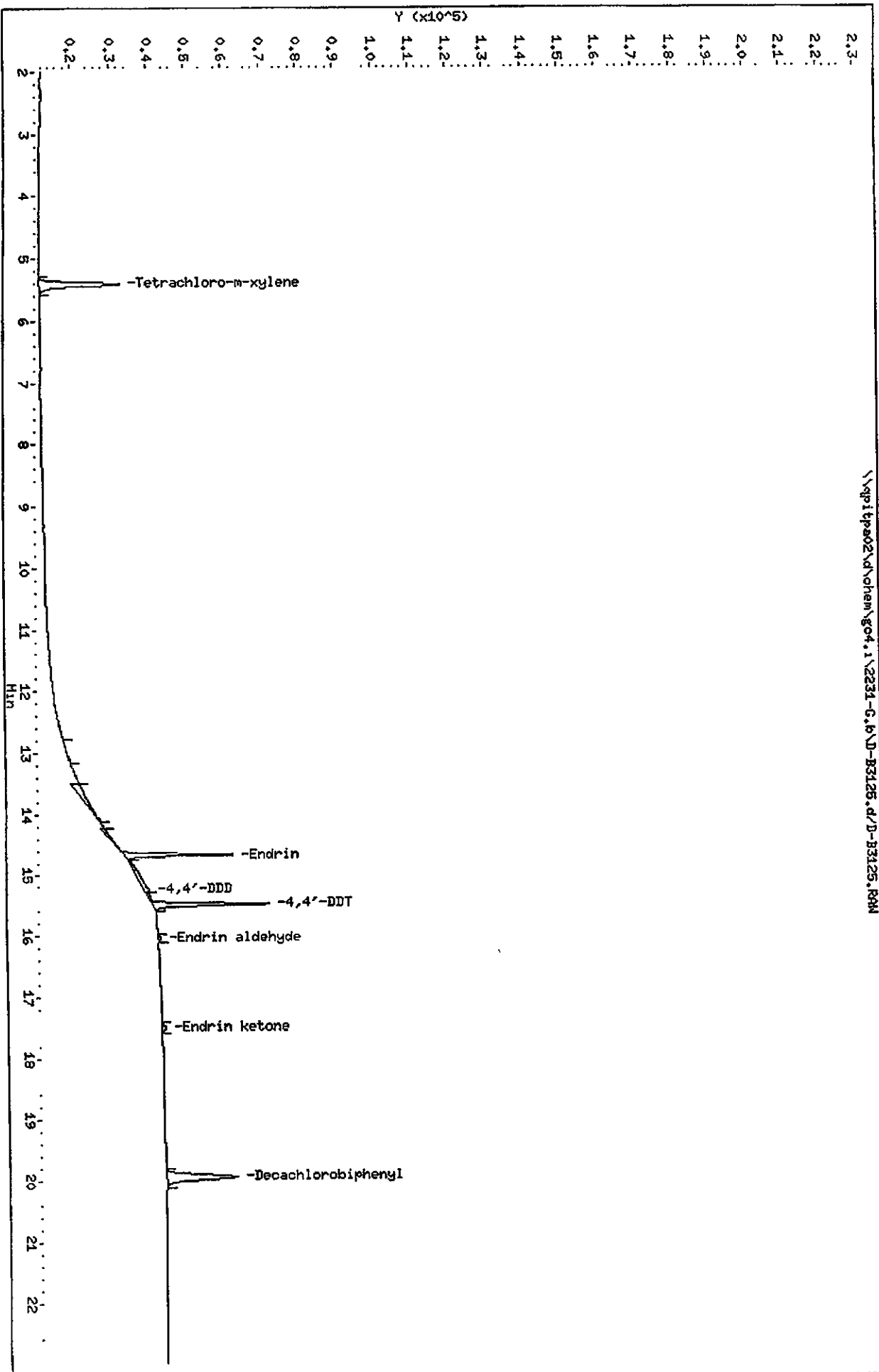
Column phase: RTX-1701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

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Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3182.d
Report Date: 27-Mar-2001 12:51

680 477

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3182.d
Lab Smp Id: EVALB
Inj Date : 26-MAR-2001 18:01
Operator : 010139
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 : 27-Mar-2001 12:47 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
QC Sample: PEM
Compound Sublist: EVALBR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
-----	---	-----	-----	-----	-----	-----
\$ 2 Tetrachloro-m-xylene	5.400	5.400	0.000	21756	0.01999	0.01999 (R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.660	14.660	0.000	32542	0.02603	0.02603
29 4,4'-DDD	15.226	15.220	0.006	1465	0.00122	0.001218
32 4,4'-DDT	15.480	15.480	0.000	32007	0.02470	0.02470
33 Endrin aldehyde	16.026	16.020	0.006	574	<0.0	0.0007868
37 Endrin ketone	17.486	17.486	0.000	868	<0.0	0.0007632
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	18530	0.01947	0.01947 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

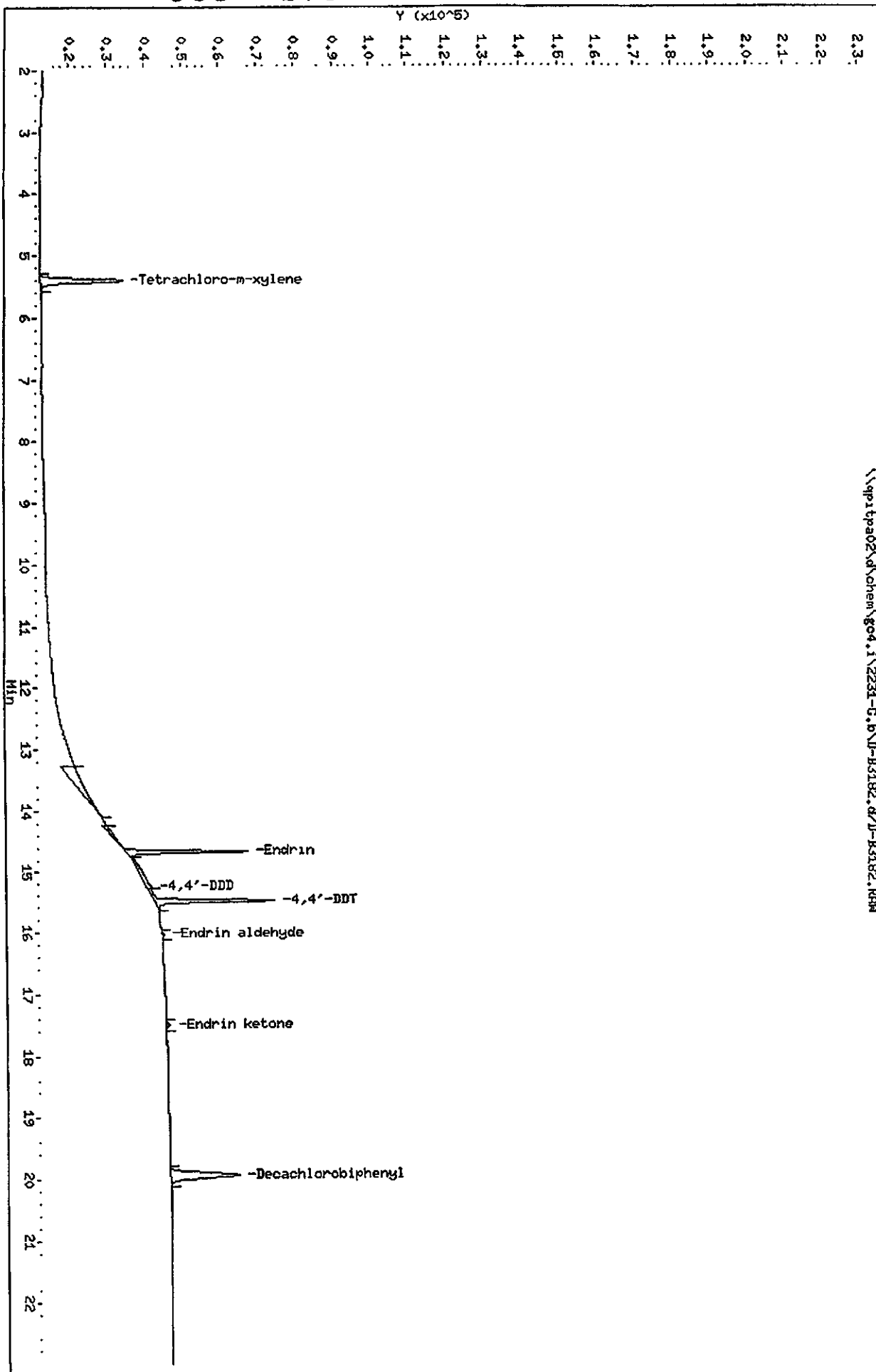
DDT = 4.4
Endrin = 4.2

680 478

Data File: \\qpltpa02\chem\gc4.i\2231-G.b\B-83182.d
 Date: 26-MAR-2001 18:01
 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

\\qpltpa02\chem\gc4.i\2231-G.b\B-83182.d\B-83182.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3183.d
 Report Date: 27-Mar-2001 12:51

680 479

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3183.d
 Lab Smp Id: MEDA
 Inj Date : 26-MAR-2001 18:29
 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 : 27-Mar-2001 12:47 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

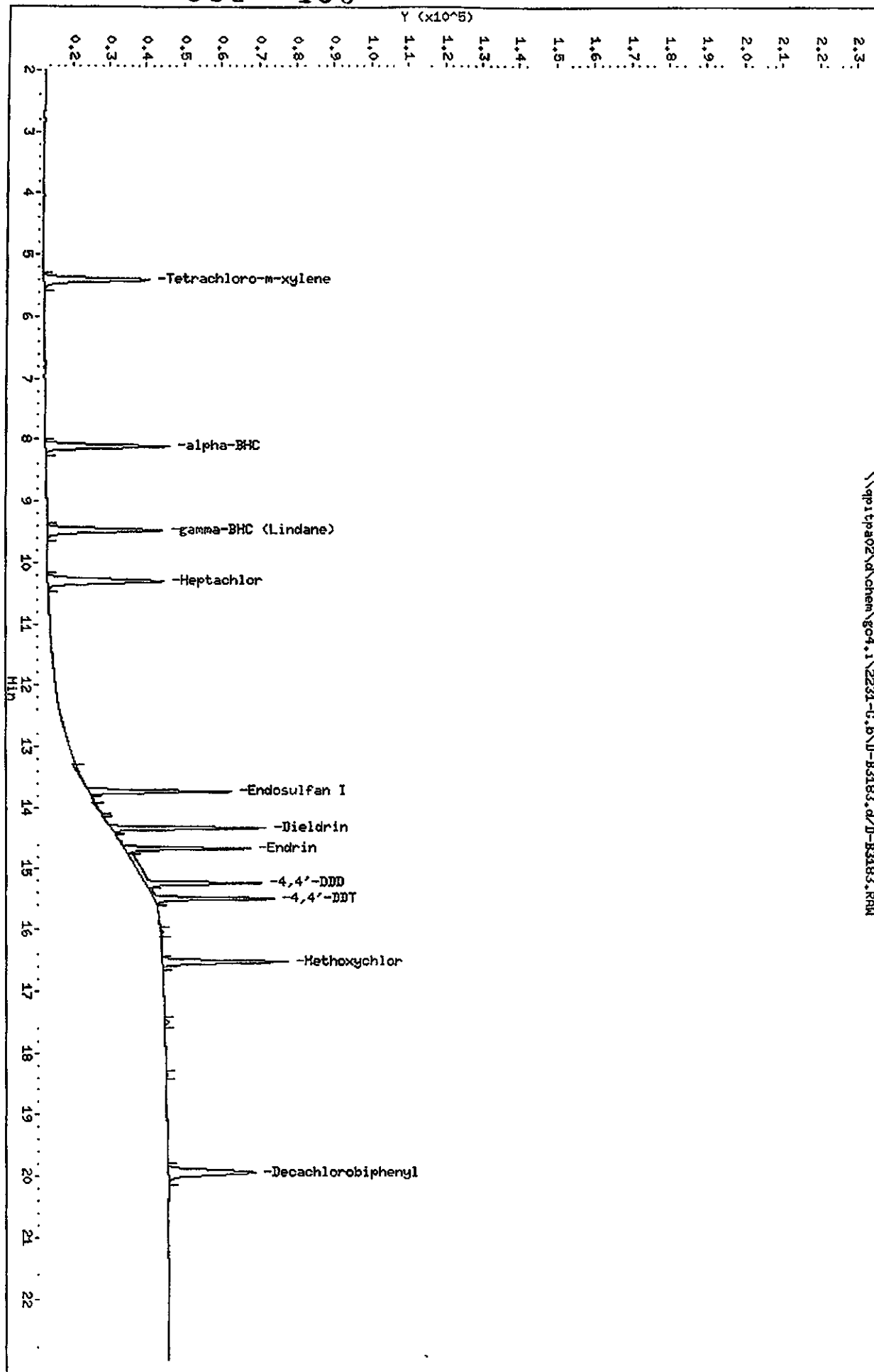
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.400	5.400	0.000	28203	0.02500	0.02591
6 alpha-BHC	8.106	8.106	0.000	32993	0.02500	0.02568
7 gamma-BHC (Lindane)	9.473	9.473	0.000	30554	0.02500	0.02588
9 Heptachlor	10.300	10.300	0.000	30818	0.02500	0.02522
20 Endosulfan I	13.720	13.720	0.000	38287	0.02500	0.02535
23 Dieldrin	14.326	14.326	0.000	41389	0.02500	0.02525
26 Endrin	14.660	14.660	0.000	33444	0.02500	0.02676
29 4,4'-DDD	15.220	15.220	0.000	31296	0.02500	0.02601
32 4,4'-DDT	15.480	15.480	0.000	32170	0.02500	0.02482
35 Methoxychlor	16.513	16.506	0.007	33458	0.05000	0.05170
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	23371	0.02500	0.02456

680 480

Data File: \\qptpe02\chem\gc4.i\2231-G.b\B-33183.d
 Date: 26-10-2001 18:29
 Client ID:
 Sample Info: MEDA,2231-G.b,INDA,sub,,2,3
 Column phase: RTX-1701

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

\\qptpe02\chem\gc4.i\2231-G.b\B-33183.d\B-33183.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3184.d
Report Date: 27-Mar-2001 12:51

680 481

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3184.d
Lab Smp Id: MEDB
Inj Date : 26-MAR-2001 18:58
Operator : 010139
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 : 27-Mar-2001 12:47 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: INDB.sub

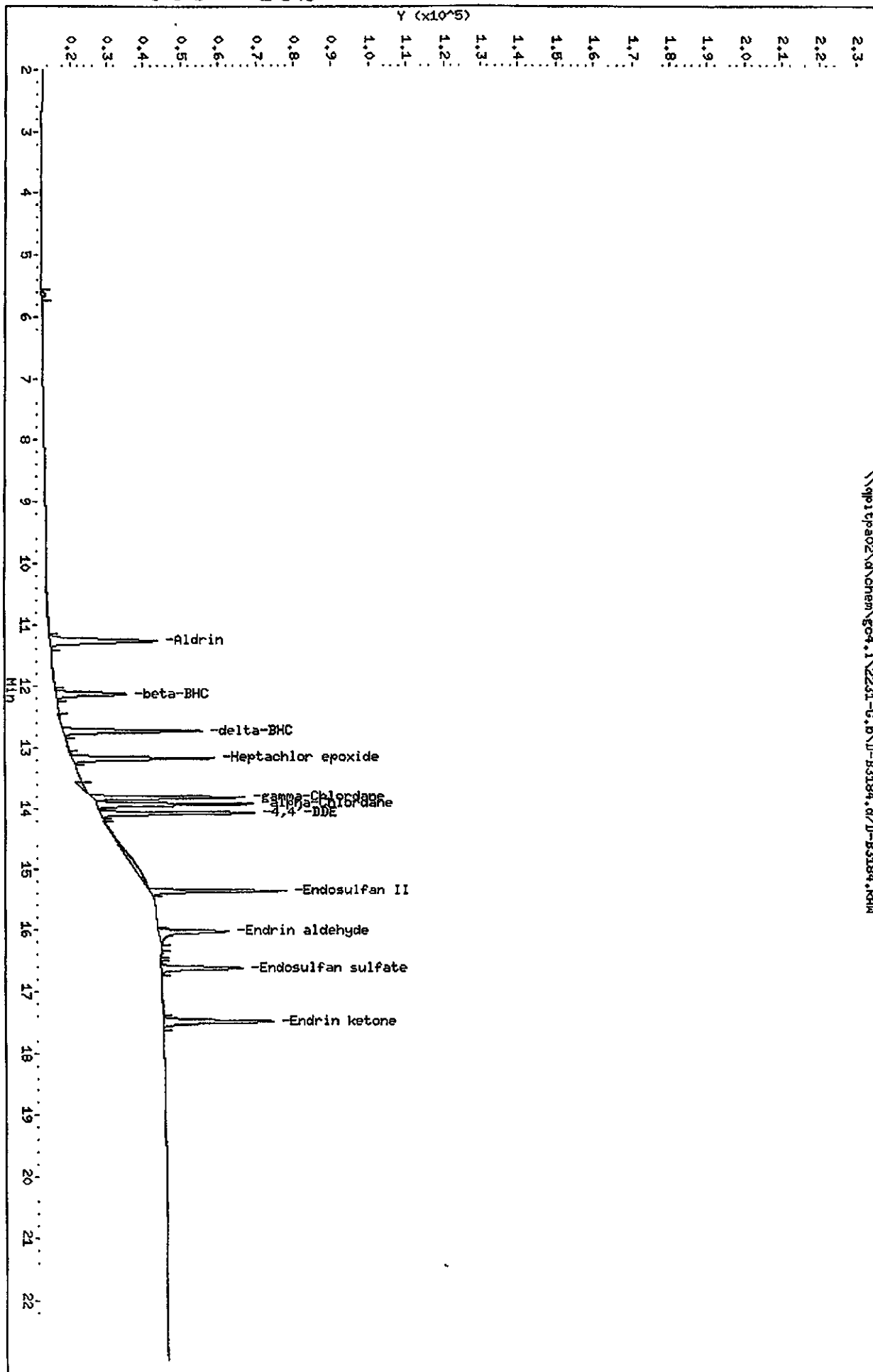
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
13 Aldrin	11.260	11.260	0.000	28951	0.02500	0.02478
10 beta-BHC	12.120	12.120	0.000	19164	0.02500	0.02599
11 delta-BHC	12.726	12.726	0.000	37051	0.02500	0.02650
17 Heptachlor epoxide	13.166	13.166	0.000	37953	0.02500	0.02553
18 gamma-Chlordane	13.813	13.806	0.007	40953	0.02500	0.02470
19 alpha-Chlordane	13.926	13.926	0.000	41817	0.02500	0.02543
22 4,4'-DDE	14.073	14.073	0.000	41354	0.02500	0.02600
31 Endosulfan II	15.346	15.346	0.000	36553	0.02500	0.02371
33 Endrin aldehyde	16.026	16.020	0.006	18625	0.02500	0.02553
34 Endosulfan sulfate	16.613	16.613	0.000	21599	0.02500	0.02657
37 Endrin ketone	17.486	17.486	0.000	29266	0.02500	0.02573

680 482

Data File: \\pp1tpa02\chem\gc4.1\2231-G.b\D-B3184.d
 Date: 26-MAR-2001 18:58
 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

\\pp1tpa02\chem\gc4.1\2231-G.b\D-B3184.d\J-B3184.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3200.d
 Report Date: 27-Mar-2001 12:53

680 483

STL-Pittsburgh

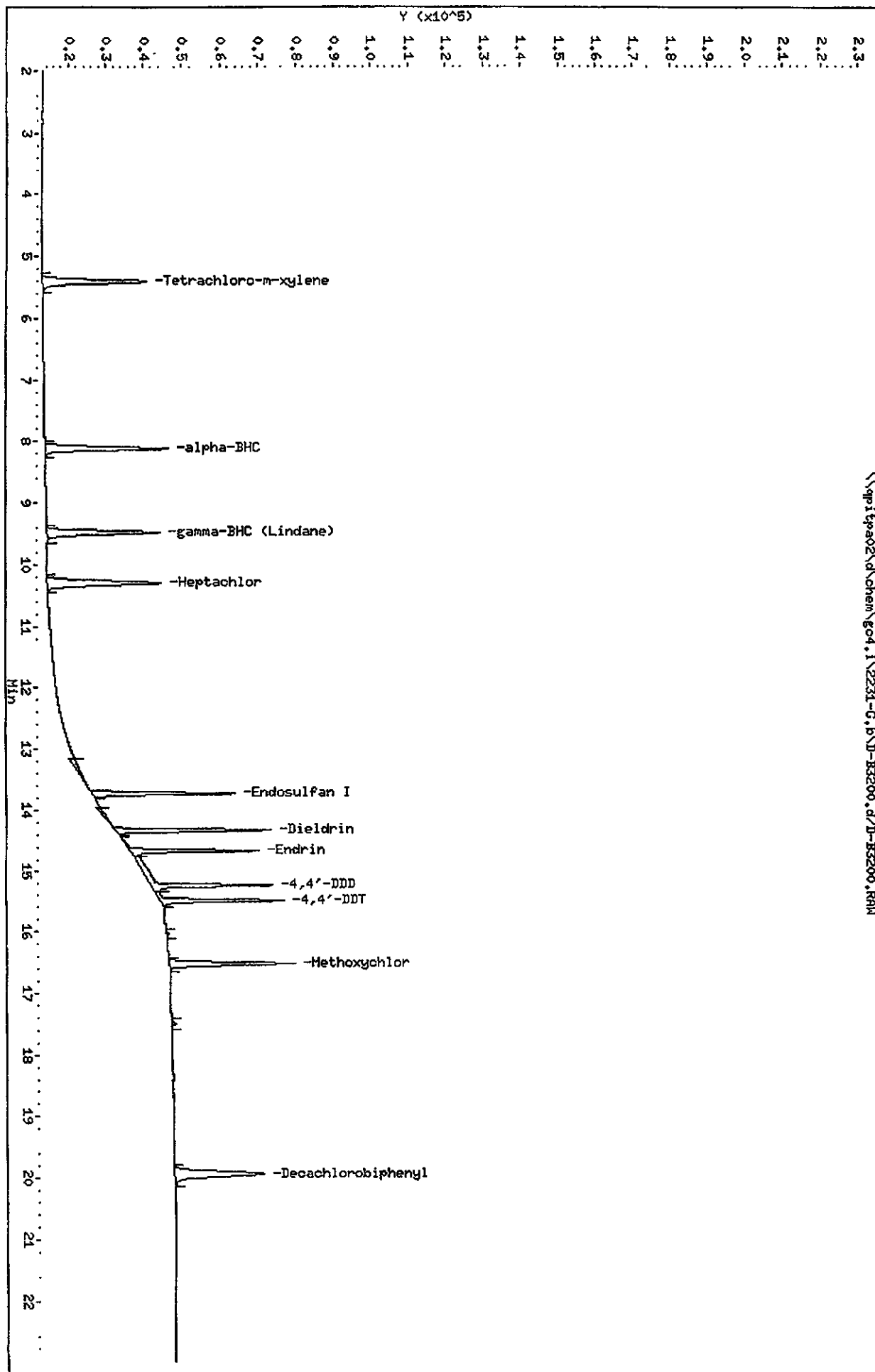
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3200.d
 Lab Smp Id: MEDA
 Inj Date : 27-MAR-2001 02:27
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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: 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	5.400	5.400	0.000	27838	0.02500	0.02558
6 alpha-BHC	8.106	8.106	0.000	32685	0.02500	0.02544
7 gamma-BHC (Lindane)	9.473	9.473	0.000	30330	0.02500	0.02569
9 Heptachlor	10.300	10.300	0.000	30230	0.02500	0.02474
20 Endosulfan I	13.720	13.720	0.000	37788	0.02500	0.02502
23 Dieldrin	14.326	14.326	0.000	40889	0.02500	0.02494
26 Endrin	14.660	14.660	0.000	33636	0.02500	0.02691
29 4,4'-DDD	15.220	15.220	0.000	31872	0.02500	0.02649
32 4,4'-DDT	15.480	15.480	0.000	32501	0.02500	0.02508
35 Methoxychlor	16.506	16.506	0.000	33072	0.05000	0.05111
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	23519	0.02500	0.02472

680 484

Data File: \\pittpa02\chem\gc4.1\2231-G,b\D-B3200.d
 Date : 27-MAR-2001 02:27
 Client ID:
 Sample Info: HEDR, 2231-G,b,1\NDR,sub,2,3
 Column phase: RTX-1701

Instrument: GC4.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3201.d
Report Date: 27-Mar-2001 12:54

680 485

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3201.d
Lab Smp Id: MEDB
Inj Date : 27-MAR-2001 02:55
Operator : 010139
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 : 27-Mar-2001 12:47 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

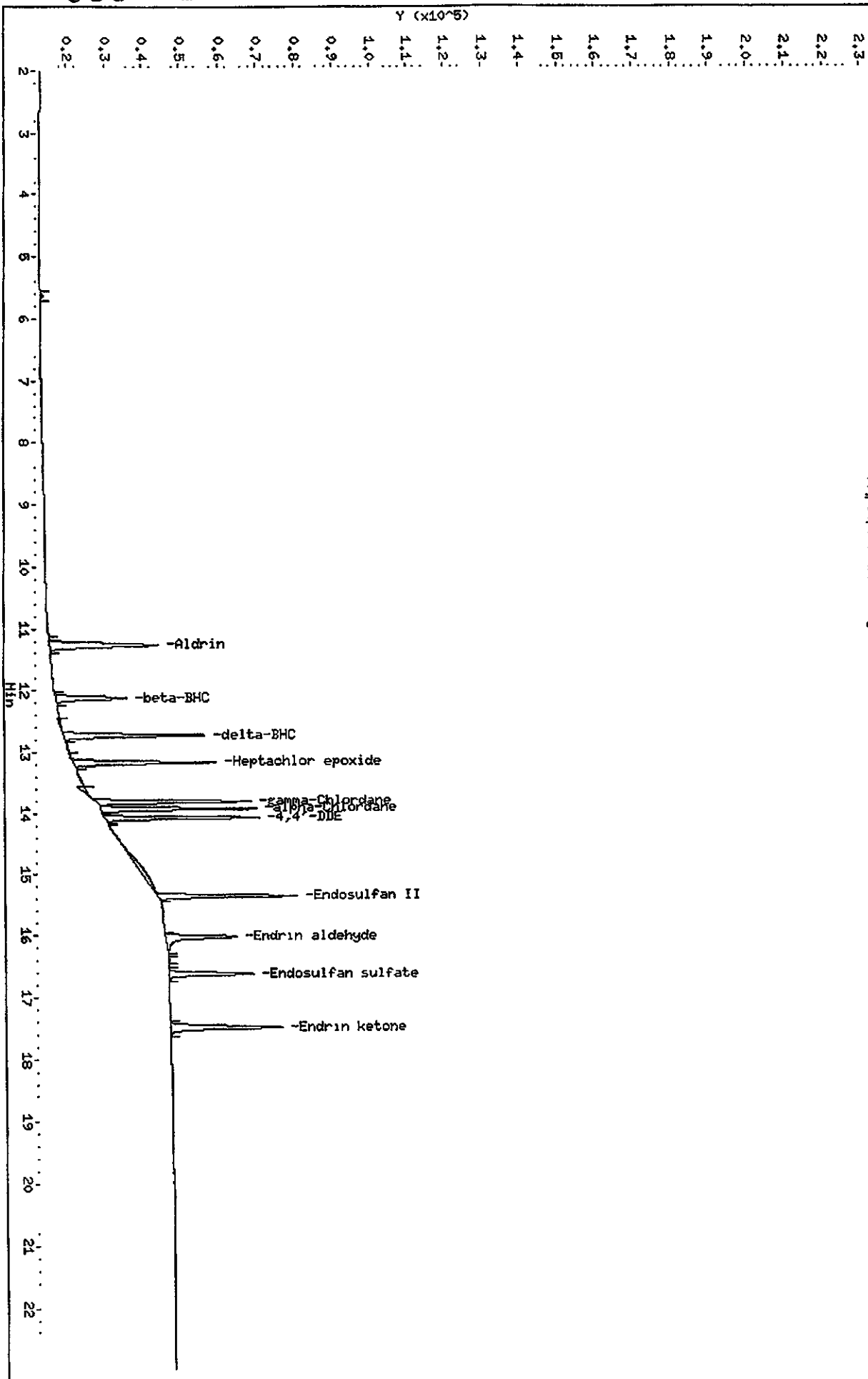
Compound Sublist: INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.260	11.260	0.000	28638	0.02500	0.02451
10 beta-BHC	12.120	12.120	0.000	18818	0.02500	0.02552
11 delta-BHC	12.726	12.726	0.000	37075	0.02500	0.02652
17 Heptachlor epoxide	13.166	13.166	0.000	37317	0.02500	0.02511
18 gamma-Chlordane	13.806	13.806	0.000	41048	0.02500	0.02476
19 alpha-Chlordane	13.926	13.926	0.000	41092	0.02500	0.02499
22 4,4'-DDE	14.073	14.073	0.000	40837	0.02500	0.02568
31 Endosulfan II	15.346	15.346	0.000	36784	0.02500	0.02386
33 Endrin aldehyde	16.020	16.020	0.000	18634	0.02500	0.02554
34 Endosulfan sulfate	16.613	16.613	0.000	22320	0.02500	0.02745
37 Endrin ketone	17.486	17.486	0.000	29530	0.02500	0.02597

Data File: \\pittpa02\chem\gc4.1\2231-G.b\B3201.d
Date: 27-MAR-2001 02:55
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

\\pittpa02\chem\gc4.1\2231-G.b\B3201.d\B-B3201.RAW



680 487

PESTICIDE
QC DATA

UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

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

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

Lab Sample ID: C1C250000 105

 Sample WT/Vol: 1000 / mL
 Work Order: DXX2E1AA
 Dilution factor: 1

 Date Received: 03/22/01
 Date Extracted: 03/25/01
 Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
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

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3189.d
 Lab Smp Id: DXX2E1AA Client Smp ID: PBLK4105
 Inj Date : 26-MAR-2001 21:18
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXX2E1AA,2231-G.b,,PEST.sub,,
 Misc Info : 220173-BLK
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 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	5.146	5.146	0.000	27449	0.01613	0.1613
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.		

680 490

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3189.d
Report Date: 27-Mar-2001 13:17

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	15.640	15.646	-0.006	1372	<0.0	0.008941(a)
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor				Compound Not Detected.		
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	20.993	21.000	-0.007	17017	0.01683	0.1683

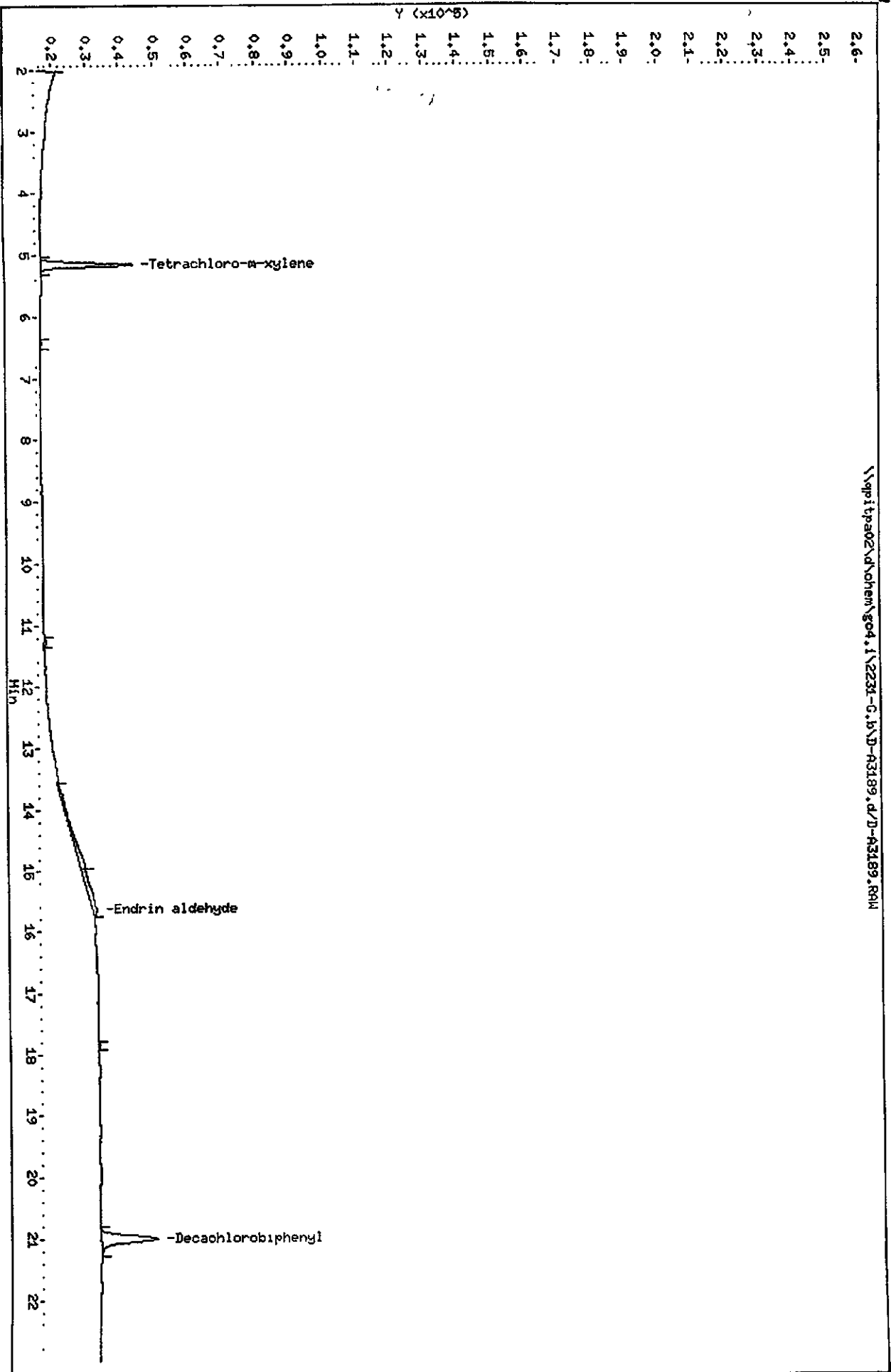
QC Flag Legend

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

Data File: \\vpitpa02\chem\gc4.1\2231-G.b\D-A3189.d
 Date: 26-Mar-2001 21:18
 Client ID: PBLK4105
 Sample Info: D00CE104,2231-G.b,,PEST,sub,,,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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

\\vpitpa02\chem\gc4.1\2231-G.b\D-A3189.d\D-A3189.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3189.d
 Report Date: 27-Mar-2001 12:52

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3189.d
 Lab Smp Id: DXX2E1AA Client Smp ID: PBLK4105
 Inj Date : 26-MAR-2001 21:18
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXX2E1AA, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-BLK
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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: 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	5.400	5.400	0.000	18726	0.01720	0.1720
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-B3189.d
 Report Date: 27-Mar-2001 12:52

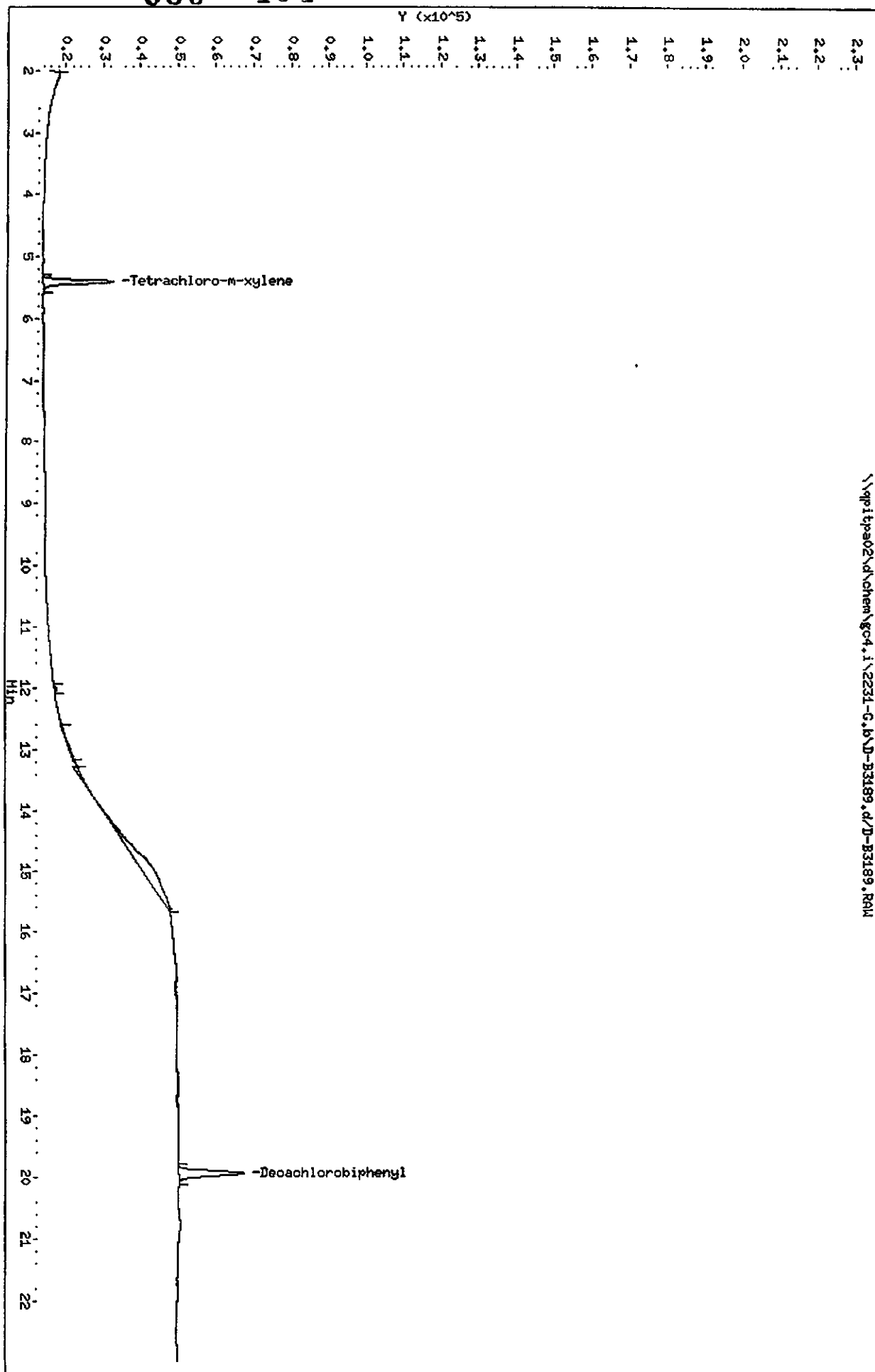
680 493

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	19.926	19.926	0.000	17377	0.01826	0.1826

680 494

Data File: \\p1tpa02\chem\gc4,1\2231-G,b\D-B3189.d
 Date: 26-Mar-2001 21:18
 Client ID: PLK4105
 Sample Info: DXX2E1A9,2231-G,b,,PEST,sub,,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

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



680 495

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: C1C250000 105

Sample WT/Vol: 1000 / mL
Work Order: DXX2E1AC
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.200	
58-89-9	gamma-BHC (Lindane)	0.206	
50-29-3	4,4'-DDT	0.443	
60-57-1	Dieldrin	0.448	
72-20-8	Endrin	0.448	
76-44-8	Heptachlor	0.202	

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3190.d
 Report Date: 27-Mar-2001 13:17

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3190.d
 Lab Smp Id: DX2E1AC Client Smp ID: LCS4105
 Inj Date : 26-MAR-2001 21:46
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DX2E1AC, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-LCS
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 27-Mar-2001 13:12 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.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	5.146	5.146	0.000	27706	0.01628	0.1628
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	8.766	8.766	0.000	40130	0.02063	0.2063
10 beta-BHC	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
9 Heptachlor	9.766	9.766	0.000	31059	0.02021	0.2021
11 delta-BHC	Compound Not Detected.					
13 Aldrin	10.993	10.993	0.000	29780	0.02000	0.2000
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	14.060	14.060	0.000	835	<0.0	0.003680 (a)
23 Dieldrin	14.226	14.226	0.000	99845	0.04478	0.4478
26 Endrin	14.760	14.760	0.000	87316	0.04482	0.4482
29 4,4'-DDD	Compound Not Detected.					

Data File: \\ppitpa02\d\chem\gc4.i\2231-G.b\D-A3190.d
 Report Date: 27-Mar-2001 13:17

680 497

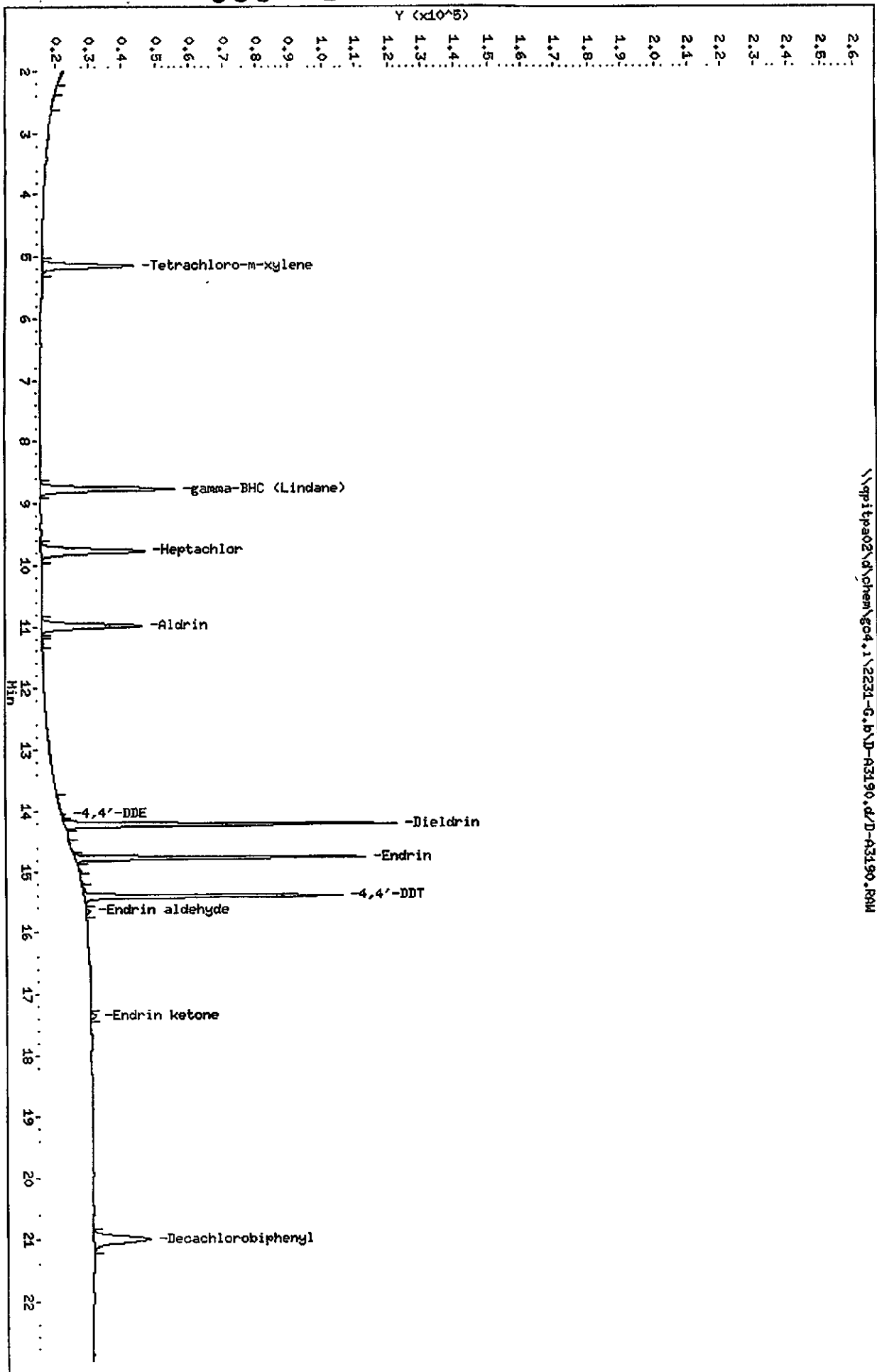
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
30 Toxaphene						
31 Endosulfan II						
32 4,4'-DDT	15.393	15.393	0.000	77637	0.04431	0.4431
33 Endrin aldehyde	15.646	15.646	0.000	1429	<0.0	0.009312(a)
34 Endosulfan sulfate						
35 Methoxychlor						
37 Endrin ketone	17.353	17.353	0.000	1629	0.00106	0.01062(a)
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	17105	0.01691	0.1691

QC Flag Legend

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

Data File: \\pittpa02\chem\gc4.i\2231-G.b\D-A3190.d
Date: 26-MAR-2001 21:46
Client ID: LCS4105
Sample Info: DXX2E1AC, 2231-G.b, PEST, sub,,
Volume Injected (uL): 1.0
Column phase: RTX-50

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



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3190.d
 Lab Smp Id: DX2E1AC Client Smp ID: LCS4105
 Inj Date : 26-MAR-2001 21:46
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DX2E1AC, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-LCS
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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	5.400	5.400	0.000	18844	0.01731	0.1731
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)	9.473	9.473	0.000	25490	0.02159	0.2159
10 beta-BHC				Compound Not Detected.		
8 Chlordane				Compound Not Detected.		
9 Heptachlor	10.300	10.300	0.000	26009	0.02129	0.2128
11 delta-BHC				Compound Not Detected.		
13 Aldrin	11.260	11.260	0.000	24150	0.02067	0.2067
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	14.080	14.073	0.007	444	<0.0	0.002792(a)
23 Dieldrin	14.326	14.326	0.000	76478	0.04665	0.4665
26 Endrin	14.660	14.660	0.000	62466	0.04997	0.4997

680 500

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3190.d
Report Date: 27-Mar-2001 12:52

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
*****	*****	*****	*****	*****	*****	*****
29 4,4'-DDD	15.226	15.220	0.006	1684	0.00140	0.01400(a)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.480	15.480	0.000	59115	0.04561	0.4561
33 Endrin aldehyde	16.026	16.020	0.006	831	0.00114	0.01139(a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.486	17.486	0.000	1625	0.00143	0.01429(a)
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	17566	0.01846	0.1846

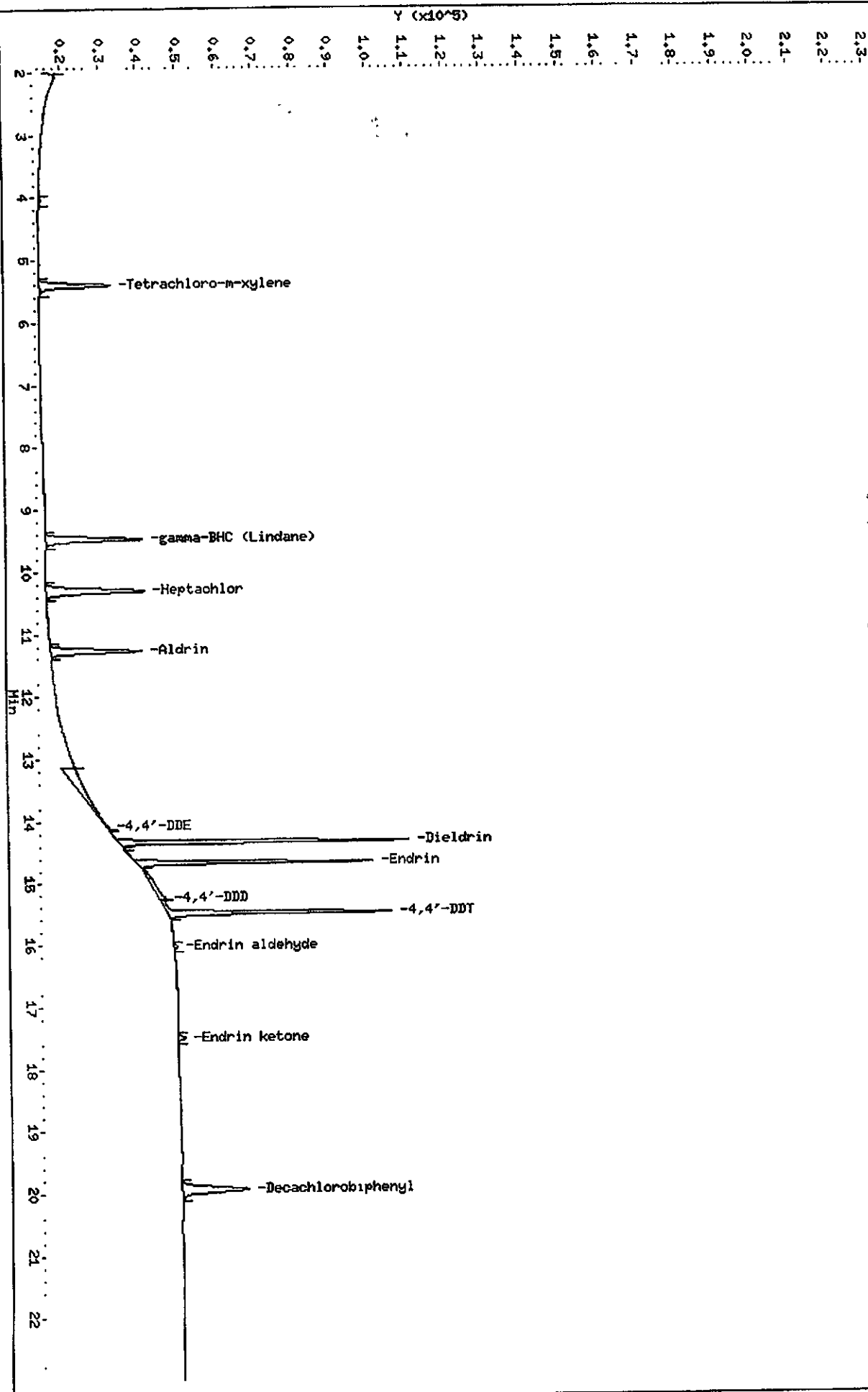
QC Flag Legend

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

Data File: \\pittpa02\chem\gc4.1\2231-G.b\D-B3190.d
Date: 26-MAR-2001 21:46
Client ID: LCS4105
Sample Info: DXX2E1AC,2231-G.b,,PEST,sub,,,
Volume Injected (ul): 1.0
Column Phase: RTX-1701

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

\\pittpa02\chem\gc4.1\2231-G.b\D-B3190.d\D-B3190.R04



PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS4105

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXX2E1AC

Date(s) Analyzed: 03/26/01 03/26/01

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		
gamma-BHC (Lindane)	1	8.77	8.72	8.82	0.2063	
	2	9.47	9.42	9.52	0.2159	4.6
Heptachlor	1	9.77	9.72	9.82	0.2021	
	2	10.30	10.25	10.35	0.2128	5.3
Aldrin	1	10.99	10.94	11.04	0.2000	
	2	11.26	11.21	11.31	0.2067	3.4
Dieldrin	1	14.23	14.18	14.28	0.4478	
	2	14.33	14.28	14.38	0.4665	4.2
4,4'-DDE	1	14.06	14.01	14.11	0.003680	
	2	14.08	14.02	14.12	0.002792	31.8
Endrin	1	14.76	14.71	14.81	0.4482	
	2	14.66	14.61	14.71	0.4997	11.5
4,4'-DDT	1	15.39	15.34	15.44	0.4431	
	2	15.48	15.43	15.53	0.4561	2.9
Endrin ketone	1	17.35	17.30	17.40	0.01062	
	2	17.49	17.44	17.54	0.01429	34.6

10A 680 503
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCS4105

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXX2E1AC

Date(s) Analyzed: 03/26/01 03/26/01

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		
Endrin aldehyde	1	15.65	15.60	15.70	0.009312	
	2	16.03	15.97	16.07	0.01139	22.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

680 504

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: C1C250000 105

Sample WT/Vol: 1000 / mL
Work Order: DXX2E1AD
Dilution factor: 1

Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/26/01

QC Batch: 1084105

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.210	
58-89-9	gamma-BHC (Lindane)	0.215	
50-29-3	4,4'-DDT	0.456	
60-57-1	Dieldrin	0.454	
72-20-8	Endrin	0.458	
76-44-8	Heptachlor	0.211	

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3191.d
Report Date: 27-Mar-2001 13:17

680 505

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3191.d
Lab Smp Id: DXX2E1AD Client Smp ID: LCD4105
Inj Date : 26-MAR-2001 22:14
Operator : 010139 Inst ID: gc4.i
Smp Info : DXX2E1AD,2231-G.b,,PEST.sub,,,
Misc Info : 220173-LCD
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 27-Mar-2001 13:12 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.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	5.146	5.146	0.000	27760	0.01631	0.1631
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	8.766	8.766	0.000	41729	0.02146	0.2146
10 beta-BHC	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
9 Heptachlor	9.766	9.766	0.000	32452	0.02111	0.2111
11 delta-BHC	Compound Not Detected.					
13 Aldrin	10.993	10.993	0.000	31289	0.02101	0.2101
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	14.060	14.060	0.000	904	<0.0	0.003984(a)
23 Dieldrin	14.226	14.226	0.000	101140	0.04536	0.4536
26 Endrin	14.760	14.760	0.000	89165	0.04577	0.4577
29 4,4'-DDD	Compound Not Detected.					

680 506

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3191.d
Report Date: 27-Mar-2001 13:17

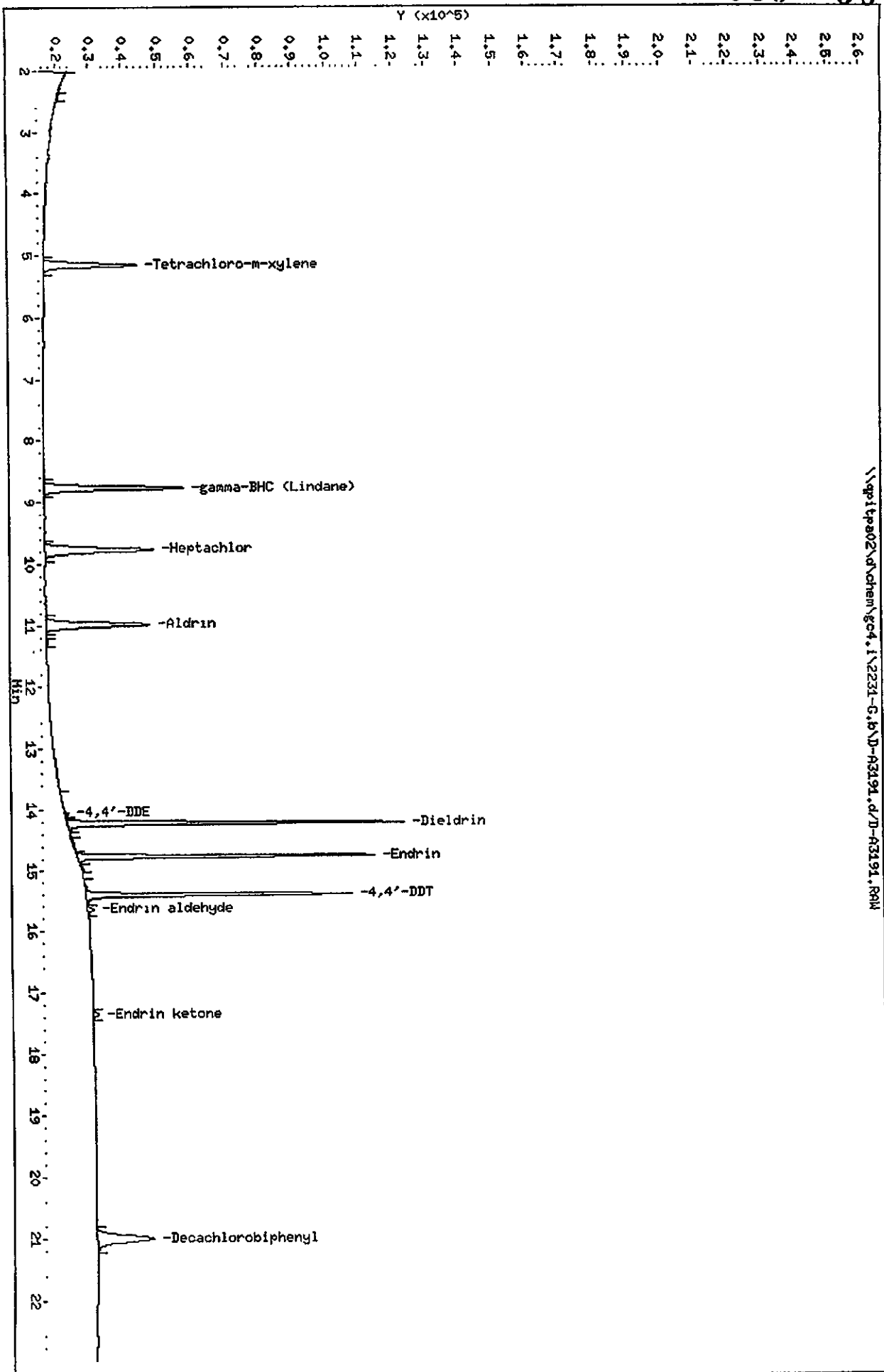
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
30 Toxaphene						
31 Endosulfan II						
32 4,4'-DDT	15.393	15.393	0.000	79969	0.04564	0.4564
33 Endrin aldehyde	15.646	15.646	0.000	1738	0.00113	0.01133 (a)
34 Endosulfan sulfate						
35 Methoxychlor						
37 Endrin ketone	17.353	17.353	0.000	1510	<0.0	0.009849 (a)
\$ 38 Decachlorobiphenyl	20.993	21.000	-0.007	17037	0.01685	0.1685

QC Flag Legend

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

Data File: \\pittpa02\chem\g04.1\2231-G.b\D-A3191.d
Date: 26-Mar-2004 22:14
Client ID: LCD4105
Sample Info: DXX2E1AD, 2231-G.b, PEST, sub,,
Volume Injected (uL): 1.0
Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3191.d
 Report Date: 27-Mar-2001 12:52

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3191.d
 Lab Smp Id: DXX2E1AD Client Smp ID: LCD4105
 Inj Date : 26-MAR-2001 22:14
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXX2E1AD, 2231-G.b, , PEST.sub, , ,
 Misc Info : 220173-LCD
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 27-Mar-2001 12:47 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	5.400	5.400	0.000	18770	0.01725	0.1724
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)	9.473	9.473	0.000	26456	0.02241	0.2240
10 beta-BHC				Compound Not Detected.		
8 Chlordane				Compound Not Detected.		
9 Heptachlor	10.300	10.300	0.000	26909	0.02202	0.2202
11 delta-BHC				Compound Not Detected.		
13 Aldrin	11.260	11.260	0.000	25102	0.02149	0.2149
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	14.080	14.073	0.007	443	<0.0	0.002786(a)
23 Dieldrin	14.326	14.326	0.000	78123	0.04765	0.4765
26 Endrin	14.660	14.660	0.000	63908	0.05113	0.5113

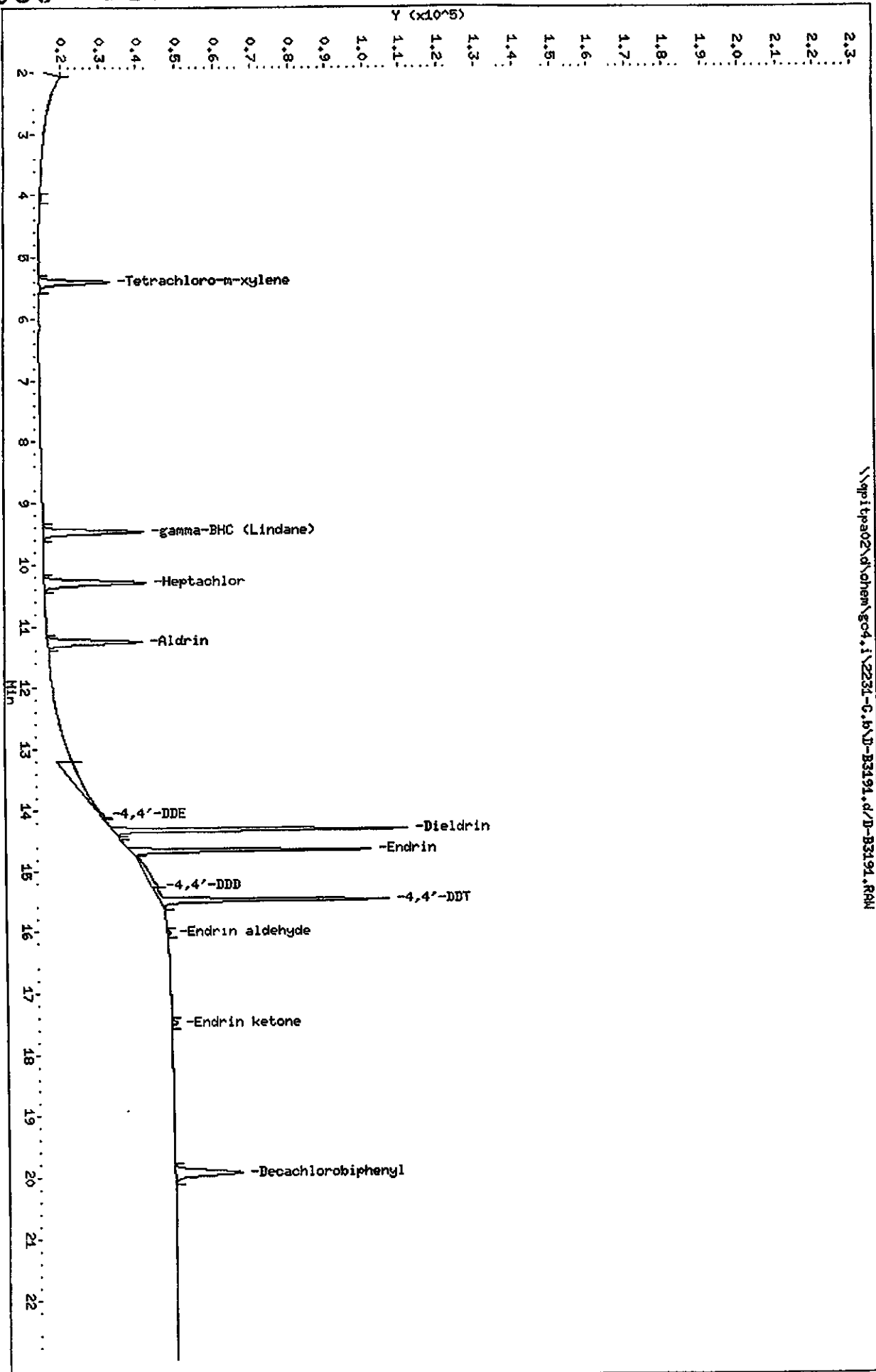
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.226	15.220	0.006	1613	0.00134	0.01340(a)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.480	15.480	0.000	60774	0.04689	0.4689
33 Endrin aldehyde	16.026	16.020	0.006	784	0.00107	0.01075(a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.486	17.486	0.000	1502	0.00132	0.01321(a)
\$ 38 Decachlorobiphenyl	19.926	19.926	0.000	17362	0.01824	0.1824

QC Flag Legend

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

Data File: \\pittpa02\chem\gc04.i\2231-G.b\D-B3191.d
Date: 26-MAR-2004 22:14
Client ID: LCD4105
Sample Info: DXX2E1AD\2231-G.b,,PEST,sub,,
Volume Injected (uL): 1.0
Column phase: RTX-1704

Instrument: GC4.i
Operator: 010139
Column diameter: 0.53



Contract :

SDG No.: C1C220173

Date(s) Analyzed: 03/26/01 03/26/01

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		
gamma-BHC (Lindane)	1	8.77	8.72	8.82	0.2146	
	2	9.47	9.42	9.52	0.2240	4.4
Heptachlor	1	9.77	9.72	9.82	0.2111	
	2	10.30	10.25	10.35	0.2202	4.3
Aldrin	1	10.99	10.94	11.04	0.2101	
	2	11.26	11.21	11.31	0.2149	2.3
Dieldrin	1	14.23	14.18	14.28	0.4536	
	2	14.33	14.28	14.38	0.4765	5.0
4,4'-DDE	1	14.06	14.01	14.11	0.003984	
	2	14.08	14.02	14.12	0.002786	43.0
Endrin	1	14.76	14.71	14.81	0.4577	
	2	14.66	14.61	14.71	0.5113	11.7
4,4'-DDT	1	15.39	15.34	15.44	0.4564	
	2	15.48	15.43	15.53	0.4689	2.7
Endrin ketone	1	17.35	17.30	17.40	0.009849	
	2	17.49	17.44	17.54	0.01321	34.1

680 512

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCD4105

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXX2E1AD

Date(s) Analyzed: 03/26/01 03/26/01

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		
Endrin aldehyde	1	15.65	15.60	15.70	0.01133	
	2	16.03	15.97	16.07	0.01075	5.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

680 513

PESTICIDE
MISCELLANEOUS

Pest 1084105

TBAD UM 3/26/01

680 5'4

STL - Pittsburgh

AB 1084106

Separatory Funnel Extraction Worksheet

Lgbook ID: OP50

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method
3-25-01	3-25-01	Pest/PCB	3510P	MeOH	T05E08	Baker	NA

Lot Number	Sample ID	Client ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surrogate Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1. PIC 220173 BKK	NA	NA	1000	10.0	5	190-126-51.0		NA	NA	NA
2.	LP5	2 Pest			5			190-126-5	0.5	
3.	LP5 Dyp	2 Pest			5			081-35-01		
4.	LP5	2 PCB			5			190-126-13	1.0	
5.	LP5 Dyp				5					
6.	001				8			NA	NA	
7.	002				8					
8. PIC 220138 001					5					
9. PIC 230250 024					5					
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										

Analyst	Extract(s)	Time	Date	Location	Analyst	Time	Date	Location
PY	PY	PY	3-25-01 1300	P. Yushinski	PY	3-25-01 1310	P. Yushinski	RFI-6P
PY	PY	PY	3/26/01 1300	Mary Mark	PY	3/26/01 1410	Mary Mark	RFI-6C

Reviewed by	Date
BioAlto	3-25-01

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 : QUAN TERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701

REVIEWED BY:

680 515

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 66

Instrument Type : 760 / 900 Series Intelligent Interface

Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A 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	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-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	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-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:

Furbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2261-G.SEQ
 Created by : DE11/02/98 on : 3/27/01 11:00
 Edited by : LM03/26/01 on : 3/27/01 11:08
 Description : QUANTERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
 REVIEWED BY:

680 517

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 20
 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	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
3	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
4	Sample	DXRH21AD, 2231-G	220173-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DXRKF1AP, 2231-G	220173-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DXX2E1AA, 2231-G	220173-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	DXX2E1AC, 2231-G	220173-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DXX2E1AD, 2231-G	220173-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	DXN191AD, 2231-G	210117-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DXN191AV, 2231-G	210117-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DXN191AW, 2231-G	210117-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DXWW11AA, 2231-G	210117-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DXWW11AC, 2231-G	210117-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	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
20	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
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3182	D-B3182		D-B3182	-	-
2	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3183	D-B3183		D-B3183	-	-
3	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3184	D-B3184		D-B3184	-	-
4	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3185	D-B3185		D-B3185	-	-
5	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3186	D-B3186		D-B3186	-	-
6	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3187	D-B3187		D-B3187	-	-
7	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3188	D-B3188		D-B3188	-	-
8	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3189	D-B3189		D-B3189	-	-
9	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3190	D-B3190		D-B3190	-	-
10	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3191	D-B3191		D-B3191	-	-
11	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3192	D-B3192		D-B3192	-	-
12	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3193	D-B3193		D-B3193	-	-
13	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3194	D-B3194		D-B3194	-	-
14	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3195	D-B3195		D-B3195	-	-
15	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3196	D-B3196		D-B3196	-	-
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3197	D-B3197		D-B3197	-	-
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3198	D-B3198		D-B3198	-	-
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3199	D-B3199		D-B3199	-	-
19	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3200	D-B3200		D-B3200	-	-
20	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3201	D-B3201		D-B3201	-	-

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:

680 518

H

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	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 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:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2261-G.SEQ
 Created by : DE11/02/98 on : 3/27/01 11:00
 Edited by : LM03/26/01 on : 3/27/01 11:08
 Description : QUANTERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
 REVIEWED BY:

680 520

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 20
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A								Addend	Norm. factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor			
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	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	
3	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	
4	Sample	DXRH21AD, 2231-G	220173-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
5	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
6	Sample	DXRKF1AP, 2231-G	220173-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
7	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
8	Sample	DXX2E1AA, 2231-G	220173-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
9	Sample	DXX2E1AC, 2231-G	220173-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
10	Sample	DXX2E1AD, 2231-G	220173-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
11	Sample	DXN191AD, 2231-G	210117-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
12	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
13	Sample	DXN191AV, 2231-G	210117-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
14	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
15	Sample	DXN191AW, 2231-G	210117-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
16	Sample				1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
17	Sample	DXWW11AA, 2231-G	210117-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
18	Sample	DXWW11AC, 2231-G	210117-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
19	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	
20	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	

Row	Site	Rack	Vial	Sequence Process Information - Channel A										Update RT	Out Dev
				Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name		
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3182	D-A3182		D-A3182	-	-	-	LPT1:
2	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3183	D-A3183		D-A3183	-	-	-	LPT1:
3	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3184	D-A3184		D-A3184	-	-	-	LPT1:
4	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3185	D-A3185		D-A3185	-	-	-	LPT1:
5	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3186	D-A3186		D-A3186	-	-	-	LPT1:
6	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3187	D-A3187		D-A3187	-	-	-	LPT1:
7	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3188	D-A3188		D-A3188	-	-	-	LPT1:
8	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3189	D-A3189		D-A3189	-	-	-	LPT1:
9	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3190	D-A3190		D-A3190	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3191	D-A3191		D-A3191	-	-	-	LPT1:
11	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3192	D-A3192		D-A3192	-	-	-	LPT1:
12	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3193	D-A3193		D-A3193	-	-	-	LPT1:
13	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3194	D-A3194		D-A3194	-	-	-	LPT1:
14	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3195	D-A3195		D-A3195	-	-	-	LPT1:
15	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3196	D-A3196		D-A3196	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3197	D-A3197		D-A3197	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3198	D-A3198		D-A3198	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3199	D-A3199		D-A3199	-	-	-	LPT1:
19	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3200	D-A3200		D-A3200	-	-	-	LPT1:
20	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3201	D-A3201		D-A3201	-	-	-	LPT1:

REQUESTED BY: YUSHINSC

METHOD QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
14C,CLP1	DXRH2-1-AD	___	322811	399411	I-09-QJ	C1C220173	001		WATER	0	13 1
14C,CLP1	DXRKF-1-AP	___	322812	399411	I-09-QJ	C1C220173	002		WATER	0	13 1

Used 1 liter per sample
and empty bottles were
thrown away!

P. Yushinski
3-25-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski	P. Yushinski	3-25-01 0730
P. Yushinski	P. Yushinski	3-25-01 1030

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

680 522

PCB DATA

680 523

PCB
QC SUMMARY

680 524

SW846 8082 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220173

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1080/IDW/004	762*	77	01
02	DF/24-B/1080/IDW/005	419*	74	01
03	METHOD BLK. DXX2F1AA	90	90	00
04	LCS DXX2F1AC	80	85	00
05	LCSD DXX2F1AD	90	92	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: STLPIIT

SDG No:

Lot #: C1C250000

WO #: DXX2F1AC

BATCH: 1084106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.97	80	61- 118	
Aroclor 1260	10.0	8.38	84	61- 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limitsCOMMENTS:

680 526

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C250000

WO #: DXX2F1AD

BATCH: 1084106

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	8.81	88	61- 118	
Aroclor 1260	10.0	9.07	91	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

DXX2F1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A20887.

Lot Number: C1C220173

Matrix: WATER

Extraction Method:

Date Extracted: 03/25/01

Date Analyzed(1): 03/27/01

Date Analyzed(2): N/A

Time Analyzed(1): 06:54

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/1080/IDW/004	DXRH21AE	03/27/01	N/A
02	DF/24-B/1080/IDW/005	DXRKFLAQ	03/27/01	N/A
03	CHECK SAMPLE	DXX2F1AC C	03/27/01	N/A
04	DUPLICATE CHECK	DXX2F1AD L	03/27/01	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

680 528

PCB
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21AE

Date Extracted: 03/25/01

Dilution factor: 1

Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DF/24-B/1080/IDW/004

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

Page 1

```
Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20883.D
Lab Smp Id: DXRH21AE Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 27-MAR-2001 05:35
Operator : 010139 Inst ID: gc8.i
Smp Info : DXRH21AE,2191.b
Misc Info : 220173001
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 27-Mar-2001 07:51 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PITPC061
```

Concentration Formula: $\text{Amt} * \text{DF} * \text{Vt/Vo/Vi}$

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	RESPONSE (	ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
\$ 1	665	1.680	(-0.015)	13802209	1 52481	CAS # 877-09-8	
							(RM)
8 Aroclor-1221							CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s)

14 Aroclor-1232 CAS #: 11141-16-5

Operator disabled compound identification.

680 531

		CONCENTRATIONS					
		ON-COL	FINAL				
RT	EXP RT DLT RT	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO		
=====		=====	=====	=====	=====		=====
15 Aroclor-1242		CAS #: 53469-21-9					
Operator disabled compound identification.							
20 Aroclor-1016		CAS #: 12674-11-2					
Operator disabled compound identification.							
21 Aroclor-1248		CAS #: 12672-29-6					
Operator disabled compound identification.							
33 Aroclor-1254		CAS # 11097-69-1					
Operator disabled compound identification.							
\$ 34 Decachlorobiphenyl		CAS #: 2051-24-3					
10 601	10.603 (-0 002)	48705 0 01545	0.15452				
36 Aroclor-1260		CAS #: 11096-82-5					
Operator disabled compound identification.							

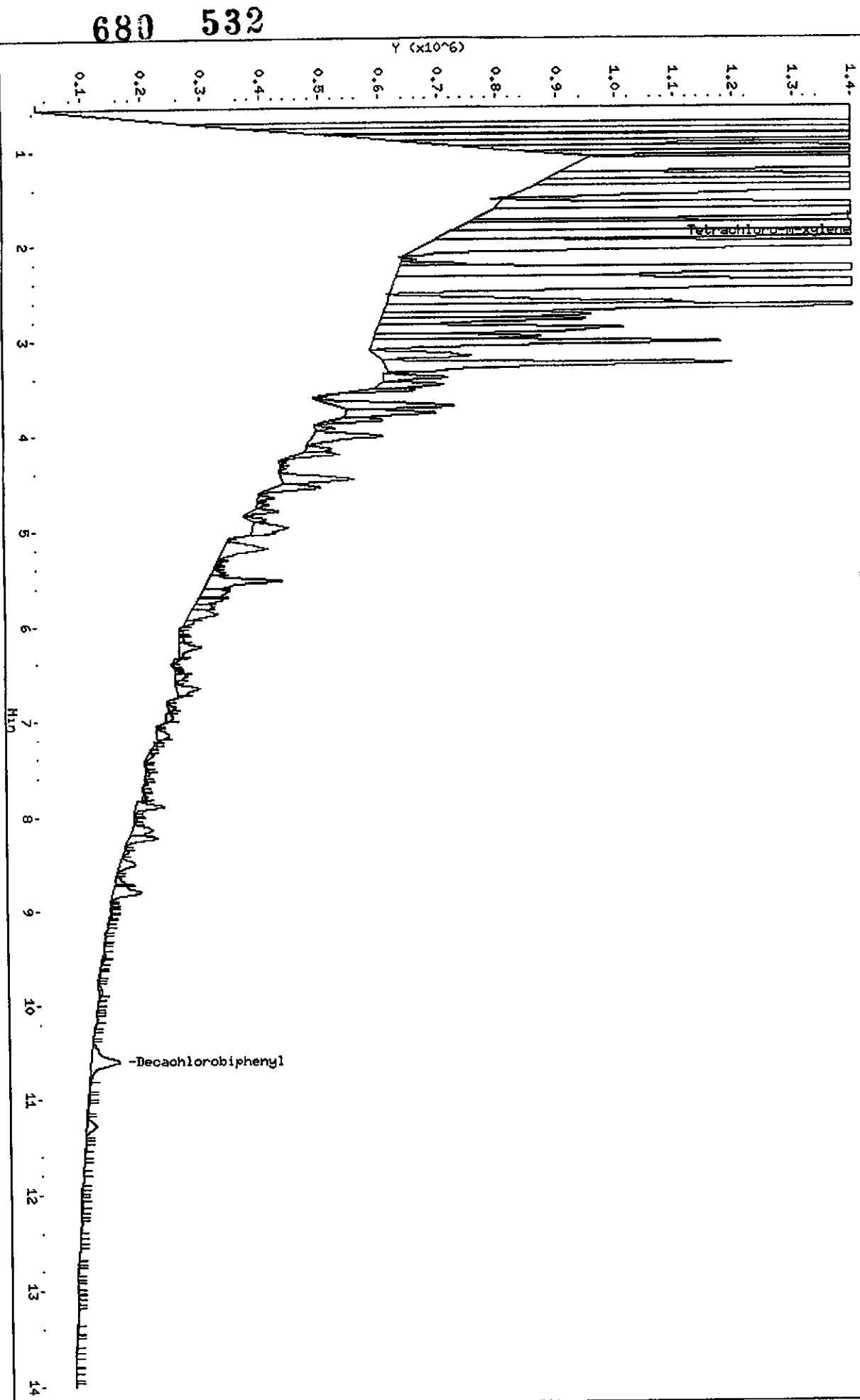
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ppitpa02\chem\gc8.1\2191.b\H-A20883.D
Date: 27-MAR-2001 05:35
Client ID: DF/24-B/1080/IDM/00
Sample Info: DMH21AE,2191.b
Volume Injected (uL): 1.0
Column Phase: DB608

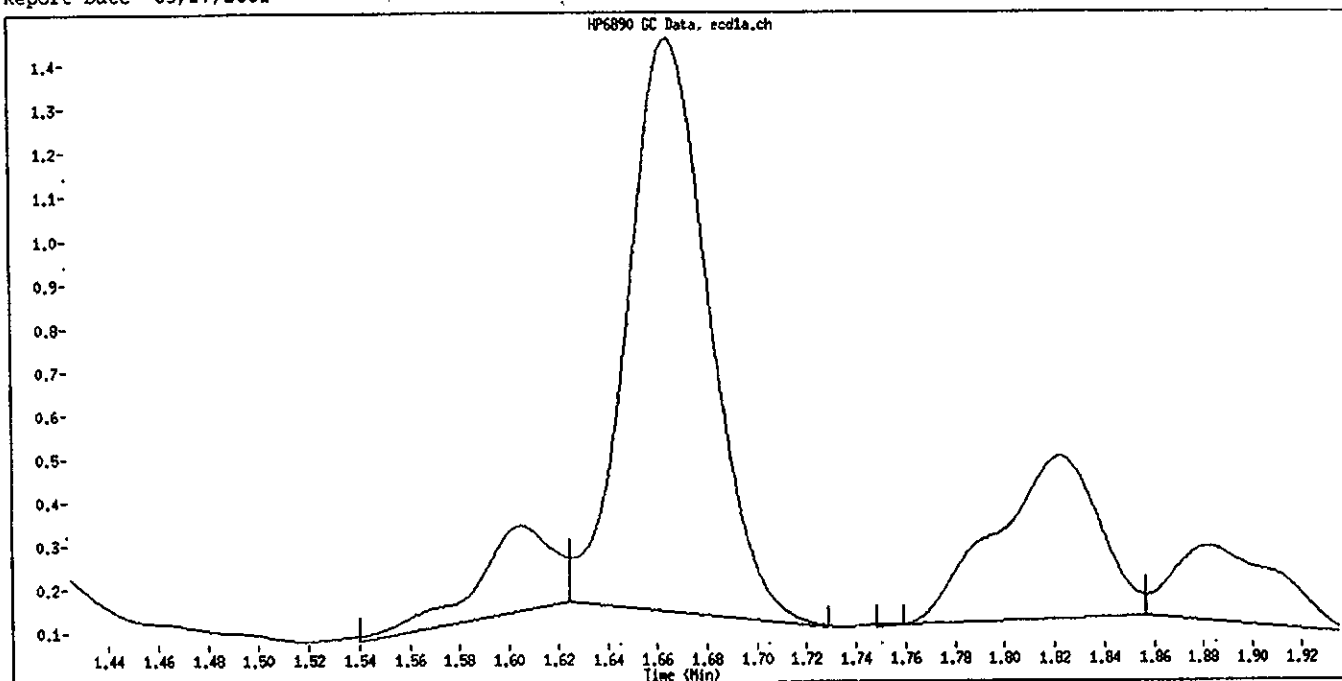
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc8.1\2191.b\H-A20883.D

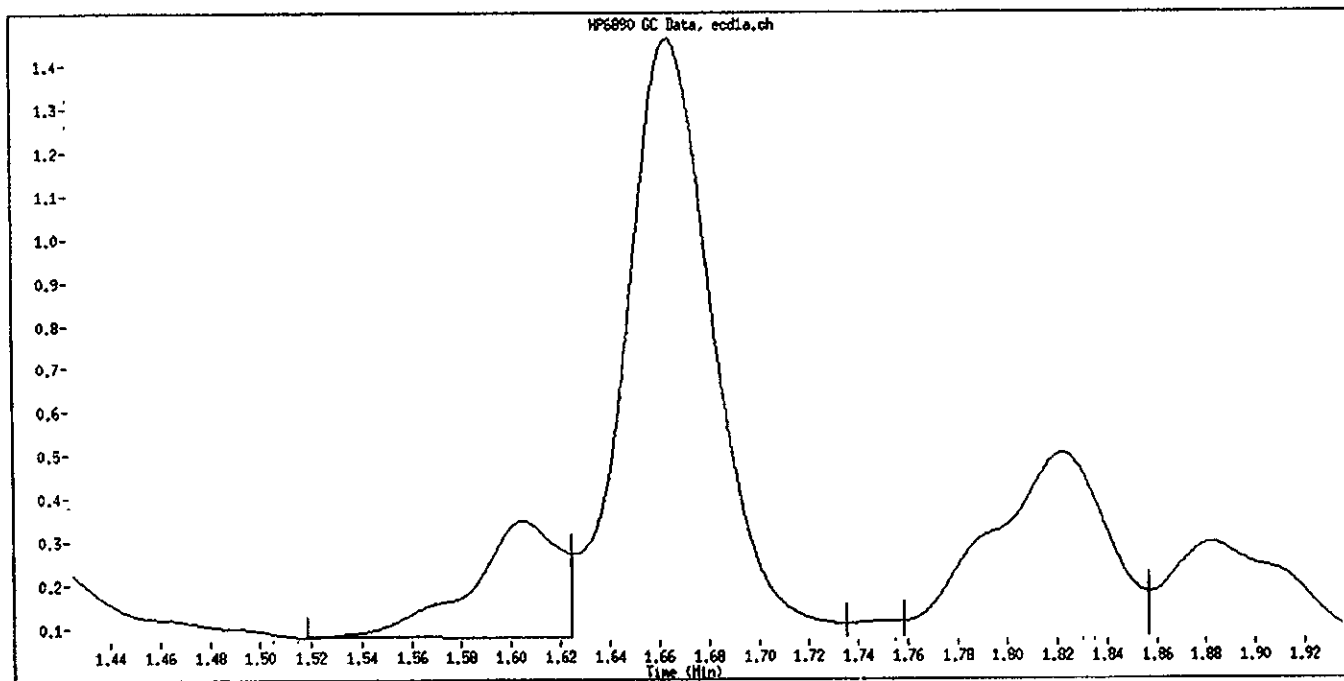


Data File Name: H-A20883.D
Inj Date and Time: 27-MAR-2001 05:35
Instrument ID: gc8.1
Client ID: DF/24-B/1080/IDW/00
Compound Name: Tetrachloro-m-xylene
CAS #: 877-09-8
Report Date: 03/27/2001

680 533



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

UXB INTERNATIONAL

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

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

Lab Sample ID: C1C220173 002

Sample WT/Vol: 1000 / mL
Work Order: DXRKF1AQ
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DF/24-B/1080/IDW/005

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

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STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20884.D
Lab Smp Id: DXRKF1AQ Client Smp ID: DF/24-B/1080/IDW/00
Inj Date : 27-MAR-2001 05:55
Operator : 010139 Inst ID: gc8.i
Smp Info : DXRKF1AQ,2191.b
Misc Info : 220173002
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 27-Mar-2001 07:51 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 54
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			
1 666	1 680	(-0 014)	7582774 0 83771	8 3771		(R)

8	Aroclor-1221		CAS #: 11104-28-2			
Operator disabled compound identification.						

14	Aroclor-1232		CAS #: 11141-16-5			
Operator disabled compound identification						

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Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20884.D
Report Date: 27-Mar-2001 09:15

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		CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
15 Aroclor-1242			CAS #: 53469-21-9					
Operator disabled compound identification.								

20 Aroclor-1016			CAS #: 12674-11-2					
Operator disabled compound identification.								

21 Aroclor-1248			CAS #: 12672-29-6					
Operator disabled compound identification								

33 Aroclor-1254			CAS #: 11097-69-1					
Operator disabled compound identification.								

\$ 34	Decachlorobiphenyl		CAS #: 2051-24-3					
10 604	10 603	(0 001)	46952	0.01490	0.14896			

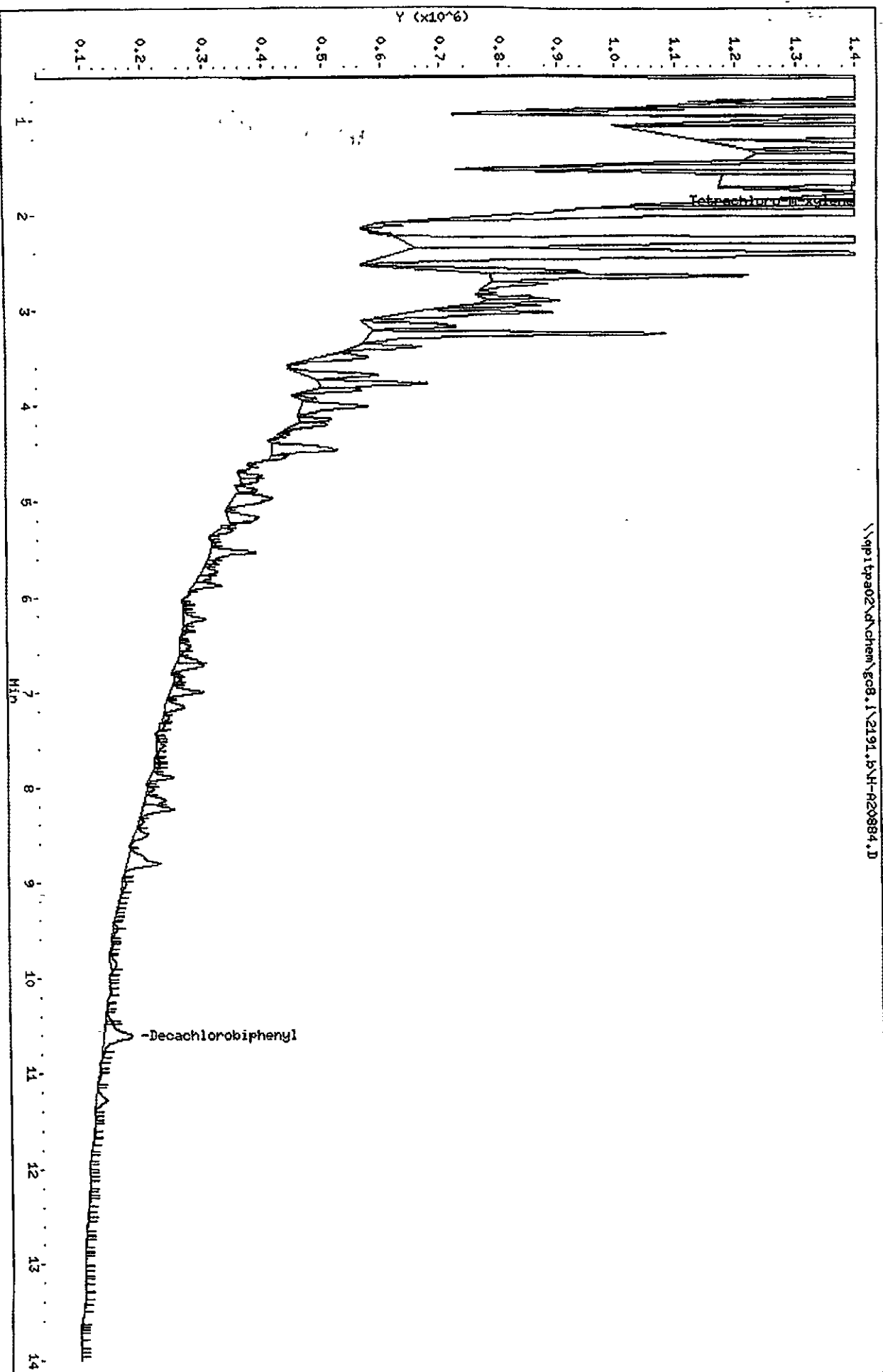
36 Aroclor-1260			CAS #: 11096-82-5					
Operator disabled compound identification								

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\p1tpa02\chem\gc8.i\2191.b\H-A20884.D
Date: 27-MAR-2001 05:55
Client ID: DF-24-B-1080/IDM/00
Sample Info: DXKF1A0,2191.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



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**PCB
CALIBRATION DATA**

Report Date : 19-Mar-2001 14:45

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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	

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Report Date : 19-Mar-2001 14:45

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6E
HP6890SM
DB608

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

7E H-68408M
Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20836.D
Report Date: 26-Mar-2001 14:37

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 26-MAR-2001 14:07
Lab File ID: H-A20836.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	MAX
20 Aroclor-1016(1)	124695	133196	0.010	6.8
(2)	244172	250786	0.010	2.7
(3)	378907	396592	0.010	4.7
(4)	235518	239960	0.010	1.9
(5)	154935	154894	0.010	-0.0
\$ 1 Tetrachloro-m-xylene	9051757	9426360	0.000	4.1
\$ 34 Decachlorobiphenyl	3151999	3072280	0.010	-2.5
36 Aroclor-1260(1)	315074	305334	0.010	-3.1
(2)	402734	397998	0.010	-1.2
(3)	319073	312724	0.010	-2.0
(4)	723412	706426	0.010	-2.3
(5)	312800	300368	0.010	-4.0

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7E HP6890SM
DB608Data File: \\qp1tpa02\d\chem\gc8.i\2191.b\H-A20878.D
Report Date: 27-Mar-2001 07:51

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STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 27-MAR-2001 03:56
 Lab File ID: H-A20878.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: \\qp1tpa02\d\chem\gc8.i\2191.b\PCBA.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
20 Aroclor-1016(1)	124695	136978	0.010	9.9	15.0
(2)	244172	256694	0.010	5.1	15.0
(3)	378907	405568	0.010	7.0	15.0
(4)	235518	243296	0.010	3.3	15.0
(5)	154935	158642	0.010	2.4	15.0
\$ 1 Tetrachloro-m-xylene	9051757	9630280	0.000	6.4	15.0
\$ 34 Decachlorobiphenyl	3151999	3095840	0.010	-1.8	15.0
36 Aroclor-1260(1)	315074	312304	0.010	-0.9	15.0
(2)	402734	407450	0.010	1.2	15.0
(3)	319073	313870	0.010	-2.6	15.0
(4)	723412	712986	0.010	-1.4	15.0
(5)	312800	299966	0.010	-4.1	15.0

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 27-MAR-2001 10:51
 Lab File ID: H-A20899.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	RF0	MIN	MAX
-----	-----	-----	-----	-----
20 Aroclor-1016(1)	124695	130636	0.010	4.8 15.0
(2)	244172	251302	0.010	2.9 15.0
(3)	378907	398784	0.010	5.2 15.0
(4)	235518	245936	0.010	4.4 15.0
(5)	154935	159888	0.010	3.2 15.0
\$ 1 Tetrachloro-m-xylene	9051757	9285880	0.000	2.6 15.0
\$ 34 Decachlorobiphenyl	3151999	3096240	0.010	-1.8 15.0
36 Aroclor-1260(1)	315074	316128	0.010	0.3 15.0
(2)	402734	406592	0.010	1.0 15.0
(3)	319073	324302	0.010	1.6 15.0
(4)	723412	719974	0.010	-0.5 15.0
(5)	312800	303908	0.010	-2.8 15.0

Lab Name: .

Contract: .

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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	03/26/01	1248	1.68	10.60
17	M1232	03/26/01	1307		
18	M1242	03/26/01	1327		
19	M1248	03/26/01	1347		
20	M1660	03/26/01	1407	1.68	10.60
21	M1660	03/27/01	0356	1.68	10.60
22	DF/24-B/1080 DXRH21AE	03/27/01	0535	1.67	10.60
23	DF/24-B/1080 DXRKF1AQ	03/27/01	0555	1.67	10.60
24	PBLK4106 DXX2F1AA	03/27/01	0654	1.68	10.60
25	LCS4106 DXX2F1AC	03/27/01	0714	1.68	10.60
26	LCD4106 DXX2F1AD	03/27/01	0733	1.68	10.59
27	M1660	03/27/01	1051	1.68	10.60
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
Cal Date : 19-MAR-2001 11:24
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-A20610.D
Calibration Sample, Level: 3
Compound Sublist: 2154.sub
Sample Matrix: None

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: \\ppitpa02\chem\gc8.i\2131.b\H-A20610.D

Date: 19-MAR-2001 11:24

Client ID:

Sample Info: H2154, 2131.b

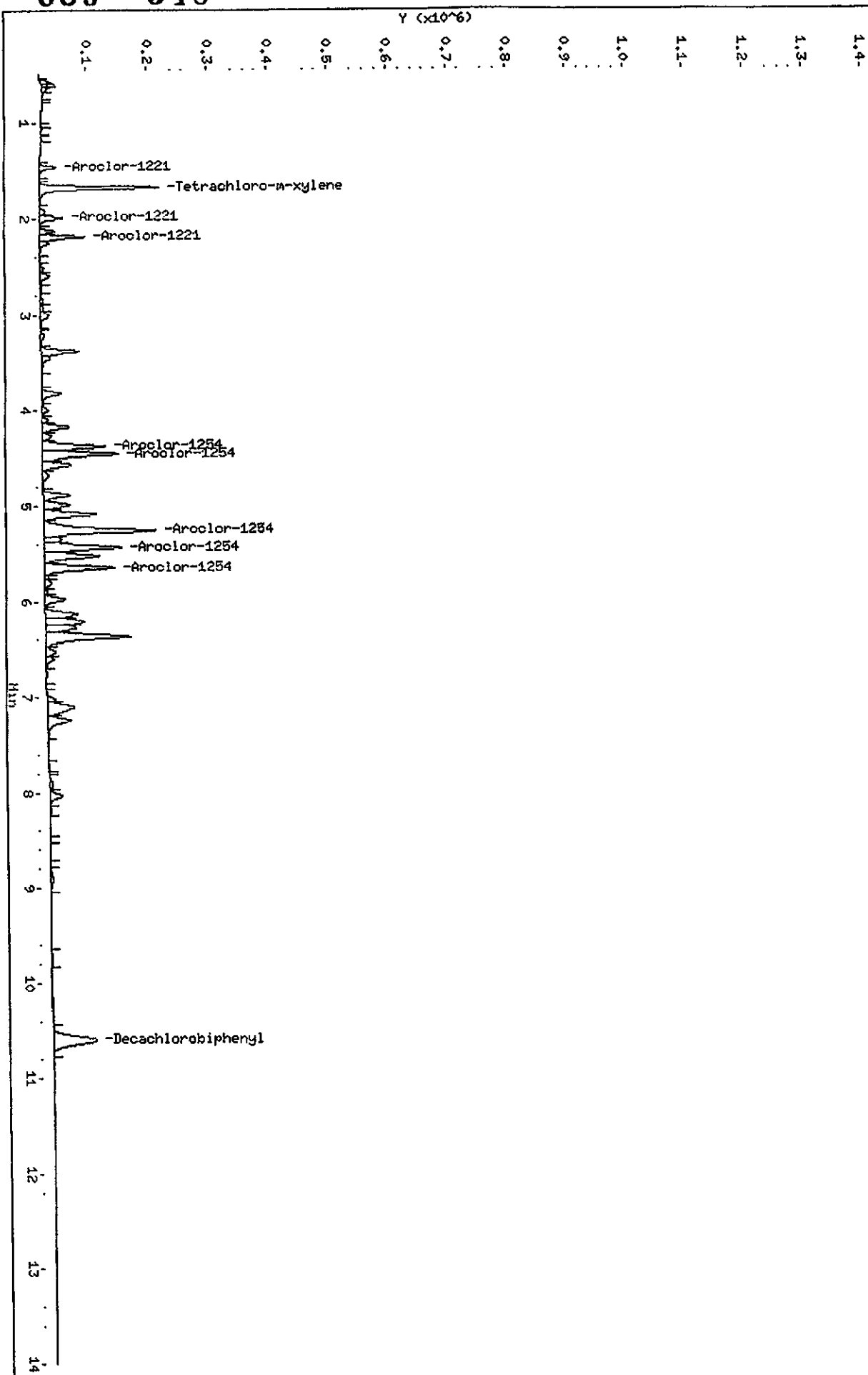
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\ppitpa02\chem\gc8.i\2131.b\H-A20610.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20611.D
Report Date: 19-Mar-2001 14:41

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STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20611.D
Lab Smp Id: M1232
Inj Date : 19-MAR-2001 11:43
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 : 19-Mar-2001 14:41 eppingerd
Cal Date : 19-MAR-2001 11:43
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-A20611.D
Calibration Sample, Level: 3
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)	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

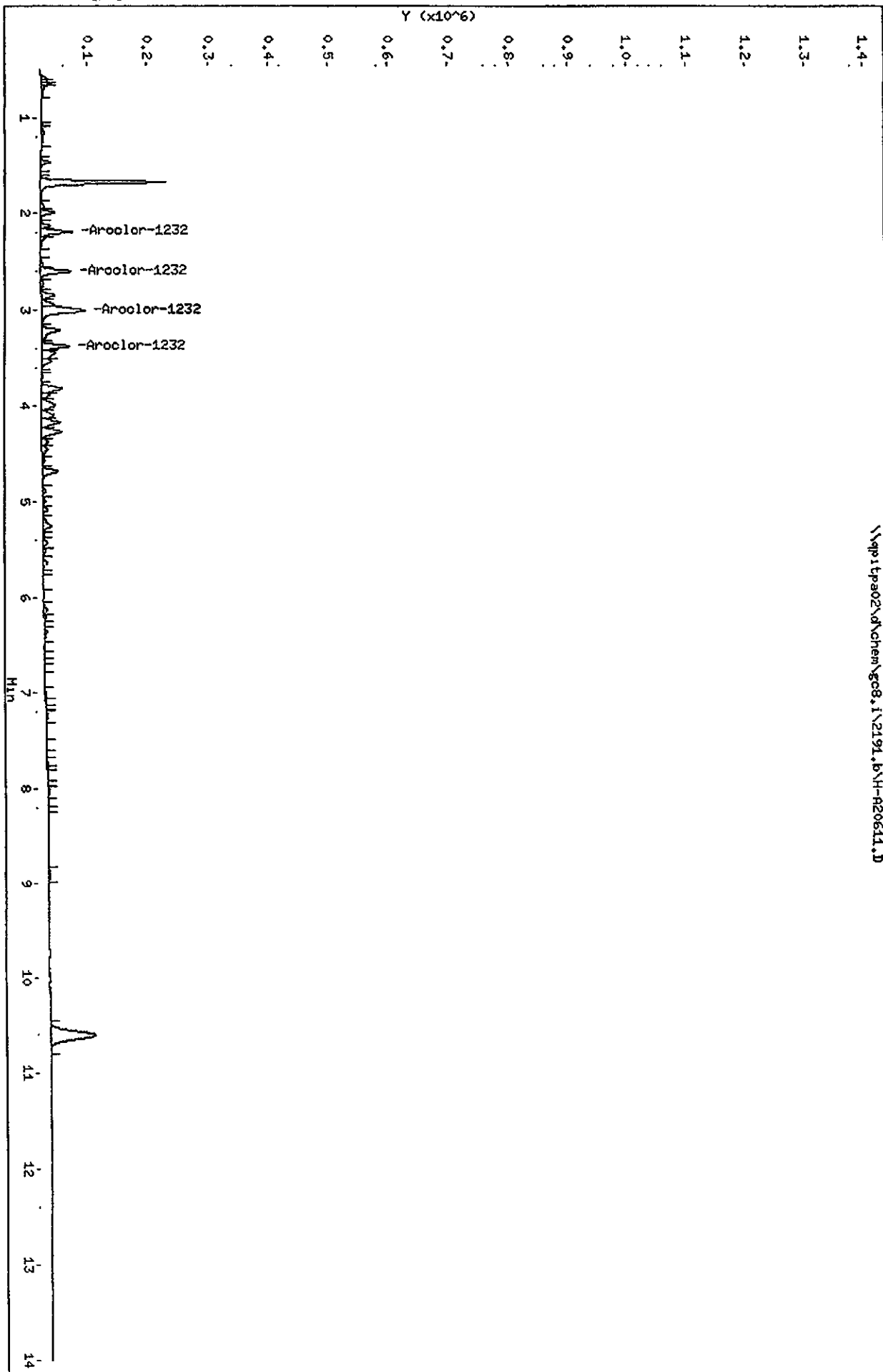
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

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Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20612.D
 Report Date: 19-Mar-2001 14:41

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
 Cal Date : 19-MAR-2001 12:03
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

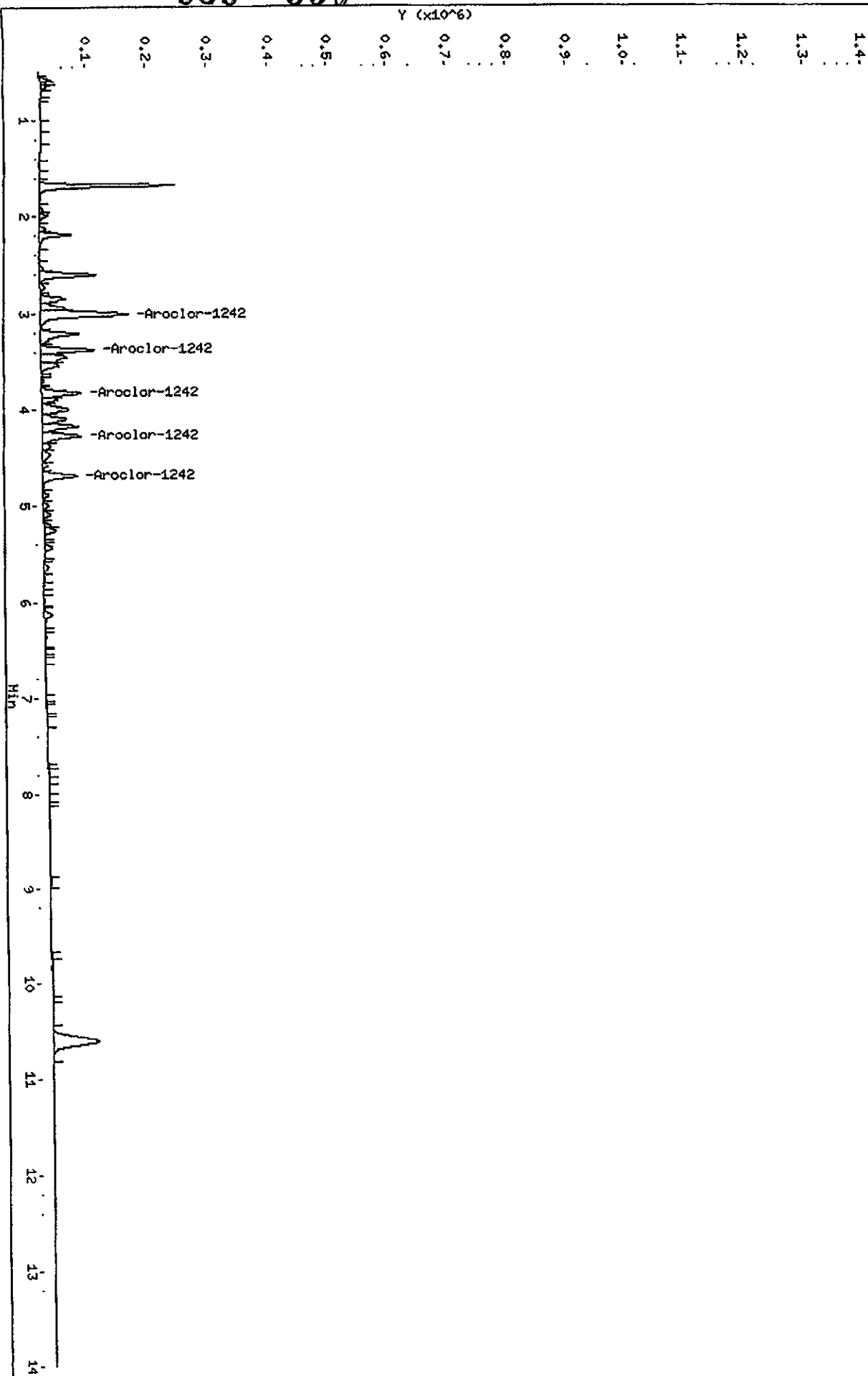
Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20612.D
 Calibration Sample, Level: 3
 Compound Sublist: 1242.sub
 Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	RESPONSE (	ng)	(	ng)	=====
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: \\pittpa02\chem\gc8.i\2191.b\H-A20612.D
 Date: 19-MAR-2001 12:03
 Client ID:
 Sample Info: H1242,2131.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\gc8.i\2191.b\H-A20612.D



680 550

689 551

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
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
Cal Date : 19-MAR-2001 12:23
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20613.D
Calibration Sample, Level: 3
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)	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				

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20613.D

Date : 19-MAR-2001 12:23

Client ID:

Sample Info: M1248, 2131.b

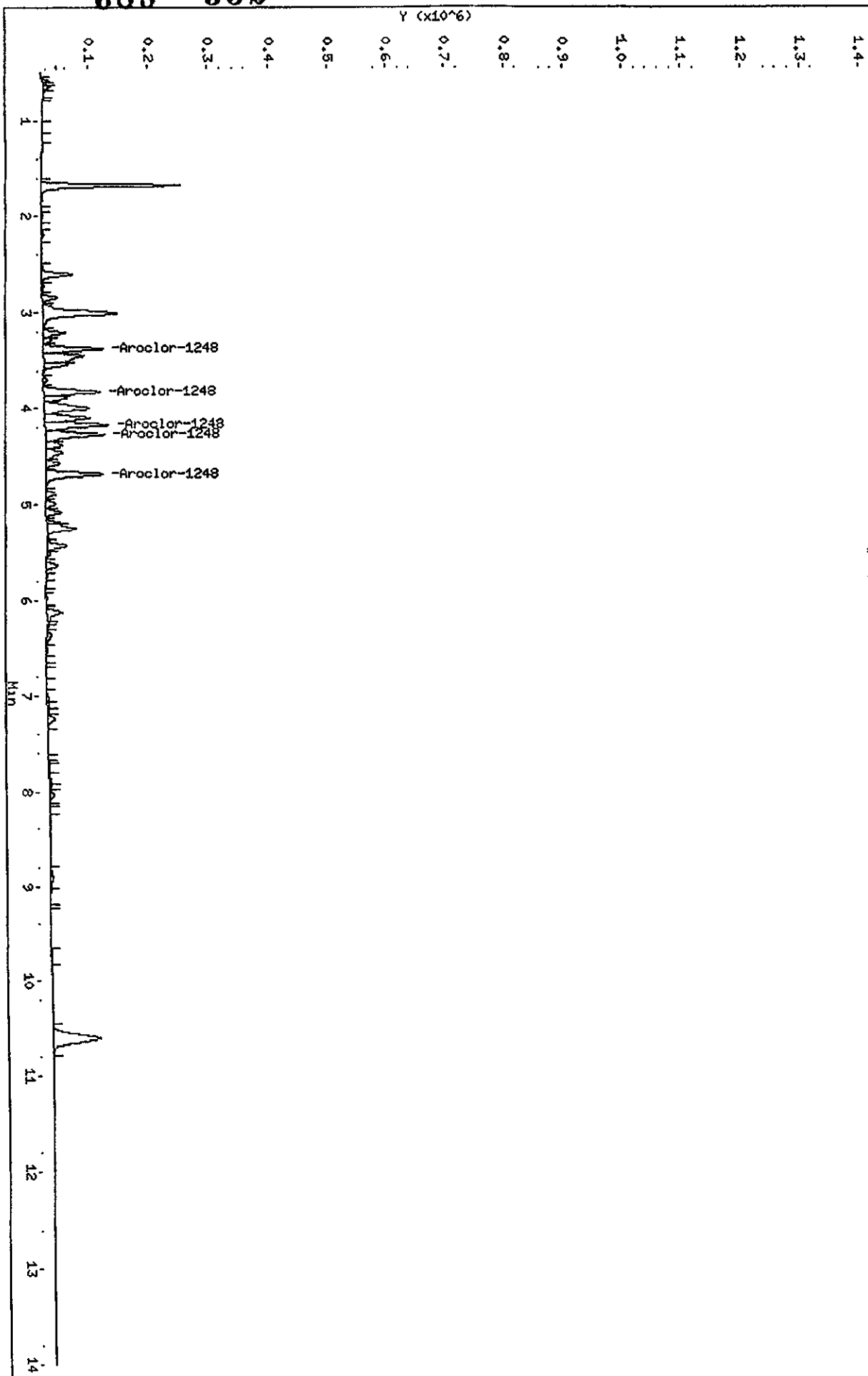
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20613.D



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							
			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)		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		

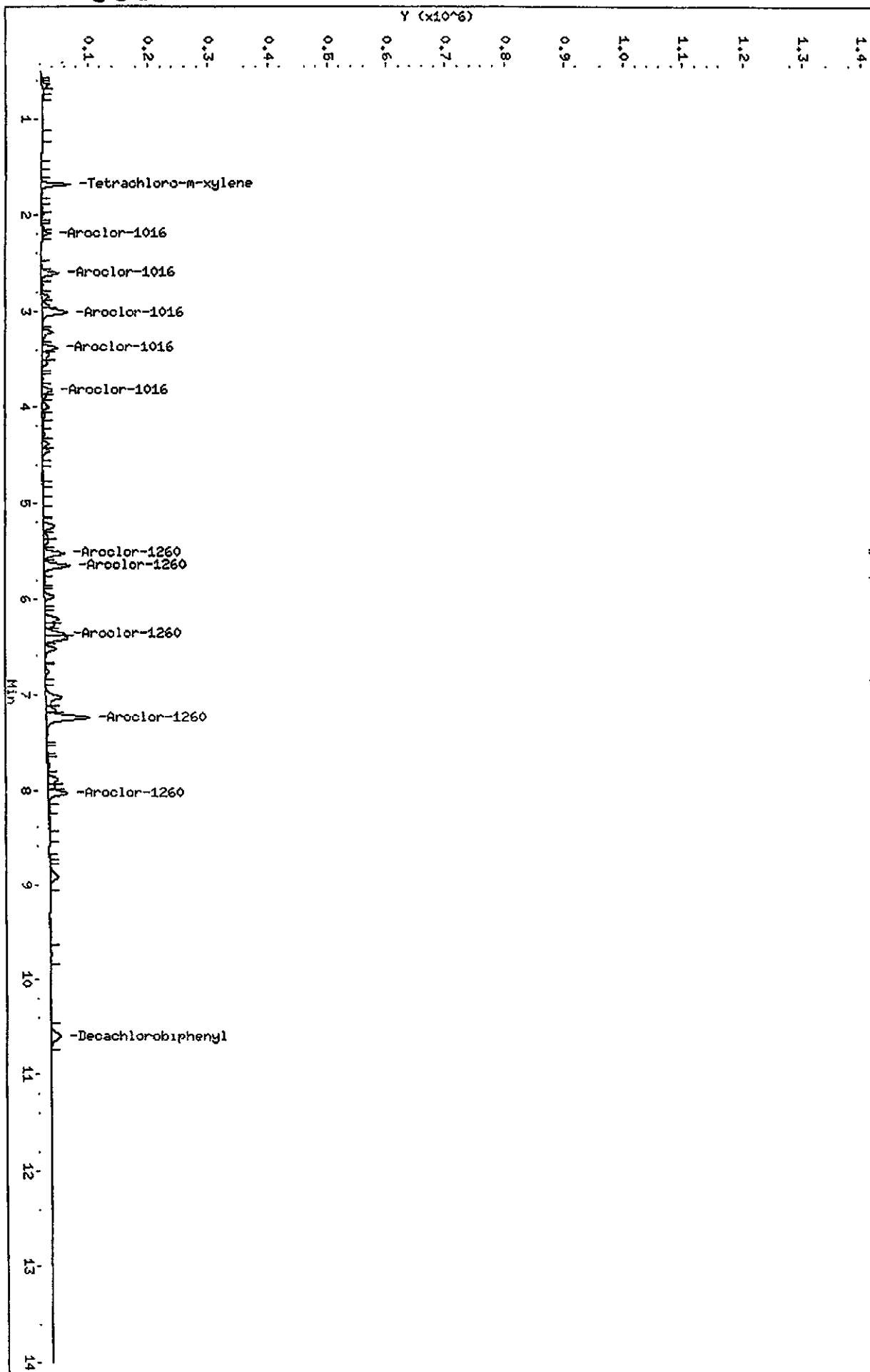
\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3			
10 601	10 603	(-0.002)		15925 0 00500	0 0052136		

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)		71163 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: \\pittpa02\chem\ec8.1\2191.b\H-A20614.D
Date: 19-MAR-2001 12:43
Client ID:
Sample Info: L1660,2191.b
Column phase: DB608

Instrument: ec8.1
Operator: 010139
Column diameter: 0.53

\\pittpa02\chem\ec8.1\2191.b\H-A20614.D



680 555

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 Quant Type: ESTD
Cal Date : 19-MAR-2001 13:02 Cal File: H-A20615.D
Als bottle: 7 Calibration Sample, Level: 2
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			
2 190	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			

680 556

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
Report Date: 19-Mar-2001 14:42

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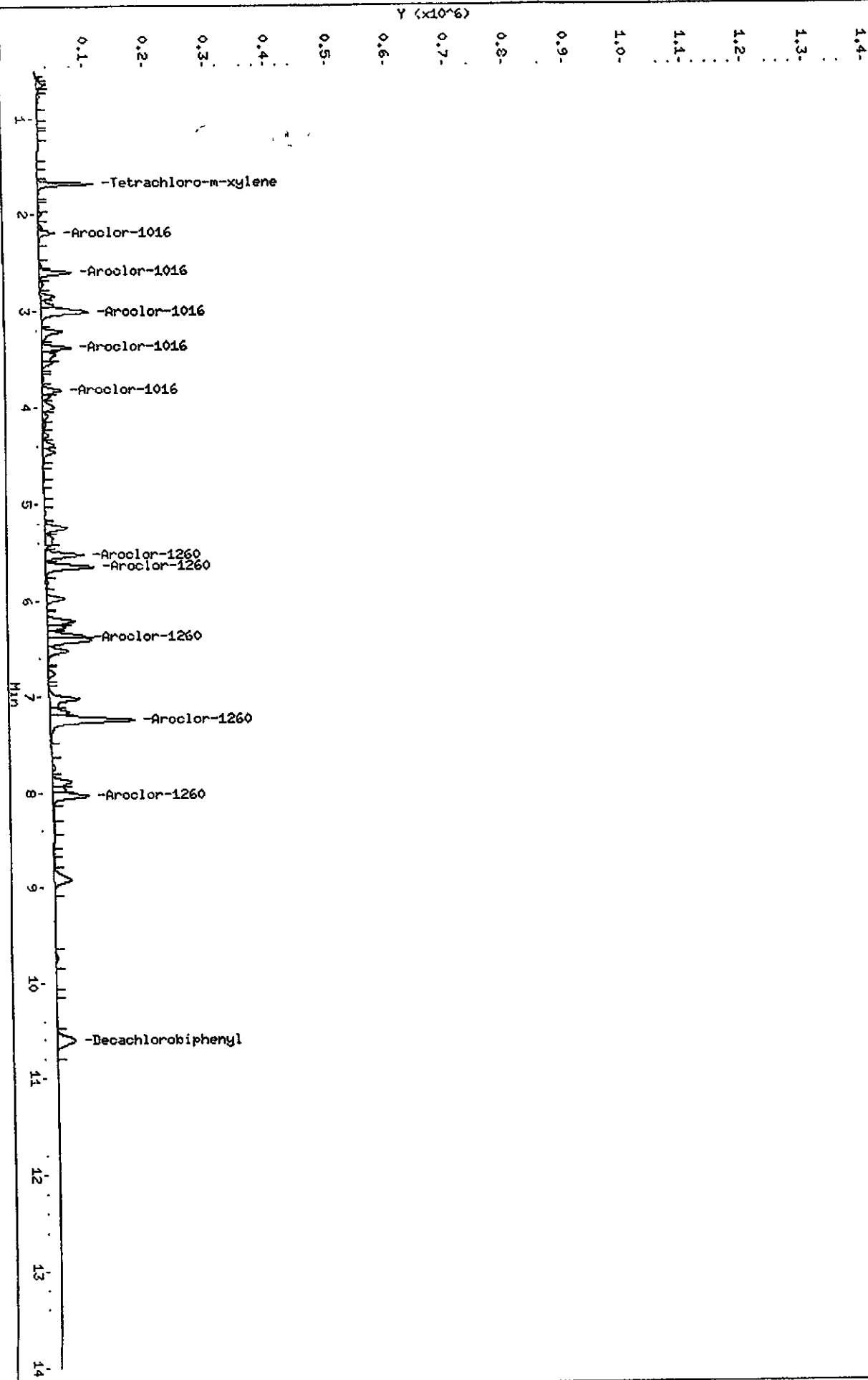
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ppitpa02\chem\gc8.i\2191.b\H-A20615.D
 Date: 19-Mar-2001 13:02
 Client ID:
 Sample Info: HL1660,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc8.i\2191.b\H-A20615.D



Inj Date and Time 19-MAR-2001 13:02

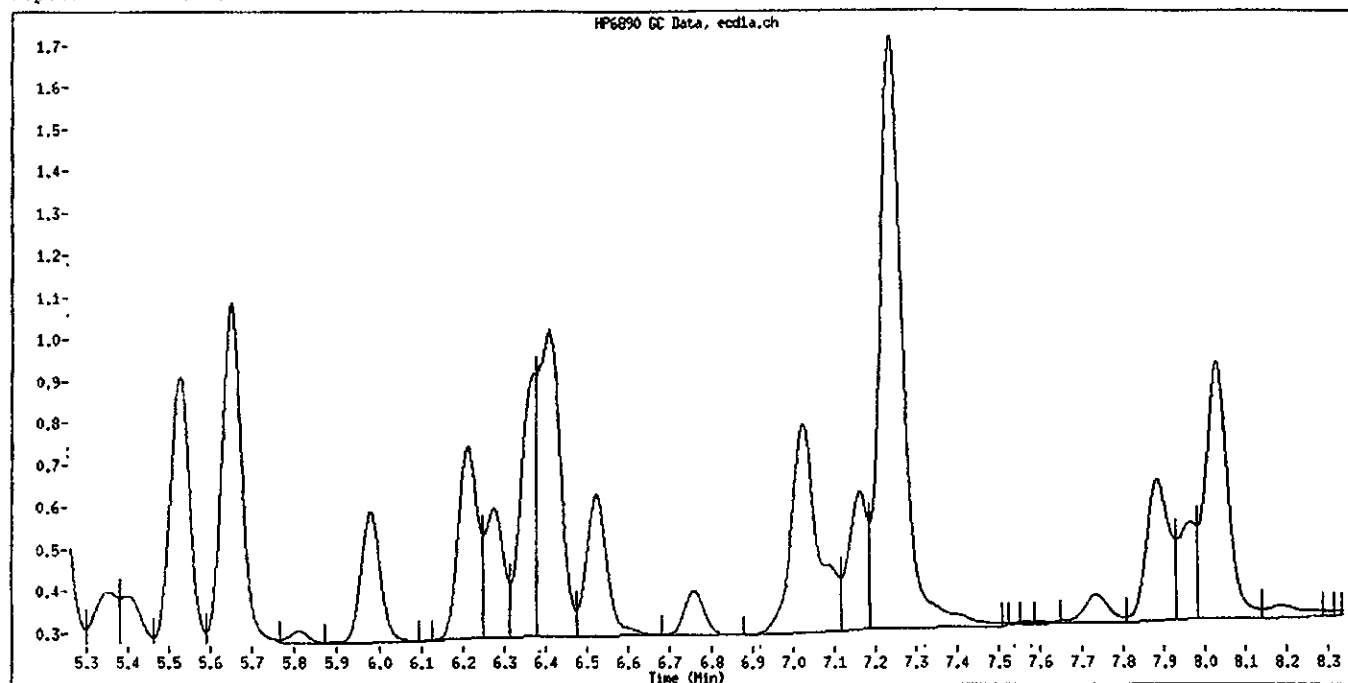
Instrument ID gc8 i

Client ID

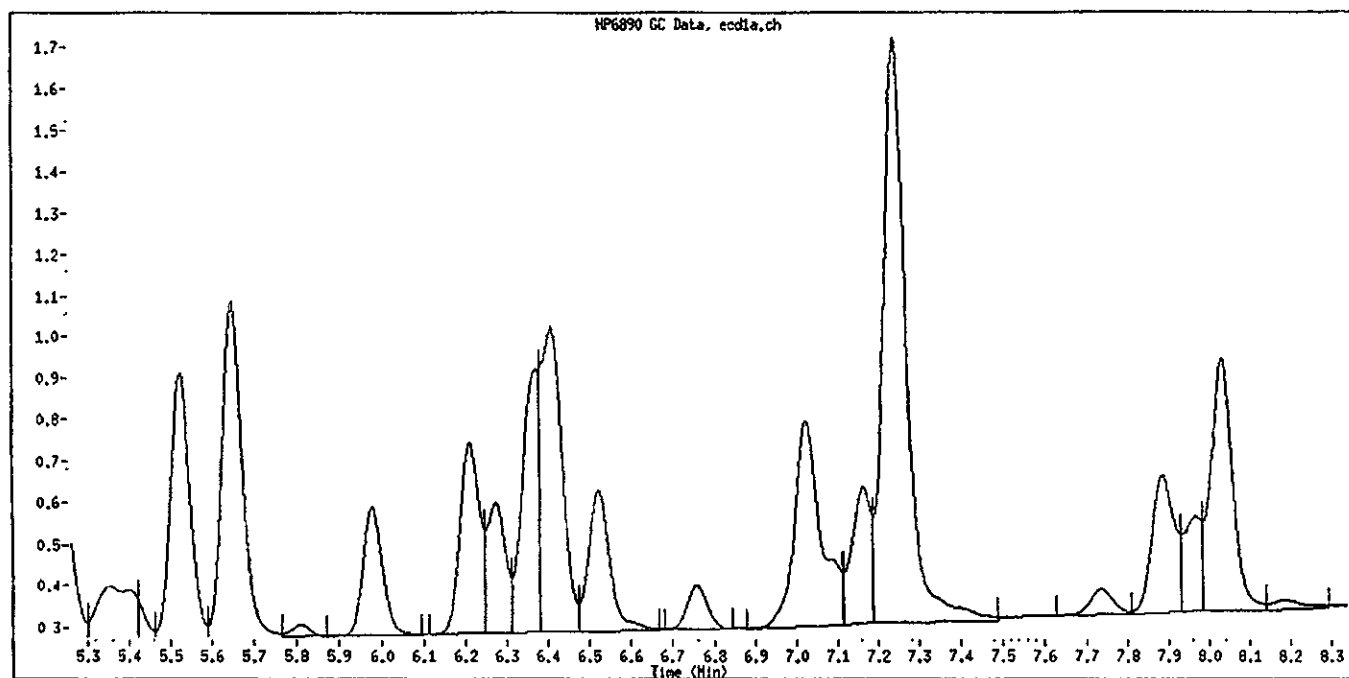
Compound Name Aroclor-1260

CAS # 11096-82-5

Report Date 03/19/2001



Original Integration



Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason: Poor Chromatography

680 559

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

Inst ID: gc8.i

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						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(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		

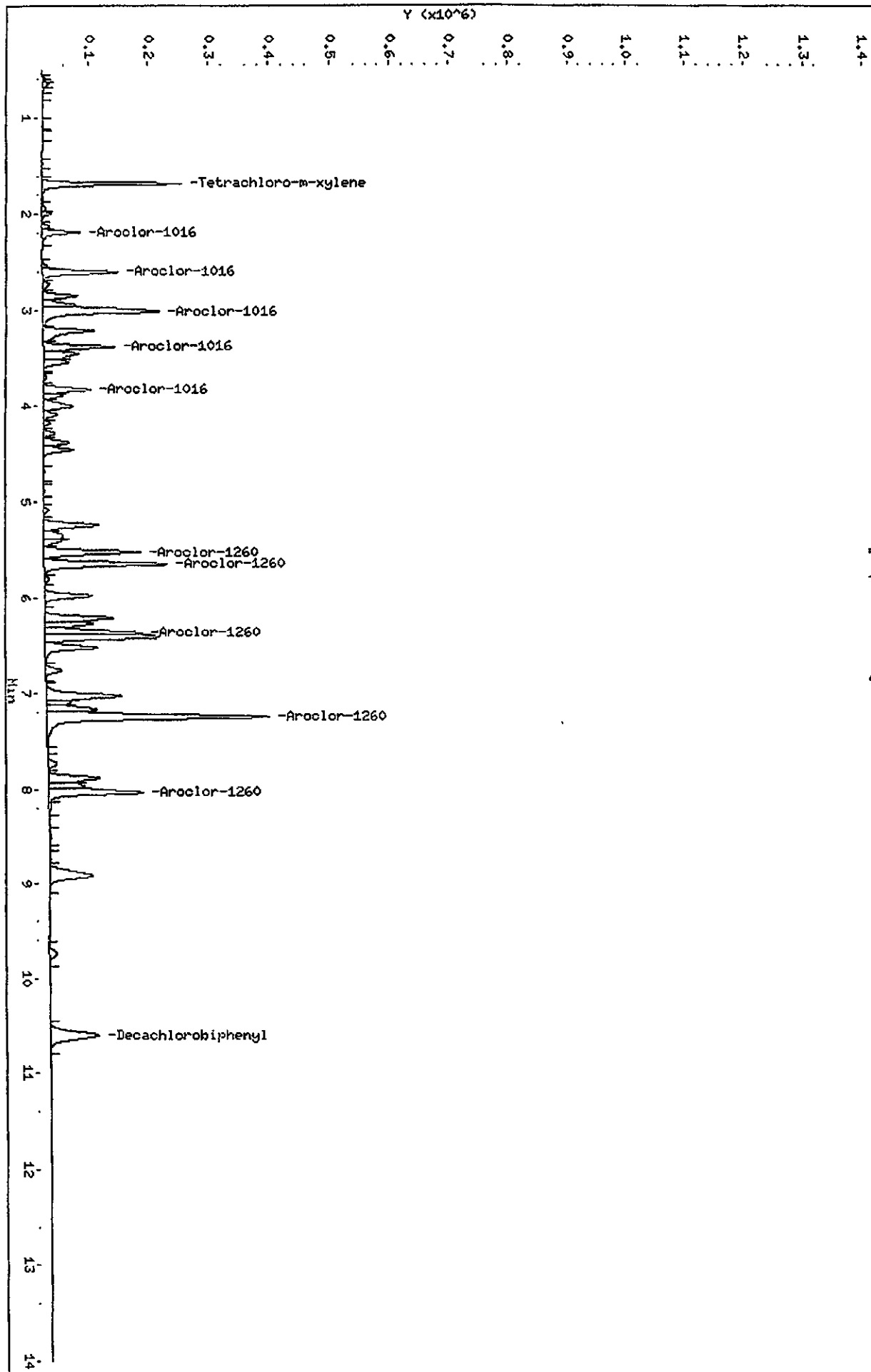
\$ 34 Decachlorobiphenyl				CAS #:	2051-24-3	
10 603	10 603	(0.000)	80706 0.02500	0.025536		

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.i\2191.b\H-A20616.D
Date: 19-MAR-2001 13:22
Client ID:
Sample Info: M1660,2191.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\gc8.i\2191.b\H-A20616.D



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 Quant Type: ESTD
Cal Date : 19-MAR-2001 13:42 Cal File: H-A20617.D
Als bottle: 9 Calibration Sample, Level: 4
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				
2 188	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				

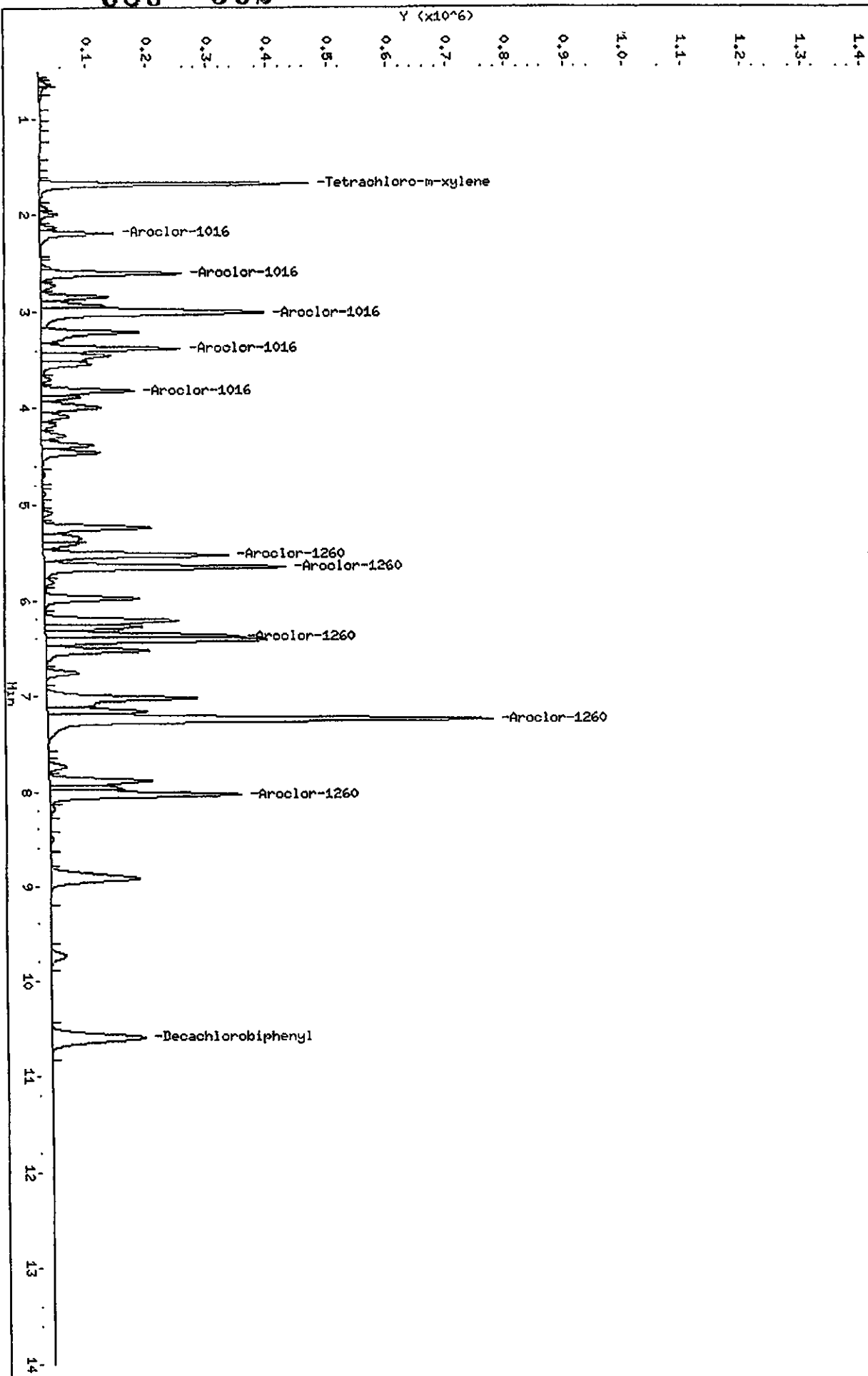
36 Aroclor-1260					CAS # 11096-82-5				
5 524	5 525	(-0.001)	306386	1 00000	0 94422	0.00-	0.00	0.00	
5 647	5 650	(-0.003)	401031	1 00000	0 97508	95.86-	135.86	0.00	
6 375	6 366	(0.009)	320377	1.00000	0 99465	116.91-	156.91	0.00	
7.239	7.240	(-0.001)	740772	1 00000	1.0242	120.00-	160.00	0.00	
8 031	8.031	(0.000)	316578	1.00000	1.0156	108.33-	148.33	0.00	
Average of Peak Amounts =					0.99076				

680 562

Data File: \\spitpa02\chem\gc8.1\2191.b\H-A20617.D
 Date: 19-MAR-2001 13:42
 Client ID:
 Sample Info: H14660,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\spitpa02\chem\gc8.1\2191.b\H-A20617.D



680 563

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 Inst ID: gc8.i
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 Quant Type: ESTD
Cal Date : 19-MAR-2001 14:02 Cal File: H-A20618.D
Als bottle: 10 Calibration Sample, Level: 5
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			
2 190	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			

680 564

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
Report Date: 19-Mar-2001 14:43

Page 2

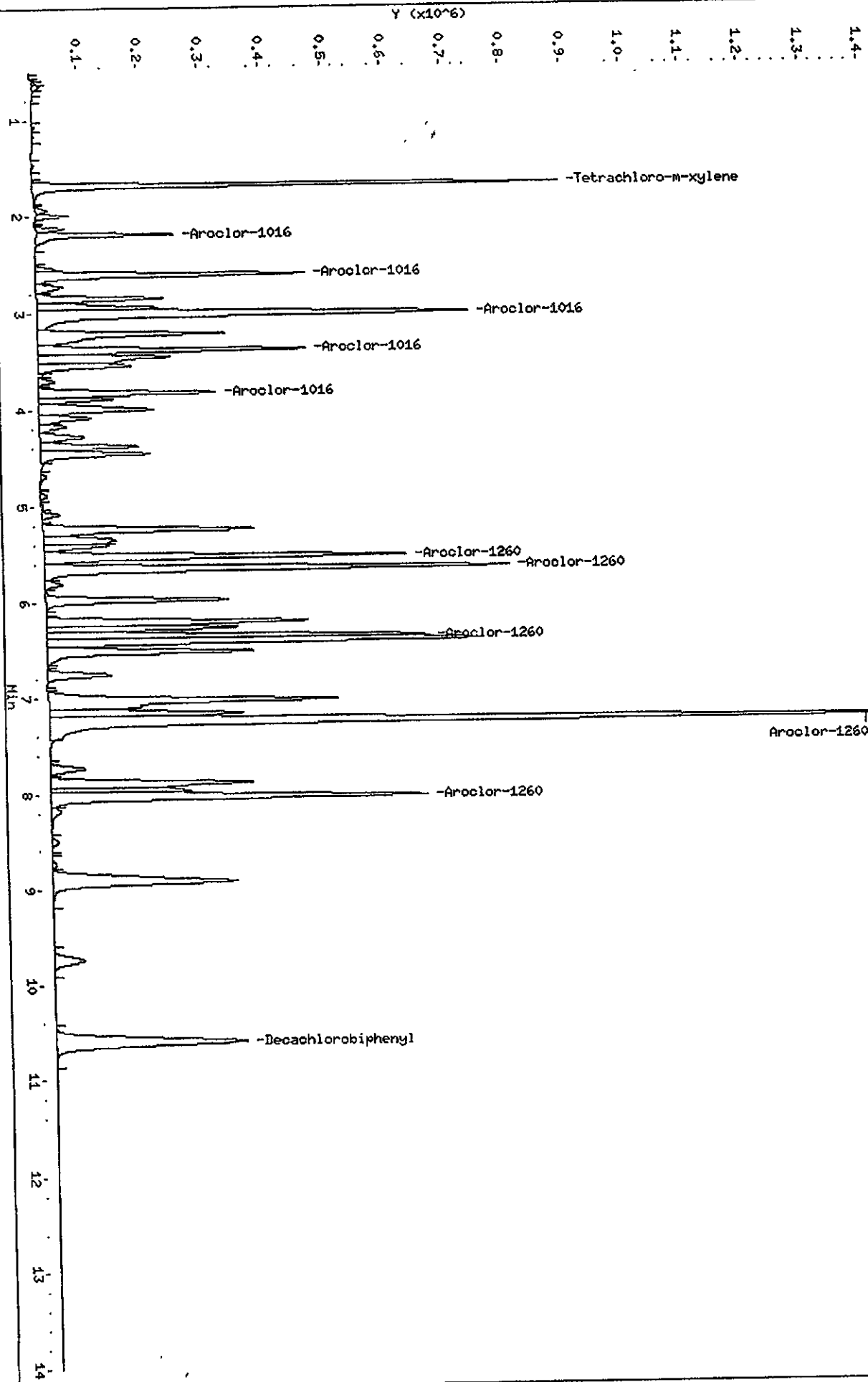
QC Flag Legend

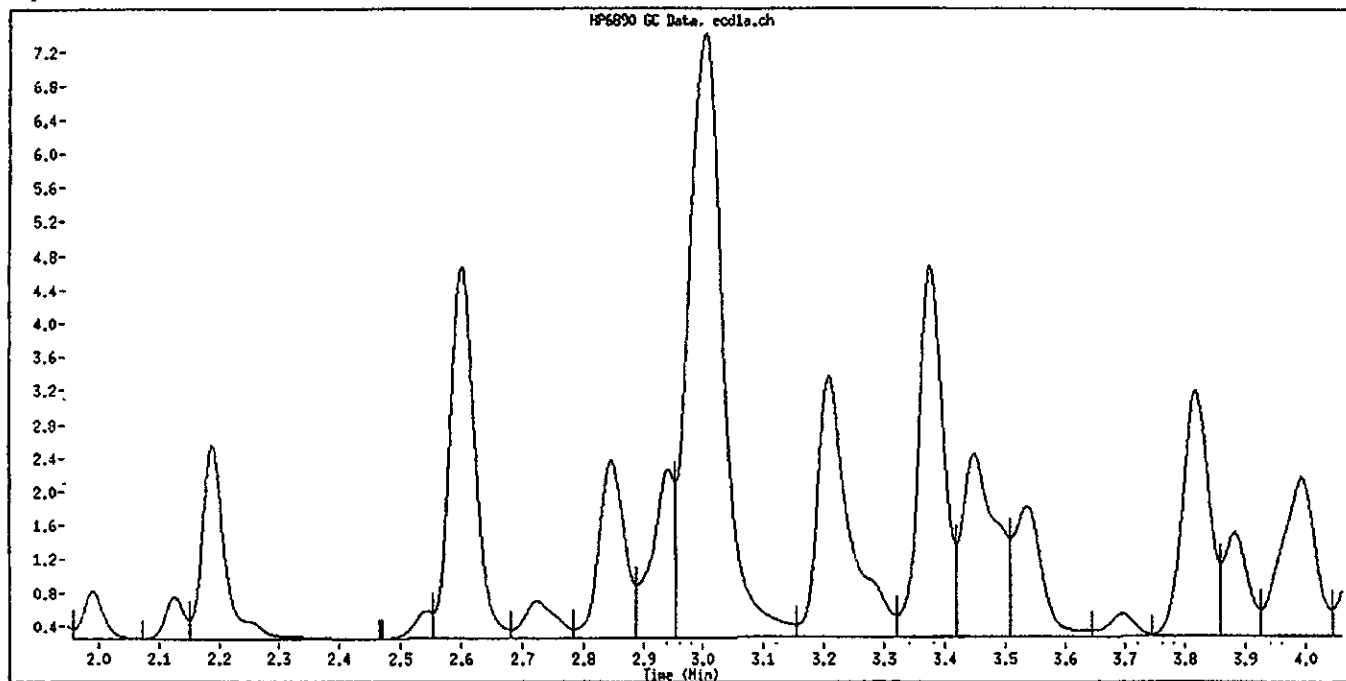
M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc8.1\2191.B\H-A20618.D
Date: 19-Mar-2001 14:02
Client ID:
Sample Info: H1660,2191.b
Column phase: DB608

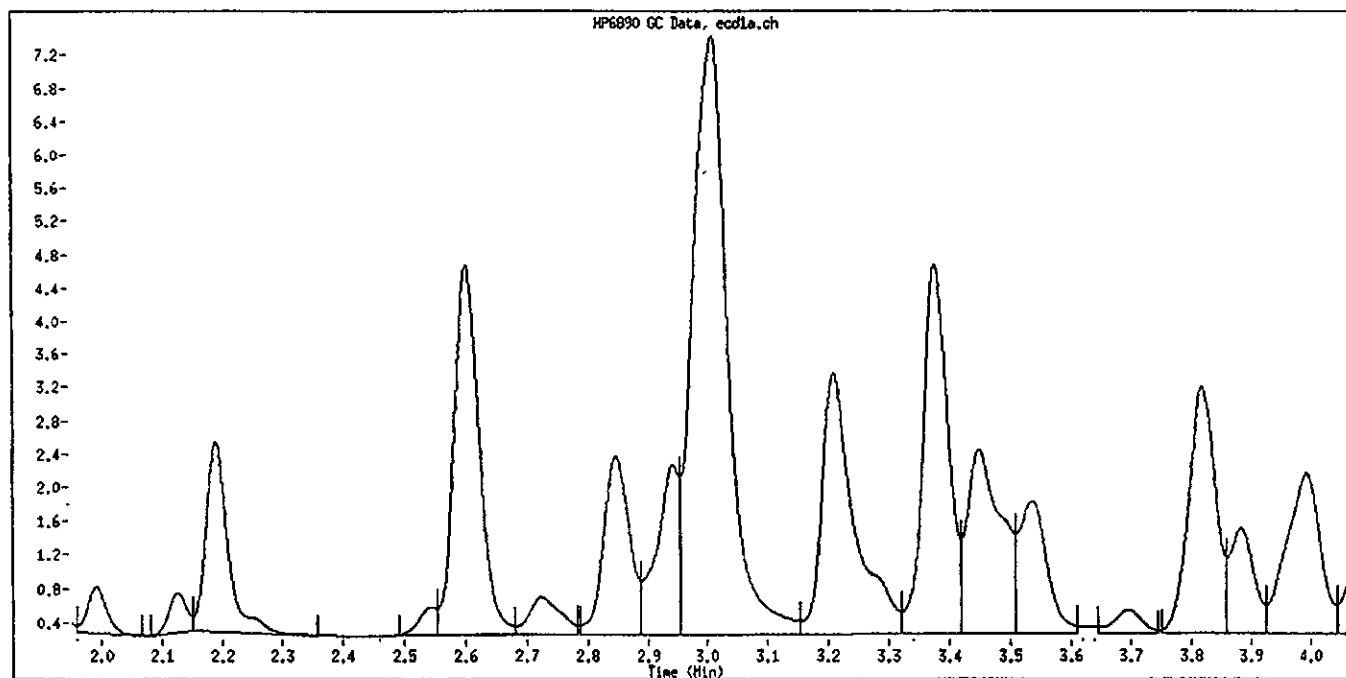
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.B\H-A20618.D





Original Integration



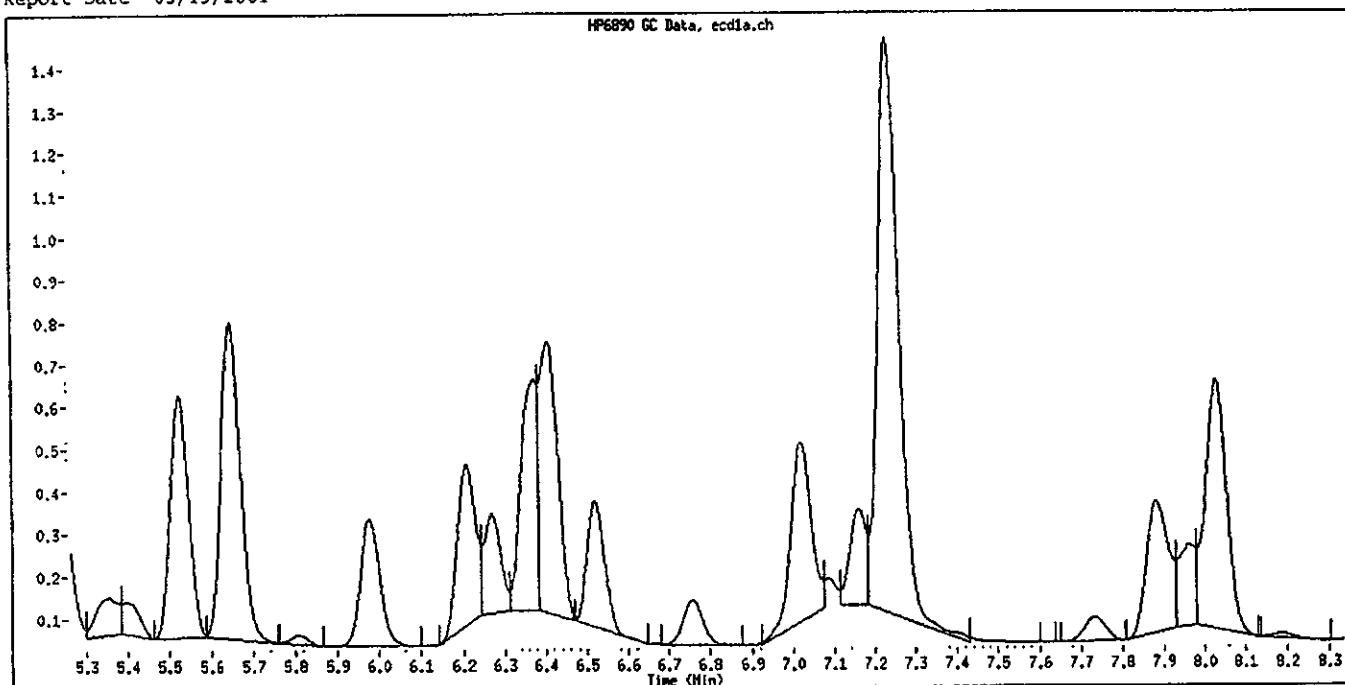
Manual Integration

Manually Integrated By: EppingerD

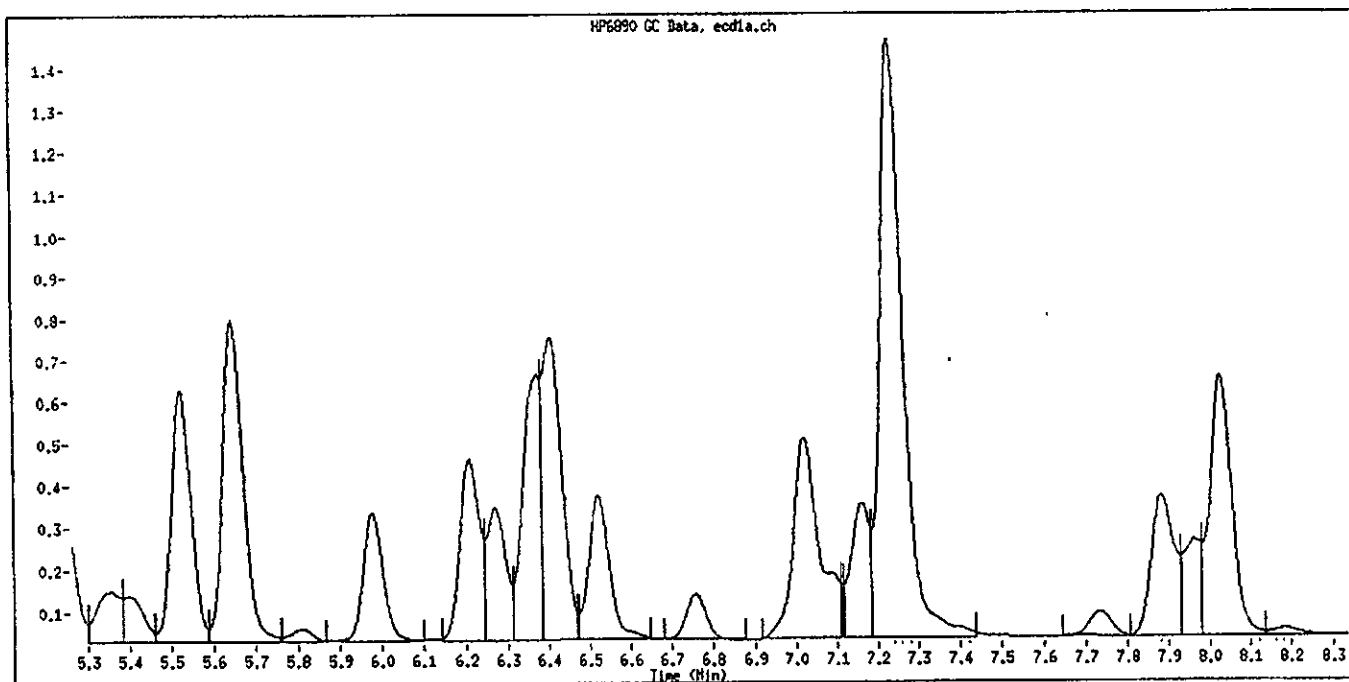
Manual Integration Reason: Poor Chromatography

Data File Name H-A20618.D
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

689 567



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

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

Inst ID: gc8.i

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 Quant Type: ESTD

Cal Date : 19-MAR-2001 14:21

Cal File: H-A20619.D

Als bottle: 11

Calibration Sample, Level: 6

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			
2 189	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			

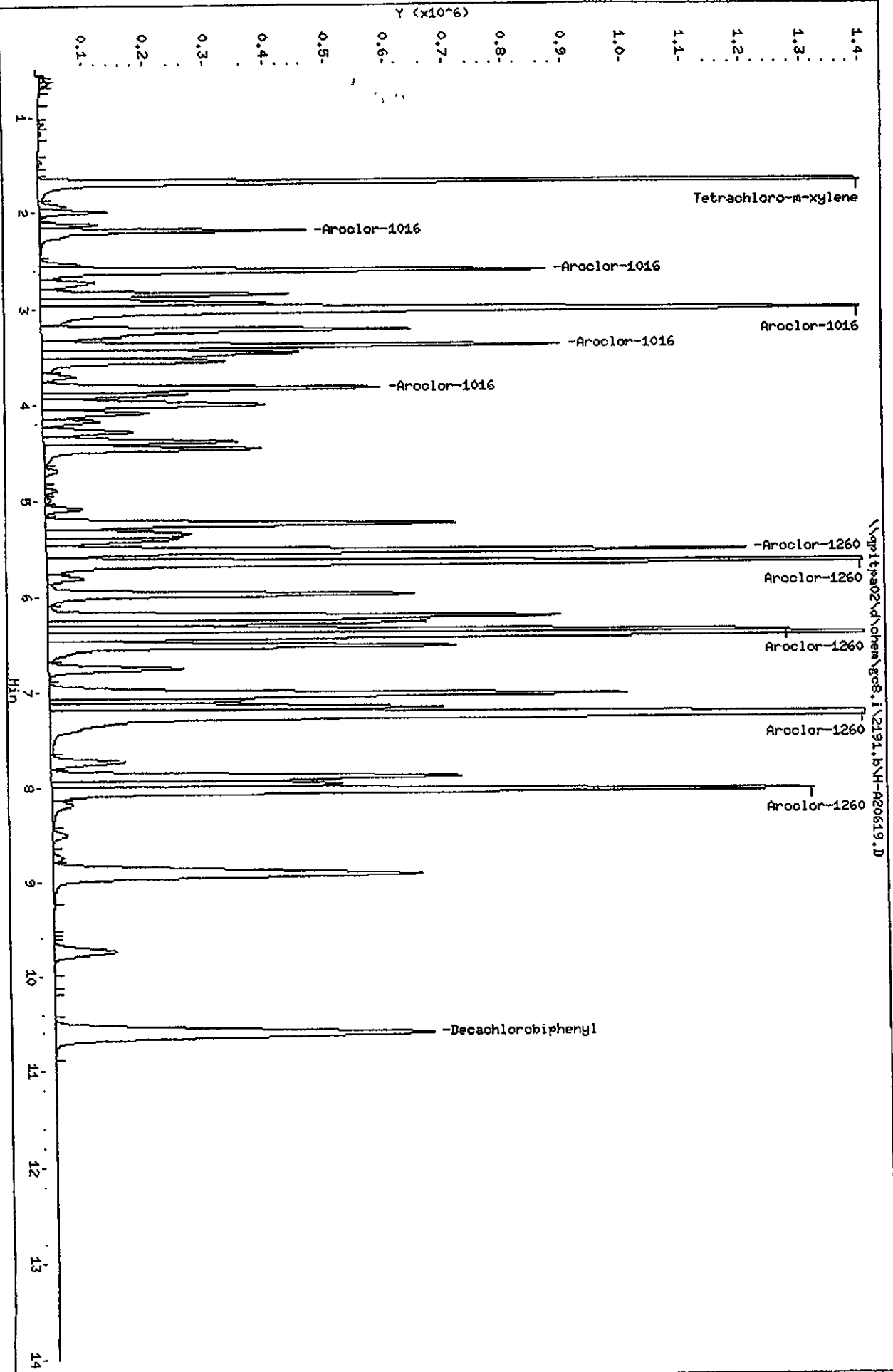
\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8			
1 680	1.680	(0.000)	1704526 0 20000	0.18831		

\$ 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			

Data File: \\ap1tpa02\chem\gc8.i\2191.b\H-A20619.D
 Date: 19-MAR-2001 14:21
 Client ID:
 Sample Info: XH1660,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53



680 570

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20620.D
 Report Date: 19-Mar-2001 14:59

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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)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
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					

 \$ 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

			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					

2nd
SOURCE

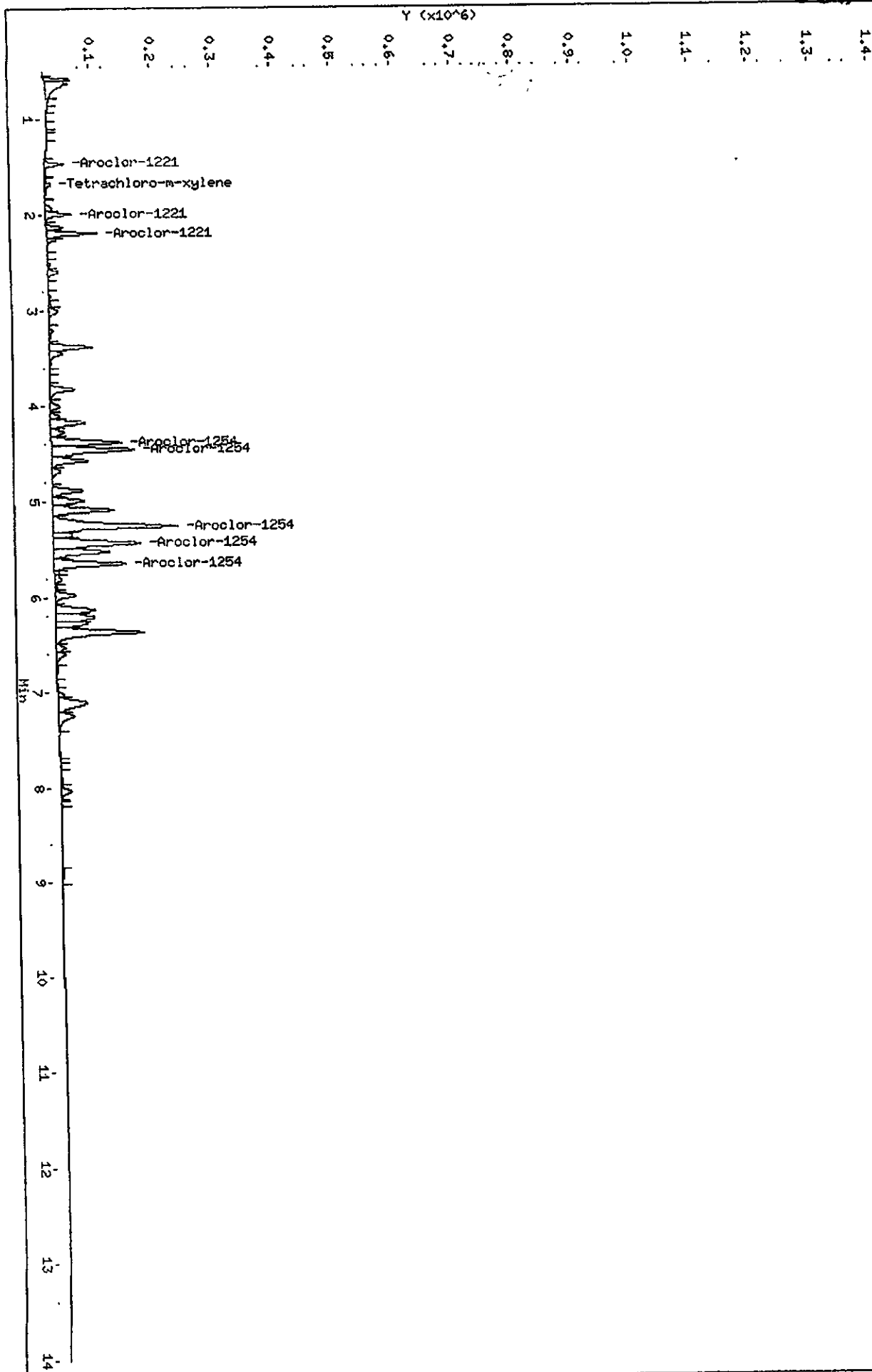
571

680

Data File: \\qpltpa02\chem\g08.i\2191.b\H-R20620.D
 Date: 19-MAR-2001 14:41
 Client ID:
 Sample Info: 2H2154,2191.b
 Column phase: DB608

Instrument: g08.i
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\g08.i\2191.b\H-R20620.D



680 572

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20621.D
 Report Date: 19-Mar-2001 15:23

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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							
RT	EXP RT	DLT RT	RESPONSE (ng)	CAL-AMT (ng)	ON-COL (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	0.00
2.601	2.600	(0.001)	59625	0.50000	0.59761	146.26- 186.26	0.00
3.009	3.008	(0.001)	85355	0.50000	0.59620	65.99- 105.99	0.00
3.377	3.377	(0.000)	49931	0.50000	0.52510	74.18- 114.18	0.00
Average of Peak Amounts =				0.60429			

20.99.D

2nd
SOURCE

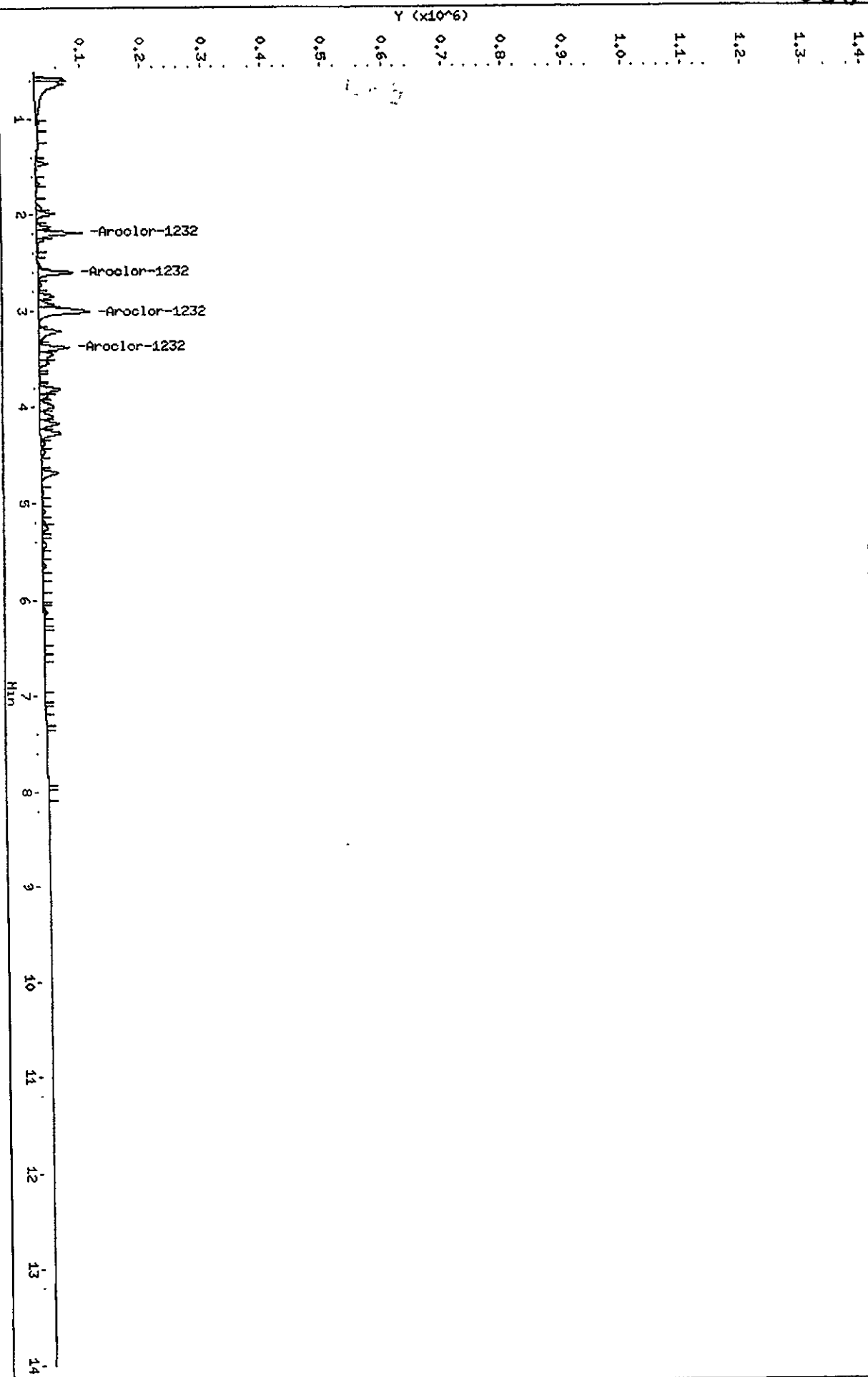
573

680

Data File: \\pp1tpa02\chem\g08.1\2191.b\H-A20621.D
 Date: 19-MAR-2001 15:01
 Client ID:
 Sample Info: 2H1232, 2191.b
 Column phase: DB608

Instrument: g08.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\g08.1\2191.b\H-A20621.D



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	RATIO
---	-----	-----	-----	-----	-----	-----
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			

2.997.0

2nd source

680

575

Data File: \\p1tpa02\chem\gc8.i\2191.b\H-A20622.D

Date: 19-MAR-2001 15:21

Client ID:

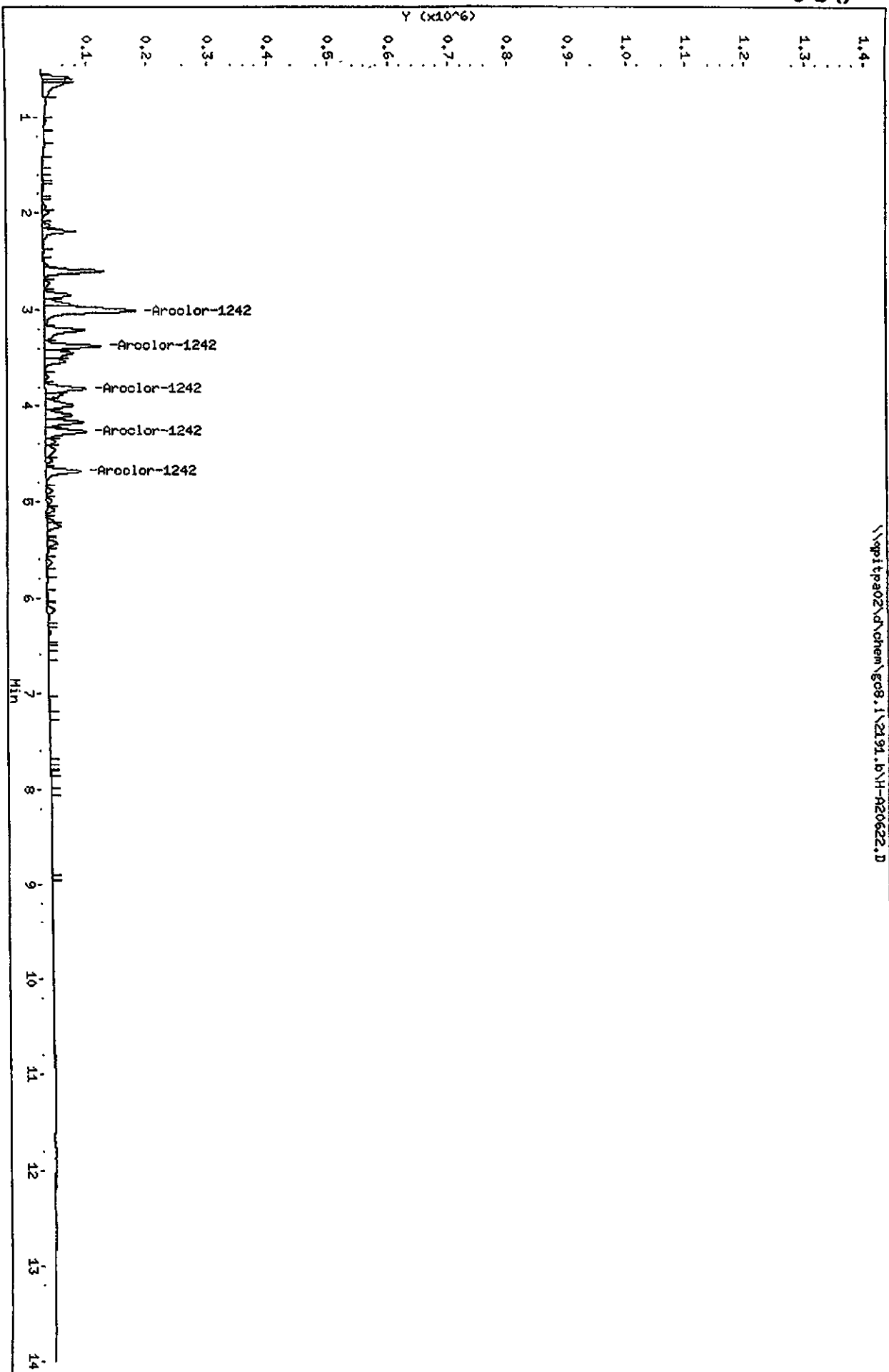
Sample Info: 2H1242,2191.b

Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53



680 576

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20623.D
Report Date: 19-Mar-2001 16:10

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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							
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	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

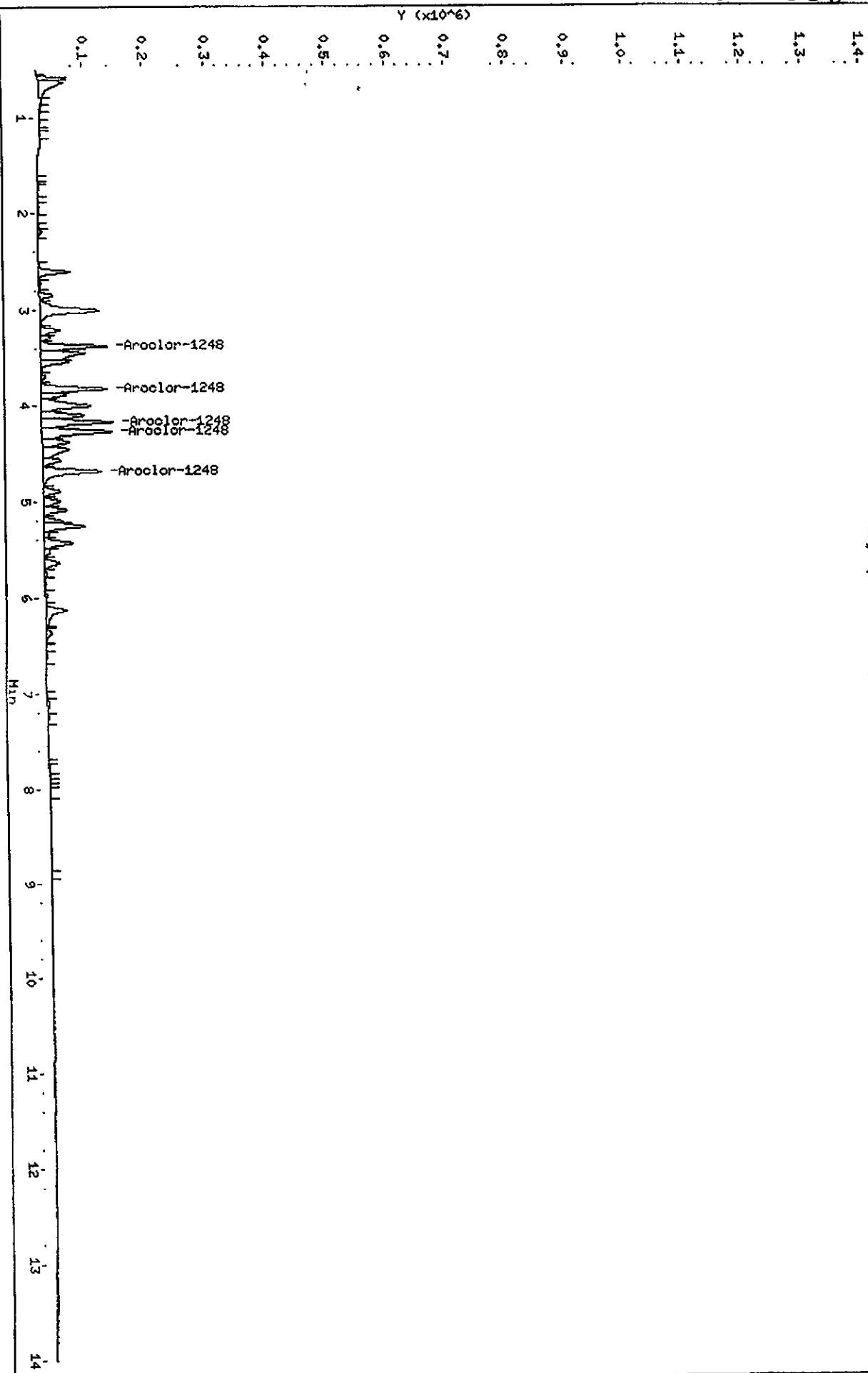
680

577

Data File: \\spitpa02\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

\\spitpa02\chem\gc8.1\2191.b\H-A20623.D



680 578

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20624.D
Report Date: 19-Mar-2001 16:26

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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							
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
			RESPONSE (ng)	(ng)			

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 =				0.54548	9.17-D		

2nd
source

Data File: \\pp1tpa02\chem\gc8.i\2191.b\H-A20624.D
Date: 19-MAR-2001 16:00

Client ID:

Sample Info: 2H4660, 2191.b

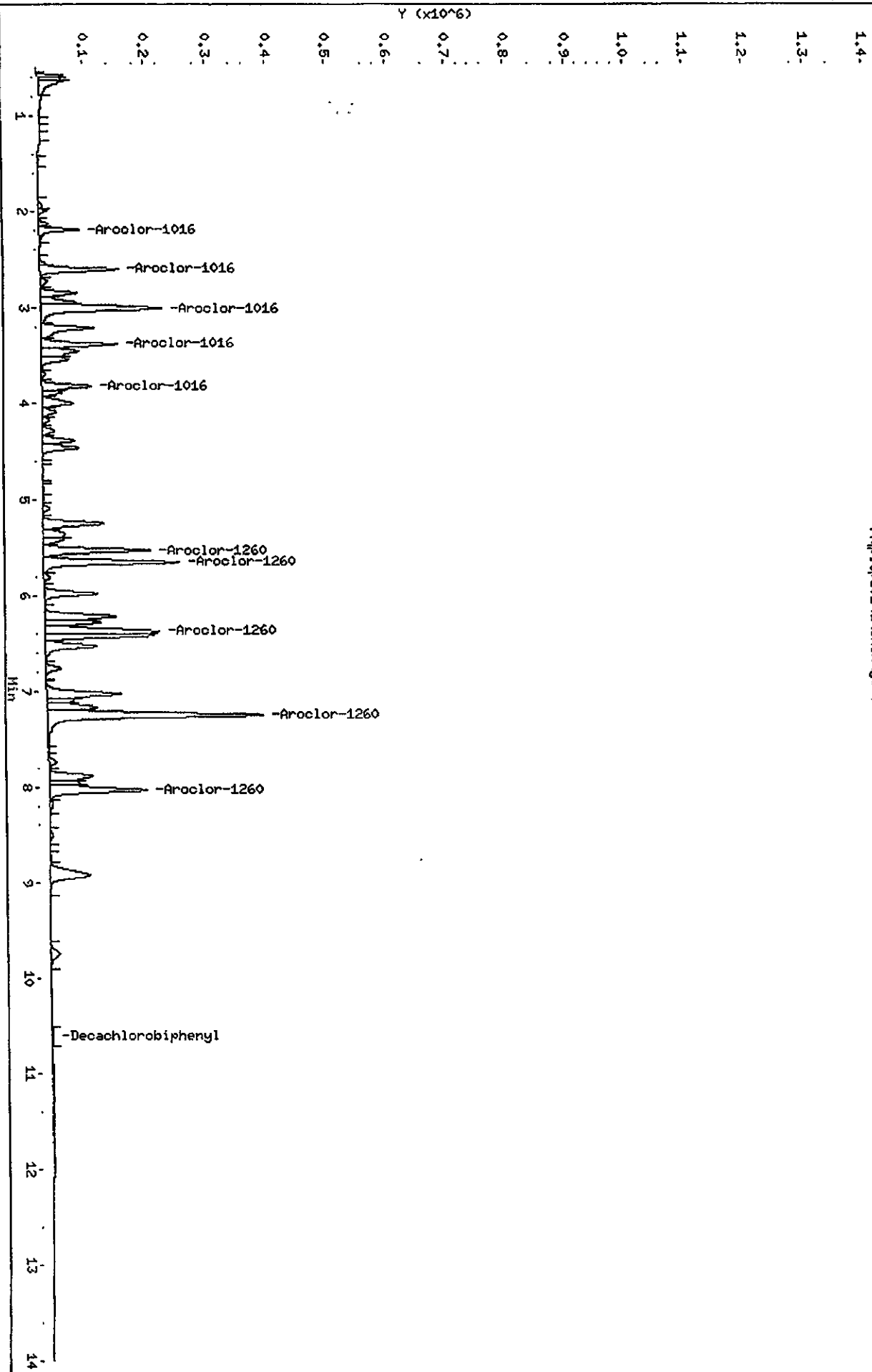
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2191.b\H-A20624.D



680 580

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20832.D
Report Date: 26-Mar-2001 13:23

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STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20832.D

Lab Smp Id: M2154

Inj Date : 26-MAR-2001 12:48

Operator : 010139

Inst ID: gc8.i

Smp Info : M2154,2191.b

Misc Info : 190-111-7

Comment : 8082 PCB ANALYSIS

Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m

Meth Date : 26-Mar-2001 13:22 eppingerd Quant Type: ESTD

Cal Date : 19-MAR-2001 14:21

Cal File: H-A20619.D

Als bottle: 2

Continuing Calibration Sample

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			
1.462	1.464	{-0.002}	29307	0.50000	0.53173	0.00-	0.00	0.00	
1.986	1.987	{-0.001}	41902	0.50000	0.52602	116.57-	156.57	0.00	
2.184	2.186	{-0.002}	79471	0.50000	0.52318	66.04-	106.04	0.00	
Average of Peak Amounts =					0.52698	5.47cD			

\$ 1 Tetrachloro-m-xylene					CAS #:	877-09-8			
1.676	1.680	{-0.004}	209530	0.02500	0.023148				

\$ 34 Decachlorobiphenyl					CAS #:	2051-24-3			
10.595	10.603	{-0.008}	71782	0.02500	0.022773				

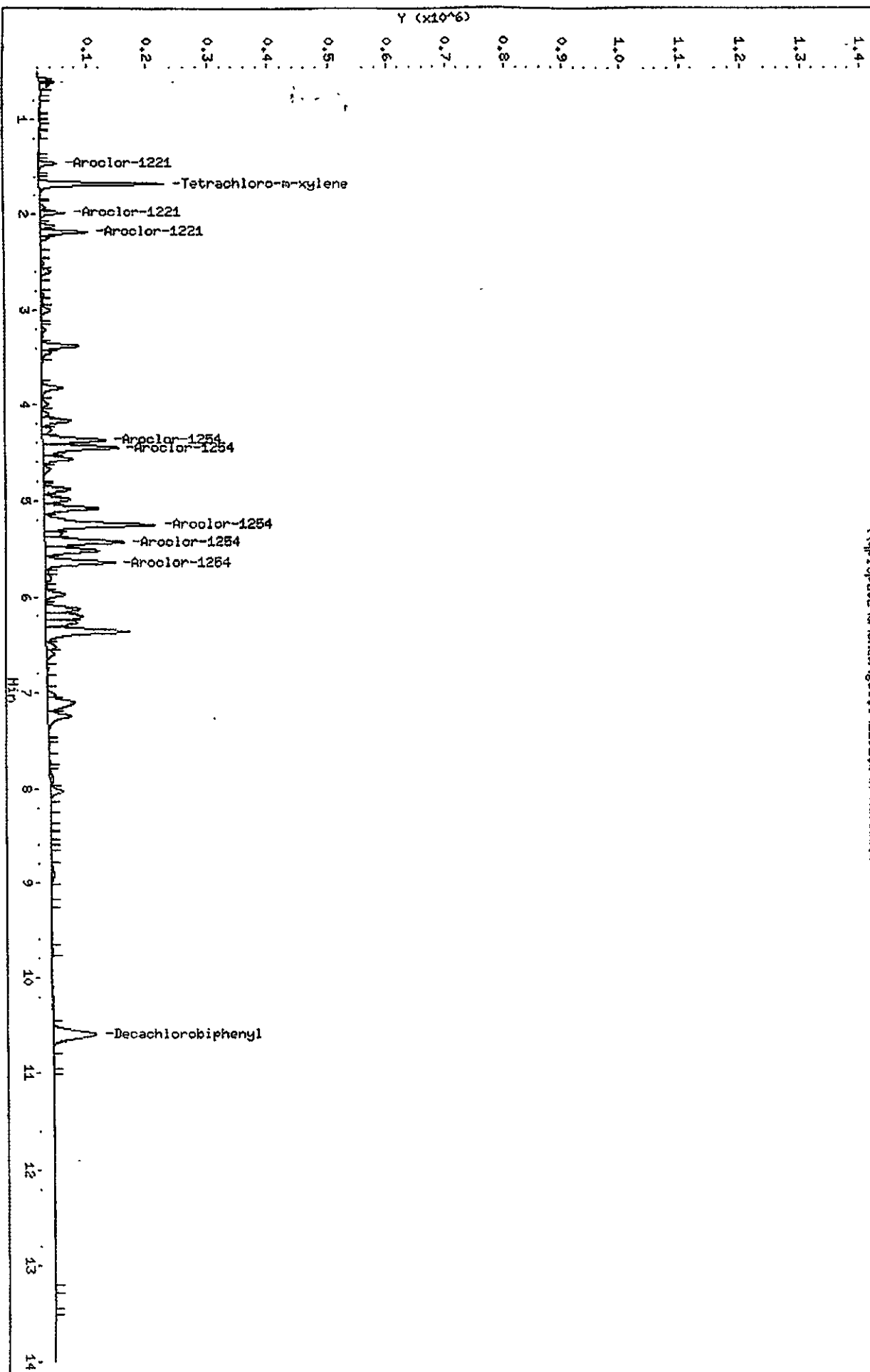
13 Aroclor-1254					CAS #.	11097-69-1			
4.370	4.374	{-0.004}	104730	0.50000	0.49791	0.00-	0.00	0.00	
4.450	4.451	{-0.001}	126607	0.50000	0.49962	92.23-	132.23	0.00	
5.250	5.250	{0.000}	186739	0.50000	0.49953	77.40-	117.40	0.00	
5.427	5.429	{-0.002}	133429	0.50000	0.51715	51.09-	91.09	0.00	
5.643	5.646	{-0.003}	117459	0.50000	0.50013	65.01-	105.01	0.00	
Average of Peak Amounts =					0.50287	0.67-D			

ccAL

Data File: \\ppitpa02\chem\g08.1\2191.b\H-A20832.D
Date: 26-MAR-2004 12:48
Client ID:
Sample Info: H2154,2191.b
Column phase: DB608

Instrument: g08.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\g08.1\2191.b\H-A20832.D



680 582

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20833.D
Lab Smp Id: M1232
Inj Date : 26-MAR-2001 13:07
Operator : 010139
Smp Info : M1232,2191.b
Misc Info : 190-111-8
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 13:26 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 3 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	
=====									
14 Aroclor-1232									
CAS #. 11141-16-5									
2 187	2 188	(-0.001)	57327	0.50000	0.53856	0 00-	0 00	0.00	
2 599	2 600	(-0.001)	52163	0.50000	0.52282	146.26-	186.26	0.00	
3.006	3 008	(-0.002)	75796	0.50000	0.52943	65 99-	105.99	0.00	
3 377	3 377	(0.000)	49995	0.50000	0.52578	74 18-	114.18	0.00	
Average of Peak Amounts =			0.52915		5.89.0				

CCAL

Data File: \\gpi1tpa02\chem\gc8.i\2191.b\H-A20833.D

Date: 26-MAR-2001 13:07

Client ID:

Sample Info: H1232, 2191.b

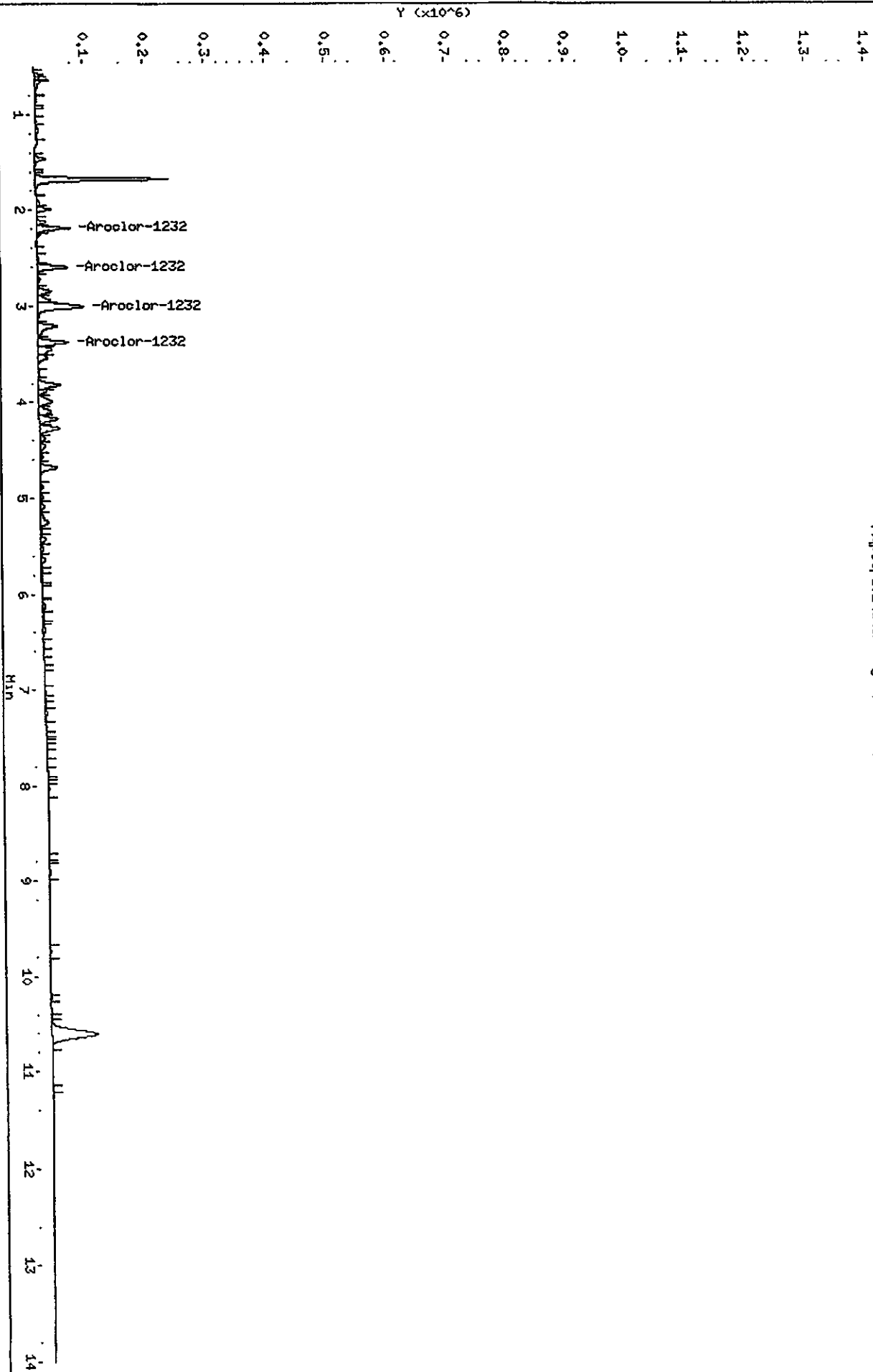
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\gpi1tpa02\chem\gc8.i\2191.b\H-A20833.D



680 584

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20834.D
 Report Date: 26-Mar-2001 14:04

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STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20834.D
 Lab Smp Id: M1242
 Inj Date : 26-MAR-2001 13:27
 Operator : 010139
 Smp Info : M1242,2191.b
 Misc Info : 190-111-9
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 26-Mar-2001 14:03 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						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET	RANGE	RATIO	
---	-----	-----	RESPONSE (ng)	(ng)	-----	-----	-----	-----
15 Aroclor-1242			CAS # 53469-21-9					
3.006	3.010	(-0.004)	149839 0.50000	0.51356	0.00-	0.00	0.00	
3.377	3.380	(-0.003)	91927 0.50000	0.50877	310.13-	350.13	0.00	
3.815	3.818	(-0.003)	66205 0.50000	0.49686	749.70-	789.70	0.00	
4.267	4.269	(-0.002)	66833 0.50000	0.50858	512.48-	552.48	0.00	
4.682	4.682	(0.000)	57849 0.50000	0.51149	314.30-	354.30	0.00	
Average of Peak Amounts =			0.50785		1.67.0			

CCAL

Data File: \\pp1tpa02\chem\g08.1\2191.b\H-A20834.D

Date: 26-MAR-2001 13:27

Client ID:

Sample Info: H1242, 2191.b

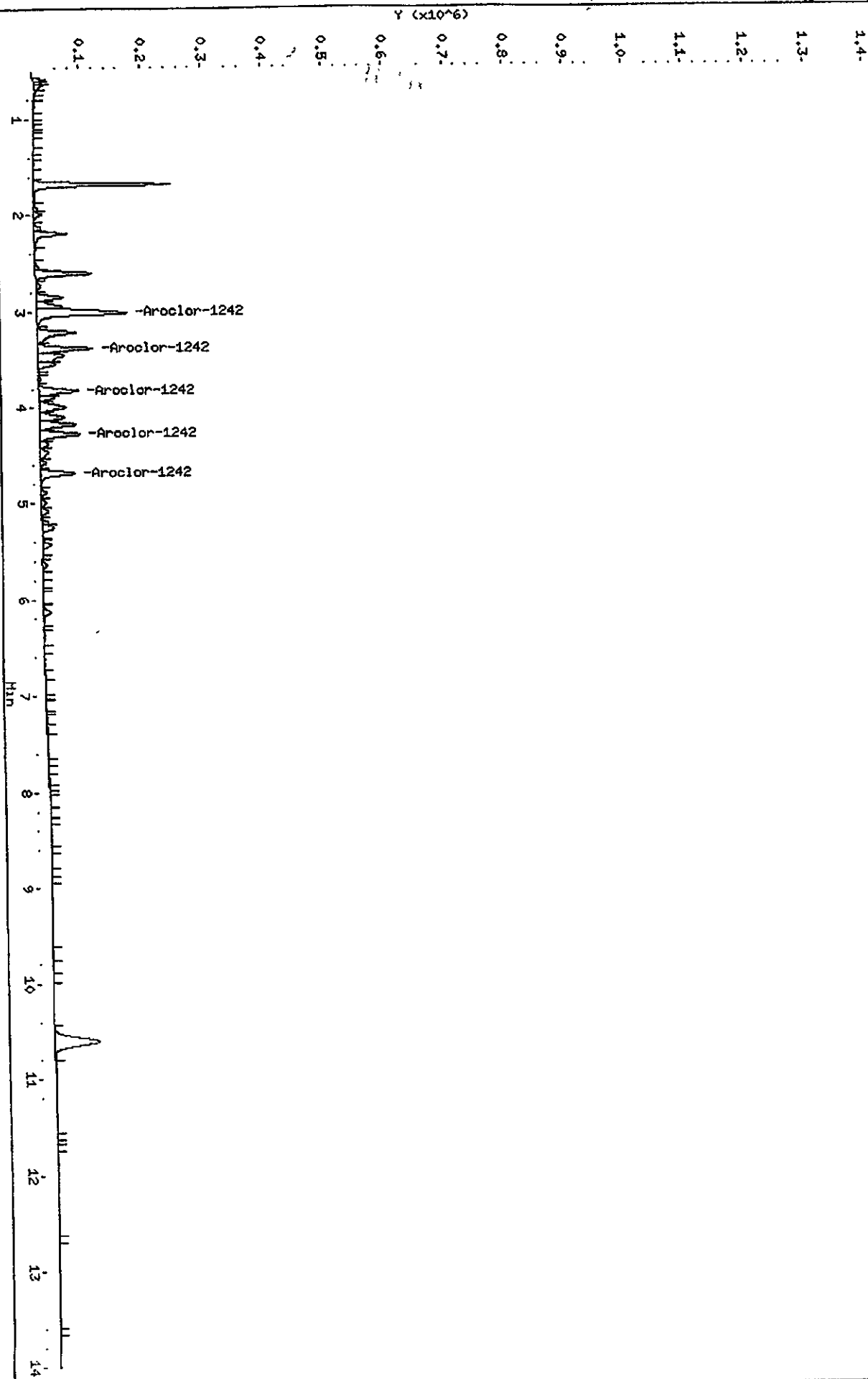
Column phase: DB608

Instrument: g08.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\g08.1\2191.b\H-A20834.D



680 586

Data File: \\gpitpa02\d\chem\gc8.i\2191.b\H-A20835.D
 Report Date: 26-Mar-2001 14:05

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STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc8.i\2191.b\H-A20835.D
 Lab Smp Id: M1248
 Inj Date : 26-MAR-2001 13:47
 Operator : 010139
 Smp Info : M1248,2191.b
 Misc Info : 190-111-10
 Comment : 8082 PCB ANALYSIS
 Method : \\gpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 26-Mar-2001 14:05 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 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			
3.377	3.380	(-0.003)	95249	0.50000	0.48168	0.00-	0.00	0.00
3.819	3.819	(0.000)	90642	0.50000	0.48684	114.57-	154.57	0.00
4.167	4.169	(-0.002)	103582	0.50000	0.49015	63.67-	103.67	0.00
4.268	4.270	(-0.002)	96904	0.50000	0.49628	43.86-	83.86	0.00
4.680	4.685	(-0.005)	96587	0.50000	0.50512	128.08-	168.08	0.00
Average of Peak Amounts =			0.49201		1.67-D			

CCAL

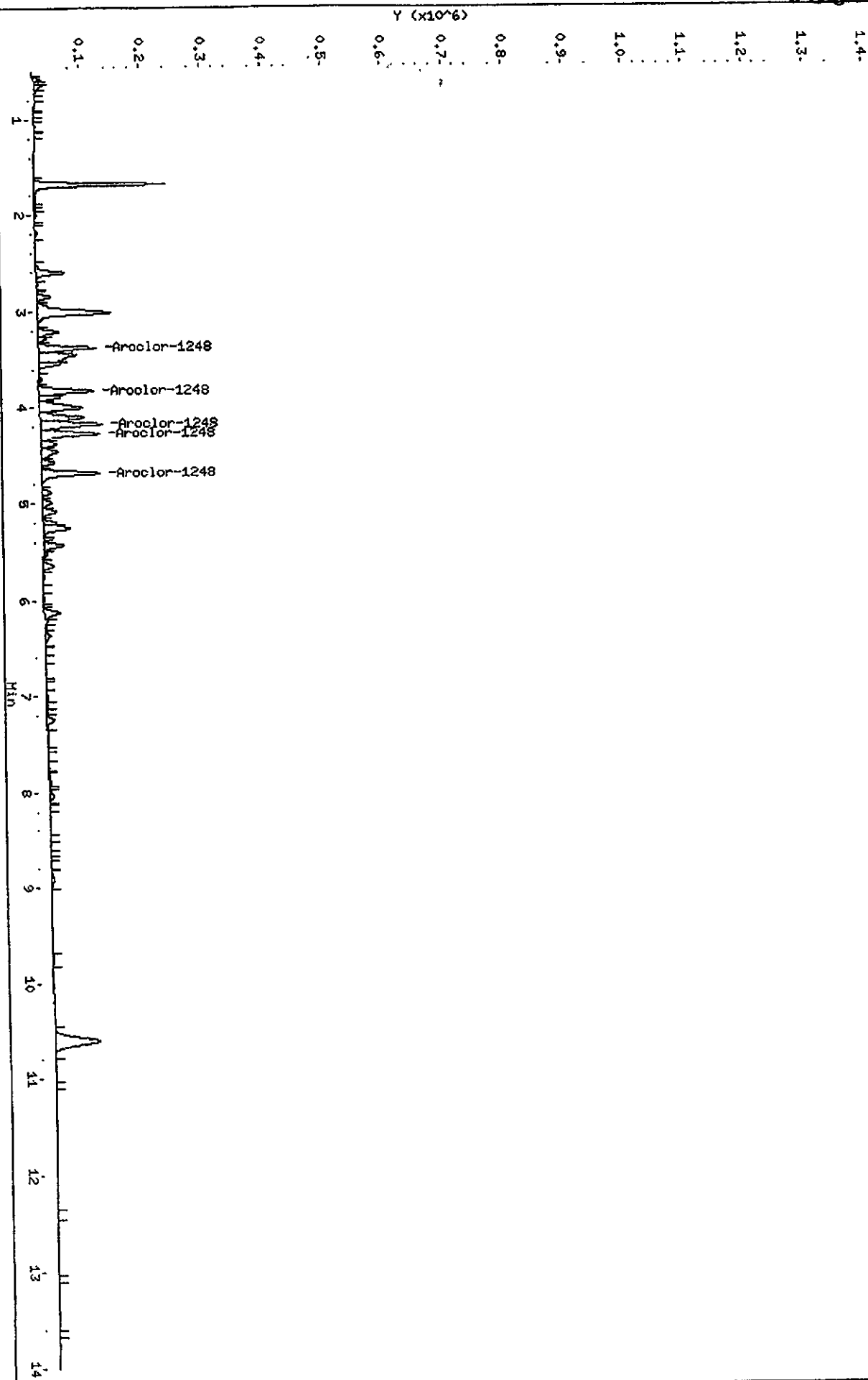
587

680

Data File: \\ppitpa02\chem\gc8.i\2191.b\H-A20835.D
 Date : 26-MAR-2001 13:47
 Client ID:
 Sample Info: H1248,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc8.i\2191.b\H-A20835.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20836.D
 Lab Smp Id: M1660
 Inj Date : 26-MAR-2001 14:07
 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 14:37 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 6 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			
2.188	2.190	{-0.002}	66598	0.50000	0.53409	0.00-	0.00	0.00
2.600	2.602	{-0.002}	125393	0.50000	0.51354	80.00-	120.00	0.00
3.009	3.009	{0.000}	198296	0.50000	0.52334	203.51-	243.51	0.00
3.378	3.380	{-0.002}	119980	0.50000	0.50943	203.51-	243.51	0.00
3.819	3.820	{-0.001}	77447	0.50000	0.49987	297.56-	337.56	0.00
Average of Peak Amounts =					0.51605			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1.679	1.680	{-0.001}	235659	0.02500	0.026035			

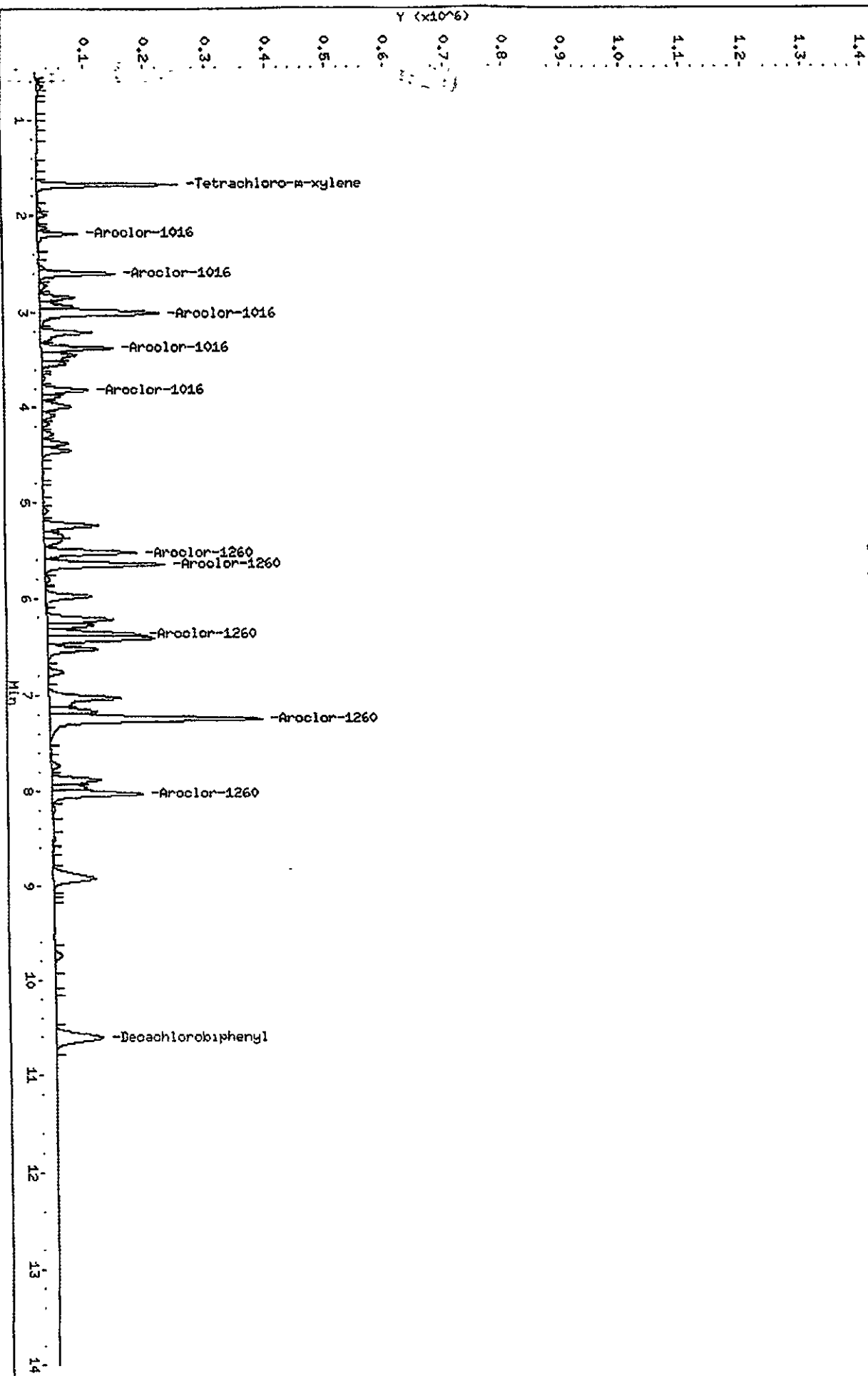
\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
10.601	10.603	{-0.002}	76807	0.02500	0.024368			

36 Aroclor-1260					CAS #: 11096-82-5			
5.526	5.525	{0.001}	152667	0.50000	0.48454	0.00-	0.00	0.00
5.648	5.650	{-0.002}	198999	0.50000	0.49412	95.86-	135.86	0.00
6.372	6.366	{0.006}	156362	0.50000	0.49005	116.91-	156.91	0.00
7.241	7.240	{0.001}	353213	0.50000	0.48826	120.00-	160.00	0.00
8.033	8.031	{0.002}	150184	0.50000	0.48013	108.33-	148.33	0.00
Average of Peak Amounts =					0.48742			

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20836.D
Date: 26-MAR-2001 14:07
Client ID:
Sample Info: H1660,2191.b
Column phase: DB608

Instrument: GC8.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20836.D



680 590

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20878.D
Lab Smp Id: M1660
Inj Date : 27-MAR-2001 03:56
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 : 27-Mar-2001 07:51 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}	68489	0 50000	0 54925	0.00-	0.00	0.00
2 602	2 602	{0.000}	128347	0 50000	0.52564	80.00-	120.00	0.00
3 010	3 009	{0.001}	202784	0 50000	0 53518	203.51-	243.51	0.00
3 379	3 380	{-0 001}	121648	0.50000	0.51651	203 51-	243.51	0 00
3 818	3 820	{-0 002}	79321	0.50000	0.51196	297.56-	337.56	0.00
Average of Peak Amounts =			0.52771					

\$ 1 Tetrachloro-m-xylene			CAS #. 877-09-8					
1 680	1 680	{0.000}	240757	0.02500	0.026598			

\$ 34 Decachlorobiphenyl			CAS # 2051-24-3					
10.601	10 603	{-0 002}	77396	0.02500	0 024554			

36 Aroclor-1260			CAS #. 11096-82-5					
5.525	5 525	{0.000}	156152	0 50000	0.49560	0.00-	0.00	0 00(M)
5 650	5 650	{0.000}	203725	0 50000	0.50586	95.86-	135.86	0 00
6.371	6.366	{0.005}	156935	0 50000	0.49185	116 91-	156.91	0.00
7.242	7.240	{0 002}	356493	0.50000	0 49279	120.00-	160.00	0 00
8.033	8.031	{0 002}	149983	0 50000	0.47948	108 33-	148.33	0.00
Average of Peak Amounts =			0.49312					

680 591

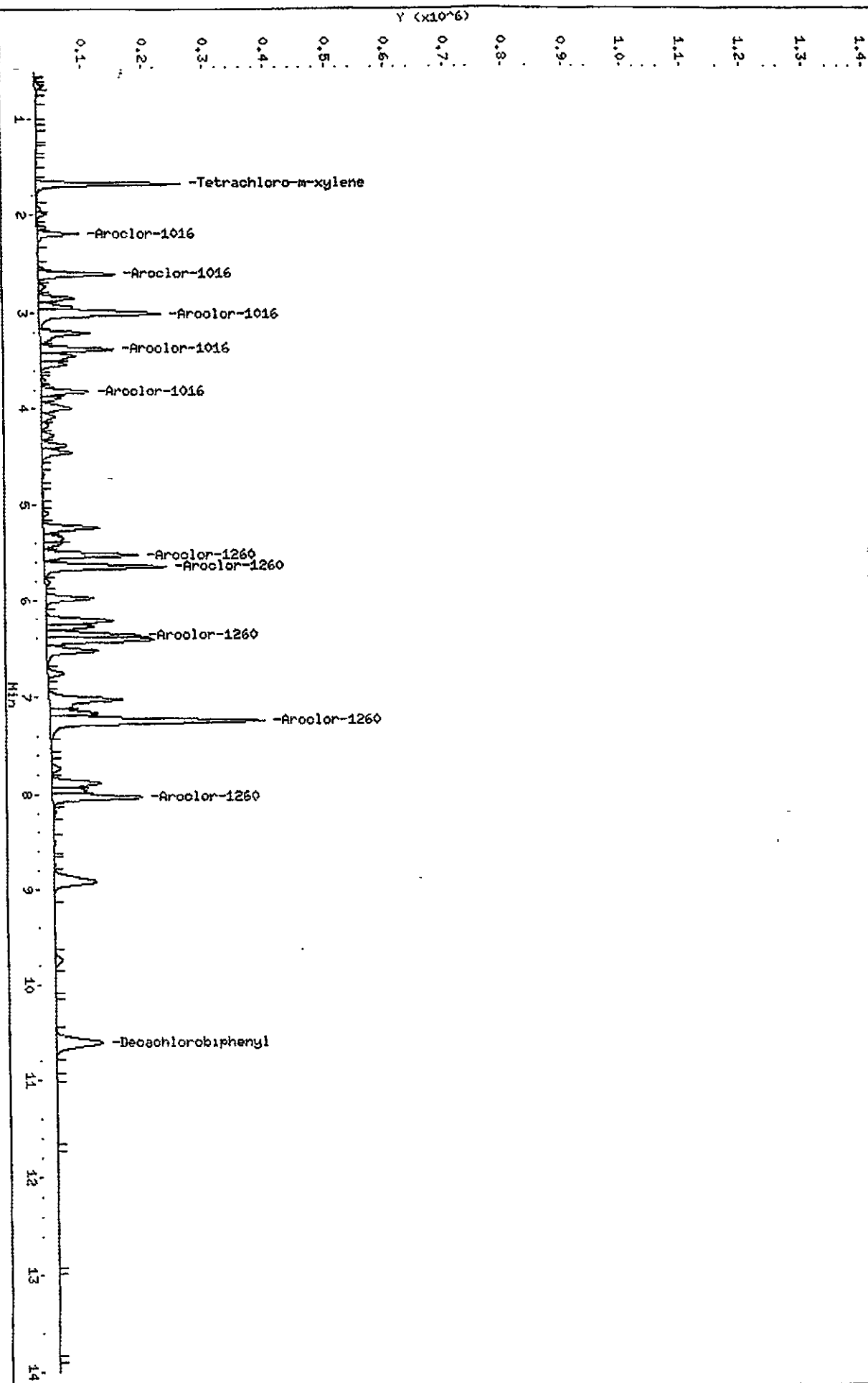
QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20878.D
Date: 27-MAR-2001 03:56
Client ID:
Sample Info: M1660,2191.b
Column phase: DB608

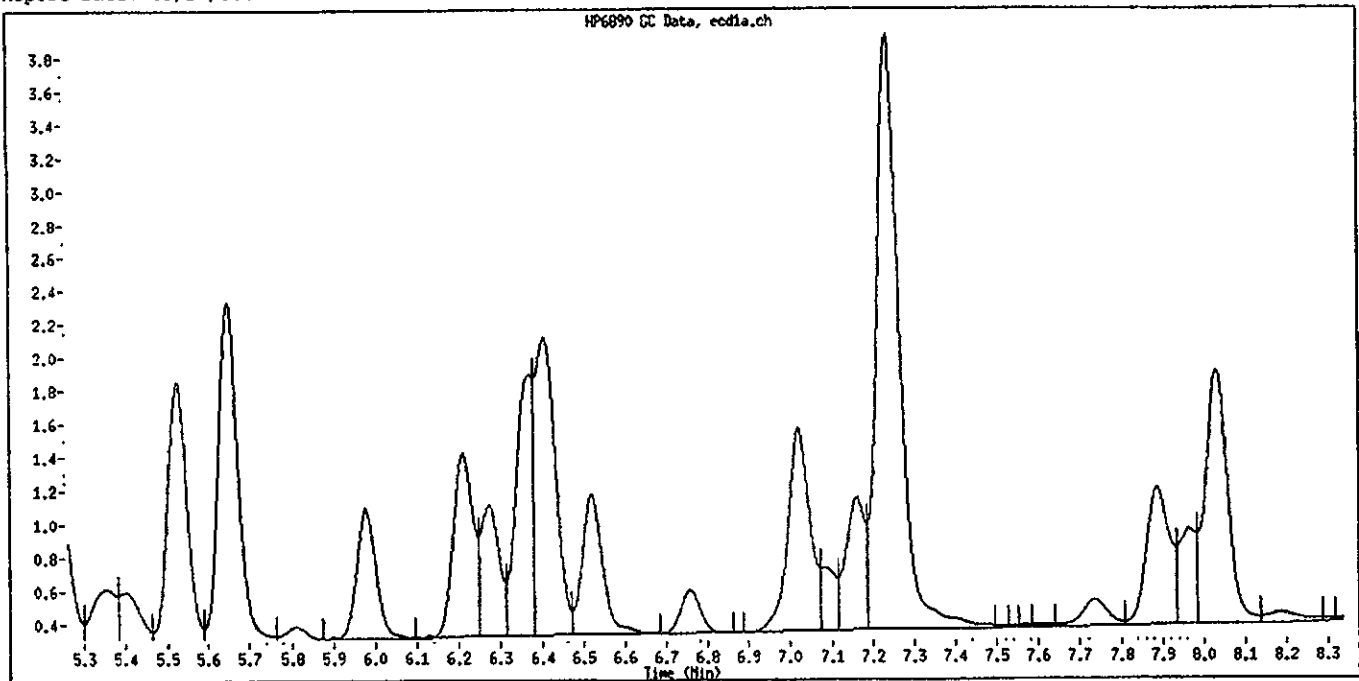
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20878.D

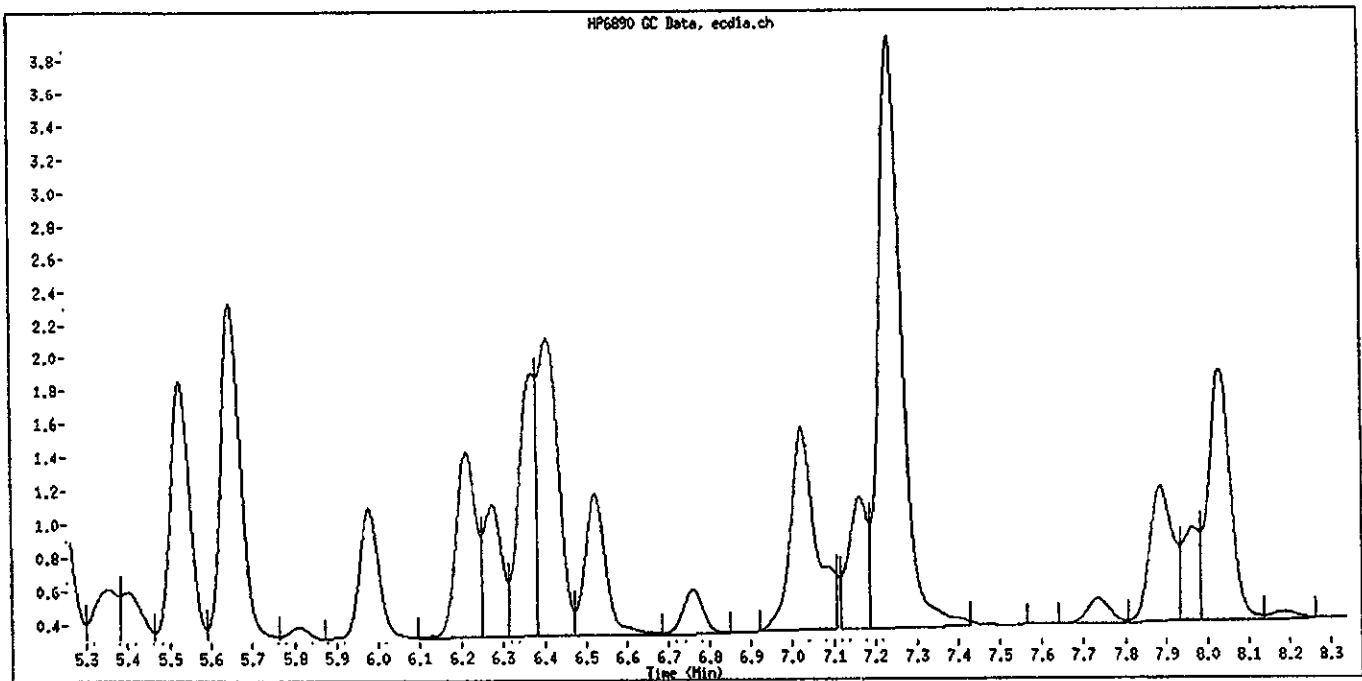


Data File Name: H-A20878.D
Inj. Date and Time: 27-MAR-2001 03:56
Instrument ID: gc8.1
Client ID:
Compound Name: Aroclor-1260
CAS #: 11096-82-5
Report Date: 03/27/2001

680 593



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

680 594

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20899.D
Lab Smp Id: M1660
Inj Date : 27-MAR-2001 10:51
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 : 27-Mar-2001 11:12 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 69 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			
2.187	2.190	(-0.003)	65318	0.50000	0.52382	0 00-	0 00	0.00
2.600	2.602	(-0.002)	125651	0.50000	0.51460	80 00-	120.00	0.00
3.007	3.009	(-0.002)	199392	0.50000	0.52623	203 51-	243 51	0.00
3.377	3.380	(-0.003)	122968	0.50000	0.52212	203.51-	243.51	0.00
3.819	3.820	(-0.001)	79944	0.50000	0.51598	297.56-	337 56	0.00
Average of Peak Amounts =					0.52055			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1.678	1.680	(-0.002)	232147	0.02500	0.025647			

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
10.599	10.603	(-0.004)	77406	0.02500	0.024558			

36 Aroclor-1260					CAS #: 11096-82-5			
5.523	5.525	(-0.002)	158064	0.50000	0.50167	0.00-	0 00	0.00
5.648	5.650	(-0.002)	203296	0.50000	0.50479	95 86-	135.86	0.00
6.368	6.366	(0.002)	162151	0.50000	0.50819	116.91-	156.91	0.00
7.239	7.240	(-0.001)	359987	0.50000	0.49762	120.00-	160.00	0.00
8.032	8.031	(0.001)	151954	0.50000	0.48579	108.33-	148 33	0.00
Average of Peak Amounts =					0.49961			

Data File: \\sp1tpa02\chem\gc8.1\2191.b\H-A20899.D

Date: 27-MAR-2001 10:51

Client ID:

Sample Info: H1660,2191.b

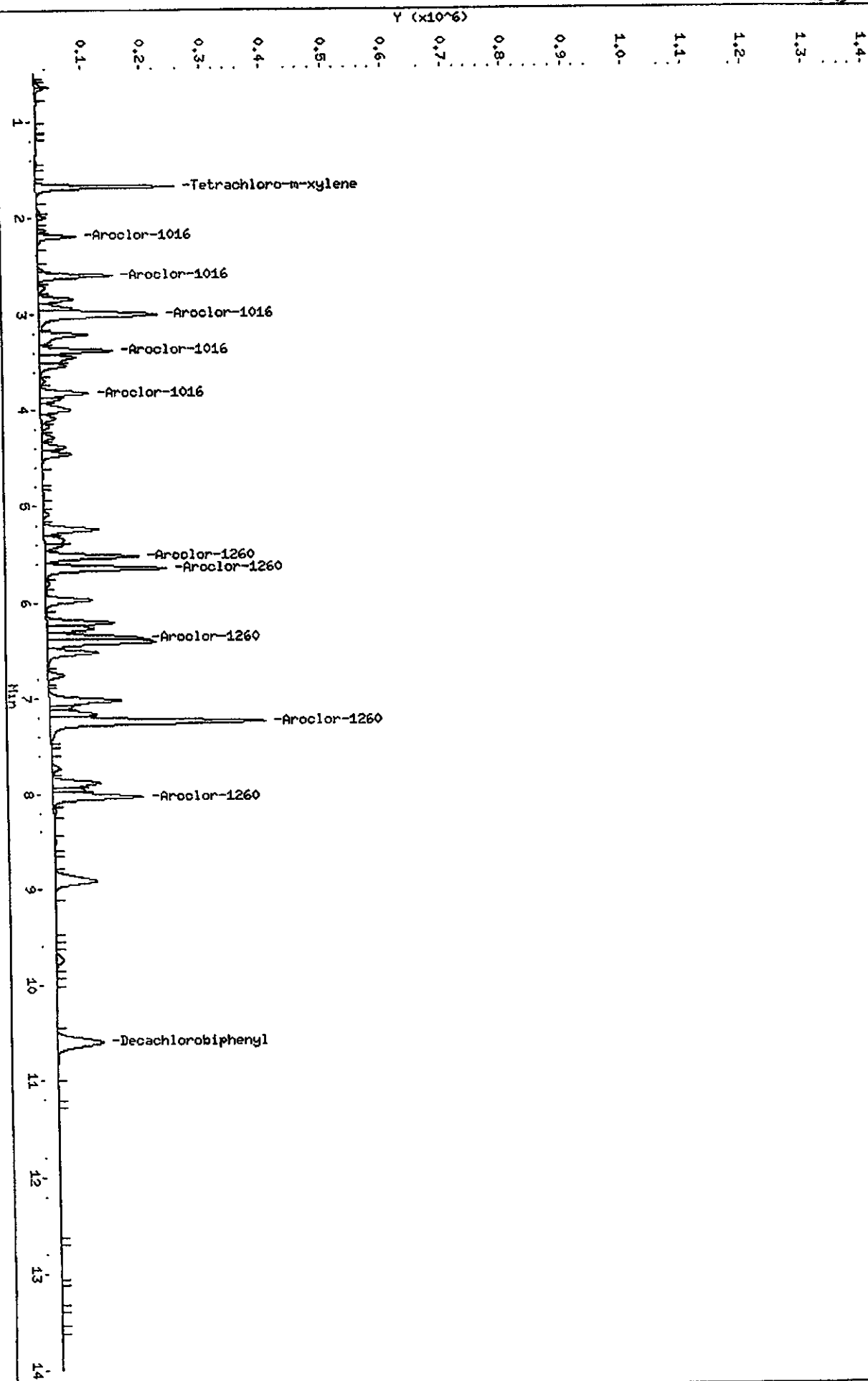
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\sp1tpa02\chem\gc8.1\2191.b\H-A20899.D



680 596

PCB
QC DATA

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: C1C250000 106

Sample WT/Vol: 1000 / mL
Work Order: DXX2F1AA
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20887.D
 Lab Smp Id: DXX2F1AA Client Smp ID: PBLK4106
 Inj Date : 27-MAR-2001 06:54
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXX2F1AA,2191.b
 Misc Info : 220173BLK
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 27-Mar-2001 07:51 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 57 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
1 679	1.680	(-0 001)	163404 0 01805	0 18052		

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8
 1 679 1.680 (-0 001) 163404 0 01805 0 18052
 8 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

14 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant or Qual signal(s).

689 599

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL RESPONSE (ng)	FINAL (ug/L)		
15						

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
10.604 10 603 (0.001) 56962 0.01807 0.18072

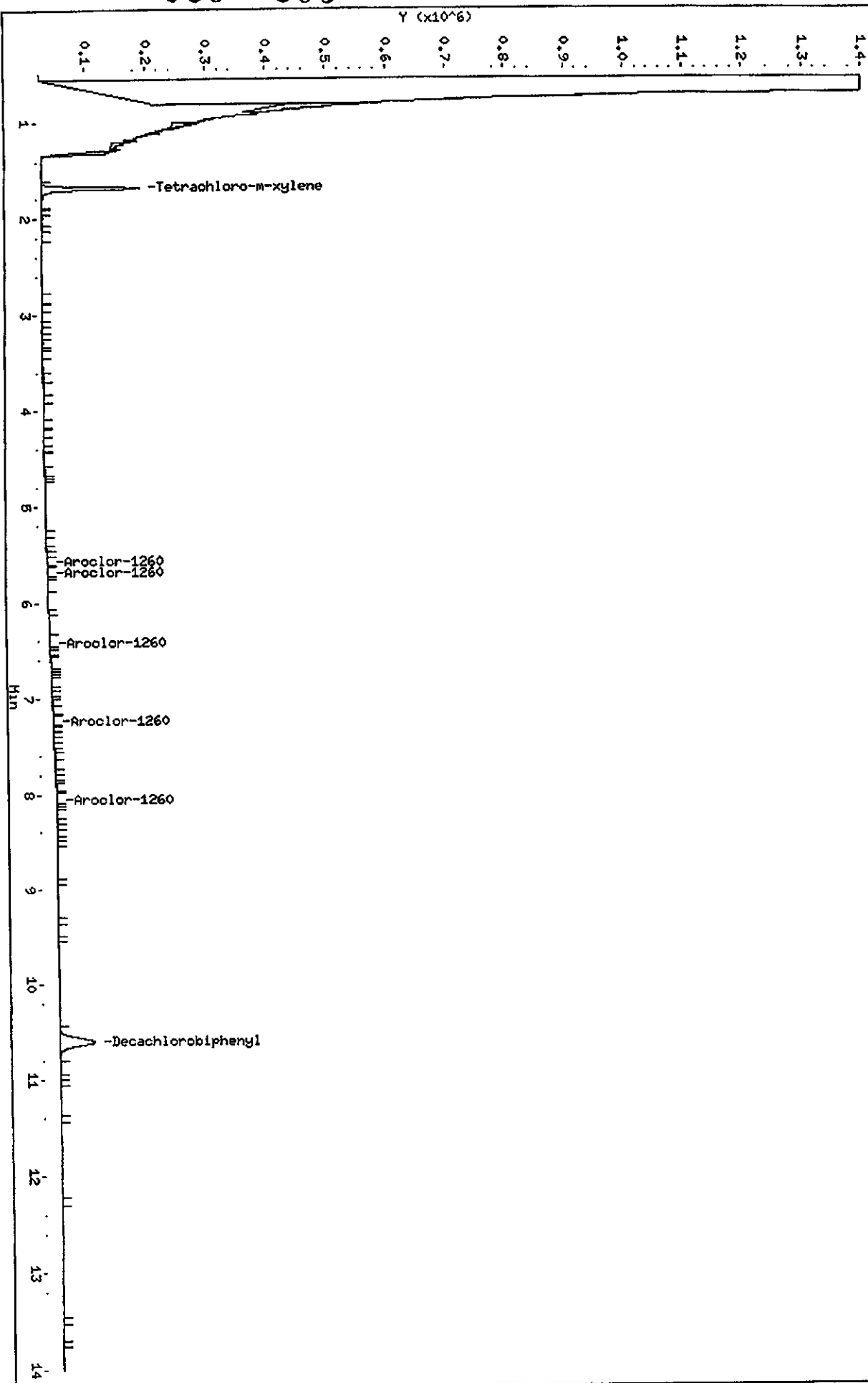
36 Aroclor-1260 CAS #: 11096-82-5

Qualifier signal(s) failed ratio test.

Data File: \\vp1p202\chem\gc8.1\2191.b\H-A20887.D
Date: 27-MAR-2001 06:54
Client ID: PBLK4106
Sample Info: DXK2F1A6,2191.b
Volume Injected (uL): 1.0
Column Phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\vp1p202\chem\gc8.1\2191.b\H-A20887.D



680 601

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: C1C250000 106

Sample WT/Vol: 1000 / mL
Work Order: DXX2F1AC
Dilution factor: 1Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.97	
11096-82-5	Aroclor 1260	8.38	

680 602

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20888.D
 Lab Smp Id: DXX2F1AC Client Smp ID: LCS4106
 Inj Date : 27-MAR-2001 07:14
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXX2F1AC,2191.b
 Misc Info : 220173LCS
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 27-Mar-2001 07:51 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 58 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								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016					CAS #: 12674-11-2			
2.187	2.190	(-0.003)	99118	0.79489	7.9489	0.00-	0.00	0.00
2.601	2.602	(-0.001)	189891	0.77769	7.7769	80.00-	120.00	0.00
3.007	3.009	(-0.002)	311252	0.82145	8.2145	203.51-	243.51	0.00
3.377	3.380	(-0.003)	187623	0.79664	7.9664	203.51-	243.51	0.00
3.818	3.820	(-0.002)	122743	0.79222	7.9222	297.56-	337.56	0.00
Average of Peak Concentrations =					7.9658			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1.678	1.680	(-0.002)	144516	0.01597	0.15966			

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
10.597	10.603	(-0.006)	53349	0.01693	0.16925			

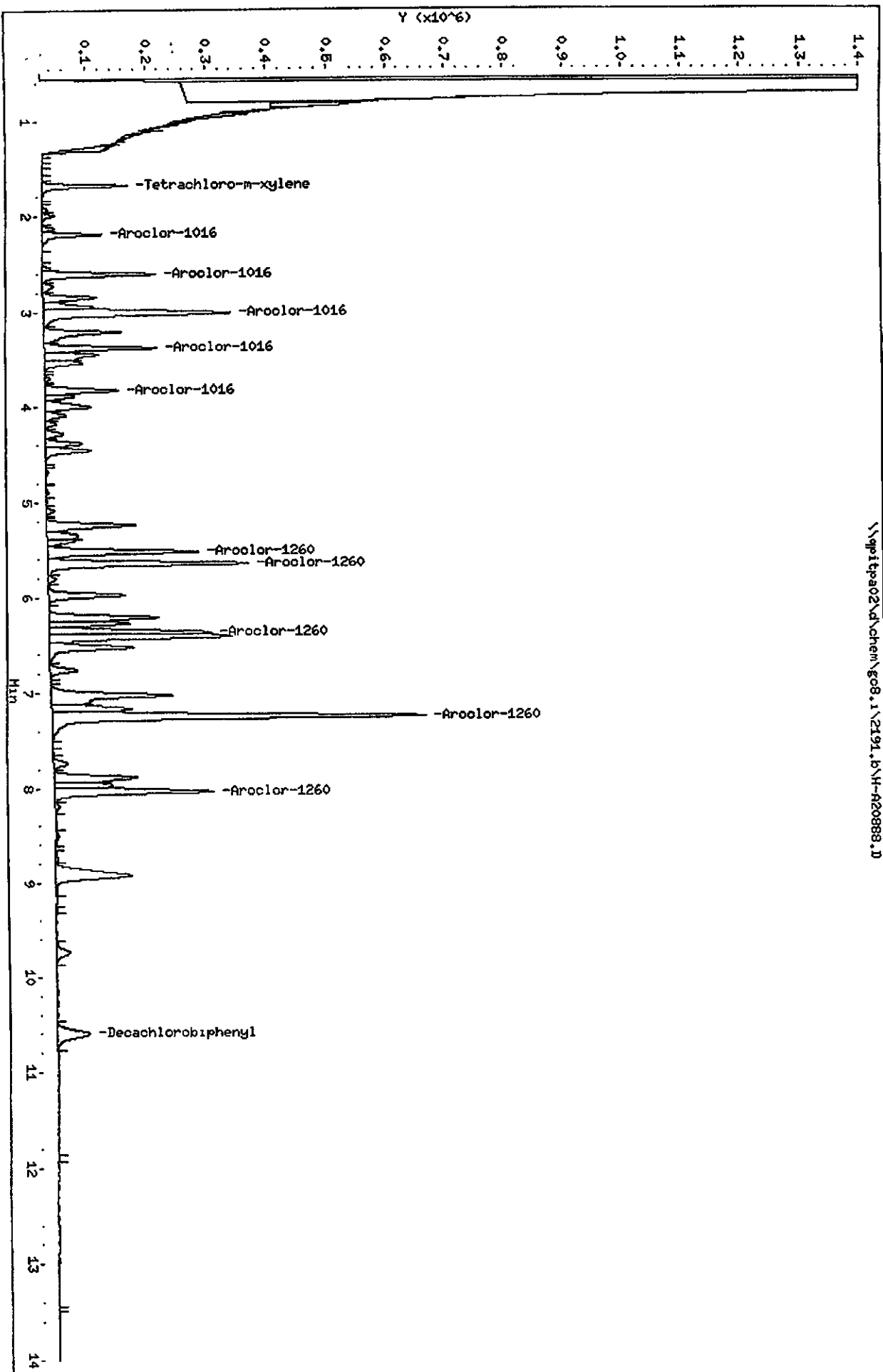
680 603

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
36 Aroclor-1260			CAS #: 11096-82-5				
5.524	5.525	(-0.001)	251808	0 79920	7.9920	0 00- 0.00	0.00
5.647	5.650	(-0.003)	336111	0 83457	8.3457	95.86- 135.86	0.00
6 366	6 366	(0 000)	269416	0 84437	8 4437	116.91- 156.91	0.00
7 241	7.240	(0.001)	624148	0 86278	8.6278	120.00- 160.00	0.00
8 033	8.031	(0.002)	265548	0 84894	8.4894	108.33- 148.33	0 00
Average of Peak Concentrations =					8.3797		

Data File: \\qptipa02\chem\gc8.1\2191.b\H-A20888.D
 Date: 27-MAR-2001 07:14
 Client ID: LCS4106
 Sample Info: DXX2F1AC,2191.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

680 604



UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

680 605

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

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

Lab Sample ID: C1C250000 106

Sample WT/Vol: 1000 / mL
Work Order: DXX2F1AD
Dilution factor: 1

Date Received: 03/22/01
Date Extracted: 03/25/01
Date Analyzed: 03/27/01

QC Batch: 1084106

Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	8.81	
11096-82-5	Aroclor 1260	9.07	

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20889.D
 Lab Smp Id: DXX2F1AD Client Smp ID: LCD4106
 Inj Date : 27-MAR-2001 07:33
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXX2F1AD,2191.b
 Misc Info : 220173LCD
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 27-Mar-2001 07:51 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 59 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	
==	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016			CAS #: 12674-11-2				
2.188	2.190	(-0.002)	110164	0.88347	8.8347	0.00-	0.00
2.601	2.602	(-0.001)	211972	0.86813	8.6812	80.00-	120.00
3.007	3.009	(-0.002)	345083	0.91073	9.1073	203.51-	243.51
3.377	3.380	(-0.003)	207310	0.88023	8.8023	203.51-	243.51
3.819	3.820	(-0.001)	133585	0.86220	8.6220	297.56-	337.56
Average of Peak Concentrations =			8.8095				

\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8				
1.679	1.680	(-0.001)	162259	0.01793	0.17926		

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3				
10.593	10.603	(-0.010)	57692	0.01830	0.18303		

680 607

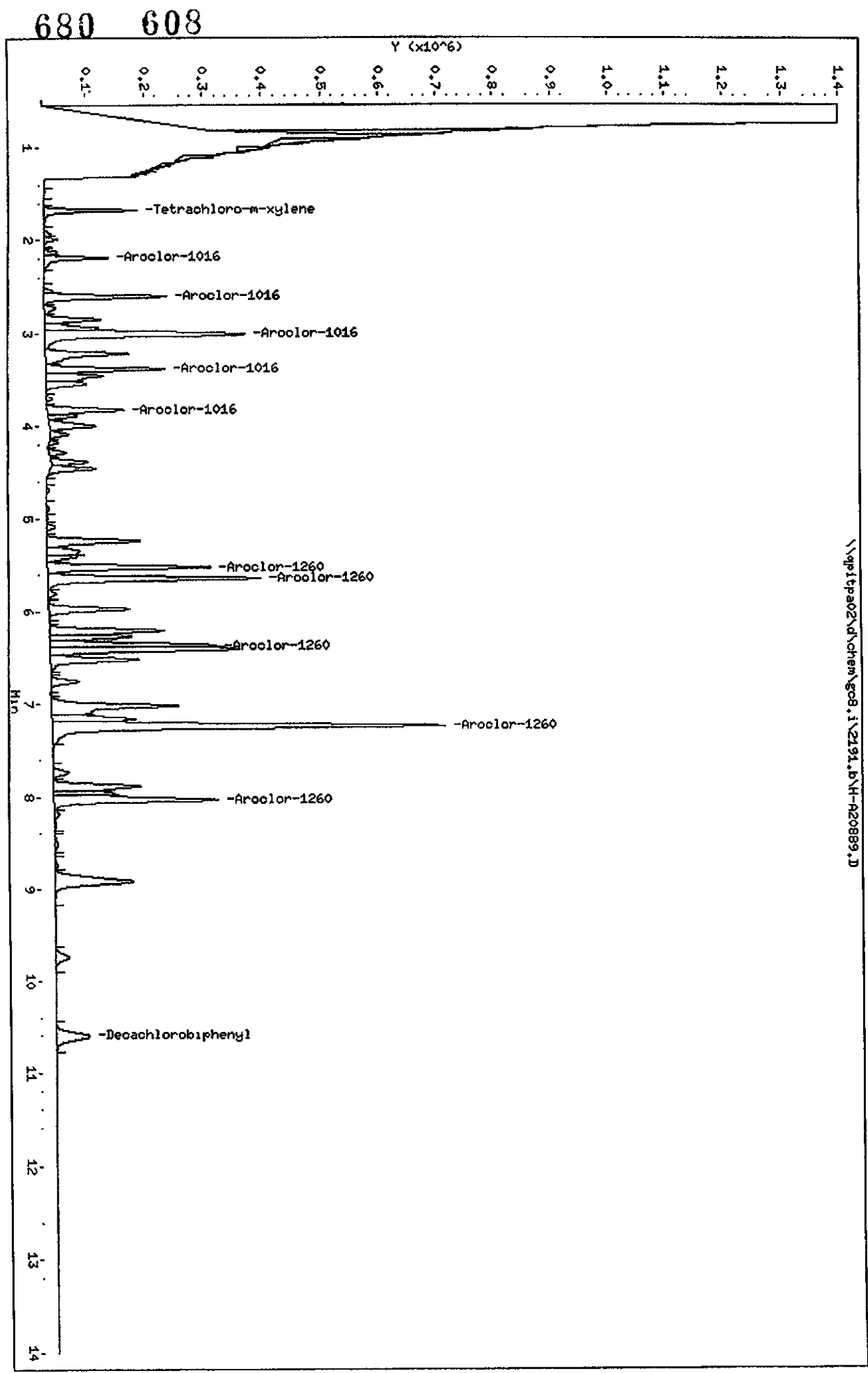
CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
36 Aroclor-1260					CAS #: 11096-82-5			
5.525	5 525	(0.000)	279961	0.88856	8.8856	0.00- 0.00	0 00 (M)	
5.648	5 650	(-0 002)	365701	0 90805	9.0805	95 86- 135.86	0 00	
6.382	6.366	(0.016)	287429	0 90083	9.0082	116 91- 156 91	0.00	
7 239	7 240	(-0.001)	674410	0.93226	9.3226	120.00- 160.00	0.00	
8.032	8 031	(0.001)	283233	0.90548	9.0548	108.33- 148 33	0.00	
Average of Peak Concentrations =					9 0703			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc08.i\2191.b\H-A20889.D
Date : 27-MAR-2001 07:33
Client ID: LCD4106
Sample Info: DXX2F1AD,2191.b
Volume Injected (uL): 1.0
Column phases: DB608

Instrument: gc08.i
Operator: 010139
Column diameter: 0.53



Data File Name: H-A20889.D

Inj Date and Time: 27-MAR-2001 07:33

Instrument ID: gc8 1

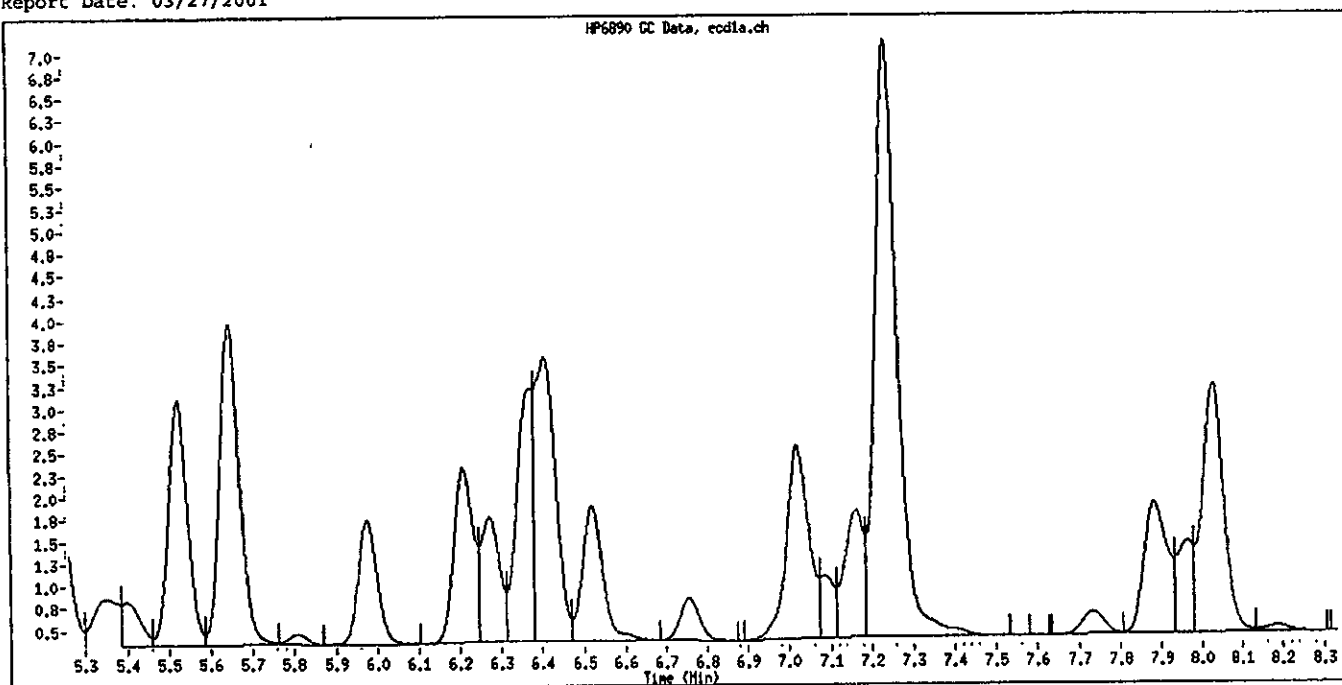
Client ID: LCD4106

Compound Name: Aroclor-1260

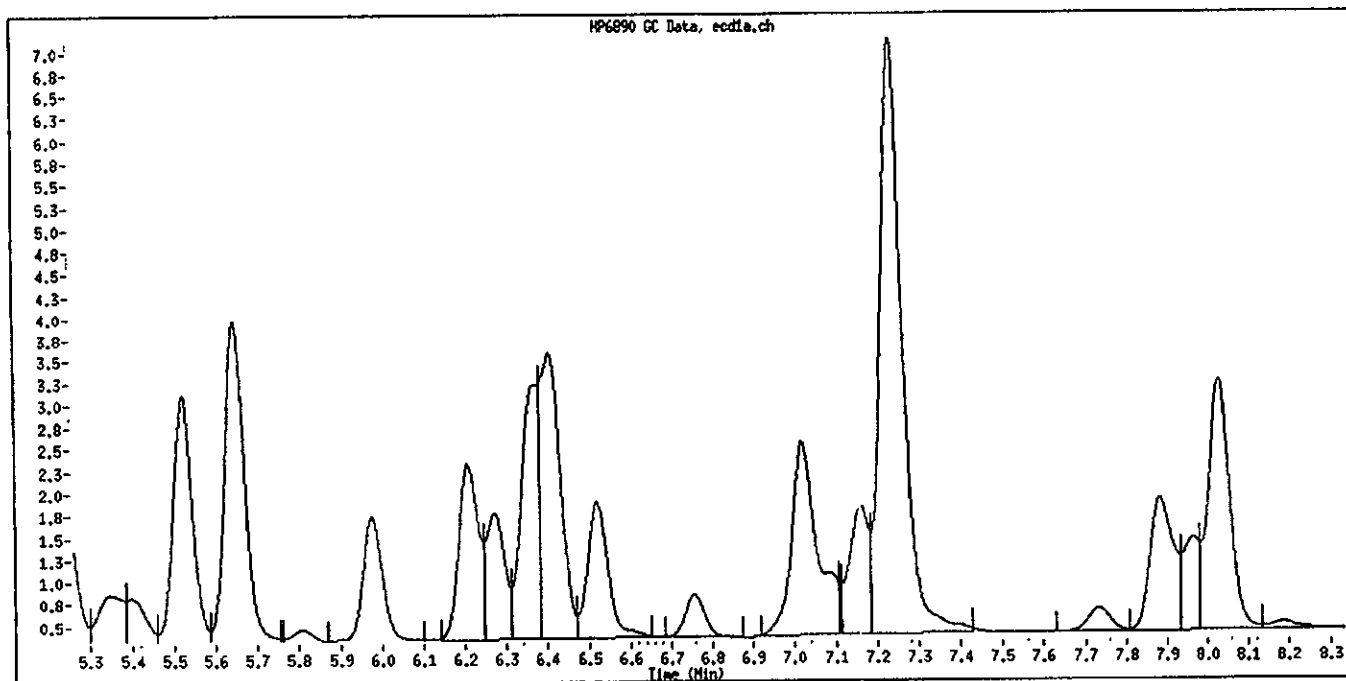
CAS #: 11096-82-5

Report Date: 03/27/2001

680 609



Original Integration



Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason: Poor Chromatography

680 610

**PCB
MISCELLANEOUS**

STL Pittsburgh

680 611

Peat 1084105

STL - Pittsburgh

APB 1084106

Separatory Funnel Extraction Worksheet

Lggbog ID: OP50

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method
3-25-01	3-25-01	Peat/PB	3510P	MeOH	T05E08	Baker	NA

Lot Number	Sample ID	Client ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surrogate Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1	PIC 230173 BRR	NA	1000	10.0	5	190-126-51.0	190-126-51.0	NA	NA	NA
2	LP5	LP5 Dup			5			190-126-51.0	0.5	
3	LP5	LP5 Dup			5			190-126-51.0	0.5	
4	LP5	LP5 Dup			5			190-126-51.0	0.5	
5	LP5	LP5 Dup			5			190-126-51.0	0.5	
6	001	001			8			NA	NA	
7	002	002			8			NA	NA	
8	PIC 230138 001				5					
9	PIC 230250 024				5					
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

Analyst	Extract(s)	Date	Time	Location	Analyst	Extract(s)	Date	Time	Location
P.Y.	P.Y.	P.Y.	P.Y.	P.Y.	P.Y.	P.Y.	P.Y.	P.Y.	P.Y.

Record line # from above	Date	Time	Location	Analyst	Extract(s)	Date	Time	Location
APB Above	3-25-01	1300	P.Y.	P.Y.	P.Y.	3-25-01	1310	P.Y.
All Above	3-26-01	1000	P.Y.	P.Y.	P.Y.	3-26-01	1030	P.Y.

Sodium Sulfate Mfg Lot Number	Reviewed by	Date
Baker V02599	Binao Pao	3-25-01

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	<u>12</u>	190-120-10 620
13	13	190-120-11
14	14	190-120-12
15	<u>15</u>	190-120-13
16	<u>16</u>	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
====	====	=====
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

680 614

Line	Vial	Vial Information

====	====	=====

54	54	190-111-13 <i>bbz</i>

Sequence Table (Back Injector):

No entries - empty table!

Created: DE 3-26-01

680 615

Sequence Table (Front Injector):

Vial Information Part:

Line Vial Vial Information

====	====	=====
1	1	8082 ANALYSIS
2	2	190-111-7 832
3	3	190-111-8
4	4	190-111-9
5	<u>5</u>	190-111-10 835
6	6	190-111-13
7	7	210167001
8	<u>8</u>	210167001S
9	9	210167001D
10	10	210167002 840
11	11	~~210167003~~ 50X
12	12	~~210167004~~ 100X
13	<u>13</u>	~~210167005~~ 20X
14	14	~~210167006~~ 100X
15	15	~~210167007~~ 845 (500X)
16	16	~~210167008~~ 50X
17	17	210167009
18	18	~~210167010~~ 500X
19	19	~~210167011~~ 100X
20	20	210167012 850
21	21	~~210167013~~ 4X
22	22	~~210167014~~ 2X
23	23	210167015
24	24	~~210167016~~ 20X
25	25	210167BLK1 855

Line	Vial	Vial Information
====	====	=====
26	26	210167LCS1
27	27	190-111-13
28	28	210167017
29	29	210167018
30	30	210167019 <i>860</i>
31	31	210167020
32	32	210167021
33	33	210167022
34	34	210167023
35	35	210167024 <i>865</i>
36	36	210167025
37	37	210167026
38	38	210167027
39	39	210167028
40	40	~~210167029~~ <i>870 (2X)</i>
41	<u>41</u>	210167030
42	42	240108007
43	43	240108008
44	44	240108009
45	45	240108009S <i>875</i>
46	46	240108BLK
47	47	240108LCS
48	48	190-111-13
49	49	240108009D
50	50	240108010 <i>880</i>
51	51	240108011
52	52	240108012
53	53	220173001

680 616

Line	Vial	Vial Information
====	====	=====
54	54	220173002
55	55	220138001 885
56	56	23025000 24
57	57	220173BLK
58	58	220173LCS
59	59	220173LCD
60	60	210167003 X50 890
61	61	210167004 X100
62	62	210167005 X20
63	63	~~210167006 X100~~
64	64	210167007 X500
65	65	210167008 X50 895
66	66	~~210167010 X500~~
67	67	210167011 X100
68	68	210167013 X4
69	69	190-111-13
70	70	210167014 X2 900
71	71	210167016 X20
72	<u>72</u>	~~210167029 X2~~ X4
73	73	210167006 X200
74	<u>74</u>	210167010 X2500
75	75	210129002 905
76	<u>76</u>	210129002S
77	77	210129002D
78	78	210129003
79	79	210129007
80	80	210129008 910
81	<u>81</u>	210129009

680 618

Line	Vial	Vial Information
====	====	=====
82	82	210129010
83	83	210129011
84	84	210129012
85	85	210129013 Q15
86	86	210129014
87	87	210129015
88	88	210129BLK
89	89	210129LCS
90	90	190-111-13 Q20
91	91	210129016
92	92	210129017
93	93	210129018
94	94	210129019
95	95	210129020 Q25
96	96	210167029 X4
97	97	220138002
98	98	220138003
99	99	220138004
100	100	220138005 Q30
101	1	220138005S
102	2	220138005D
103	3	220138006
104	4	220138007
105	5	220138008 Q35
106	6	220138009
107	7	220138010
108	8	220138011
109	9	220138BLK

Line	Vial	Vial Information

====	====	=====

110	10	220138LCS 940

111	11	190-111-13

112	12	220138012

113	13	220138013

114	14	220138014

115	15	220138015 945

116	16	220138016

117	17	220138017

118	18	220138018

119	19	~~200137001~~

120	20	~~200137001S~~ 950

121	21	~~200137001D~~

122	22	200137BLK

123	23	200137LCS

124	24	190-111-13 954

Sequence Table (Back Injector):

No entries - empty table!

REQUESTED BY. YUSHINSKI

METHOD. QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
14B, CLP1	DXQ4N-1-A6	___	322815	389829	I 09-QH C1C220138	001			WATER	0	6 1
14C, CLP1	DXRH2-1-AE	___	322813	399411	I-09-QH C1C220173	001			WATER	0	13 1
14C, CLP1	DXRKF-1-AQ	___	322814	399411	I-09-QH C1C220173	002			WATER	0	13 1
15A CLP1	DXWKM-1-A6	___	322816	389829	I 09-QH C1C230250	024			WATER	0	7 1

Used 1 liter per sample,
and empty bottles were
thrown away!

P. Yushinski
3-25-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski	P. Yushinski	3-25-01 0730
P. Yushinski	P. Yushinski	3-25-01 1030

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

HERBICIDE DATA

680 622

HERBICIDE
QC SUMMARY

2E
WATER PESTICIDE SURROGATE RECOVERY

680 623

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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/1080	155D	383D					0
05	DF/24-B/1080	17D	233D				0.325	20
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

680 624

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

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: STLPIT

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:

680 626 4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK2391

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

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/1080	DXRH21CC	03/28/01	03/28/01
04	DF/24-B/1080	DXRKF1CC	03/28/01	03/28/01
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

680 628

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRH21CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1080/IDW/004

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	40	U
93-72-1	2,4,5-TP (Silvex)	6.7	J

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20422.D
 Report Date: 28-Mar-2001 13:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20422.D
 Lab Smp Id: DXRH21CC Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 28-MAR-2001 11:28
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXRH21CC,2151A.b
 Misc Info : 220173001
 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: 4
 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	5.087	5.077	0.010	16359921	1.52128	3042
\$ 2 DCAA	13.132	13.083	0.049	890251	0.01913	38.26(R)
3 DICAMBA	13.656	13.680	-0.024	291862	0.00717	14.34
4 MCPP	14.067	14.123	-0.056	115139	3.09219	6184
5 MCPA	15.025	14.998	0.027	158079	3.12666	6253
6 DICHLOROPROP	16.204	16.139	0.065	49612	0.00582	11.65
7 2,4-D	17.647	17.628	0.019	30519	0.00354	7.076
8 PENTACHLOROPHENOL	Compound Not Detected.					
9 2,4,5-TP(SILVEX)	19.752	19.767	-0.015	304910	0.00333	6.652
10 2,4,5-T	20.581	20.538	0.043	154647	0.00159	3.189
11 2,4-DB	21.112	21.118	-0.006	149515	0.01031	20.63
12 DINOSEB	21.795	21.824	-0.029	249840	0.00269	5.382

680 630

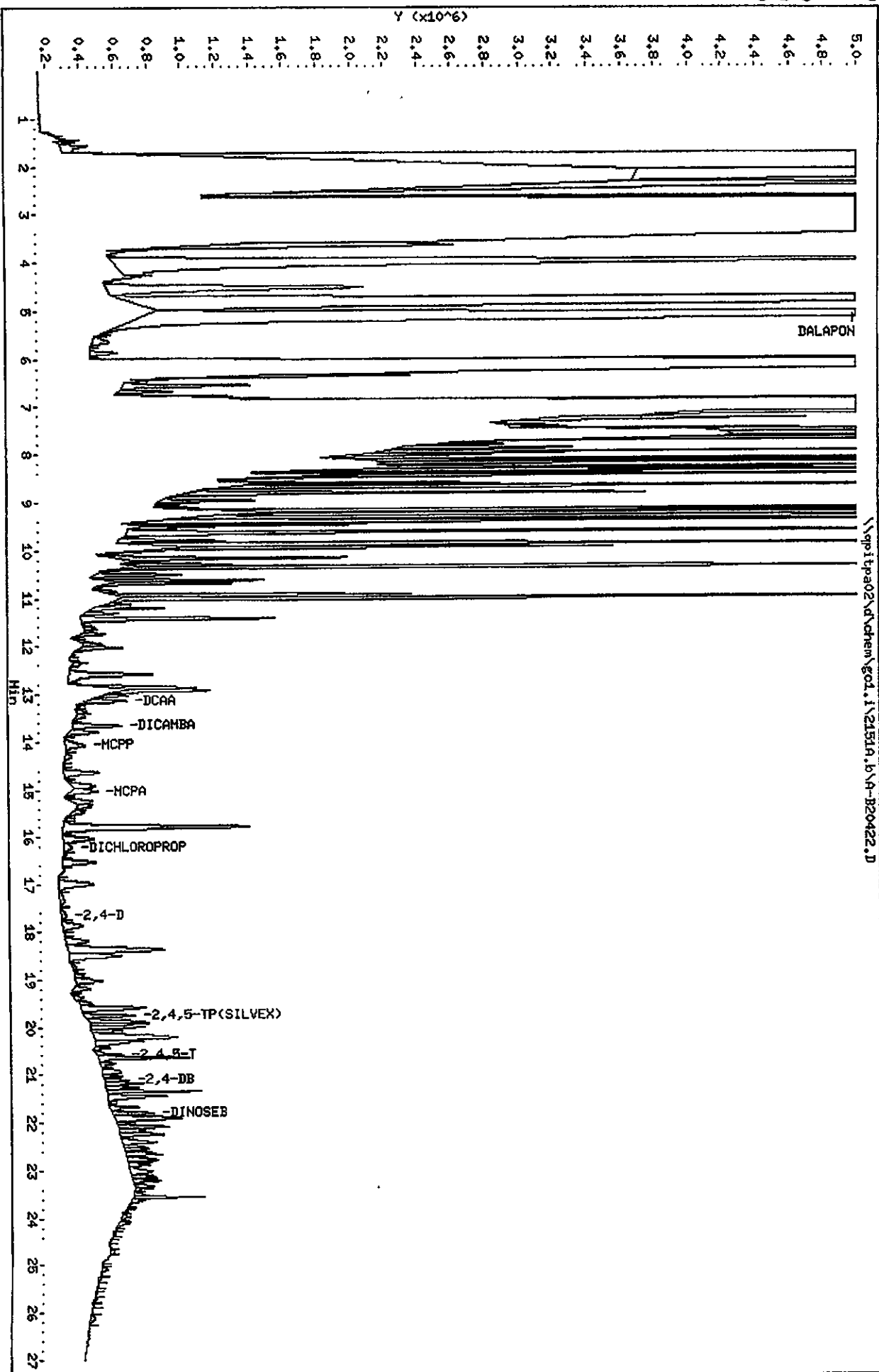
Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20422.D
Report Date: 28-Mar-2001 13:14

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\pittpa02\chem\gd1\2151A.b\A-B20422.D
Date: 28-MAR-2001 11:28
Client ID: DF/24-B/1080/IDM/00
Sample Info: DMRH21CC,2151A.b
Volume Injected (uL): 1.0
Column Phase: DB1701

Instrument: gd1.i
Operator: 010139
Column diameter: 0.53



680 632

Data File: \\gpitpa02\d\chem\gc1.i\2151.b\A-A20387.D
 Report Date: 28-Mar-2001 13:04

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc1.i\2151.b\A-A20387.D
 Lab Smp Id: DXRH21CC Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 28-MAR-2001 10:57
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXRH21CC,2151.b
 Misc Info : 220173001
 Comment : 8151/515 ANALYSIS
 Method : \\gpitpa02\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: 4
 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	14.417	14.445	-0.028	484725	0.00775	15.50(R)
3 MCPP	15.066	15.080	-0.014	285638	3.18314	6366
4 DICAMBA	15.279	15.262	0.017	116019	0.00275	5.498
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL	19.995	19.976	0.019	415064	0.00154	3.078
9 2,4,5-TP(SILVEX)	20.352	20.383	-0.031	1214315	0.00352	7.045
10 2,4,5-T	21.166	21.160	0.006	399935	0.00133	2.666
11 DINOSEB						
12 2,4-DB	21.626	21.630	-0.004	372291	0.01020	20.40

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20387.D
Report Date: 28-Mar-2001 13:04

680 633

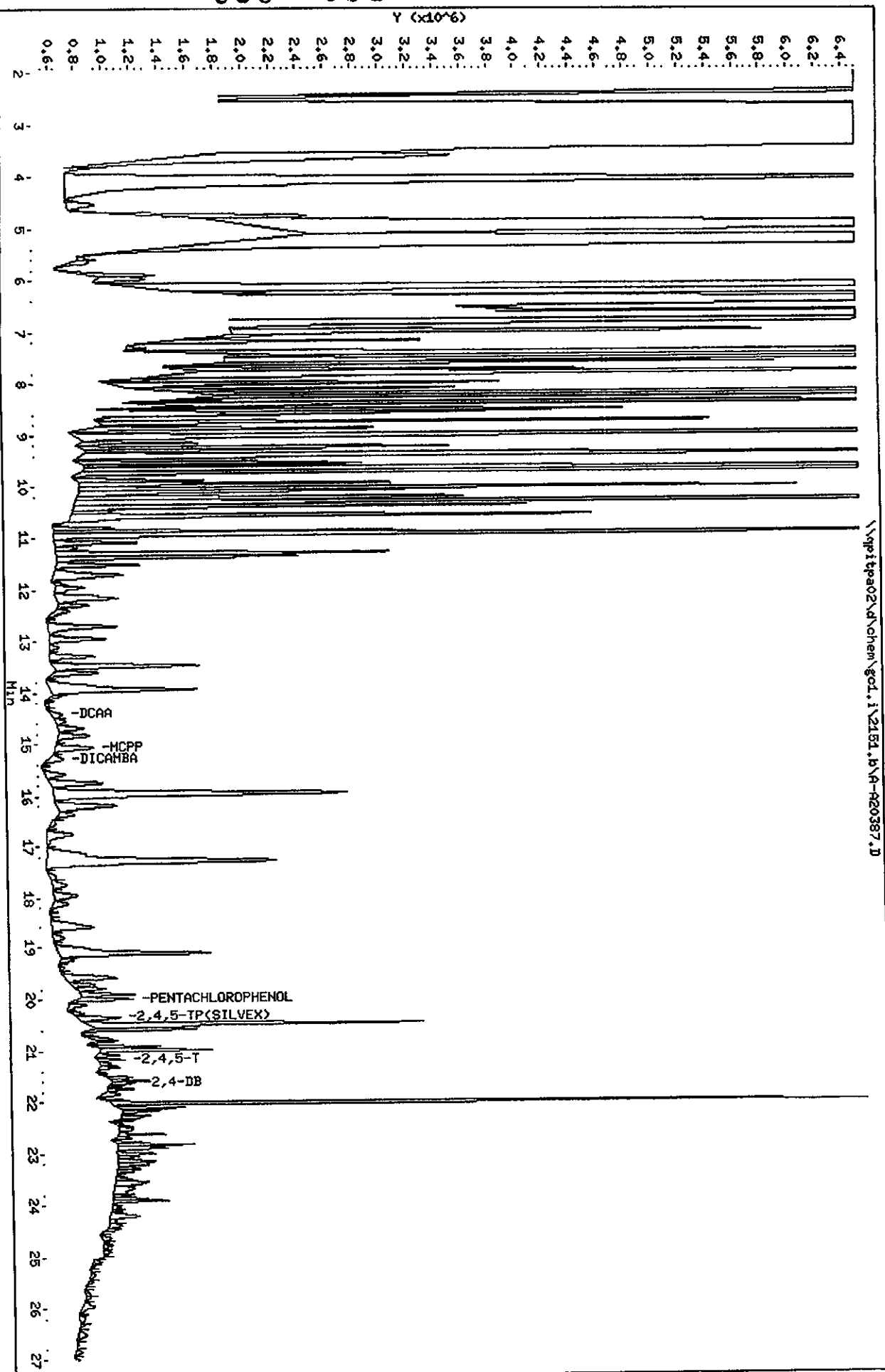
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

680 634

Data File: \\qpitpa02\chem\gcl.i\2151.b\A-A20387.D
 Date: 28-MAR-2001 10:57
 Client ID: DF/24-B/1080/IDM/00
 Sample Info: DMRH21CC,2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

680

635

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRH21CC

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	7.045	
	2	19.75	19.70	19.84	6.652	5.9
~~2,4,5-T~~	1	~~21.17~~	~~21.11~~	~~21.21~~	~~2.666~~	
	2	20.58	20.47	20.61	3.189	19.6
2,4-DB	1	21.63	21.58	21.68	20.40	
	2	21.11	21.05	21.19	20.63	1.1
DICAMBA	1	15.28	15.21	15.31	5.498	
	2	13.66	13.61	13.75	14.34	160.8
~~MCPD~~	1	15.07	15.03	15.13	6366	
	2	14.07	14.05	14.19	6184	2.9
	1					
	2					
	1					
	2					
	1					
	2					

680 636

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220173 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/22/01

Work Order: DXRKF1CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1080/IDW/005

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	40	u
93-72-1	2,4,5-TP (Silvex)	4.1	J P

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20423.D
 Report Date: 28-Mar-2001 13:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20423.D
 Lab Smp Id: DXRKF1CC Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 28-MAR-2001 12:00
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXRKF1CC,2151A.b
 Misc Info : 220173002
 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: 5
 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	5.092	5.077	0.015	12521352	1.16433	2329
\$ 2 DCAA	13.131	13.083	0.048	541520	0.01164	23.28 (R)
3 DICAMBA	13.650	13.680	-0.030	119799	0.00294	5.885
4 MCFP	14.076	14.123	-0.047	50778	1.36370	2727
5 MCPA	15.027	14.998	0.029	92269	1.82500	3650
6 DICHLOROPROP	16.196	16.139	0.057	42106	0.00494	9.887
7 2,4-D	17.648	17.628	0.020	17158	0.00199	3.978
8 PENTACHLOROPHENOL	Compound Not Detected.					
9 2,4,5-TP (SILVEX)	19.753	19.767	-0.014	187423	0.00204	4.089
10 2,4,5-T	20.589	20.538	0.051	88019	<0.0	1.815
11 2,4-DB	21.117	21.118	-0.001	56941	0.00393	7.856
12 DINOSEB	21.789	21.824	-0.035	227222	0.00245	4.895

680 638

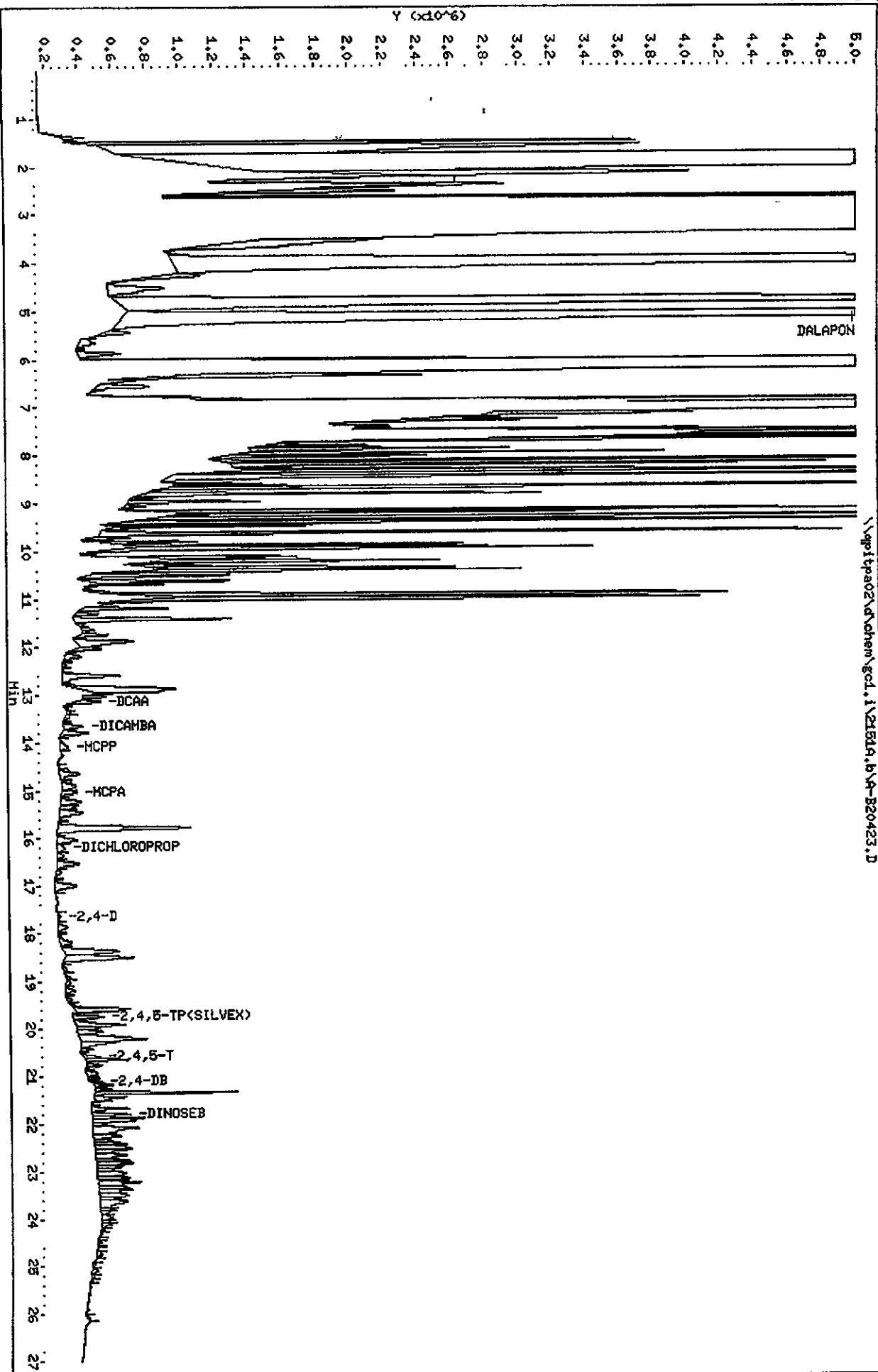
Data File: \\gpitpa02\d\chem\gc1.i\2151A.b\A-B20423.D
Report Date: 28-Mar-2001 13:14

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\qpltpa02\chem\gc1.1\2151A.b\A-B20423.D
 Date: 28-MAR-2001 12:00
 Client ID: DF/24-B/1080/IDM/00
 Sample Info: DXRKF1CC,2151A.b
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20388.D
 Report Date: 28-Mar-2001 13:04

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20388.D
 Lab Smp Id: DXRKF1CC Client Smp ID: DF/24-B/1080/IDW/00
 Inj Date : 28-MAR-2001 11:28
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXRKF1CC,2151.b
 Misc Info : 220173002
 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: 5
 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	14.428	14.445	-0.017	530814	0.00849	1.697(R)
3 MCPP	15.077	15.080	-0.003	263659	2.93821	5876
4 DICAMBA	15.261	15.262	-0.001	502479	0.01191	23.81
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL						
9 2,4,5-TP(SILVEX)	20.347	20.383	-0.036	1406175	0.00408	8.158
10 2,4,5-T	21.169	21.160	0.009	593963	0.00198	3.959
11 DINOSEB	21.512	21.476	0.036	1091044	0.00443	8.861
12 2,4-DB	21.628	21.630	-0.002	705497	0.01933	38.65

680 641

Data File: \\qpitpa02\d\chem\gcl.i\2151.b\A-A20388.D
Report Date: 28-Mar-2001 13:04

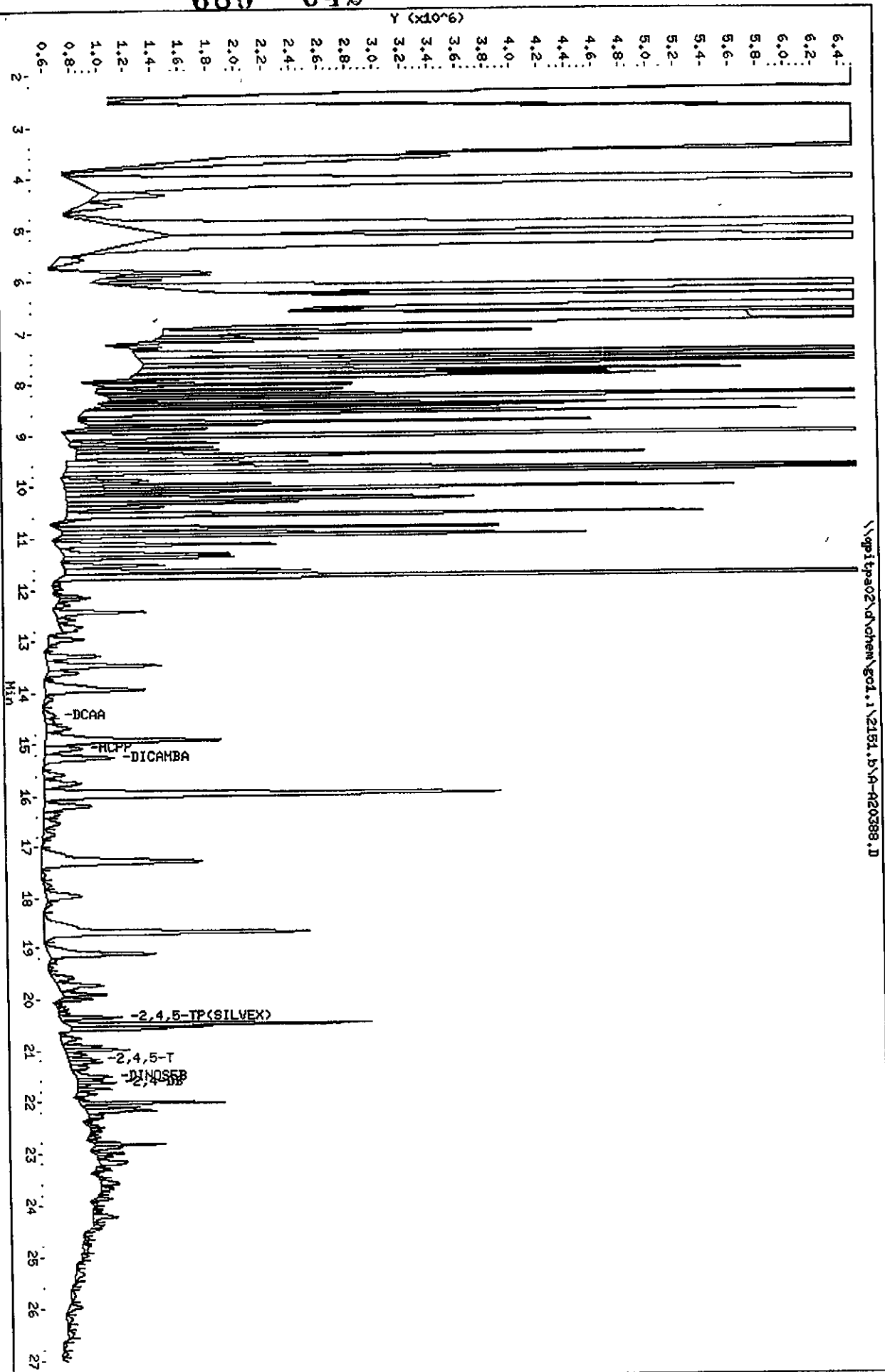
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

680 642

Data File: \\gpi1pa02\d\chem\gcl.1\2151.b\A-420388.D
 Date : 28-MAR-2001 11:28
 Client ID: DF/24-R/1080/IMU/00
 Sample Info: DMRK10C/2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

689 643

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

Lab Sample ID: DXRKF1CC

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	8.158	
	2	19.75	19.70	19.84	4.089	99.5
2,4,5-T	1	21.17	21.11	21.21	3.959	
	2	20.59	20.47	20.61	1.815	118.1
2,4-DB	1	21.63	21.58	21.68	38.65	
	2	21.12	21.05	21.19	7.856	392.0
DICAMBA	1	15.26	15.21	15.31	23.81	
	2	13.65	13.61	13.75	5.885	304.6
DINOSEB	1	21.51	21.43	21.53	8.861	
	2	21.79	21.75	21.89	4.895	81.0
MCPD	1	15.08	15.03	15.13	5876	
	2	14.08	14.05	14.19	2727	115.5
	1					
	2					
	1					
	2					

680 644

HERBICIDE
CALIBRATION DATA

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

680 646

6D
HP 68901A
RTX-50

Report Date : 28-Mar-2001 12:57

STL-Pittsburgh

COMPOUND LISTING

Method file : \\gpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 28-Mar-2001 12:57 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	5.313	5.263-5.363	1.33e+007
\$ 2 DCAA	14.445	14.395-14.495	6.25e+007
3 MCPP	15.080	15.030-15.130	8.97e+004
4 DICAMBA	15.263	15.213-15.313	4.22e+007
5 MCPA	16.424	16.374-16.474	1.06e+005
6 DICHLOROPROP	17.419	17.369-17.469	9.55e+006
7 2,4-D	19.067	19.017-19.117	1.63e+007
8 PENTACHLOROPHENOL	19.977	19.927-20.027	2.70e+008
9 2,4,5-TP (SILVEX)	20.383	20.333-20.433	3.45e+008
10 2,4,5-T	21.161	21.111-21.211	3.00e+008
11 DINOSEB	21.477	21.427-21.527	2.46e+008
12 2,4-DB	21.631	21.581-21.681	3.65e+007

Report Date : 26-Mar-2001 11:24

6E
Hp68901A
RTX-50

680 647

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2001 16:29
End Cal Date : 15-MAR-2001 18:34
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Cal Date : 26-Mar-2001 11:23 MorganW
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
Level 2: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D
Level 3: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D
Level 4: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20278.D
Level 5: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 DALAPON	15246455	13611591	13378815	12406925	12089352	13346628	9.286
3 MCPP	142721	109992	86632	63009	46319	89735	42.532 <-
4 DICAMBA	47277547	42473803	42580071	39902421	38788418	42204452	7.761
5 MCPA	172100	129624	100042	72936	55766	106094	43.653 <-
6 DICHLOROPROP	11192406	9984882	9636981	8763976	8152558	9546161	12.244
7 2,4-D	18776825	16688141	16451011	15109771	14493124	16303774	10.166
8 PENTACHLOROPHENOL	276634586	262108083	272856297	265978289	270959506	269707352	2.123
9 2,4,5-TP(SILVEX)	371101143	339788857	345695355	333814727	333220417	344724100	4.523
10 2,4,5-T	326898292	291121048	300393223	289794242	292048780	300051117	5.190
11 DINOSEB	275743849	246706929	244238740	232127638	232401063	246243644	7.223
12 2,4-DB	41586540	37166351	36143183	33724929	33913038	36506808	8.752
\$ 2 DCAA	73862254	65710353	62768378	56985371	53398435	62544958	12.709

13.8 % Avg RSD

680 648

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20349.D
 Report Date: 27-Mar-2001 13:59

7E
 Hp68901A
 RT-50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 27-MAR-2001 09:33
 Lab File ID: A-A20349.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
1 DALAPON	13346628	13271458	0.010	-0.6 15.0
2 DCAA	62544958	62633655	0.010	0.1 15.0
3 MCPP	89735	85168	0.010	-5.1 15.0
4 DICAMBA	42204452	42198682	0.010	-0.0 15.0
5 MCPA	106094	98680	0.010	-7.0 15.0
6 DICHLOROPROP	9546161	9468903	0.010	-0.8 15.0
7 2,4-D	16303774	16201833	0.010	-0.6 15.0
8 PENTACHLOROPHENOL	269707352	273996053	0.010	1.6 15.0
9 2,4,5-TP(SILVEX)	344724100	342801137	0.010	-0.6 15.0
10 2,4,5-T	300051117	299517204	0.010	-0.2 15.0
11 DINOSEB	246243644	245595906	0.010	-0.3 15.0
12 2,4-DB	36506808	36685882	0.010	0.5 15.0

680 649

7E
HP68901A
RTX-50Data File: \\gpitpa02\d\chem\gc1.i\2151.b\A-A20365.D
Report Date: 28-Mar-2001 07:03

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 27-MAR-2001 17:53
 Lab File ID: A-A20365.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\gpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	%D	MAX
1 DALAPON	13346628	13566469	0.010	1.6	15.0
2 DCAA	62544958	63466075	0.010	1.5	15.0
3 MCPP	89735	86550	0.010	-3.5	15.0
4 DICAMBA	42204452	43024729	0.010	1.9	15.0
5 MCPA	106094	99447	0.010	-6.3	15.0
6 DICHLOROPROP	9546161	9677370	0.010	1.4	15.0
7 2,4-D	16303774	16637133	0.010	2.0	15.0
8 PENTACHLOROPHENOL	269707352	278500376	0.010	3.3	15.0
9 2,4,5-TP(SILVEX)	344724100	351139289	0.010	1.9	15.0
10 2,4,5-T	300051117	305522986	0.010	1.8	15.0
11 DINOSEB	246243644	244257717	0.010	-0.8	15.0
12 2,4-DB	36506808	35576994	0.010	-2.5	15.0

680 650

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20383.D
 Report Date: 28-Mar-2001 07:04

7E
 Hp 68901A
 RTx-50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 28-MAR-2001 03:14
 Lab File ID: A-A20383.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
1 DALAPON	13346628	13497449	0.010	1.1	15.0
2 DCAA	62544958	65324994	0.010	4.4	15.0
3 MCPP	89735	87560	0.010	-2.4	15.0
4 DICAMBA	42204452	44278447	0.010	4.9	15.0
5 MCPA	106094	100604	0.010	-5.2	15.0
6 DICHLOROPROP	9546161	10040967	0.010	5.2	15.0
7 2,4-D	16303774	17412902	0.010	6.8	15.0
8 PENTACHLOROPHENOL	269707352	284509774	0.010	5.5	15.0
9 2,4,5-TP (SILVEX)	344724100	363518199	0.010	5.5	15.0
10 2,4,5-T	300051117	320483744	0.010	6.8	15.0
11 DINOSB	246243644	250808740	0.010	1.9	15.0
12 2,4-DB	36506808	37407964	0.010	2.5	15.0

680 651

7E
Hp 68901A
RTX-SDData File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20385.D
Report Date: 28-Mar-2001 12:57

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 28-MAR-2001 09:55
 Lab File ID: A-A20385.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
=====	=====	=====	=====	=====
1 DALAPON	13346628	13428178	0.010	0.6 15.0
2 DCAA	62544958	64539553	0.010	3.2 15.0
3 MCPP	89735	86815	0.010	-3.3 15.0
4 DICAMBA	42204452	43457012	0.010	3.0 15.0
5 MCPA	106094	100228	0.010	-5.5 15.0
6 DICHLOROPROP	9546161	9864469	0.010	3.3 15.0
7 2,4-D	16303774	17299659	0.010	6.1 15.0
8 PENTACHLOROPHENOL	269707352	283287782	0.010	5.0 15.0
9 2,4,5-TP(SILVEX)	344724100	359603744	0.010	4.3 15.0
10 2,4,5-T	300051117	317520616	0.010	5.8 15.0
11 DINOSEB	246243644	252289685	0.010	2.5 15.0
12 2,4-DB	36506808	38842308	0.010	6.4 15.0

680 652

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20389.D
 Report Date: 28-Mar-2001 12:58

7E
 Hp 68901A
 RTX-50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 28-MAR-2001 12:00
 Lab File ID: A-A20389.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
1 DALAPON	13346628	13963781	0.010	4 6 15 0
2 DCAA	62544958	65432421	0.010	4 6 15 0
3 MCPP	89735	87017	0.010	-3 0 15.0
4 DICAMBA	42204452	44318329	0.010	5.0 15.0
5 MCPA	106094	100405	0.010	-5 4 15.0
6 DICHLOROPROP	9546161	10053101	0.010	5.3 15.0
7 2,4-D	16303774	17572644	0.010	7 8 15 0
8 PENTACHLOROPHENOL	269707352	280624248	0.010	4.0 15.0
9 2,4,5-TP (SILVEX)	344724100	360695972	0.010	4 6 15.0
10 2,4,5-T	300051117	319184076	0.010	6 4 15.0
11 DINOSEB	246243644	247421339	0.010	0.5 15 0
12 2,4-DB	36506808	36431396	0.010	-0 2 15 0

8D
PESTICIDE ANALYTICAL SEQUENCE

680 653

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/15/01 03/15/01

Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 14.45					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	LHERB	03/15/01	1629	14.46	
02	MLHERB	03/15/01	1700	14.46	
03	MHERB	03/15/01	1731	14.46	
04	MHHERB	03/15/01	1803	14.47	
05	HHERB	03/15/01	1834	14.46	
06	2ND HERB	03/15/01	1905	14.47	
07	MHERB	03/27/01	0933	14.45	
08	MHERB	03/27/01	1753	14.45	
09	LCS2391 DXWV51AC	03/27/01	1957	14.45	
10	LCD2391 DXWV51AD	03/27/01	2029	14.45	
11	PBLK2391 DXWV51AA	03/27/01	2100	14.45	
12	MHERB	03/28/01	0314	14.45	
13	MHERB	03/28/01	0955	14.45	
14	DF/24-B/1080 DXRH21CC	03/28/01	1057	14.42	
15	DF/24-B/1080 DXRKF1CC	03/28/01	1128	14.43	
16	MHERB	03/28/01	1200	14.45	
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = DCAA QC LIMITS
(+/- 0.05 MINUTES)

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

683 654

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
 Report Date: 16-Mar-2001 08:52

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
 Lab Smp Id: LHERB
 Inj Date : 15-MAR-2001 16:29
 Operator : 010139
 Smp Info : LHERB,2151.b
 Misc Info : 190-107-1
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 16-Mar-2001 08:52 morganw
 Cal Date : 15-MAR-2001 16:29
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20275.D
 Calibration Sample, Level: 1
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	*****	*****	*****
1 DALAPON	5.325	5.326	-0.001	167711	0.01100	0.01100
\$ 2 DCAA	14.461	14.463	-0.002	1573266	0.02130	0.02130
3 MCPP	15.096	15.097	-0.001	302568	2.12000	2.120
4 DICAMBA	15.279	15.279	0.000	501142	0.01060	0.01060
5 MCPA	16.445	16.446	-0.001	368294	2.14000	2.140
6 DICHLOROPROP	17.441	17.443	-0.002	237279	0.02120	0.02120
7 2,4-D	19.083	19.080	0.003	396191	0.02110	0.02110
8 PENTACHLOROPHENOL	19.986	19.987	-0.001	735848	0.00266	0.002660
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	1948281	0.00525	0.005250
10 2,4,5-T	21.169	21.168	0.001	1722754	0.00527	0.005270
11 DINOSEB	21.486	21.485	0.001	874108	0.00317	0.003170
12 2,4-DB	21.641	21.638	0.003	877476	0.02110	0.02110

Data File: \\spitpa02\chem\gc1.i\2151.b\A-A20275.D

Date: 15-MAR-2001 16:29

Client ID:

Sample Info: LHERB,2151.b

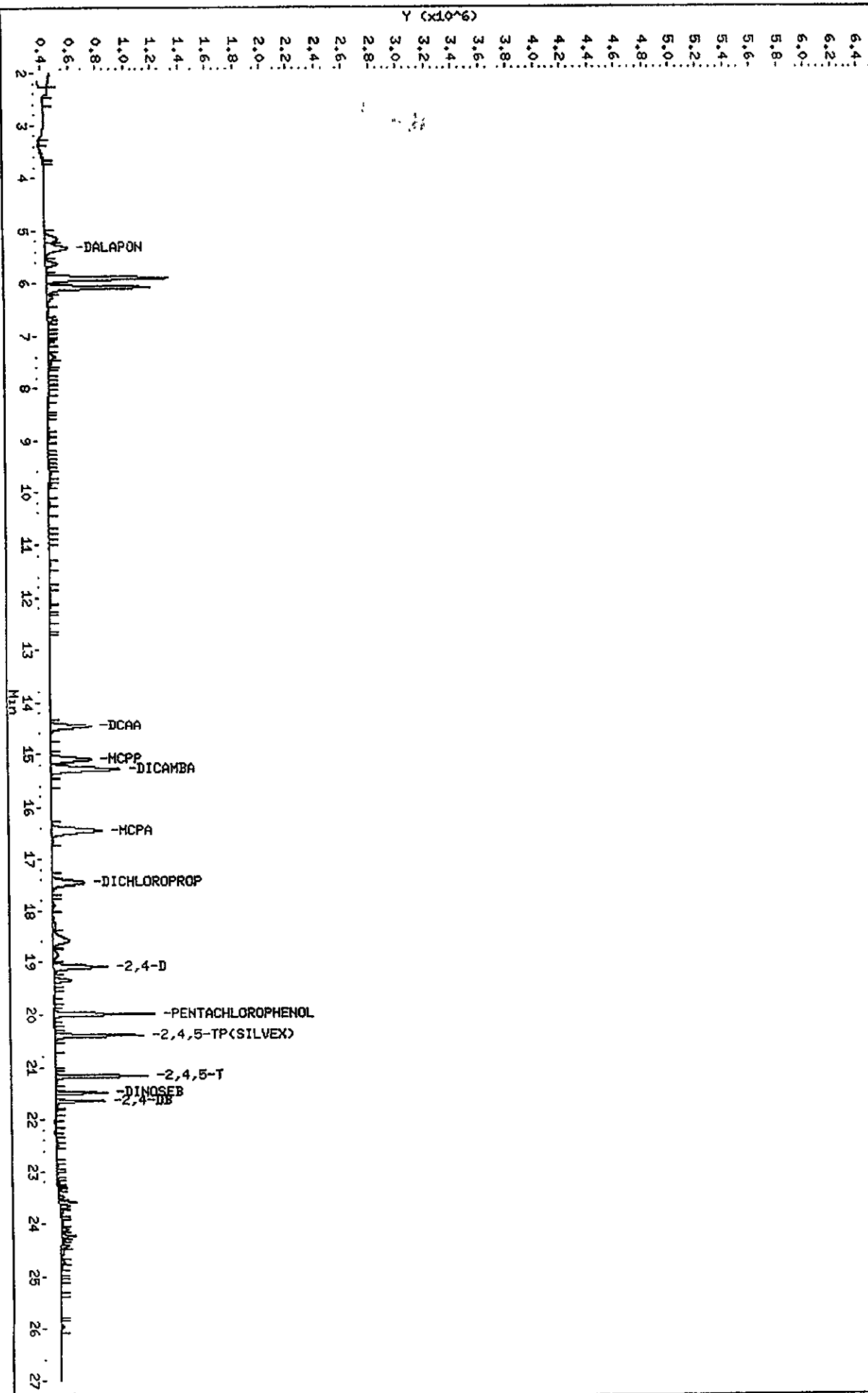
Column phase: RTX-50

Instrument: gc1.i

Operator: 010139

Column diameter: 0.53

\\spitpa02\chem\gc1.i\2151.b\A-A20275.D



680 656

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D
 Report Date: 16-Mar-2001 08:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D

Lab Smp Id: MLHERB

Inj Date : 15-MAR-2001 17:00

Operator : 010139

Inst ID: gc1.i

Smp Info : MLHERB,2151.b

Misc Info : 190-107-2

Comment : 8151/515 ANALYSIS

Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

Meth Date : 16-Mar-2001 08:52 morganw

Quant Type: ESTD

Cal Date : 15-MAR-2001 17:00

Cal File: A-A20276.D

Als bottle: 3

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: all.sub

Target Version: 4.04

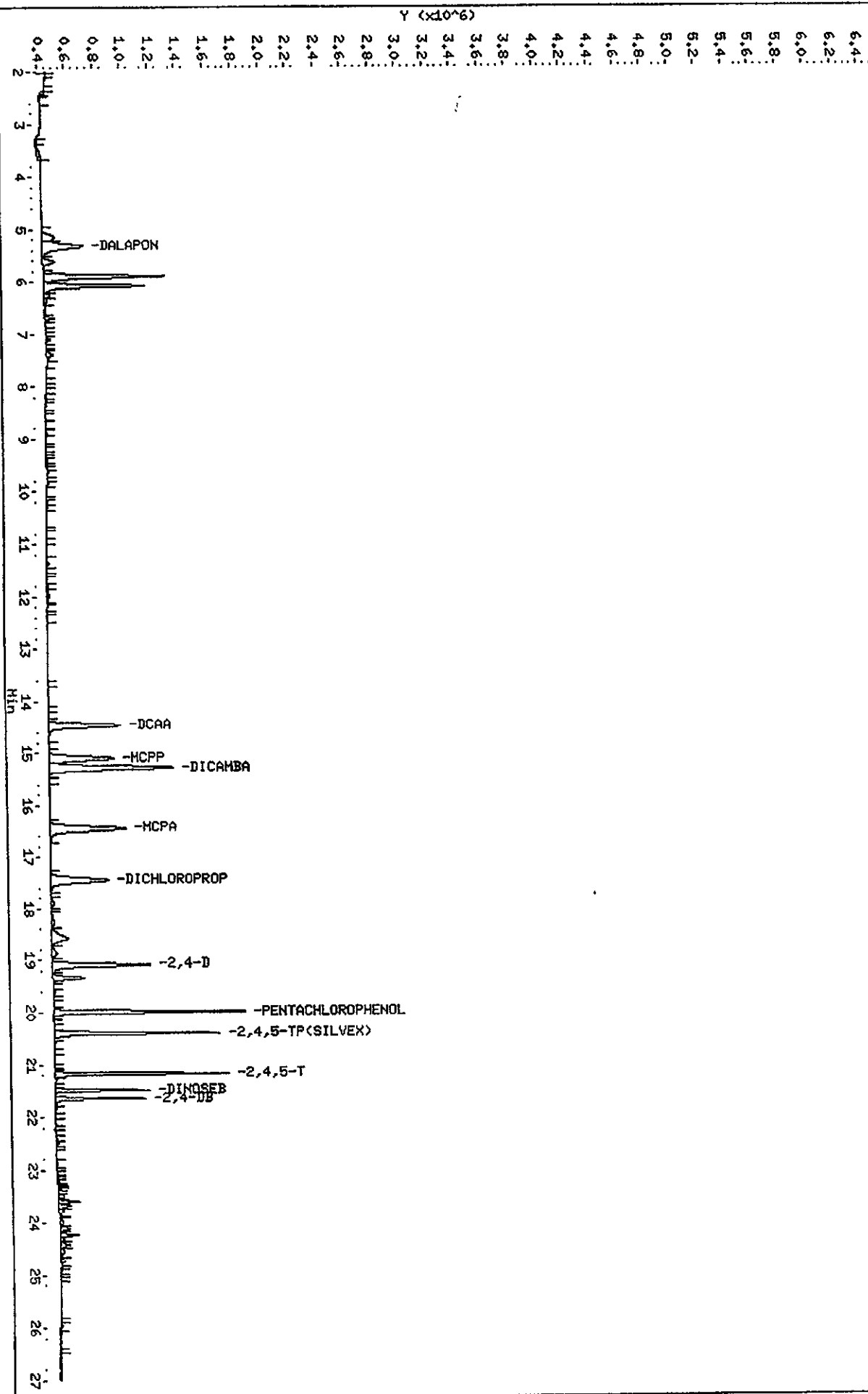
Processing Host: PITPC003

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.328	5.326	0.002	299455	0.02200	0.02075
\$ 2 DCAA	14.461	14.463	-0.002	2792690	0.04250	0.04002
3 MCPP	15.097	15.097	0.000	468566	4.26000	3.708
4 DICAMBA	15.277	15.279	-0.002	904692	0.02130	0.02016
5 MCPA	16.442	16.446	-0.004	554791	4.28000	3.677
6 DICHLOROPROP	17.440	17.443	-0.003	423359	0.04240	0.03998
7 2,4-D	19.079	19.080	-0.001	709246	0.04250	0.04000
8 PENTACHLOROPHENOL	19.986	19.987	-0.001	1394415	0.00532	0.005176
9 2,4,5-TP(SILVEX)	20.391	20.392	-0.001	3567783	0.01050	0.01004
10 2,4,5-T	21.168	21.168	0.000	3056771	0.01050	0.009892
11 DINOSEB	21.484	21.485	-0.001	1566589	0.00635	0.005997
12 2,4-DB	21.639	21.638	0.001	1568420	0.04220	0.03983

Data File: \\apitpa02\chem\gc1.i\2151.b\A-A20276.D
 Date: 15-MAR-2001 17:00
 Client ID:
 Sample Info: MLHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

\\apitpa02\chem\gc1.i\2151.b\A-A20276.D



680 658

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D
 Report Date: 16-Mar-2001 08:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D

Lab Smp Id: MHERB

Inj Date : 15-MAR-2001 17:31

Operator : 010139

Inst ID: gc1.i

Smp Info : MHERB,2151.b

Misc Info : 190-107-3

Comment : 8151/515 ANALYSIS

Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

Meth Date : 16-Mar-2001 08:52 morganw

Quant Type: ESTD

Cal Date : 15-MAR-2001 17:31

Cal File: A-A20277.D

Als bottle: 4

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: all.sub

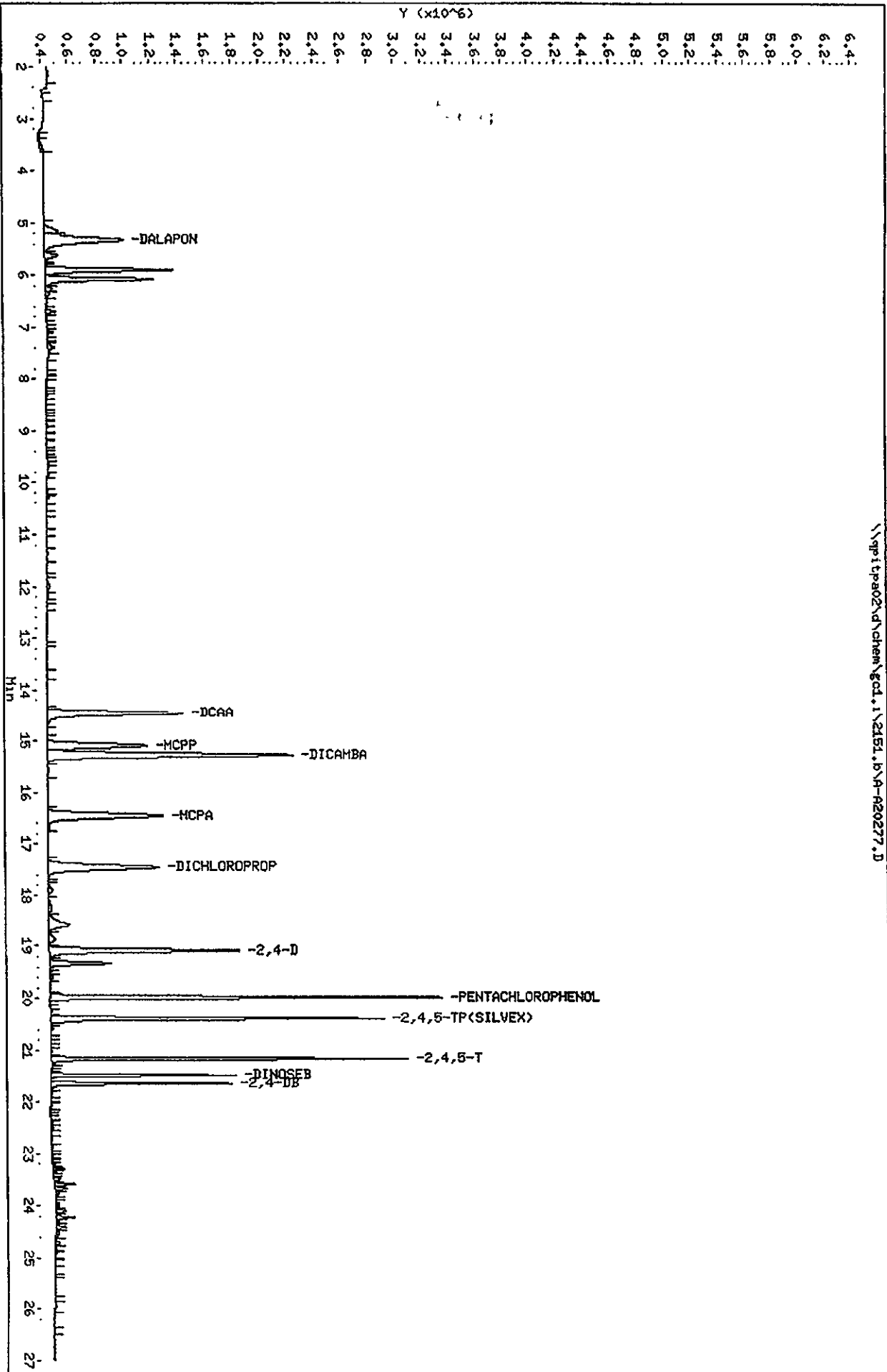
Target Version: 4.04

Processing Host: PITPC003

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.326	5.326	0.000	587330	0.04390	0.04172
\$ 2 DCAA	14.463	14.463	0.000	5341589	0.08510	0.07920
3 MCPP	15.097	15.097	0.000	738103	8.52000	6.525
4 DICAMBA	15.279	15.279	0.000	1809653	0.04250	0.04102
5 MCPA	16.446	16.446	0.000	856359	8.56000	6.394
6 DICHLOROPROP	17.443	17.443	0.000	817216	0.08480	0.07956
7 2,4-D	19.080	19.080	0.000	1399981	0.08510	0.08090
8 PENTACHLOROPHENOL	19.987	19.987	0.000	2903191	0.01064	0.01073
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	7294172	0.02110	0.02071
10 2,4,5-T	21.168	21.168	0.000	6338297	0.02110	0.02070
11 DINOSEB	21.485	21.485	0.000	3101832	0.01270	0.01214
12 2,4-DB	21.638	21.638	0.000	3054099	0.08450	0.07974

Data File: \\ppitpa02\chem\gc1.i\2151.b\A-A20277.D
 Date: 15-MAR-2001 17:31
 Client ID:
 Sample Info: HHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53



689 660

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20278.D
Report Date: 16-Mar-2001 08:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20278.D

Lab Smp Id: MHHERB

Inj Date : 15-MAR-2001 18:03

Operator : 010139

Inst ID: gc1.i

Smp Info : MHHERB,2151.b

Misc Info : 190-107-4

Comment : 8151/515 ANALYSIS

Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

Meth Date : 16-Mar-2001 08:52 morganw

Quant Type: ESTD

Cal Date : 15-MAR-2001 18:03

Cal File: A-A20278.D

Als bottle: 5

Calibration Sample, Level: 4

Dil Factor: 1.00000

Compound Sublist: all.sub

Integrator: Falcon

Target Version: 4.04

Processing Host: PITPC003

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	---	-----	-----	-----	-----	-----
1 DALAPON	5.189	5.326	-0.137	111501	0.08780	0.01025(M)
\$ 2 DCAA	14.465	14.463	0.002	9687513	0.17000	0.1494
3 MCPP	15.102	15.097	0.005	1071150	17.0000	10.65
4 DICAMBA	15.280	15.279	0.001	3395696	0.08510	0.07886
5 MCPA	16.445	16.446	-0.001	1247206	17.1000	10.51
6 DICHLOROPROP	17.445	17.443	0.002	1489876	0.17000	0.1506
7 2,4-D	19.080	19.080	0.000	2568661	0.17000	0.1533
8 PENTACHLOROPHENOL	19.989	19.987	0.002	5660018	0.02128	0.02101
9 2,4,5-TP(SILVEX)	20.393	20.392	0.001	14053600	0.04210	0.04043
10 2,4,5-T	21.169	21.168	0.001	12229317	0.04220	0.04049
11 DINOSEB	21.485	21.485	0.000	5896042	0.02540	0.02361
12 2,4-DB	21.638	21.638	0.000	5699513	0.16900	0.1534

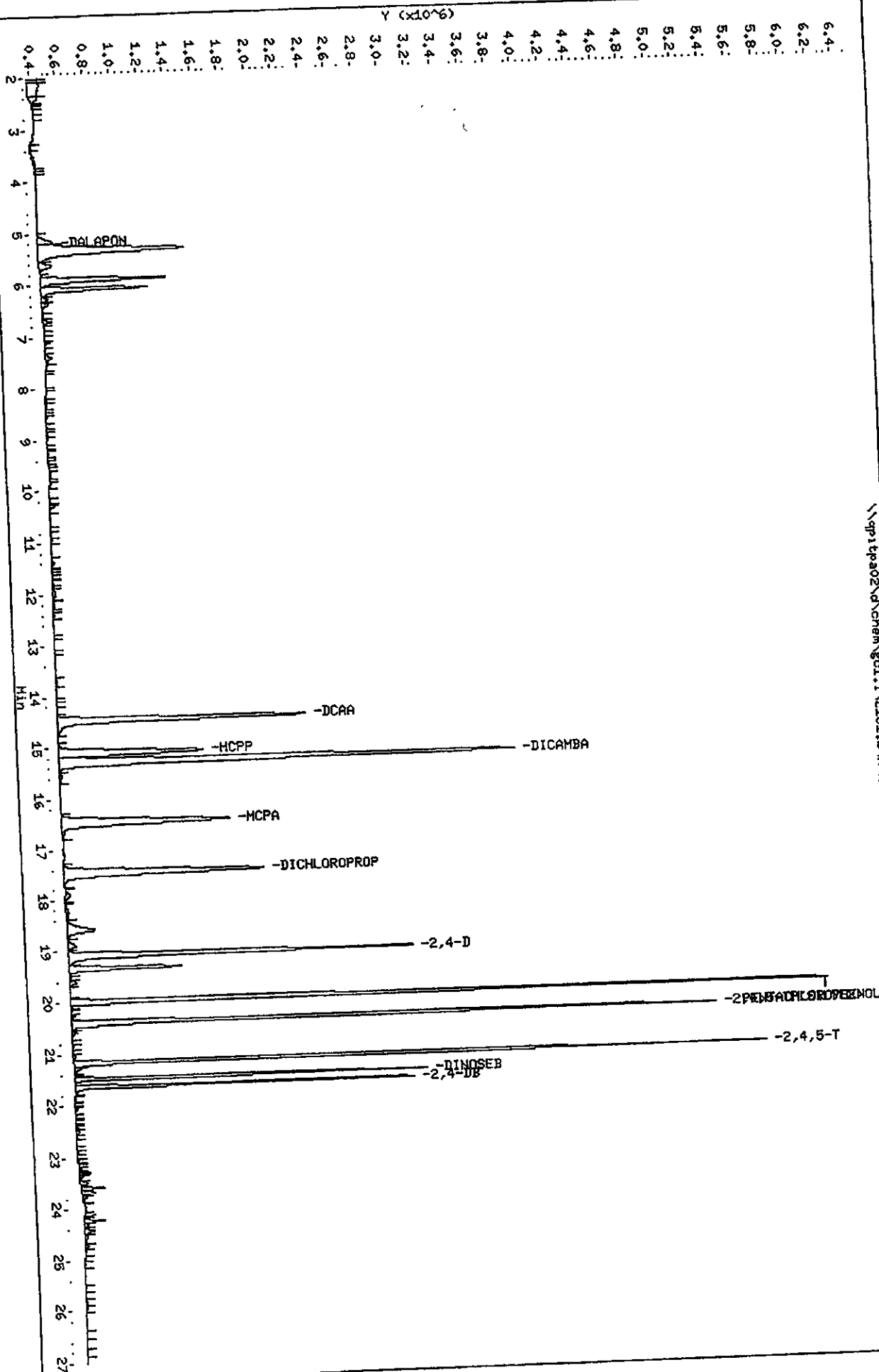
QC Flag Legend

M - Compound response manually integrated.

Data File: \\p1tpa02\chem\col.1\2151.b\A-R20278.D
 Date: 15-MAR-2001 18:03
 Client ID:
 Sample Info: MHHERB, 2151.b
 Column phase: RTX-50

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

\\p1tpa02\chem\col.1\2151.b\A-R20278.D



Data File Name: A-A20278.D

680 662

Inj Date and Time: 15-MAR-2001 18 03

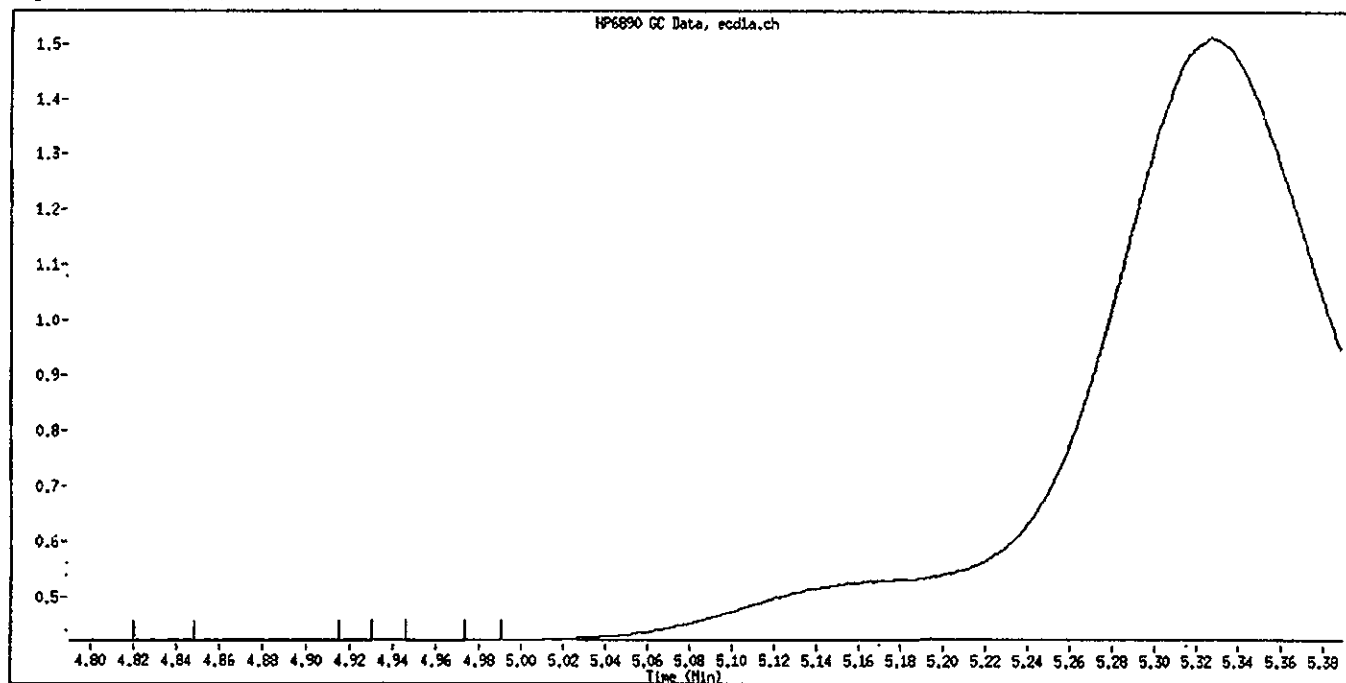
Instrument ID: gcl.i

Client ID.

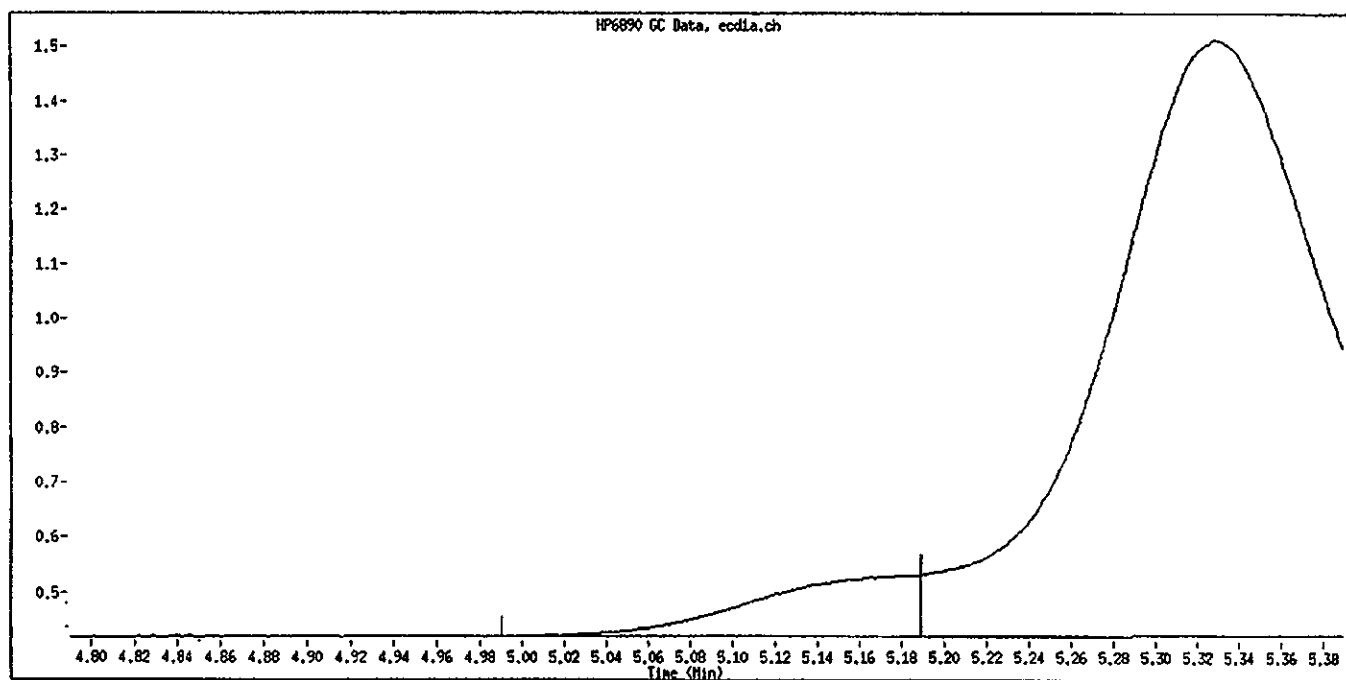
Compound Name DALAPON

CAS #: 75-99-0

Report Date 03/16/2001



Original Integration



Manual Integration

Manually Integrated By MorganW

Manual Integration Reason: Poor Chromatography

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.D
Report Date: 16-Mar-2001 08:53

680 663

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.D

Lab Smp Id: HHERB

Inj Date : 15-MAR-2001 18:34

Operator : 010139

Inst ID: gc1.i

Smp Info : HHERB,2151.b

Misc Info : 190-107-5

Comment : 8151/515 ANALYSIS

Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

Meth Date : 16-Mar-2001 08:52 morganw

Quant Type: ESTD

Cal Date : 15-MAR-2001 18:34

Cal File: A-A20279.D

Als bottle: 6

Calibration Sample, Level: 5

Dil Factor: 1.00000

Compound Sublist: all.sub

Integrator: Falcon

Target Version: 4.04

Processing Host: PITPC003

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	---	-----	-----	-----	-----	-----
1 DALAPON	5.182	5.326	-0.144	139625	0.17600	0.01576(M)
\$ 2 DCAA	14.463	14.463	0.000	18155468	0.34000	0.2903
3 MCPP	15.103	15.097	0.006	1579493	34.1000	17.60
4 DICAMBA	15.281	15.279	0.002	6594031	0.17000	0.1562
5 MCPA	16.444	16.446	-0.002	1896027	34.0000	17.87
6 DICHLOROPROP	17.441	17.443	-0.002	2763717	0.33900	0.2895
7 2,4-D	19.076	19.080	-0.004	4927662	0.34000	0.3022
8 PENTACHLOROPHENOL	19.987	19.987	0.000	11529327	0.04255	0.04275
9 2,4,5-TP(SILVEK)	20.392	20.392	0.000	27990515	0.08400	0.08120
10 2,4,5-T	21.169	21.168	0.001	24648917	0.08440	0.08215
11 DINOSEB	21.485	21.485	0.000	11805974	0.05080	0.04794
12 2,4-DB	21.638	21.638	0.000	11462607	0.33800	0.3140

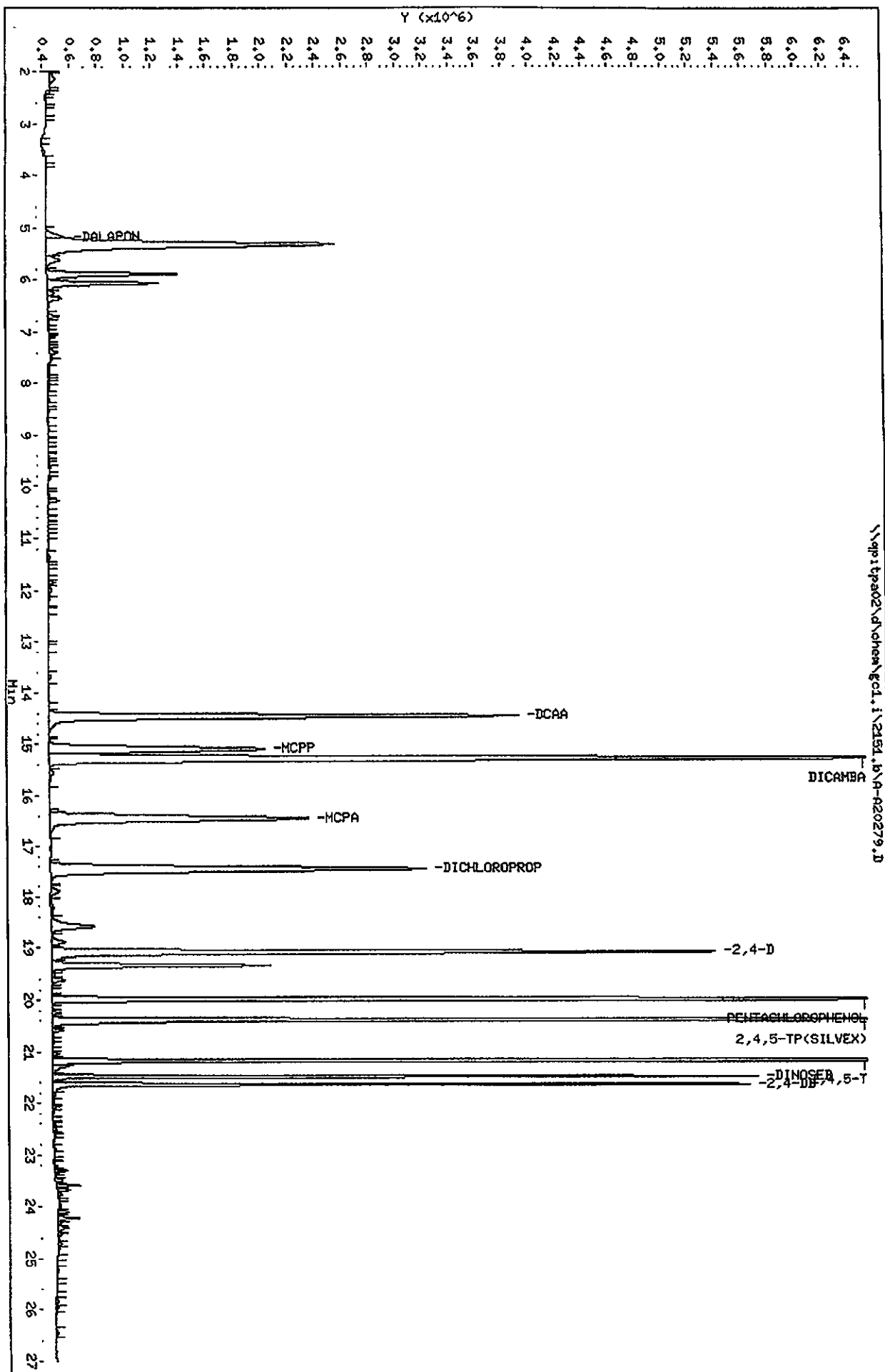
QC Flag Legend

M - Compound response manually integrated.

680 664

Data File: \\pittpa02\chem\ecol.1\2151.b\A-A20279.D
 Date: 15-MAR-2001 18:34
 Client ID:
 Sample Info: HHERB, 2151.b
 Column phase: RTX-50

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



Data File Name: A-A20279.D

Inj Date and Time 15-MAR-2001 18:34

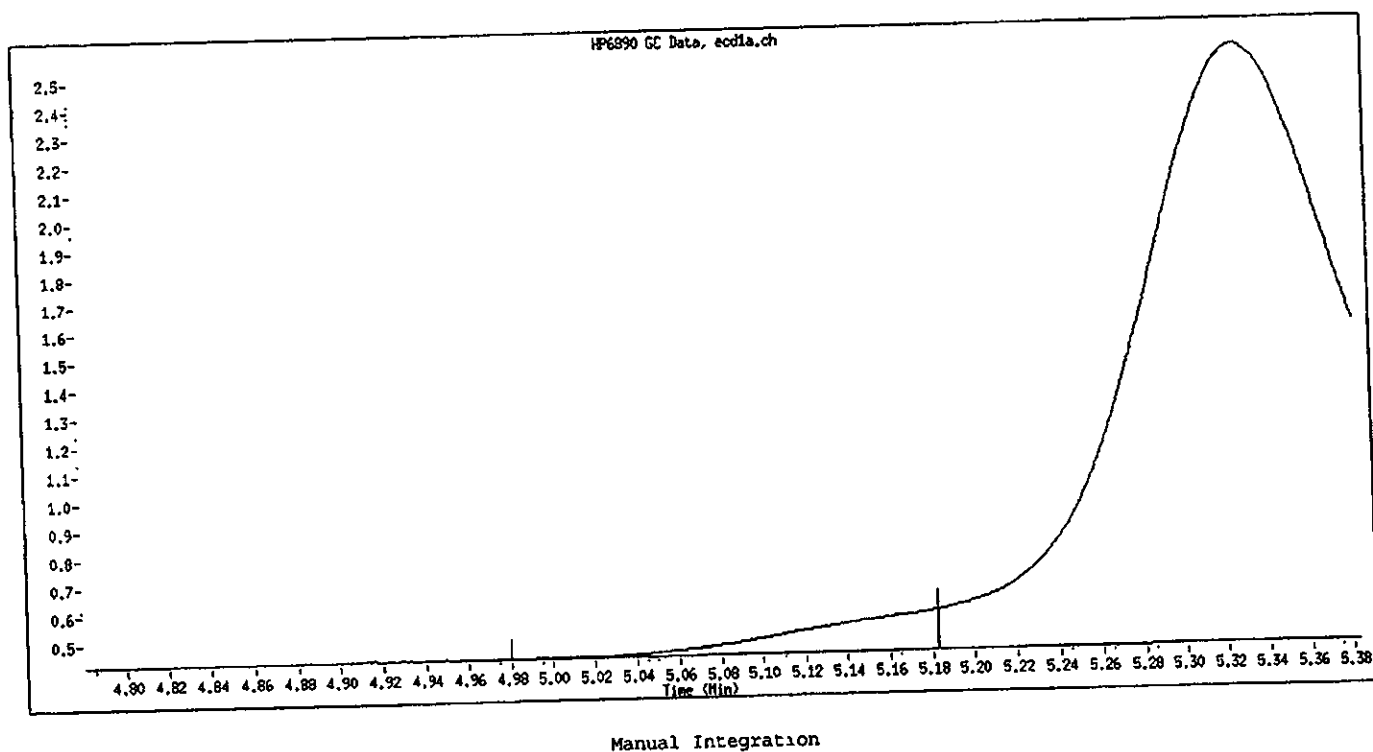
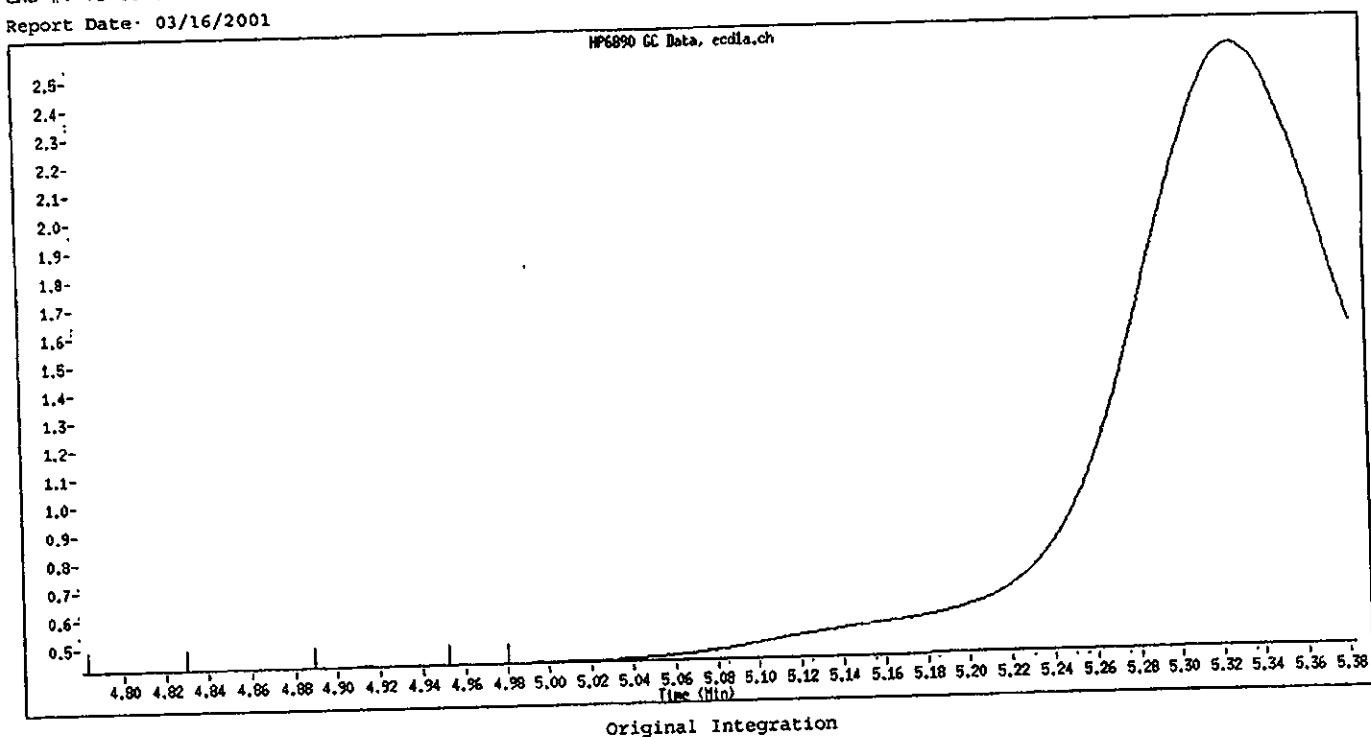
Instrument ID: gcl 1

Client ID:

Compound Name: DALAPON

CAS #: 75-99-0

Report Date: 03/16/2001



Manually Integrated By MorganW

Manual Integration Reason Poor Chromatography

680 666

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20280.D
Report Date: 16-Mar-2001 10:08

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20280.D
Lab Smp Id: 2ND HERB
Inj Date : 15-MAR-2001 19:05
Operator : 010139
Smp Info : 2ND HERB,2151.b
Misc Info : 190-119-8
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 16-Mar-2001 10:05 MorganW
Cal Date : 15-MAR-2001 18:34
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20279.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.328	5.328	0.000	296238	0.04390	0.03344 (M) 83%
\$ 2 DCAA	14.465	14.463	0.002	829191	0.08510	0.01326
3 MCPP	15.094	15.097	-0.003	691346	8.52000	7.704 96%
4 DICAMBA	15.280	15.279	0.001	1662419	0.04250	0.03939 98%
5 MCPA	16.444	16.446	-0.002	814425	8.56000	7.676 96%
6 DICHLOROPROP	17.446	17.443	0.003	394977	0.08480	0.04138 103%
7 2,4-D	19.078	19.080	-0.002	712369	0.08510	0.04369 108%
8 PENTACHLOROPHENOL	19.987	19.987	0.000	2803571	0.01064	0.01039 100%
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	12867023	0.02110	0.03732 73%
10 2,4,5-T	21.168	21.168	0.000	11578598	0.02110	0.03859 95%
11 DINOSEB	21.484	21.485	-0.001	9041943	0.01270	0.03672 90%
12 2,4-DB	21.639	21.638	0.001	1497903	0.08450	0.04103 103%

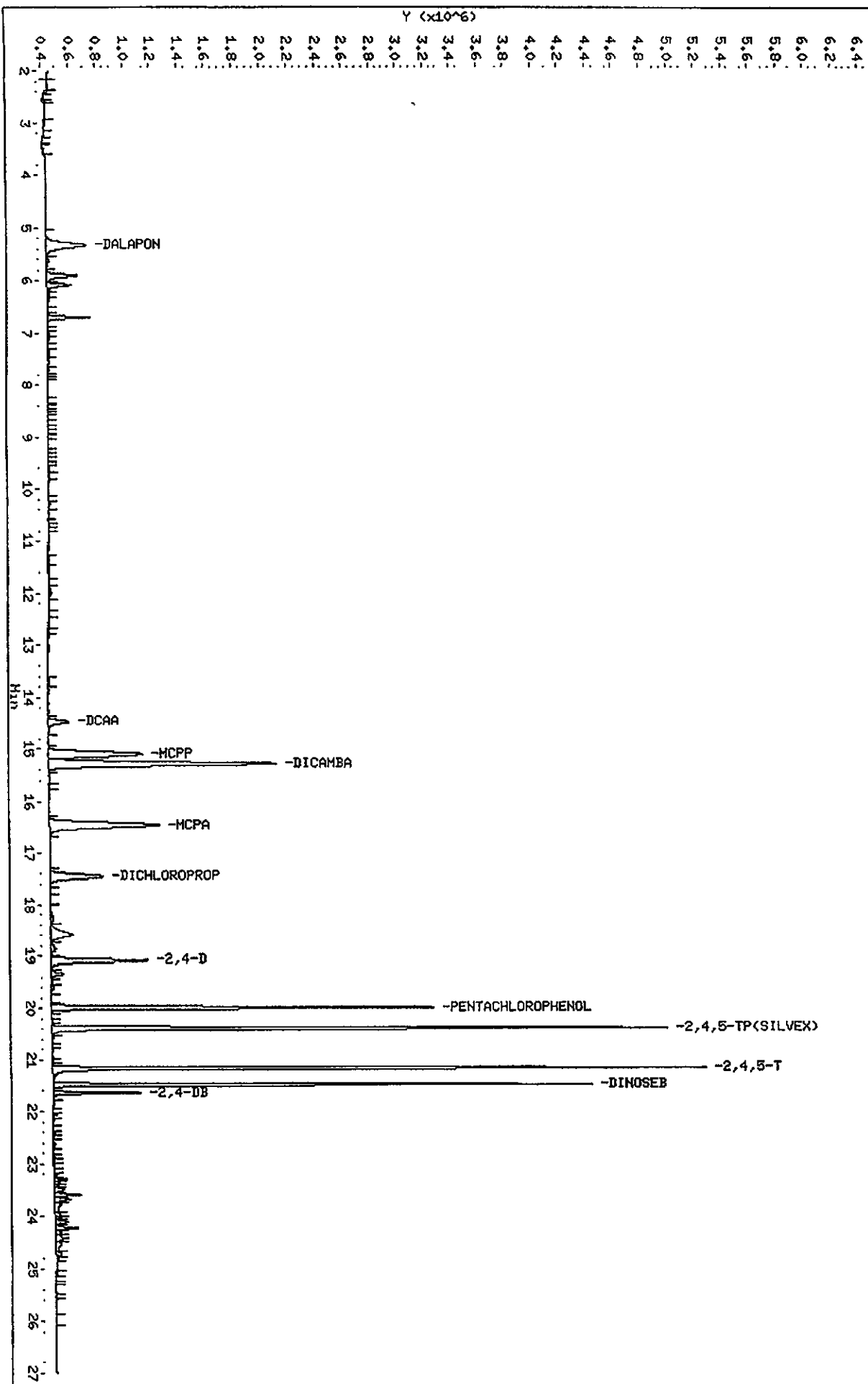
QC Flag Legend

M - Compound response manually integrated.

Data File: \\qjtpa02\chem\col.i\2151.b\A-A20280.D
Date: 15-MAR-2001 19:05
Client ID:
Sample Info: 2ND HERB, 2151.b
Column phase: RTX-50

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

\\qjtpa02\chem\col.i\2151.b\A-A20280.D



680 668

Data File Name: A-A20280.D

Inj Date and Time 15-MAR-2001 19:05

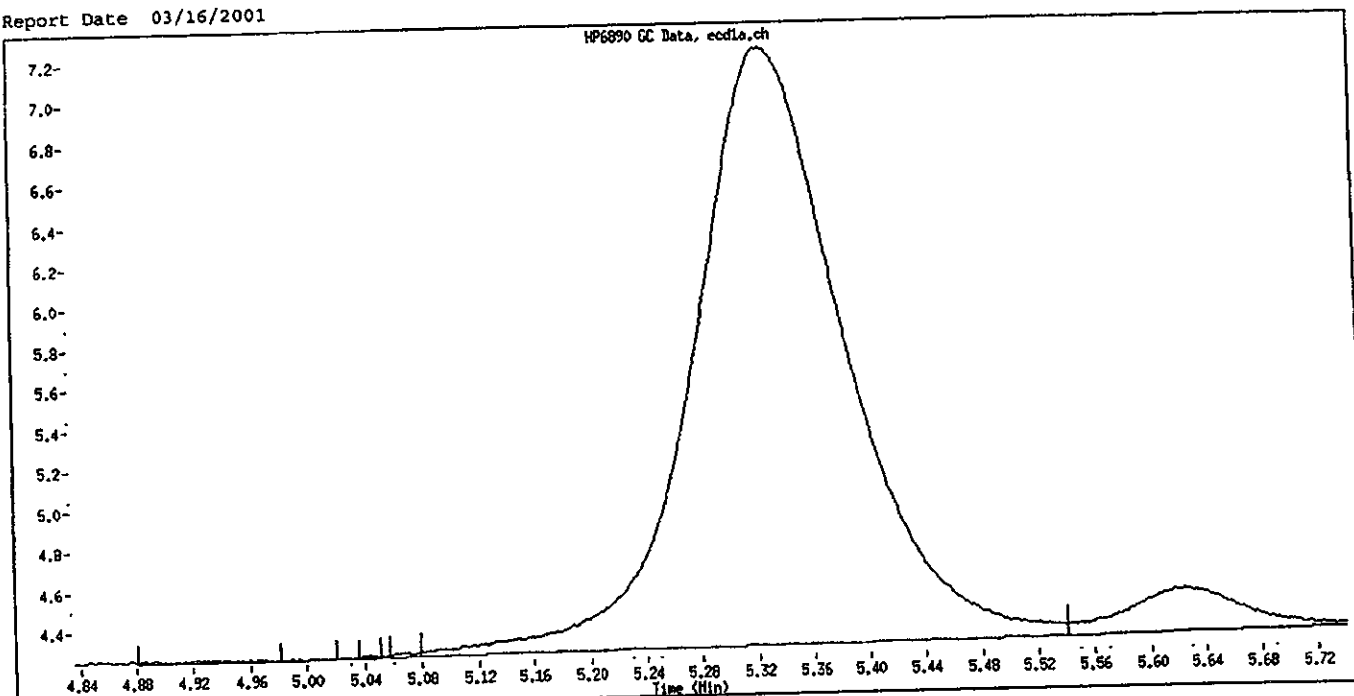
Instrument ID gcl i

Client ID

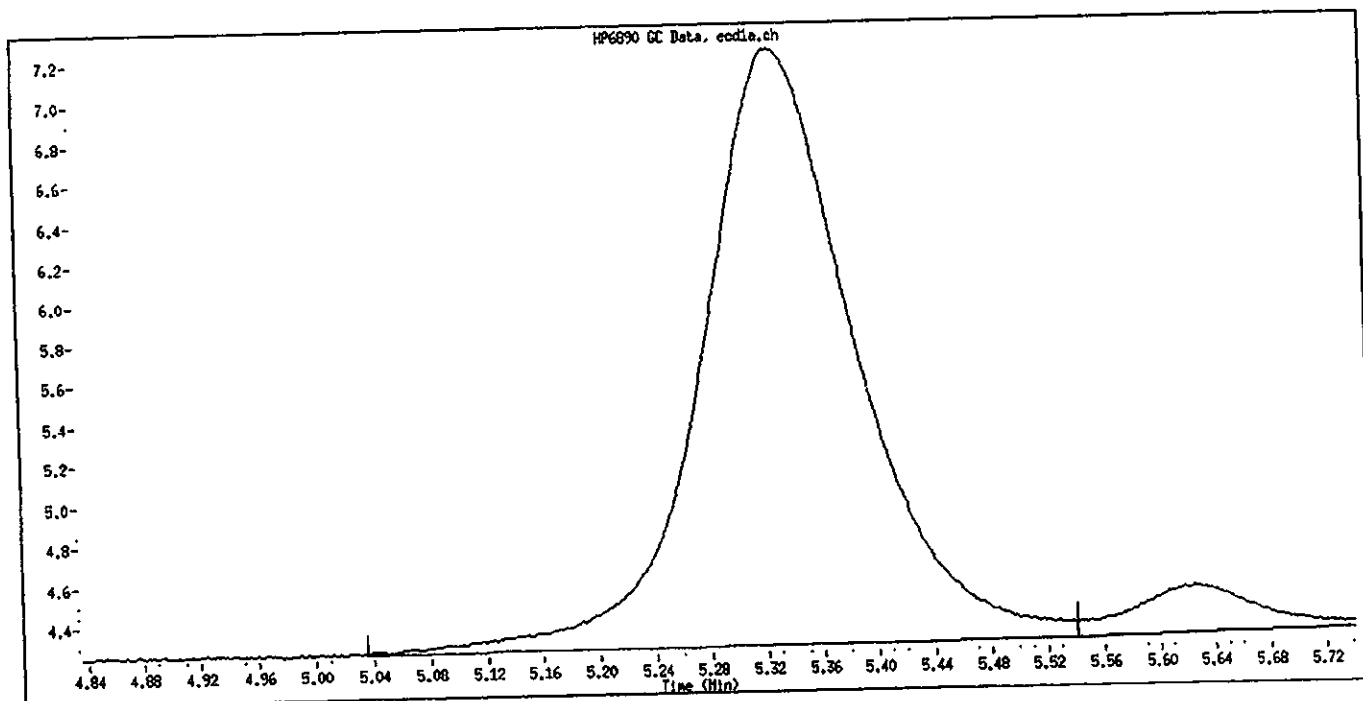
Compound Name: DALAPON

CAS #: 75-99-0

Report Date 03/16/2001



Original Integration



Manual Integration

Manually Integrated By: MorganW

Manual Integration Reason Unknown

Assign Peak
unw
3-16-01

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20349.D
Report Date: 27-Mar-2001 14:00

680 669

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20349.D
Lab Smp Id: MHERB
Inj Date : 27-MAR-2001 09:33
Operator : 010139
Smp Info : MHERB,2151.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 27-Mar-2001 14:00 morganw
Cal Date : 15-MAR-2001 18:34
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20279.D
Continuing Calibration Sample
Compound Sublist: all.sub

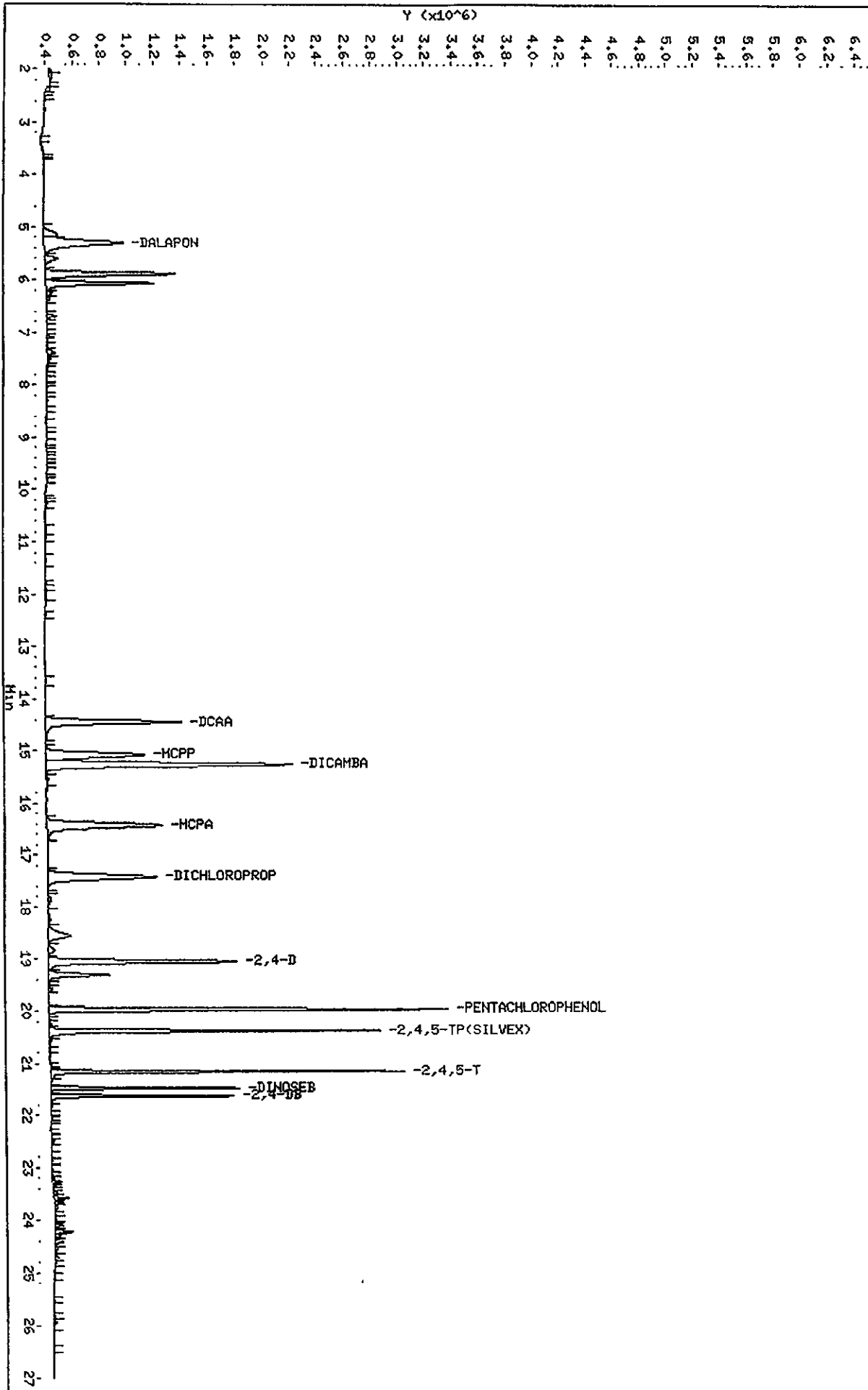
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.314	5.314	0.000	582617	0.04390	0.04365
\$ 2 DCAA	14.450	14.450	0.000	5330124	0.08510	0.08522
3 MCPP	15.082	15.082	0.000	725634	8.52000	8.086
4 DICAMBA	15.263	15.263	0.000	1793444	0.04250	0.04249
5 MCPA	16.425	16.425	0.000	844699	8.56000	7.962
6 DICHLOROPROP	17.423	17.423	0.000	802963	0.08480	0.08411
7 2,4-D	19.066	19.066	0.000	1378776	0.08510	0.08457
8 PENTACHLOROPHENOL	19.977	19.977	0.000	2915318	0.01064	0.01081
9 2,4,5-TP(SILVEX)	20.384	20.384	0.000	7233104	0.02110	0.02098
10 2,4,5-T	21.162	21.162	0.000	6319813	0.02110	0.02106
11 DINOSEB	21.478	21.478	0.000	3119068	0.01270	0.01267
12 2,4-DB	21.632	21.632	0.000	3099957	0.08450	0.08491

689 670

Data File: \\qpltpa02\chem\col.1\2151.b\A-A20349.D
 Date : 27-Mar-2001 09:33
 Client ID:
 Sample Info: HHERB,2151.b
 Column phase: RTX-50

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

\\qpltpa02\chem\col.1\2151.b\A-A20349.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20365.D
Report Date: 28-Mar-2001 09:19

680 671

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20365.D
Lab Smp Id: MHERB
Inj Date : 27-MAR-2001 17:53
Operator : 010139
Smp Info : MHERB,2151.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 28-Mar-2001 07:04 MorganW
Cal Date : 15-MAR-2001 18:34
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20279.D
Continuing Calibration Sample
Compound Sublist: all.sub

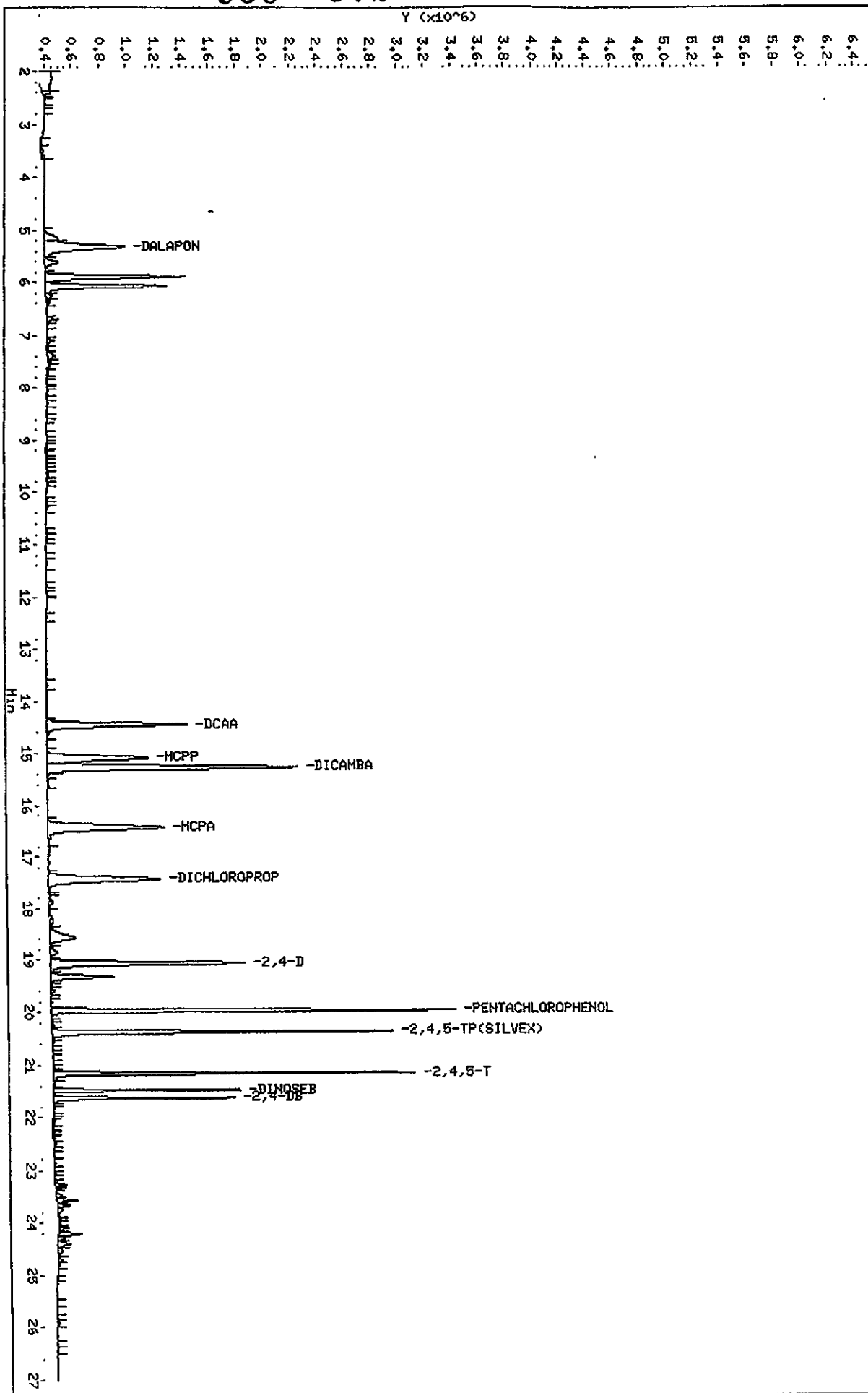
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.317	5.314	0.003	595568	0.04390	0.04462
\$ 2 DCAA	14.449	14.450	-0.001	5400963	0.08510	0.08635
3 MCPP	15.082	15.082	0.000	737405	8.52000	8.218
4 DICAMBA	15.263	15.263	0.000	1828551	0.04250	0.04333
5 MCPA	16.428	16.425	0.003	851265	8.56000	8.024
6 DICHLOROPROP	17.423	17.423	0.000	820641	0.08480	0.08596
7 2,4-D	19.067	19.066	0.001	1415820	0.08510	0.08684
8 PENTACHLOROPHENOL	19.978	19.977	0.001	2963244	0.01064	0.01099
9 2,4,5-TP(SILVEX)	20.384	20.384	0.000	7409039	0.02110	0.02149
10 2,4,5-T	21.161	21.162	-0.001	6446535	0.02110	0.02148
11 DINOSEB	21.477	21.478	-0.001	3102073	0.01270	0.01260
12 2,4-DB	21.631	21.632	-0.001	3006256	0.08450	0.08235

680 672

Data File: \\qpltpa02\chem\g01.i\2151.b\A-620365.D
 Date : 27-MAR-2001 17:53
 Client ID:
 Sample Info: HHERB,2151.b
 Column phase: RTX-50

Instrument: g01.i
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\g01.i\2151.b\A-620365.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20383.D
Report Date: 28-Mar-2001 09:19

680 673

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20383.D
Lab Smp Id: MHERB
Inj Date : 28-MAR-2001 03:14
Operator : 010139
Smp Info : MHERB,2151.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 28-Mar-2001 07:04 MorganW
Cal Date : 15-MAR-2001 18:34
Als bottle: 36
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

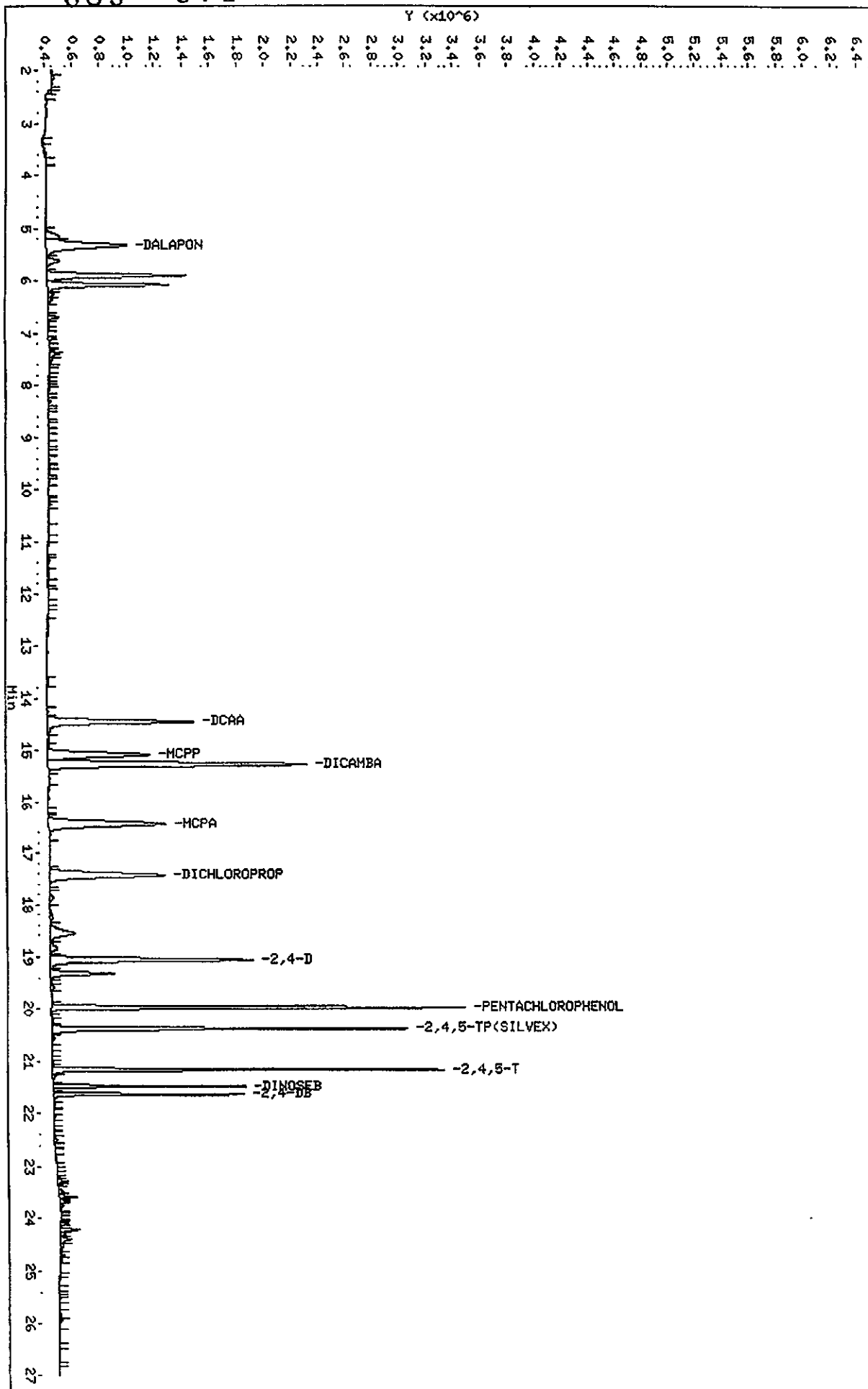
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20279.D
Continuing Calibration Sample
Compound Sublist: all.sub

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	5.319	5.314	0.005	592538	0.04390	0.04440
\$ 2 DCAA	14.445	14.450	-0.005	5559157	0.08510	0.08888
3 MCPP	15.079	15.082	-0.003	746010	8.52000	8.314
4 DICAMBA	15.260	15.263	-0.003	1881834	0.04250	0.04459
5 MCPA	16.421	16.425	-0.004	861171	8.56000	8.117
6 DICHLOROPROP	17.419	17.423	-0.004	851474	0.08480	0.08920
7 2,4-D	19.064	19.066	-0.002	1481838	0.08510	0.09089
8 PENTACHLOROPHENOL	19.975	19.977	-0.002	3027184	0.01064	0.01122
9 2,4,5-TP(SILVEX)	20.382	20.384	-0.002	7670234	0.02110	0.02225
10 2,4,5-T	21.159	21.162	-0.003	6762207	0.02110	0.02254
11 DINOSEB	21.476	21.478	-0.002	3185271	0.01270	0.01294
12 2,4-DB	21.630	21.632	-0.002	3160973	0.08450	0.08658

Data File: \\pp1tpa02\chem\gcl.1\2151.b\A-020383.D
 Date: 28-Mar-2004 03:14
 Client ID:
 Sample Info: MHERB,2151.b
 Column Phase: RTX-50

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

\\pp1tpa02\chem\gcl.1\2151.b\A-020383.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20385.D
 Report Date: 28-Mar-2001 12:58

680 675

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20385.D
 Lab Smp Id: MHERB
 Inj Date : 28-MAR-2001 09:55
 Operator : 010139
 Smp Info : MHERB,2151.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 28-Mar-2001 12:58 MorganW
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20279.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

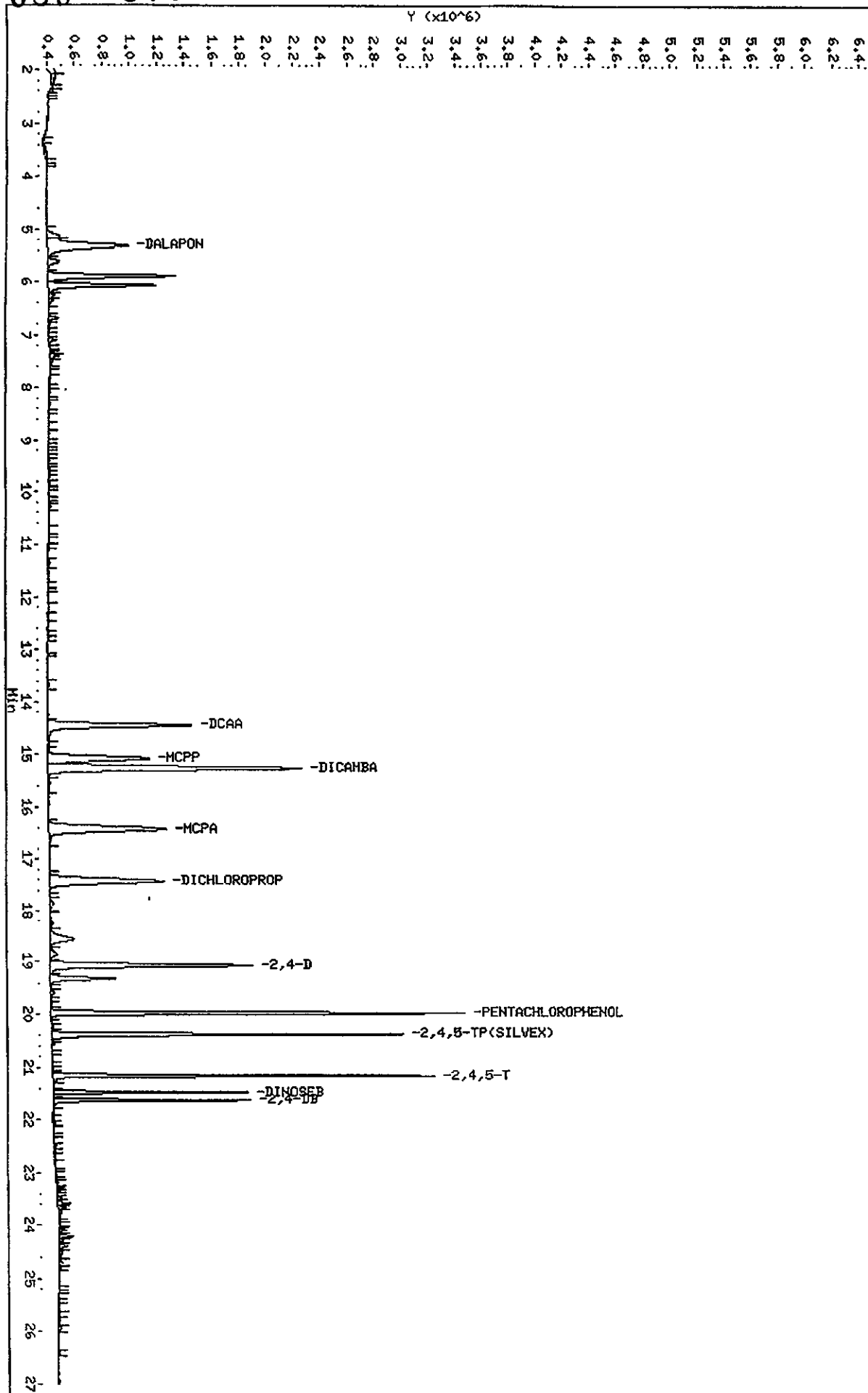
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.312	5.312	0.000	589497	0.04390	0.04417
2 DCAA	14.445	14.445	0.000	5492316	0.08510	0.08781
3 MCPP	15.080	15.080	0.000	739660	8.52000	8.243
4 DICAMBA	15.262	15.262	0.000	1846923	0.04250	0.04376
5 MCPA	16.424	16.424	0.000	857954	8.56000	8.087
6 DICHLOROPROP	17.419	17.419	0.000	836507	0.08480	0.08763
7 2,4-D	19.066	19.066	0.000	1472201	0.08510	0.09030
8 PENTACHLOROPHENOL	19.976	19.976	0.000	3014182	0.01064	0.01118
9 2,4,5-TP(SILVEX)	20.383	20.383	0.000	7587639	0.02110	0.02201
10 2,4,5-T	21.160	21.160	0.000	6699685	0.02110	0.02233
11 DINOSEB	21.476	21.476	0.000	3204079	0.01270	0.01301
12 2,4-DB	21.630	21.630	0.000	3282175	0.08450	0.08990

680 676

Data File: \\ppitp02\chem\gcl.1\2151.b\A-A20385.D
Date: 28-MAR-2001 09:55
Client ID:
Sample Info: HHERB,2151.b
Column phase: RTX-50

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

\\ppitp02\chem\gcl.1\2151.b\A-A20385.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20389.D
Report Date: 28-Mar-2001 12:59

680 677

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Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20389.D
Lab Smp Id: MHERB
Inj Date : 28-MAR-2001 12:00
Operator : 010139
Smp Info : MHERB,2151.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 28-Mar-2001 12:58 MorganW
Cal Date : 15-MAR-2001 18:34
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20279.D
Continuing Calibration Sample
Compound Sublist: all.sub

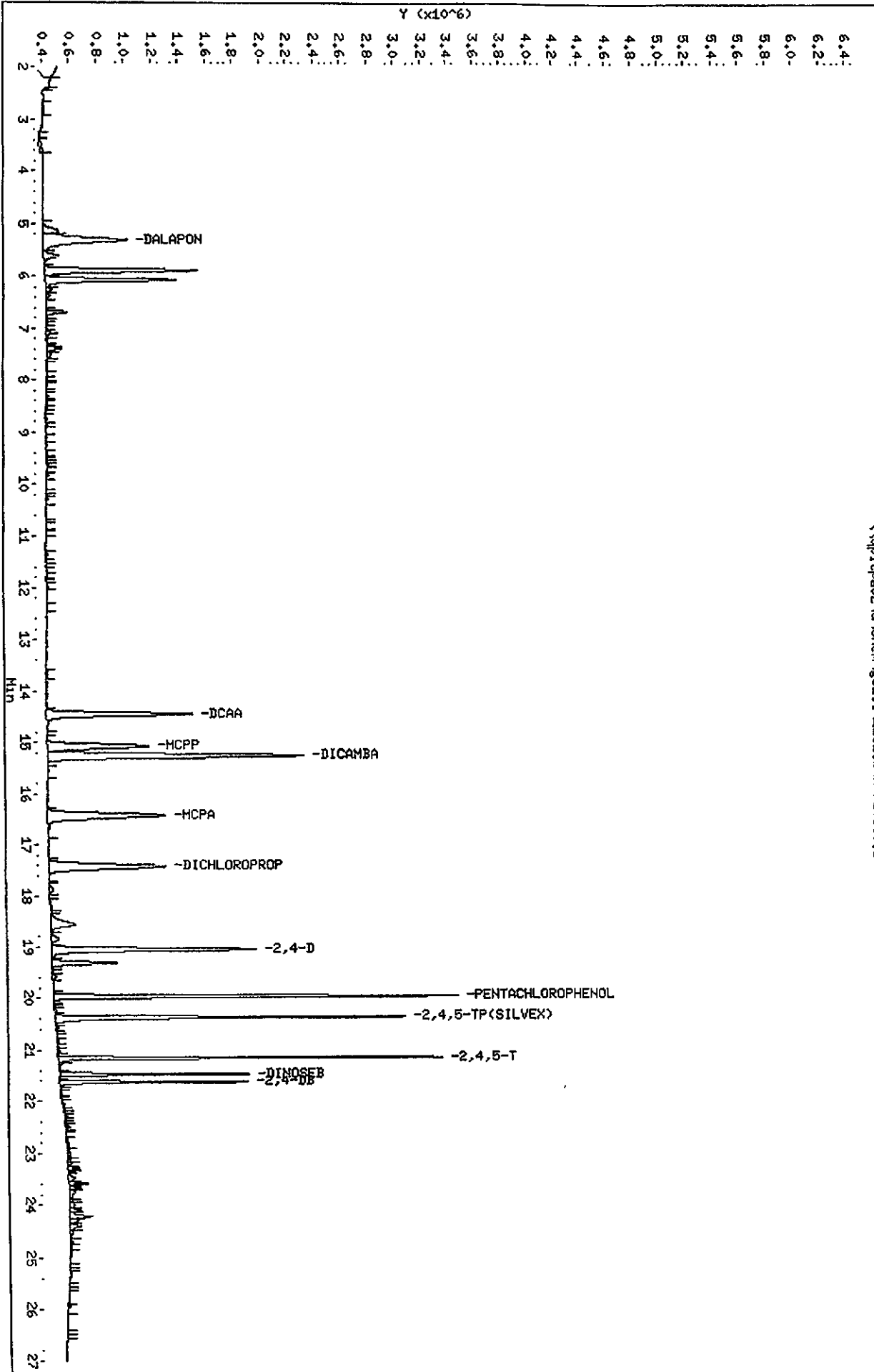
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	..	*****	*****	*****	*****	*****
1 DALAPON	5.315	5.312	0.003	613010	0.04390	0.04593
\$ 2 DCAA	14.448	14.445	0.003	5568299	0.08510	0.08903
3 MCPP	15.079	15.080	-0.001	741387	8.52000	8.262
4 DICAMBA	15.263	15.262	0.001	1883529	0.04250	0.04463
5 MCPA	16.427	16.424	0.003	859463	8.56000	8.101
6 DICHLOROPROP	17.424	17.419	0.005	852503	0.08480	0.08930
7 2,4-D	19.064	19.066	-0.002	1495432	0.08510	0.09172
8 PENTACHLOROPHENOL	19.976	19.976	0.000	2985842	0.01064	0.01107
9 2,4,5-TP(SILVEX)	20.382	20.383	-0.001	7610685	0.02110	0.02208
10 2,4,5-T	21.159	21.160	-0.001	6734784	0.02110	0.02244
11 DINOSEB	21.477	21.476	0.001	3142251	0.01270	0.01276
12 2,4-DB	21.631	21.630	0.001	3078453	0.08450	0.08432

680 678

Data File: \\p1tpa02\chem\gc1.1\2151.b\A-A20389.D
 Date: 28-MAR-2001 12:00
 Client ID:
 Sample Info: MHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

\\p1tpa02\chem\gc1.1\2151.b\A-A20389.D



Report Date : 27-Mar-2001 12:36

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COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 27-Mar-2001 12:34 Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 1018.000000
Initial:End Threshold 509.000000
Initial:Area Threshold 10180.000000
Initial:P-P Resolution 1.000000
Initial:Bunch Factor 8.000000
Initial:Negative Peaks ON
Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	5.080	5.010-5.150	1.08e+007
\$ 2 DCAA	13.087	13.017-13.157	4.65e+007
3 DICAMBA	13.681	13.611-13.751	4.07e+007
4 MCPP	14.128	14.058-14.198	3.72e+004
5 MCPA	15.000	14.930-15.070	5.06e+004
6 DICHLOROPROP	16.144	16.074-16.214	8.52e+006
7 2,4-D	17.632	17.562-17.702	8.63e+006
8 PENTACHLOROPHENOL	18.069	17.999-18.139	1.16e+008
9 2,4,5-TP (SILVEX)	19.769	19.699-19.839	9.17e+007
10 2,4,5-T	20.540	20.470-20.610	9.70e+007
11 2,4-DB	21.119	21.049-21.189	1.45e+007
12 DINOSEB	21.826	21.756-21.896	9.28e+007

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Report Date : 28-Mar-2001 13:07

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STL-Pittsburgh

COMPOUND LISTING

Method file : \\gpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 28-Mar-2001 13:06 Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	1018.000000
Initial:End Threshold	509.000000
Initial:Area Threshold	10180.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	8.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

Compound	RT	RT Window	RF
1 DALAPON	5.077	5.007-5.147	1.08e+007
\$ 2 DCAA	13.084	13.014-13.154	4.65e+007
3 DICAMBA	13.681	13.611-13.751	4.07e+007
4 MCPP	14.124	14.054-14.194	3.72e+004
5 MCPA	14.999	14.929-15.069	5.06e+004
6 DICHLOROPROP	16.140	16.070-16.210	8.52e+006
7 2,4-D	17.628	17.558-17.698	8.63e+006
8 PENTACHLOROPHENOL	18.066	17.996-18.136	1.16e+008
9 2,4,5-TP (SILVEX)	19.767	19.697-19.837	9.17e+007
10 2,4,5-T	20.538	20.468-20.608	9.70e+007
11 2,4-DB	21.118	21.048-21.188	1.45e+007
12 DINOSEB	21.825	21.755-21.895	9.28e+007

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680 681

Report Date : 16-Mar-2001 07:53

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2001 17:00
End Cal Date : 15-MAR-2001 19:05
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Cal Date : 16-Mar-2001 07:52 MorganW
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
Level 2: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
Level 3: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
Level 4: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
Level 5: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20280.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 DALAPON	11814727	10995045	10692118	10189715	10078807	10754083	6.511
3 DICAMBA	44748208	41717700	41239035	38665429	37207882	40715651	7.166
4 MCPP	54410	41776	34982	29082	25928	37235	30.473
5 MCPA	71727	55980	47808	40127	37151	50558	27.507
6 DICHLOROPROP	9833679	8976274	8627665	7824612	7326516	8517749	11.523
7 2,4-D	9102085	8752706	8892949	8347529	8034274	8625909	4.992
8 PENTACHLOROPHENOL	116801504	112681391	118291353	114317293	115624489	115543206	1.878
9 2,4,5-TP(SILVEX)	96700000	92417429	92457109	89559264	87267619	91680284	3.868
10 2,4,5-T	95448767	93322571	99955118	97740995	98428661	96979223	2.691
11 2,4-DB	14580237	13997417	14571373	14325959	15008547	14496707	2.565
12 DINOSEB	95671609	90806457	93230236	91787520	92714094	92841983	1.974
\$ 2 DCAA	54031221	49824753	47115969	42031153	39652500	46531119	12.485

AVG RSD = 9.5%

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Hp 68901B

081701

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20383.D
 Report Date: 27-Mar-2001 12:33

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 27-MAR-2001 10:05
 Lab File ID: A-B20383.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 17:00 19:05
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN	%D	MAX
1 DALAPON	10754083	9883827	0.010	-8.1	15.0
\$ 2 DCAA	46531119	43767168	0.010	-5.9	15.0
3 DICAMBA	40715651	39404659	0.010	-3.2	15.0
4 MCPP	37235	36153	0.010	-2.9	15.0
5 MCPA	50558	48179	0.010	-4.7	15.0
6 DICHLOROPROP	8517749	8175436	0.010	-4.0	15.0
7 2,4-D	8625909	8394536	0.010	-2.7	15.0
8 PENTACHLOROPHENOL	115543206	109381861	0.010	-5.3	15.0
9 2,4,5-TP(SILVEX)	91680284	88762038	0.010	-3.2	15.0
10 2,4,5-T	96979223	93481422	0.010	-3.6	15.0
11 2,4-DB	14496707	13955775	0.010	-3.7	15.0
12 DINOSEB	92841983	92694646	0.010	-0.2	15.0

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20399.D
 Report Date: 28-Mar-2001 06:22

683 683

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 Hp 6890 1B.
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STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 27-MAR-2001 18:24
 Lab File ID: A-B20399.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 17:00 19:05
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
1 DALAPON	10754083	10613144	0.010	-1 3 15 0
2 DCAA	46531119	45524242	0.010	-2.2 15.0
3 DICAMBA	40715651	40915882	0.010	0 5 15.0
4 MCPP	37235	36464	0.010	-2 1 15.0
5 MCPA	50558	48958	0.010	-3.2 15.0
6 DICHLOROPROP	8517749	8539292	0.010	0.3 15.0
7 2,4-D	8625909	8834830	0.010	2.4 15 0
8 PENTACHLOROPHENOL	115543206	114752726	0.010	-0 7 15.0
9 2,4,5-TP(SILVEX)	91680284	91829431	0.010	0 2 15.0
10 2,4,5-T	96979223	98927867	0 010	2 0 15 0
11 2,4-DB	14496707	13949669	0.010	-3.8 15 0
12 DINOSEB	92841983	95314724	0 010	2 7 15 0

680 684

Data File: \\qpitpa02\d\chem\gcl.i\2151A.b\A-B20417.D
 Report Date: 28-Mar-2001 06:28

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 Hp 159018
 081701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl.i Injection Date: 28-MAR-2001 03:45
 Lab File ID: A-B20417.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 17:00 19:05
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gcl.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
1 DALAPON	10754083	10765080	0.010	0.1 15.0
2 DCAA	46531119	46408308	0.010	-0.3 15.0
3 DICAMBA	40715651	42245812	0.010	3.8 15.0
4 MCPP	37235	37313	0.010	0.2 15.0
5 MCPA	50558	49652	0.010	-1.8 15.0
6 DICHLOROPROP	8517749	8726580	0.010	2.5 15.0
7 2,4-D	8625909	9324348	0.010	8.1 15.0
8 PENTACHLOROPHENOL	115543206	116369925	0.010	0.7 15.0
9 2,4,5-TP (SILVEX)	91680284	95734171	0.010	4.4 15.0
10 2,4,5-T	96979223	106335024	0.010	9.6 15.0
11 2,4-DB	14496707	14682047	0.010	1.3 15.0
12 DINOSEB	92841983	98597402	0.010	6.2 15.0

680 685

7E
HPLC 101B
DB/701Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20420.D
Report Date: 28-Mar-2001 13:06

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 28-MAR-2001 10:26
 Lab File ID: A-B20420.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 17:00 19:05
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFD	MIN	MAX
1 DALAPON	10754083	10365194	0.010	-3.6 15.0
2 DCAA	46531119	44907427	0.010	-3.5 15.0
3 DICAMBA	40715651	40561718	0.010	-0.4 15.0
4 MCPP	37235	36691	0.010	-1.5 15.0
5 MCPA	50558	49048	0.010	-3.0 15.0
6 DICHLOROPROP	8517749	8502040	0.010	-0.2 15.0
7 2,4-D	8625909	8941445	0.010	3.7 15.0
8 PENTACHLOROPHENOL	115543206	112090602	0.010	-3.0 15.0
9 2,4,5-TP(SILVEX)	91680284	92228720	0.010	0.6 15.0
10 2,4,5-T	96979223	100868246	0.010	4.0 15.0
11 2,4-DB	14496707	14911704	0.010	2.9 15.0
12 DINOSEB	92841983	94130472	0.010	1.4 15.0

680 686

Data File: \\qpitpa02\d\chem\gcl.i\2151A.b\A-B20424.D
Report Date: 28-Mar-2001 13:0878
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STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl.i Injection Date: 28-MAR-2001 12:31
Lab File ID: A-B20424.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
Analysis Type: Init. Cal. Times: 17:00 19:05
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gcl.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN		MAX
	RRF	RFO	RRF	%D	%D
1 DALAPON	10754083	10740433	0.010	-0.1	15.0
2 DCAA	46531119	46271962	0.010	-0.6	15.0
3 DICAMBA	40715651	41696659	0.010	2.4	15.0
4 MCPP	37235	36830	0.010	-1.1	15.0
5 MCPA	50558	49282	0.010	-2.5	15.0
6 DICHLOROPROP	8517749	8749481	0.010	2.7	15.0
7 2,4-D	8625909	9289177	0.010	7.7	15.0
8 PENTACHLOROPHENOL	115543206	114862218	0.010	-0.6	15.0
9 2,4,5-TP(SILVEX)	91680284	95216588	0.010	3.9	15.0
10 2,4,5-T	96979223	105581185	0.010	8.9	15.0
11 2,4-DB	14496707	14467740	0.010	-0.2	15.0
12 DINOSEB	92841983	97103465	0.010	4.6	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

680 687

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C220173

GC Column: DB1701

ID: 0.53 (mm) Init. Calib. Date(s): 03/15/01 03/15/01

Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 13.08					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	LHERB	03/15/01	1700	13.10	
02	MLHERB	03/15/01	1731	13.10	
03	MHERB	03/15/01	1803	13.10	
04	MHHERB	03/15/01	1834	13.10	
05	HHERB	03/15/01	1905	13.09	
06	2ND HERB	03/15/01	1937	13.10	
07	MHERB	03/27/01	1005	13.09	
08	MHERB	03/27/01	1824	13.09	
09	PBLK2391 DXWV51AA	03/27/01	2131	13.09	
10	MHERB	03/28/01	0345	13.09	
11	MHERB	03/28/01	1026	13.08	
12	DF/24-B/1080 DXRH21CC	03/28/01	1128	13.13	
13	DF/24-B/1080 DXRKF1CC	03/28/01	1200	13.13	
14	MHERB	03/28/01	1231	13.09	
15					
16					
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28					
29					
30					
31					
32					

S1 = DCAA

QC LIMITS
(+/- 0.07 MINUTES)

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

680 688

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
 Report Date: 16-Mar-2001 07:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
 Lab Smp Id: LHERB
 Inj Date : 15-MAR-2001 17:00
 Operator : 010139
 Smp Info : LHERB,2151A.b
 Misc Info : 190-107-1
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 17:00
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20276.D
 Calibration Sample, Level: 1
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.085	5.095	-0.010	129962	0.01100	0.01100
\$ 2 DCAA	13.095	13.098	-0.003	1150865	0.02130	0.02130
3 DICAMBA	13.687	13.692	-0.005	474331	0.01060	0.01060
4 MCPP	14.135	14.140	-0.005	115349	2.12000	2.120
5 MCPA	15.011	15.016	-0.005	153495	2.14000	2.140
6 DICHLOROPROP	16.152	16.160	-0.008	208474	0.02120	0.02120
7 2,4-D	17.656	17.652	0.004	192054	0.02110	0.02110
8 PENTACHLOROPHENOL	18.079	18.086	-0.007	310692	0.00266	0.002660
9 2,4,5-TP(SILVEX)	19.772	19.775	-0.003	507675	0.00525	0.005250
10 2,4,5-T	20.545	20.546	-0.001	503015	0.00527	0.005270
11 2,4-DB	21.124	21.125	-0.001	307643	0.02110	0.02110
12 DINOSEB	21.828	21.831	-0.003	303279	0.00317	0.003170

Data File: \\pp1tpa02\chem\gc1.i\2151A.b\A-B20276.D

Date: 15-MAR-2001 17:00

Client ID:

Sample Info: LHERB,2151A.b

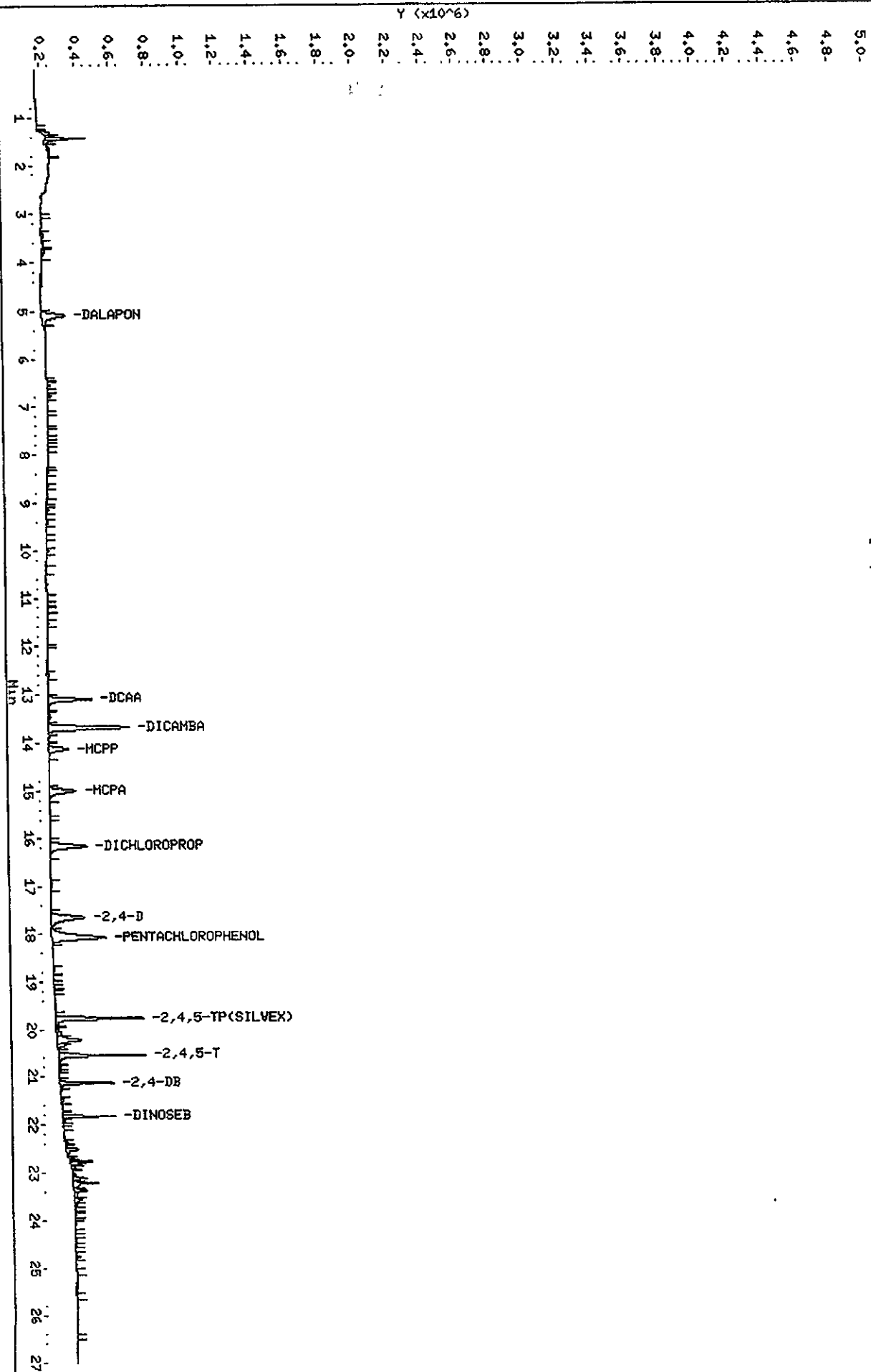
Column phase: DB1701

Instrument: gc1.i

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc1.i\2151A.b\A-B20276.D



680 690

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
 Report Date: 16-Mar-2001 07:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
 Lab Smp Id: MLHERB
 Inj Date : 15-MAR-2001 17:31
 Operator : 010139
 Smp Info : MLHERB,2151A.b
 Misc Info : 190-107-2
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 17:31
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20277.D
 Calibration Sample, Level: 2
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.095	5.095	0.000	241891	0.02200	0.02121
\$ 2 DCAA	13.098	13.098	0.000	2117552	0.04250	0.04078
3 DICAMBA	13.691	13.692	-0.001	888587	0.02130	0.02055
4 MCPP	14.139	14.140	-0.001	177965	4.26000	3.700
5 MCPA	15.014	15.016	-0.002	239594	4.28000	3.752
6 DICHLOROPROP	16.158	16.160	-0.002	380594	0.04240	0.04047
7 2,4-D	17.653	17.652	0.001	371990	0.04250	0.04167
8 PENTACHLOROPHENOL	18.085	18.086	-0.001	599465	0.00532	0.005224
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	970383	0.01050	0.01026
10 2,4,5-T	20.547	20.546	0.001	979887	0.01050	0.01038
11 2,4-DB	21.126	21.125	0.001	590691	0.04220	0.04134
12 DINOSEB	21.830	21.831	-0.001	576621	0.00635	0.006184

Data File: \\sp1tpa02\chem\gcl.1\2151A.b\A-B20277.D

Date: 15-MAR-2001 17:31

Client ID:

Sample Info: MLHERB,2151A.b

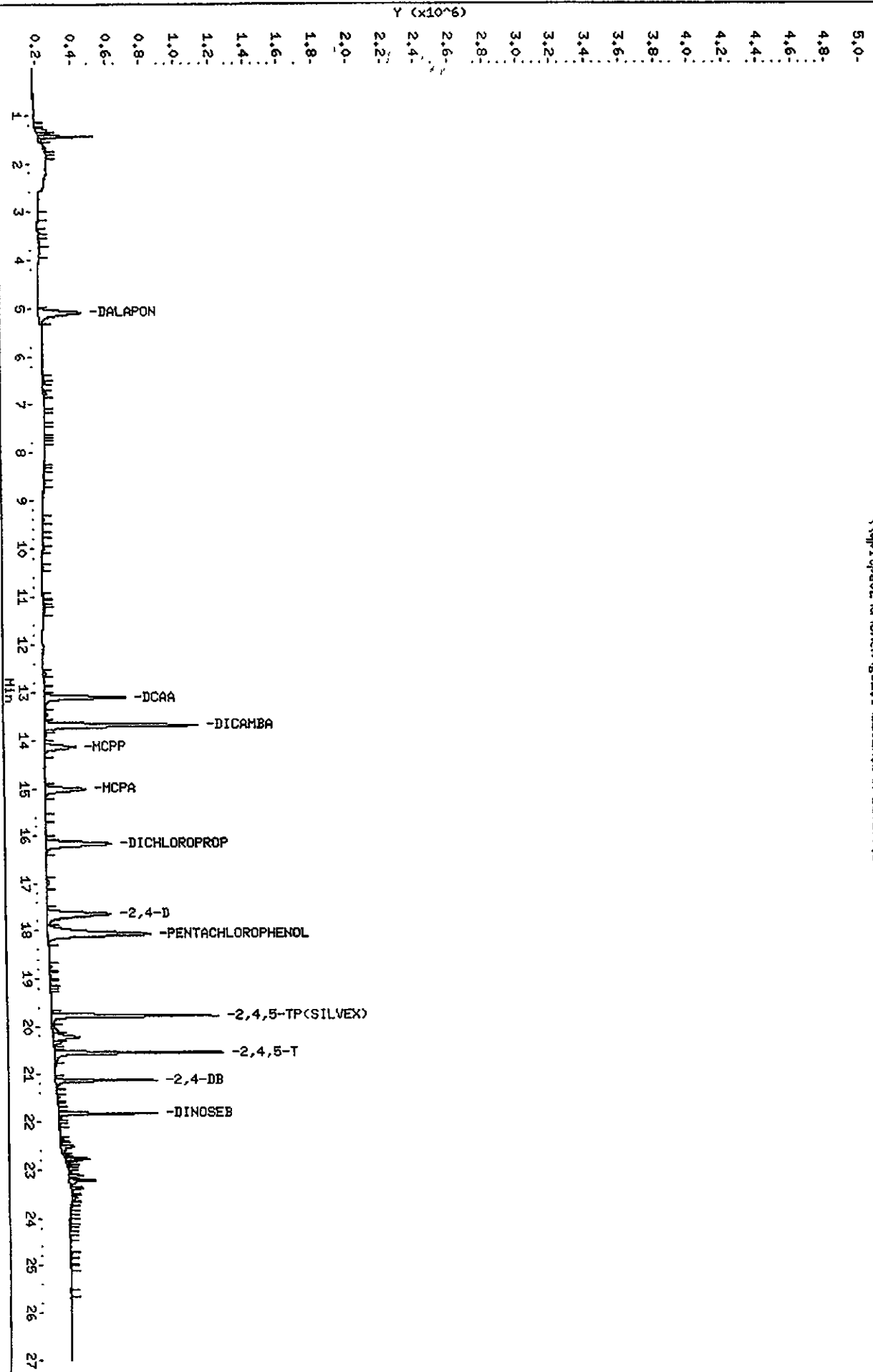
Column phase: DB1.701

Instrument: gcl.1

Operator: 010139

Column diameter: 0.53

\\sp1tpa02\chem\gcl.1\2151A.b\A-B20277.D



680 692

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
 Report Date: 16-Mar-2001 07:54

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
 Lab Smp Id: MHERB
 Inj Date : 15-MAR-2001 18:03
 Operator : 010139
 Smp Info : MHERB,2151A.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 18:03
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20278.D
 Calibration Sample, Level: 3
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	5.095	5.095	0.000	469384	0.04390	0.04203
\$ 2 DCAA	13.098	13.098	0.000	4009569	0.08510	0.07968
3 DICAMBA	13.692	13.692	0.000	1752659	0.04250	0.04117
4 MCPP	14.140	14.140	0.000	298046	8.52000	6.817
5 MCPA	15.016	15.016	0.000	409238	8.56000	6.995
6 DICHLOROPROP	16.160	16.160	0.000	731626	0.08480	0.08000
7 2,4-D	17.652	17.652	0.000	756790	0.08510	0.08488
8 PENTACHLOROPHENOL	18.086	18.086	0.000	1258620	0.01064	0.01086
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	1950845	0.02110	0.02078
10 2,4,5-T	20.546	20.546	0.000	2109053	0.02110	0.02191
11 2,4-DB	21.125	21.125	0.000	1231281	0.08450	0.08561
12 DINOSEB	21.831	21.831	0.000	1184024	0.01270	0.01270

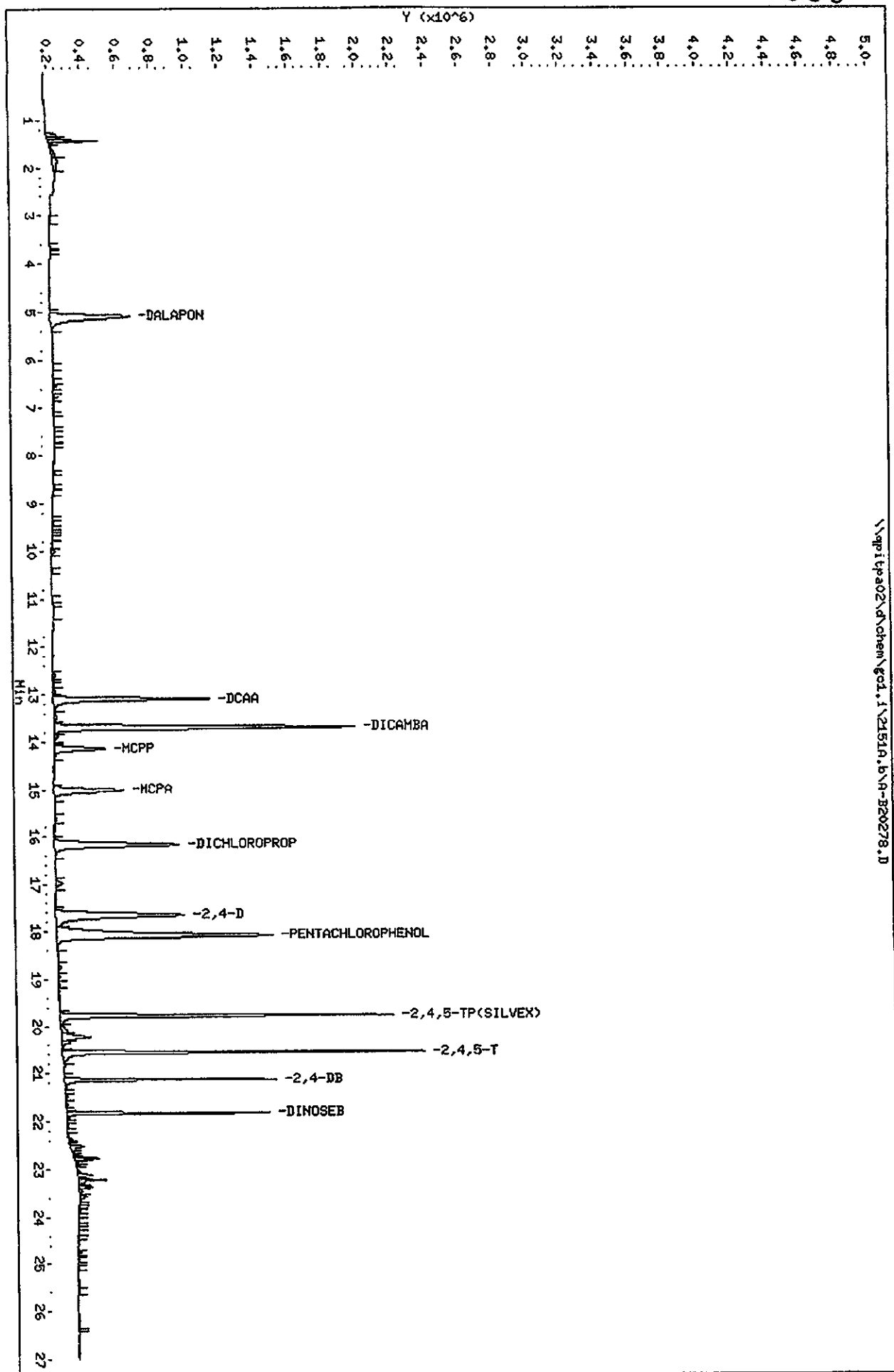
680

693

Data File: \\qpi1p02\chem\g01.1\2151A.b\A-B20278.D
Date: 15-MAR-2001 18:03
Client ID:
Sample Info: MHERB, 2151A.b
Column phase: DB1701

Instrument: g01.1
Operator: 010139
Column diameter: 0.53

\\qpi1p02\chem\g01.1\2151A.b\A-B20278.D



680 694

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
 Report Date: 16-Mar-2001 07:54

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
 Lab Smp Id: MHHERB
 Inj Date : 15-MAR-2001 18:34
 Operator : 010139
 Smp Info : MHHERB,2151A.b
 Misc Info : 190-107-4
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

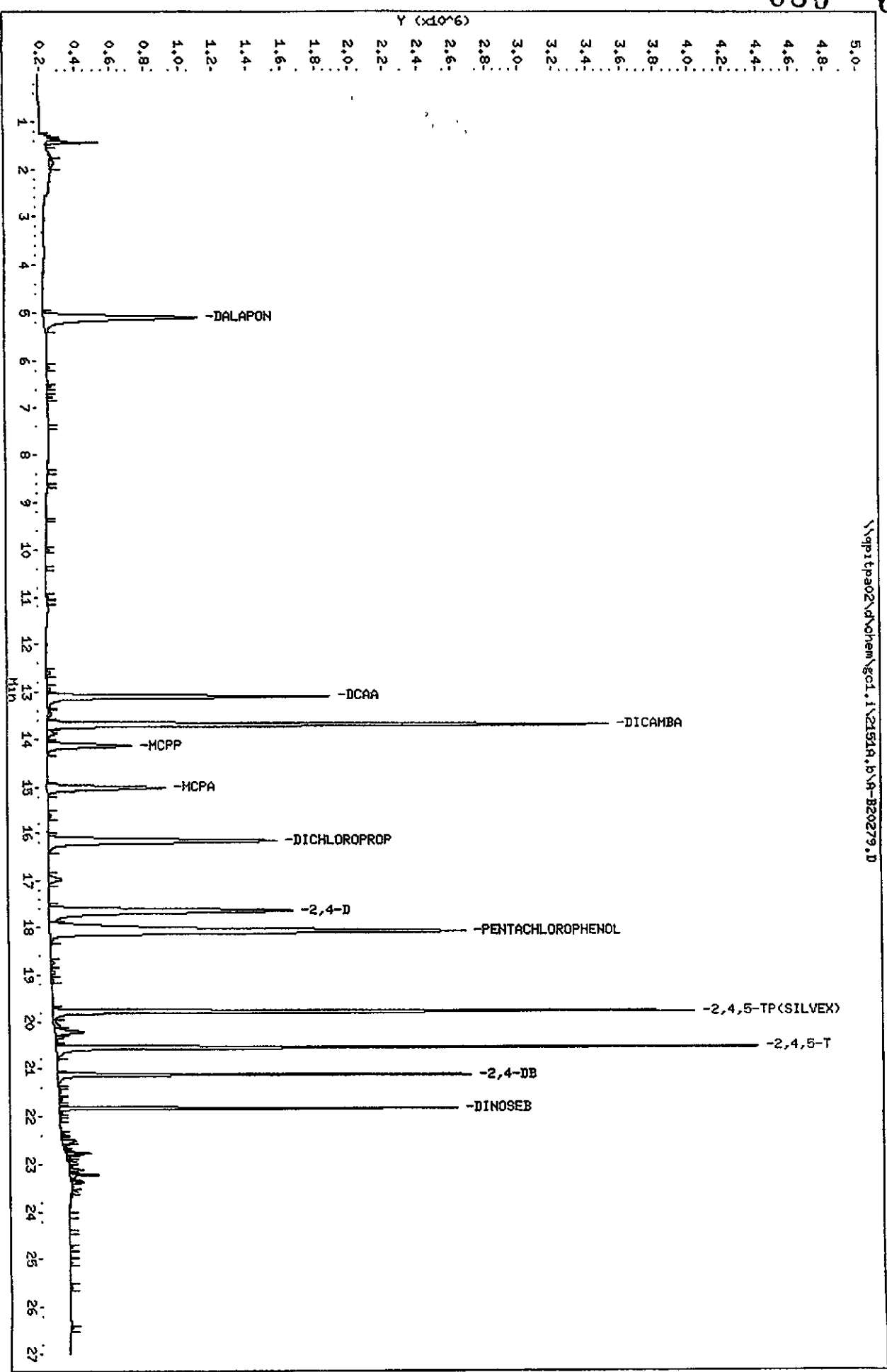
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20279.D
 Calibration Sample, Level: 4
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	5.098	5.095	0.003	894657	0.08780	0.08191
\$ 2 DCAA	13.096	13.098	-0.002	7145296	0.17000	0.1481
3 DICAMBA	13.694	13.692	0.002	3290428	0.08510	0.07911
4 MCPP	14.141	14.140	0.001	494390	17.0000	12.34
5 MCPA	15.016	15.016	0.000	686170	17.1000	12.73
6 DICHLOROPROP	16.158	16.160	-0.002	1330184	0.17000	0.1509
7 2,4-D	17.648	17.652	-0.004	1419080	0.17000	0.1617
8 PENTACHLOROPHENOL	18.085	18.086	-0.001	2432672	0.02128	0.02106
9 2,4,5-TP(SILVEX)	19.776	19.775	0.001	3770445	0.04210	0.04064
10 2,4,5-T	20.545	20.546	-0.001	4124670	0.04220	0.04269
11 2,4-DB	21.124	21.125	-0.001	2421087	0.16900	0.1685
12 DINOSEB	21.831	21.831	0.000	2331403	0.02540	0.02510

Data File: \\ppitpa02\chem\gcl.1\2151A.b\A-B20279.D
 Date: 15-MAR-2001 18:34
 Client ID:
 Sample Info: MHHERB,2151A.b
 Column phase: DB1701

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

\\ppitpa02\chem\gcl.1\2151A.b\A-B20279.D



680 696

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20280.D
 Report Date: 16-Mar-2001 07:54

STL-Pittsburgh

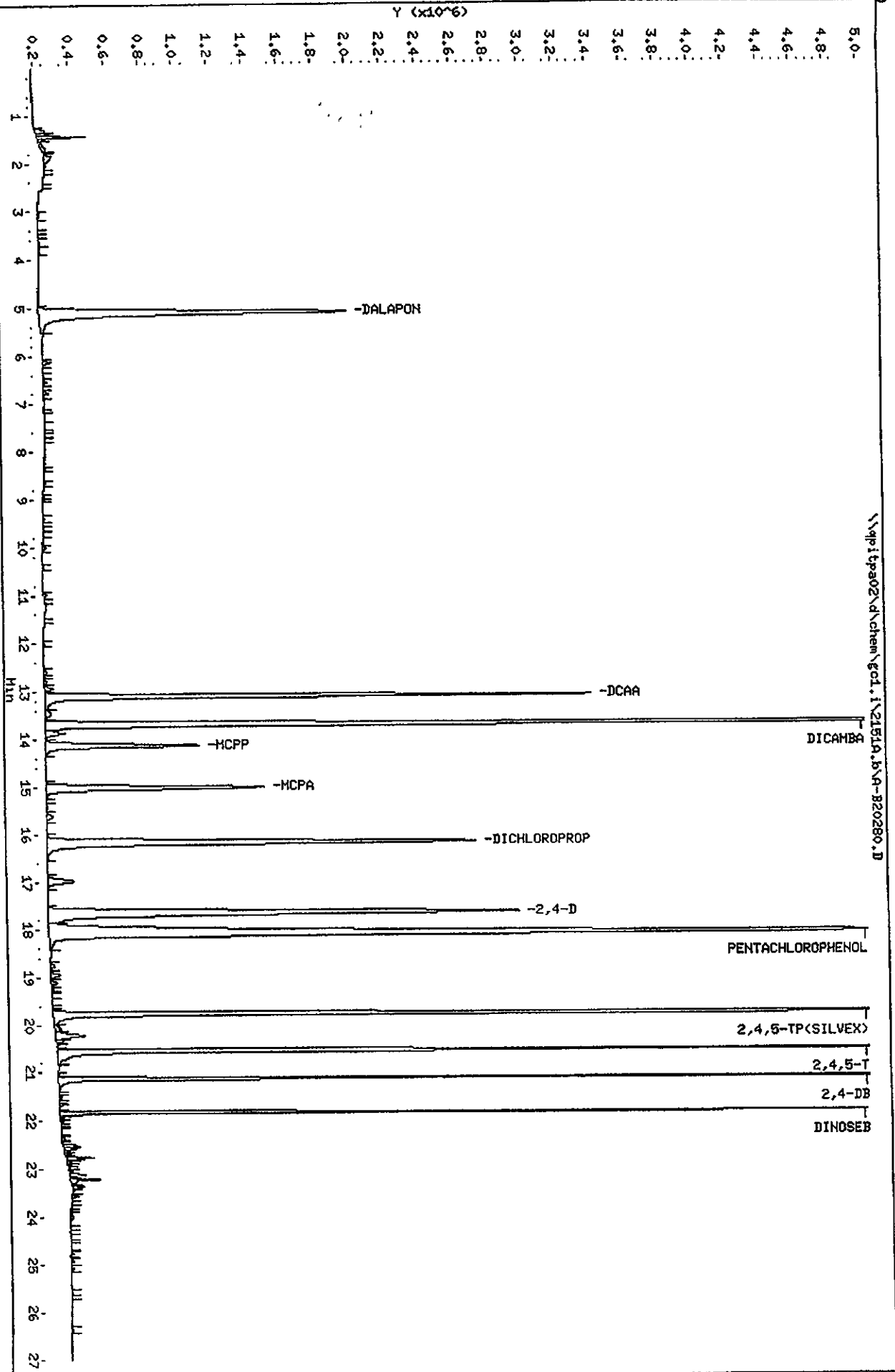
Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20280.D
 Lab Smp Id: HHERB
 Inj Date : 15-MAR-2001 19:05
 Operator : 010139
 Smp Info : HHERB,2151A.b
 Misc Info : 190-107-5
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 19:05
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20280.D
 Calibration Sample, Level: 5
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.094	5.095	-0.001	1773870	0.17600	0.1649
\$ 2 DCAA	13.093	13.098	-0.005	13481850	0.34000	0.2897
3 DICAMBA	13.692	13.692	0.000	6325340	0.17000	0.1554
4 MCPP	14.138	14.140	-0.002	884138	34.1000	23.74
5 MCPA	15.014	15.016	-0.002	1263129	34.0000	24.98
6 DICHLOROPROP	16.154	16.160	-0.006	2483689	0.33900	0.2916
7 2,4-D	17.643	17.652	-0.009	2731653	0.34000	0.3167
8 PENTACHLOROPHENOL	18.087	18.086	0.001	4919822	0.04255	0.04258
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	7330480	0.08400	0.07996
10 2,4,5-T	20.544	20.546	-0.002	8307379	0.08440	0.08566
11 2,4-DB	21.122	21.125	-0.003	5072889	0.33800	0.3499
12 DINOSEB	21.831	21.831	0.000	4709876	0.05080	0.05073

Data File: \\ppitpa02\chem\gcl.1\2151A.b\A-B20280.D
 Date: 15-MAR-2001 19:05
 Client ID:
 Sample Info: HHERB,2151A.b
 Column phase: DB1701

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



680 698

Data File: \\gpitpa02\d\chem\gc1.i\2151A.b\A-B20281.D
 Report Date: 16-Mar-2001 08:13

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc1.i\2151A.b\A-B20281.D
 Lab Smp Id: 2ND HERB
 Inj Date : 15-MAR-2001 19:37
 Operator : 010139
 Smp Info : 2ND HERB,2151A.b
 Misc Info : 190-119-8
 Comment : 8151/515 ANALYSIS
 Method : \\gpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 08:12 MorganW
 Cal Date : 15-MAR-2001 19:05
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

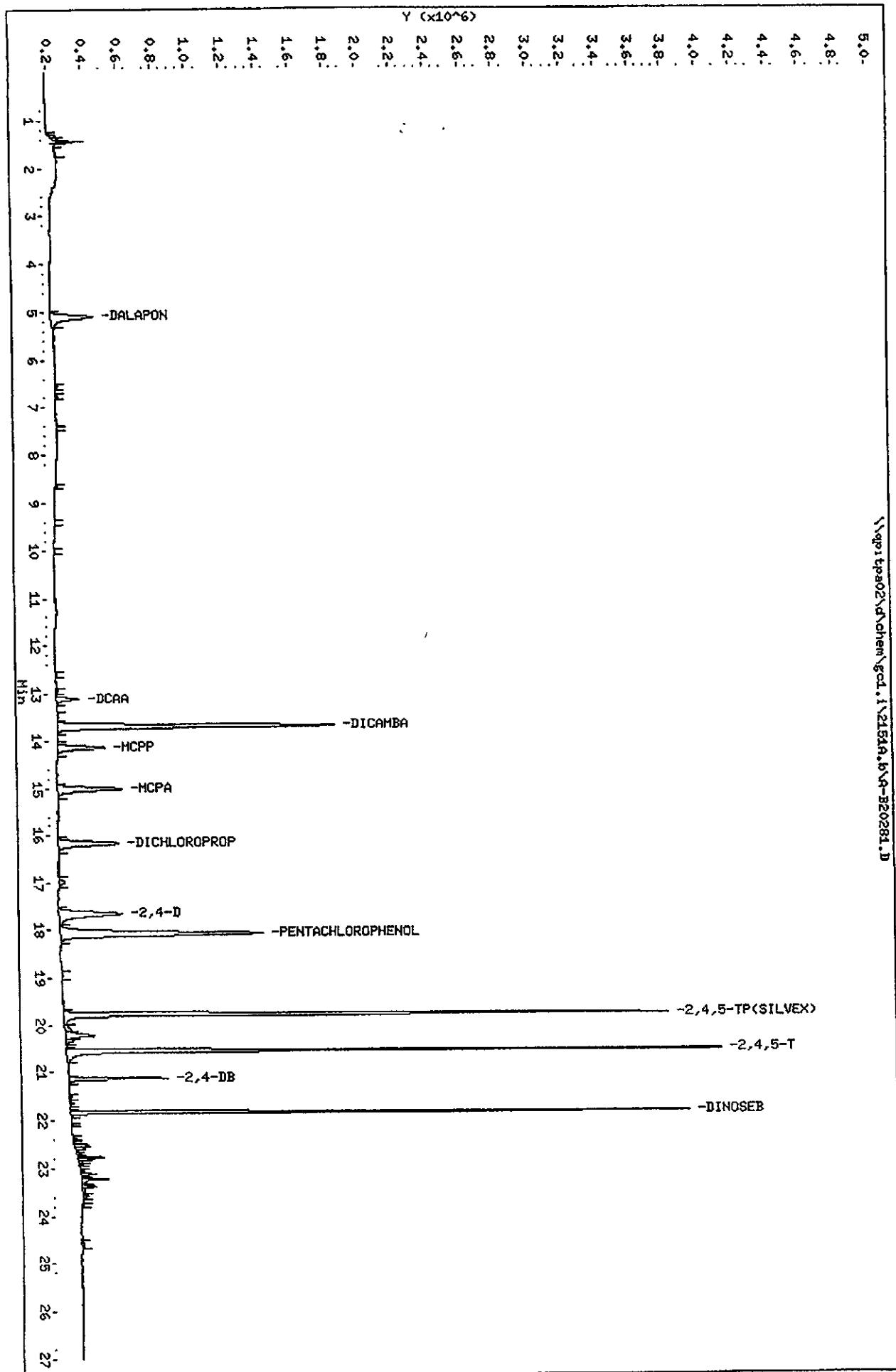
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20280.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
-----	--	-----	-----	-----	-----	-----	
1 DALAPON	5.096	5.095	0.001	244786	0.04390	0.02276	110%
\$ 2 DCAA	13.100	13.098	0.002	548741	0.08510	0.01179	
3 DICAMBA	13.693	13.692	0.001	1618621	0.04250	0.03975	98%
4 MCPP	14.139	14.140	-0.001	274544	8.52000	7.373	93%
5 MCPA	15.013	15.016	-0.003	378187	8.56000	7.480	94%
6 DICHLOROPROP	16.159	16.160	-0.001	351699	0.08480	0.04129	103%
7 2,4-D	17.658	17.652	0.006	364671	0.08510	0.04228	105%
8 PENTACHLOROPHENOL	18.089	18.086	0.003	1177660	0.01064	0.01019	100%
9 2,4,5-TP(SILVEX)	19.774	19.775	-0.001	3542326	0.02110	0.03864	98%
10 2,4,5-T	20.544	20.546	-0.002	3838824	0.02110	0.03958	100%
11 2,4-DB	21.125	21.125	0.000	574430	0.08450	0.03962	100%
12 DINOSEB	21.831	21.831	0.000	3627416	0.01270	0.03907	98%

Data File: \\qpltpa02\chem\gc1.1\2151A.b\A-B20281.D
Date: 15-MAR-2001 19:37
Client ID:
Sample Info: 2ND HERB, 2151A.b
Column phase: DB1701

Instrument: gc1.1
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\gc1.1\2151A.b\A-B20281.D



680 700

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20383.D
Report Date: 27-Mar-2001 12:36

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20383.D
Lab Smp Id: MHERB
Inj Date : 27-MAR-2001 10:05
Operator : 010139
Smp Info : MHERB,2151A.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 27-Mar-2001 12:36 morganw
Cal Date : 15-MAR-2001 19:05
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20280.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.080	5.080	0.000	433900	0.04390	0.04035
\$ 2 DCAA	13.086	13.086	0.000	3724586	0.08510	0.08004
3 DICAMBA	13.681	13.681	0.000	1674698	0.04250	0.04113
4 MCPP	14.127	14.127	0.000	308022	8.52000	8.272
5 MCPA	15.000	15.000	0.000	412409	8.56000	8.157
6 DICHLOROPROP	16.144	16.144	0.000	693277	0.08480	0.08139
7 2,4-D	17.631	17.631	0.000	714375	0.08510	0.08282
8 PENTACHLOROPHENOL	18.068	18.068	0.000	1163823	0.01064	0.01007
9 2,4,5-TP(SILVEX)	19.768	19.768	0.000	1872879	0.02110	0.02043
10 2,4,5-T	20.540	20.540	0.000	1972458	0.02110	0.02034
11 2,4-DB	21.119	21.119	0.000	1179263	0.08450	0.08135
12 DINOSEB	21.826	21.826	0.000	1177222	0.01270	0.01268

680

701

Data File: \\ppitpa02\chem\gol.1\2151A.b\A-B20383.D

Date: 27-MAR-2001 10:05

Client ID:

Sample Info: MHERB,2151A.b

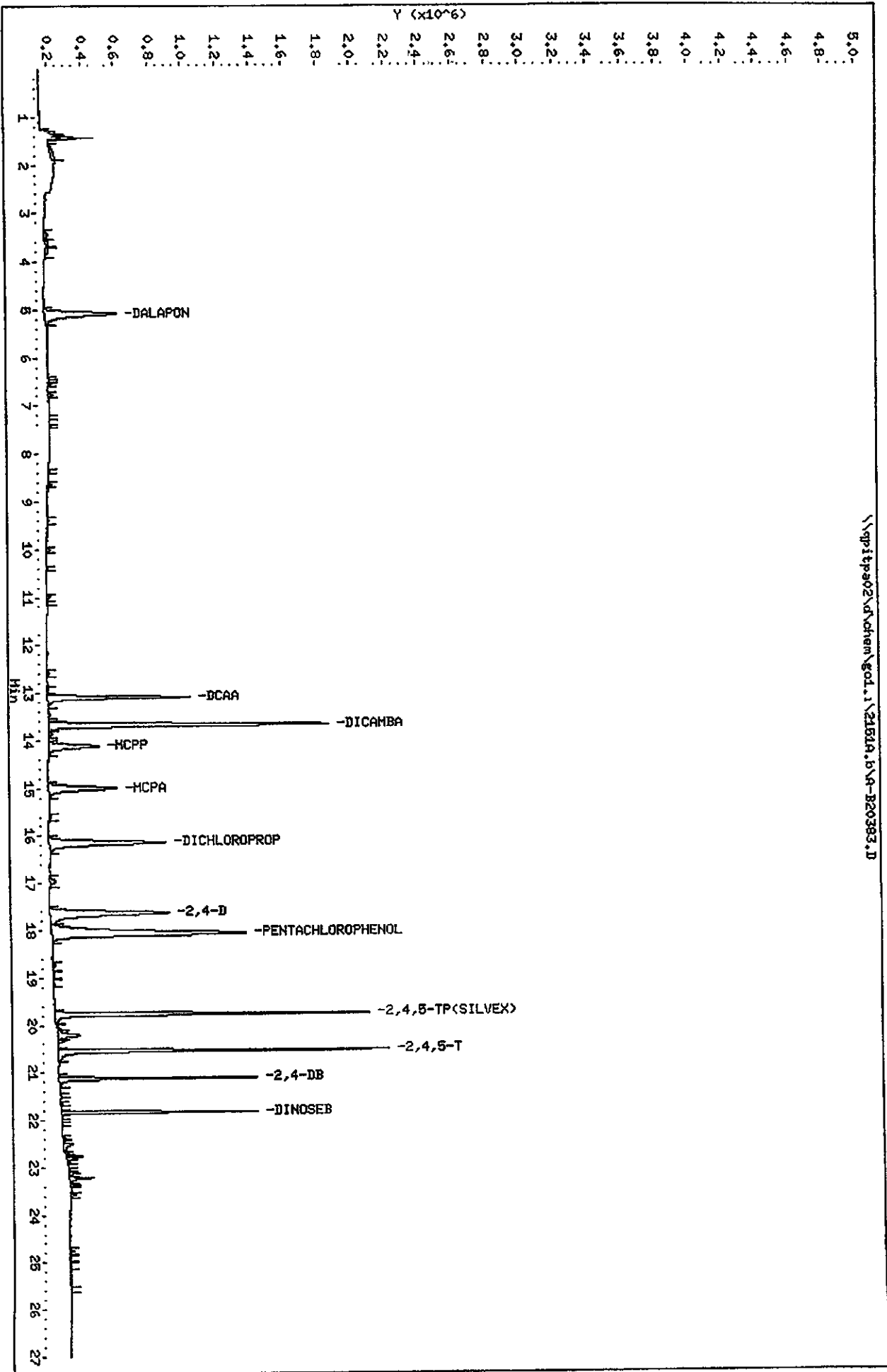
Column phase: DB1701

Instrument: gol.1

Operator: C10139

Column diameter: 0.53

\\ppitpa02\chem\gol.1\2151A.b\A-B20383.D



680 702

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20399.D
Report Date: 28-Mar-2001 06:24

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20399.D
Lab Smp Id: MHERB
Inj Date : 27-MAR-2001 18:24
Operator : 010139
Smp Info : MHERB,2151A.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 28-Mar-2001 06:22 MorganW
Cal Date : 15-MAR-2001 19:05
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

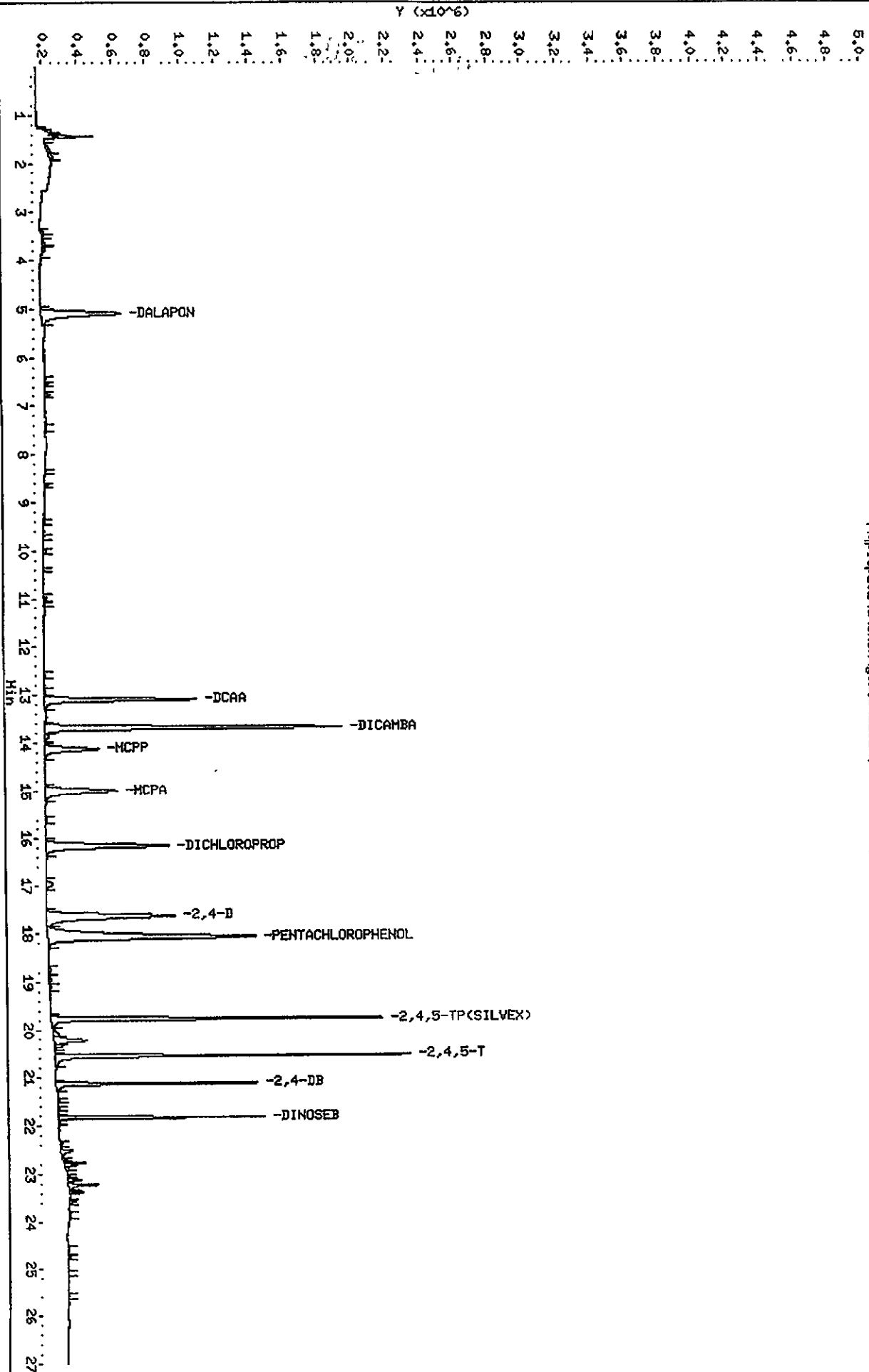
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20280.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.087	5.080	0.007	465917	0.04390	0.04332
\$ 2 DCAA	13.091	13.086	0.005	3874113	0.08510	0.08326
3 DICAMBA	13.685	13.681	0.004	1738925	0.04250	0.04271
4 MCPP	14.132	14.127	0.005	310674	8.52000	8.344
5 MCPA	15.006	15.000	0.006	419082	8.56000	8.289
6 DICHLOROPROP	16.147	16.144	0.003	724132	0.08480	0.08501
7 2,4-D	17.638	17.631	0.007	751844	0.08510	0.08716
8 PENTACHLOROPHENOL	18.077	18.068	0.009	1220969	0.01064	0.01057
9 2,4,5-TP(SILVEX)	19.769	19.768	0.001	1937601	0.02110	0.02113
10 2,4,5-T	20.542	20.540	0.002	2087378	0.02110	0.02152
11 2,4-DB	21.119	21.119	0.000	1178747	0.08450	0.08131
12 DINOSEB	21.827	21.826	0.001	1210497	0.01270	0.01304

Data File: \\pp1p202\chem\col.1\2151A.b\A-B20399.D
 Date: 27-MAR-2001 18:24
 Client ID:
 Sample Info: MHERB,2151A.b
 Column phase: DB1701

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

\\pp1p202\chem\col.1\2151A.b\A-B20399.D



680 704

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20417.D
 Report Date: 28-Mar-2001 06:32

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20417.D
 Lab Smp Id: MHERB
 Inj Date : 28-MAR-2001 03:45
 Operator : 010139
 Smp Info : MHERB,2151A.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 28-Mar-2001 06:28 MorganW
 Cal Date : 15-MAR-2001 19:05
 Als bottle: 36
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20280.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.088	5.080	0.008	472587	0.04390	0.04394
\$ 2 DCAA	13.088	13.086	0.002	3949347	0.08510	0.08488
3 DICAMBA	13.682	13.681	0.001	1795447	0.04250	0.04410
4 MCPP	14.128	14.127	0.001	317910	8.52000	8.538
5 MCPA	15.004	15.000	0.004	425022	8.56000	8.406
6 DICHLOROPROP	16.144	16.144	0.000	740014	0.08480	0.08688
7 2,4-D	17.629	17.631	-0.002	793502	0.08510	0.09199
8 PENTACHLOROPHENOL	18.072	18.068	0.004	1238176	0.01064	0.01072
9 2,4,5-TP(SILVEX)	19.769	19.768	0.001	2019991	0.02110	0.02203
10 2,4,5-T	20.539	20.540	-0.001	2243669	0.02110	0.02314
11 2,4-DB	21.117	21.119	-0.002	1240633	0.08450	0.08558
12 DINOSEB	21.825	21.826	-0.001	1252187	0.01270	0.01349

Data File: \\pptps02\chem\col.1\2151A.b\A-B20417.D

Date: 28-MAR-2001 03:45

Client ID:

Sample Info: MHERB,2151A.b

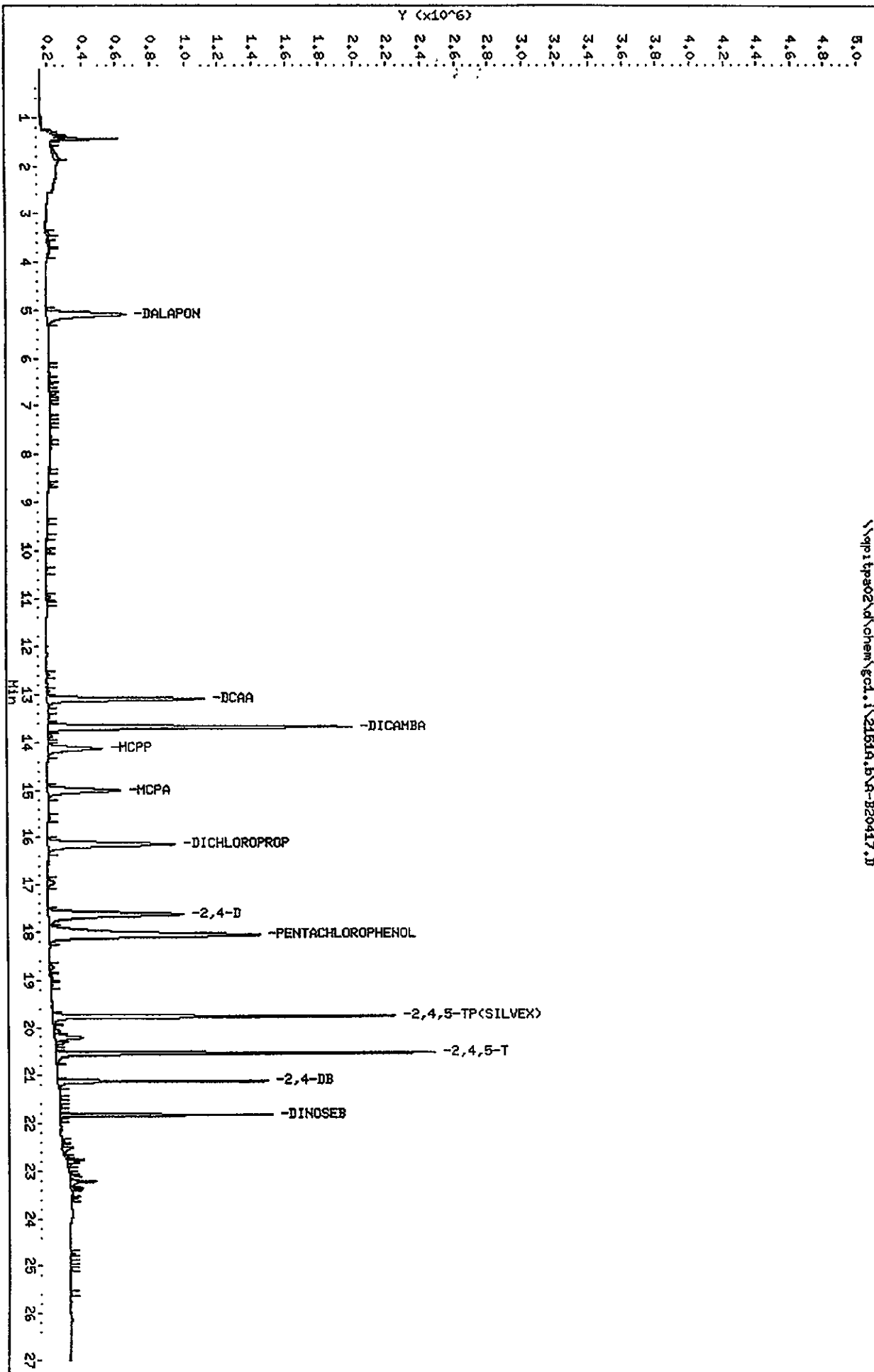
Column phase: DB1701

Instrument: col.1

Operator: 010139

Column diameter: 0.53

\\pptps02\chem\col.1\2151A.b\A-B20417.D



680 706

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20420.D
Report Date: 28-Mar-2001 13:08

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20420.D
Lab Smp Id: MHERB
Inj Date : 28-MAR-2001 10:26
Operator : 010139
Smp Info : MHERB,2151A.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 28-Mar-2001 13:07 MorganW
Cal Date : 15-MAR-2001 19:05
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20280.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	**	*****	*****	*****	*****	*****
1 DALAPON	5.077	5.077	0.000	455032	0.04390	0.04231
\$ 2 DCAA	13.083	13.083	0.000	3821622	0.08510	0.08213
3 DICAMEA	13.680	13.680	0.000	1723873	0.04250	0.04234
4 MCPP	14.123	14.123	0.000	312610	8.52000	8.395
5 MCPA	14.998	14.998	0.000	419854	8.56000	8.304
6 DICHLOROPROP	16.139	16.139	0.000	720973	0.08480	0.08464
7 2,4-D	17.628	17.628	0.000	760917	0.08510	0.08821
8 PENTACHLOROPHENOL	18.066	18.066	0.000	1192644	0.01064	0.01032
9 2,4,5-TP(SILVEX)	19.767	19.767	0.000	1946026	0.02110	0.02123
10 2,4,5-T	20.538	20.538	0.000	2128320	0.02110	0.02195
11 2,4-DB	21.118	21.118	0.000	1260039	0.08450	0.08592
12 DINOSEB	21.824	21.824	0.000	1195457	0.01270	0.01288

Data File: \\ppitpa02\chem\gc1.1\2151A.b\A-B20420.D

Date : 28-MAR-2001 10:26

Client ID:

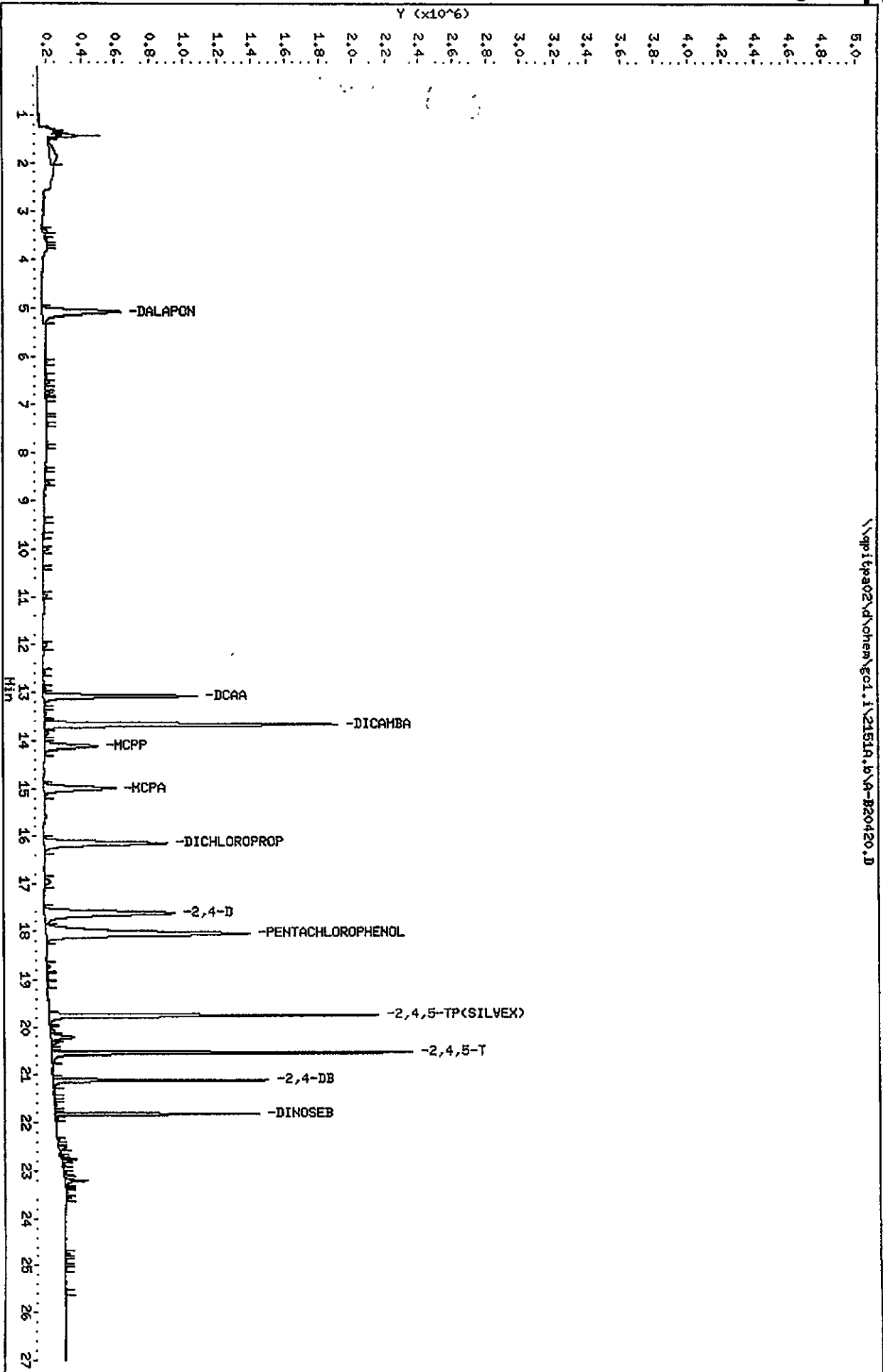
Sample Info: HHERB,2151A.b

Column phase: DB1701

Instrument: gc1.1

Operator: 040139

Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20424.D
 Report Date: 28-Mar-2001 13:08

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20424.D
 Lab Smp Id: MHERB
 Inj Date : 28-MAR-2001 12:31
 Operator : 010139
 Smp Info : MHERB,2151A.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 28-Mar-2001 13:07 MorganW
 Cal Date : 15-MAR-2001 19:05
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20280.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.089	5.077	0.012	471505	0.04390	0.04384
\$ 2 DCAA	13.086	13.083	0.003	3937744	0.08510	0.08463
3 DICAMBA	13.683	13.680	0.003	1772108	0.04250	0.04352
4 MCPP	14.126	14.123	0.003	313793	8.52000	8.427
5 MCPA	15.004	14.998	0.006	421850	8.56000	8.344
6 DICHLOROPROP	16.144	16.139	0.005	741956	0.08480	0.08711
7 2,4-D	17.633	17.628	0.005	790509	0.08510	0.09164
8 PENTACHLOROPHENOL	18.070	18.066	0.004	1222134	0.01064	0.01058
9 2,4,5-TP(SILVEX)	19.769	19.767	0.002	2009070	0.02110	0.02191
10 2,4,5-T	20.540	20.538	0.002	2227763	0.02110	0.02297
11 2,4-DB	21.118	21.118	0.000	1222524	0.08450	0.08433
12 DINOSEB	21.826	21.824	0.002	1233214	0.01270	0.01328

Data File: \\ppitpa02\chem\gc1.i\2151A.b\A-B20424.D

Date : 28-MAR-2001 12:31

Client ID:

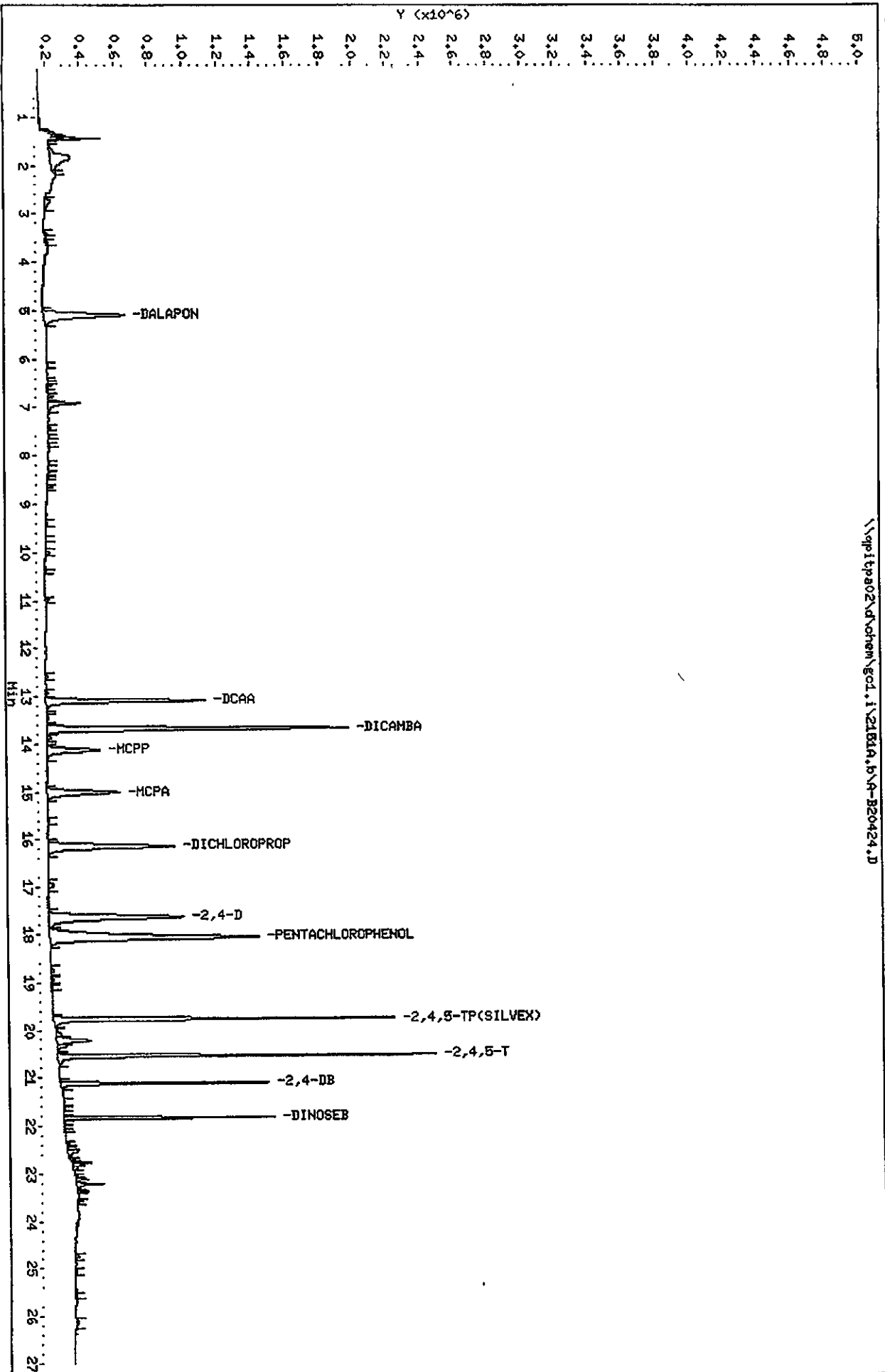
Sample Info: MHERB,2151A.b

Column phase: DB1701

Instrument: gc1.i

Operator: 010139

Column diameter: 0.53



680 710

HERBICIDE
QC DATA

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

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20405.D
 Report Date: 28-Mar-2001 06:57

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20405.D
 Lab Smp Id: DXWV51AA Client Smp ID: PBLK2391
 Inj Date : 27-MAR-2001 21:31
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXWV51AA,2151A.b
 Misc Info : 220173BLK
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 28-Mar-2001 06:28 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 19:05 Cal File: A-B20280.D
 Als bottle: 24 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

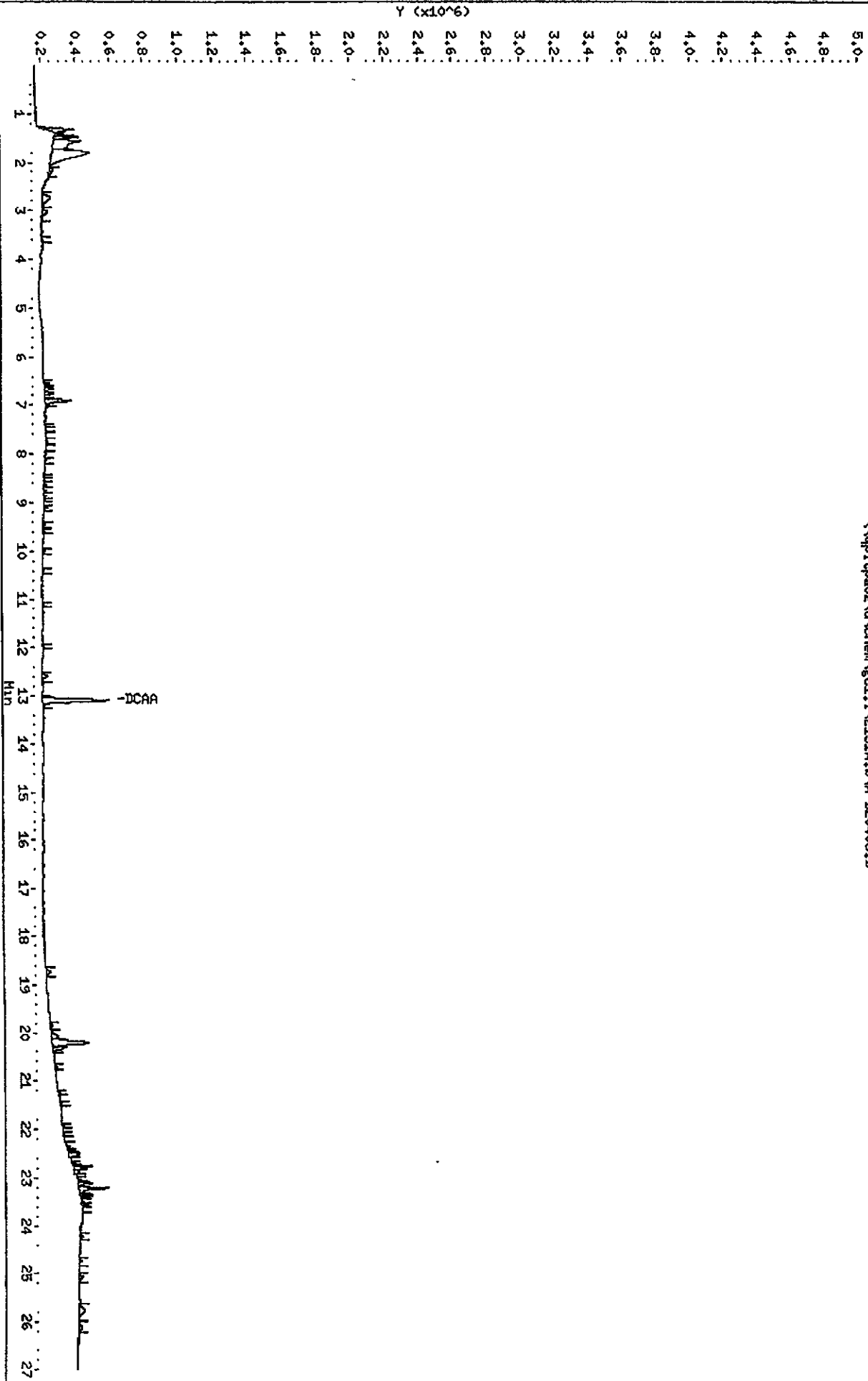
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON						
\$ 2 DCAA	13.089	13.086	0.003	1668722	0.03586	7.172
3 DICAMBA						
4 MCPP						
5 MCPA						
6 DICHLOOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL						
9 2,4,5-TP(SILVEX)						
10 2,4,5-T						
11 2,4-DB						
12 DINOSEB						

Data File: \\ppitpa02\chem\ec1.i\2151A.b\A-B20405.D
 Date: 27-MAR-2001 21:31
 Client ID: PBLK2394
 Sample Info: DKAWS1A,2151A.b
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: ec1.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\ec1.i\2151A.b\A-B20405.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20371.D
 Report Date: 28-Mar-2001 09:12

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20371.D
 Lab Smp Id: DXWV51AA Client Smp ID: PBLK2391
 Inj Date : 27-MAR-2001 21:00
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXWV51AA,2151.b
 Misc Info : 220173BLK
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 28-Mar-2001 07:04 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
 Als bottle: 24 QC Sample: BLANK
 Dil Factor: 1.00000
 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	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

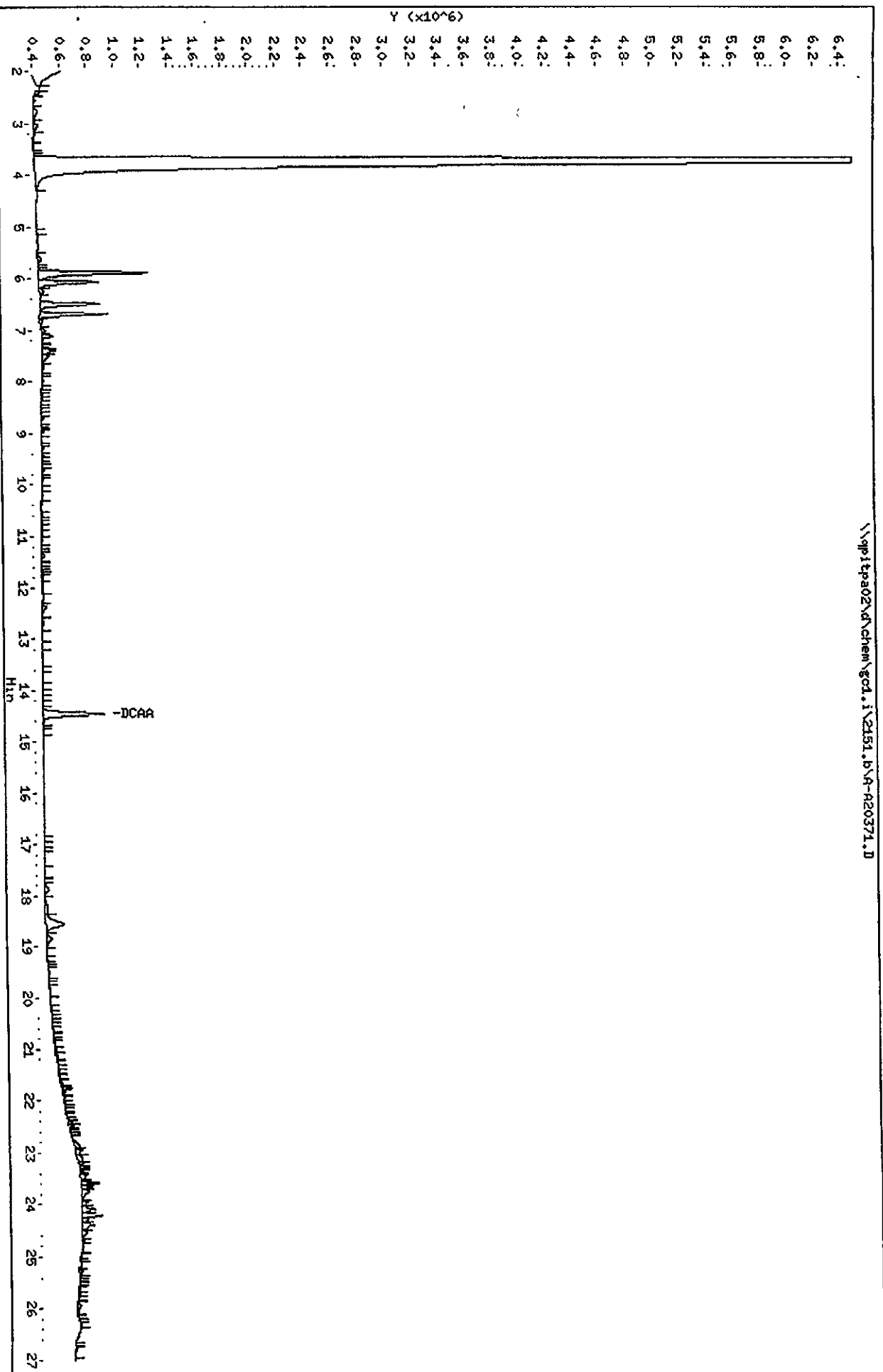
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	14 448	14 450	-0.002	2345495	0.03750	7 500
3 MCPP				Compound Not Detected		
4 DICAMBA				Compound Not Detected		
5 MCPA				Compound Not Detected		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHENOL				Compound Not Detected		
9 2,4,5-TP(SILVEX)				Compound Not Detected		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB				Compound Not Detected.		

Data File: \\pp1tpa02\chem\gcl.i\2151.b\A-A20371.D
 Date: 27-MAR-2001 21:00
 Client ID: PBLK2391
 Sample Info: DKKMS1A9,2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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

680 715

\\pp1tpa02\chem\gcl.i\2151.b\A-A20371.D



UXB INTERNATIONAL
CHECK SAMPLE 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: DXWV51AC Date Extracted: 03/23/01
Dilution factor: 1 Date Analyzed: 03/27/01
Moisture %: NA
QC Batch: 1082391
Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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	

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20369.D
 Lab Smp Id: DXWV51AC Client Smp ID: LCS2391
 Inj Date : 27-MAR-2001 19:57
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXWV51AC,2151.b
 Misc Info : 220173LCS
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 28-Mar-2001 07:04 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
 Als bottle: 22 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

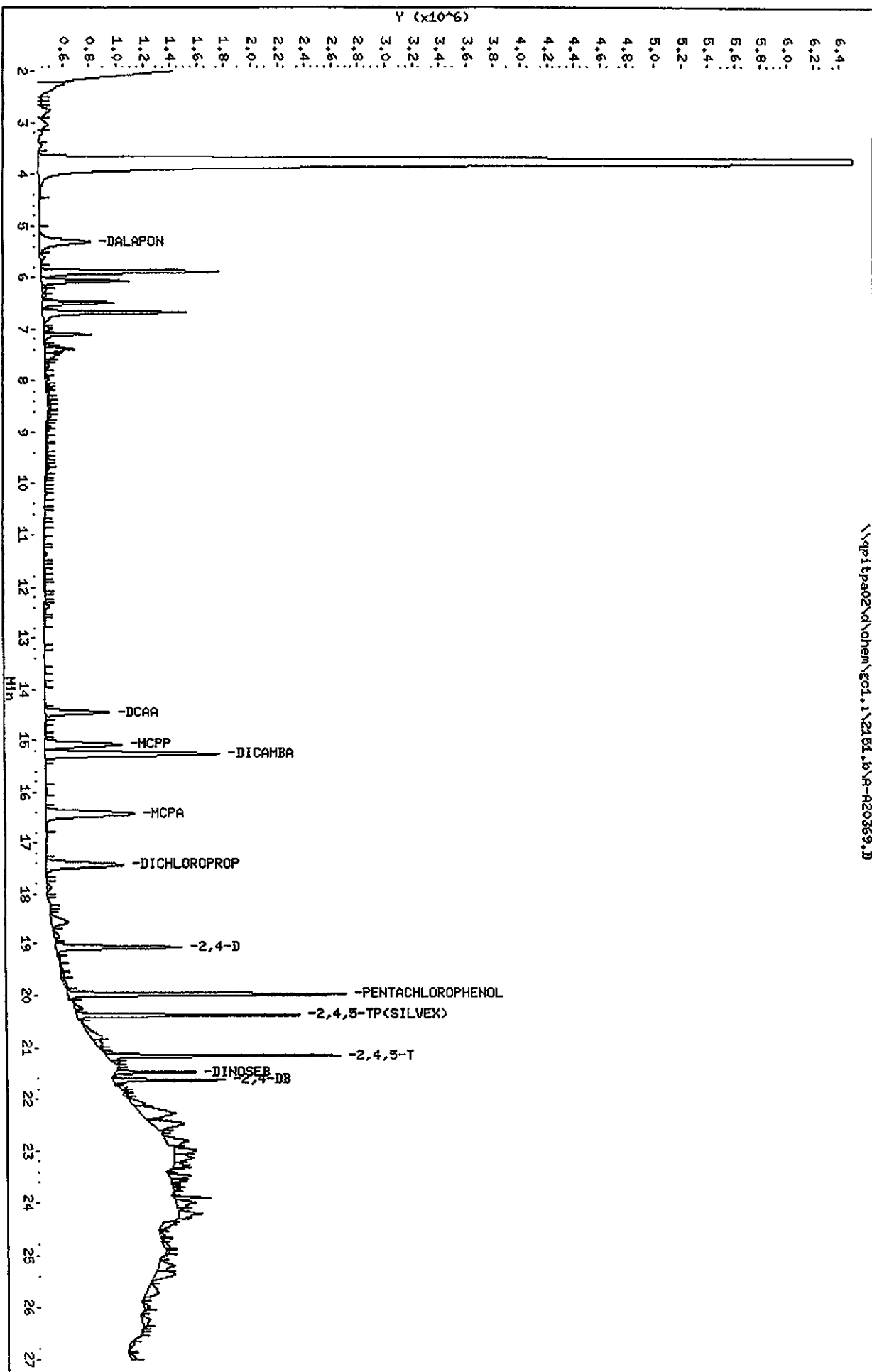
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	5.318	5.314	0.004	379169	0.02841	5.682
\$ 2 DCAA	14.450	14.450	0.000	2370968	0.03791	7.582
3 MCPP	15.082	15.082	0.000	572025	6.37463	1275
4 DICAMBA	15.265	15.263	0.002	1297062	0.03073	6.146
5 MCPA	16.428	16.425	0.003	662734	6.24670	1249
6 DICHLOROPROP	17.423	17.423	0.000	577352	0.06048	12.10
7 2,4-D	19.065	19.066	-0.001	935891	0.05740	11.48
8 PENTACHLOROPHENOL	19.978	19.977	0.001	2060416	0.00764	1.528
9 2,4,5-TP(SILVEX)	20.382	20.384	-0.002	4705631	0.01365	2.730
10 2,4,5-T	21.160	21.162	-0.002	4265634	0.01422	2.843
11 DINOSEB	21.477	21.478	-0.001	1375035	0.00558	1.117
12 2,4-DB	21.631	21.632	-0.001	1829726	0.05012	10.02

Data File: \\p1p2a02\chem\gc1.i\2151.b\A-A20369.D
 Date : 27-MAR-2004 19:57
 Client ID: LCS2391
 Sample Info: DYNAMIS1AC,2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

680 718
 Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

\\p1p2a02\chem\gc1.i\2151.b\A-A20369.D



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	

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20370.D
Lab Smp Id: DXWV51AD Client Smp ID: LCD2391
Inj Date : 27-MAR-2001 20:29
Operator : 010139 Inst ID: gc1.i
Smp Info : DXWV51AD,2151.b
Misc Info : 220173LCD
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 28-Mar-2001 07:04 MorganW Quant Type: ESTD
Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
Als bottle: 23 QC Sample: LCSD
Dil Factor: 1.00000
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	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

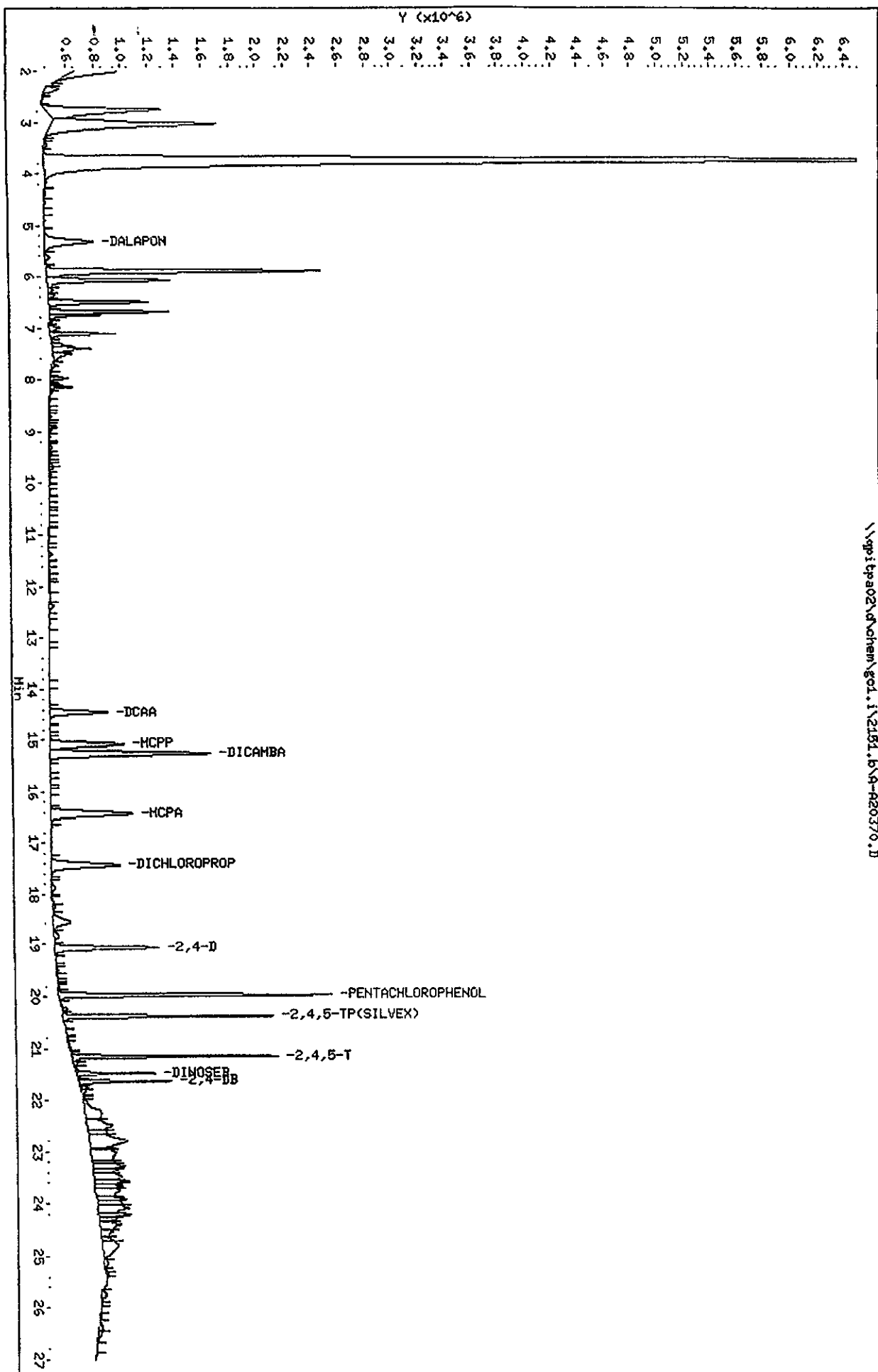
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	5.320	5.314	0.006	358442	0.02686	5.371
\$ 2 DCAA	14.447	14.450	-0.003	2162515	0.03458	6.915
3 MCPP	15.082	15.082	0.000	549953	6.12866	1226
4 DICAMBA	15.264	15.263	0.001	1195601	0.02833	5.666
5 MCPA	16.425	16.425	0.000	610874	5.75788	1152
6 DICHLOROPROP	17.422	17.423	-0.001	514214	0.05387	10.77
7 2,4-D	19.066	19.066	0.000	771842	0.04734	9.468
8 PENTACHLOROPHENOL	19.977	19.977	0.000	2024357	0.00751	1.501
9 2,4,5-TP(SILVEX)	20.383	20.384	-0.001	4383148	0.01271	2.543
10 2,4,5-T	21.160	21.162	-0.002	3702343	0.01234	2.468
11 DINOSB	21.477	21.478	-0.001	1494495	0.00607	1.214
12 2,4-DB	21.632	21.632	0.000	1599479	0.04381	8.763

Data File: \\ppitpa02\chem\col.1\2151.b\A-A20370.D
 Date: 27-MAR-2001 20:29
 Client ID: LCD2391
 Sample Info: DMW51AD, 2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

680 721

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

\\ppitpa02\chem\col.1\2151.b\A-A20370.D



HERBICIDE
MISCELLANEOUS

6# 108 2391

STL

STL - Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP50

Start Date	Date Completed	Parameter	Method	Solvent	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
3-23-01	3-27-01	Head-(855A)	3510C	mecl ₂ /ether	105E08	1.0	190-122-3	1.0	N/A
1. PIC 210181	BLL	N/A	1000	10.0	5	12	190-122-3	1.0	N/A
2. LPS					5	11			
3. LPS Dup					5	11			
4. 001					9	11			
5. PIC 220173	001				9	11			
6. 002					9	11			
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
21.									
22.									
23.									
Analyst	py	py	py	py	py	py	py	py	py
Extract(s)	py	py	py	py	py	py	py	py	py
(record line # from above)	py	py	py	py	py	py	py	py	py
ALL Above	3-23-01	1930	Pyushinski	3-23-01	1940	Pyushinski	Ref-12		
ALL Above	3-27-01	0600	James Miller	3-27-01	1125	James Miller	Ref-6C		
ALL Above	3-27-01	1200	W. Nagy	3-27-01	1300	W. Nagy	Ref-6C		

Sodium Sulfate Mfg/Lot Number	Reviewed by:	Date:
Barker V02599	James Miller	3-27-01

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8151/515 HERB ANALYSIS
2	2	275 190-107-1
3	3	276 190-107-2
4	4	277 190-107-3
5	5	278 190-107-4
6	6	279 190-107-5
7	7	280 190-119-8
8	8	281 190-115-14
9	9	282 070142003 50X
10	10	283 070142004 50X
11	11	284 ~~070142005 50X~~ 100X
12	12	285 070142006 50X
13	13	286 ~~070142LCS~~
14	14	287 ~~070142LCD~~
15	15	288 070142BLK
16	16	289 190-107-3

Created: 3-15-01 *awm* *A*

✓ DE 3-19-01

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	HERB	1	Sample		
2	2	LHERB,2151.b	HERB	1	Sample		
3	3	MLHERB,2151.b	HERB	1	Sample		
4	4	MHERB,2151.b	HERB	1	Sample		
5	5	MHHERB,2151.b	HERB	1	Sample		
6	6	HHERB,2151.b	HERB	1	Sample		
7	7	2ND HERB,2151.b	HERB	1	Sample		
8	8	LPC ,2151.b	HERB	1	Sample		
9	9	DW2LC1AA ,2151.b	HERB	1	Sample		
10	10	DW2LE1AA ,2151.b	HERB	1	Sample		
11	11	DW2LF1AA ,2151.b	HERB	1	Sample		
12	12	DW2LH1AA ,2151.b	HERB	1	Sample		
13	13	DW5J21AC ,2151.b	HERB	1	Sample		

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8151/515 HERB ANALYSIS
2	2	349 190-107-3
3	3	350 ~~200203001~~
4	4	351 ~~200203001MS~~
5	5	352 ~~200203001MSD~~
6	6	353 ~~200203002~~
7	7	354 ~~200203LCS~~
8	8	355 ~~200203BLK~~
9	9	356 190-107-3
10	10	357 190-115-14
11	11	358 ~~210136003~~ 50X 500X
12	12	359 ~~210136004~~ 50X 200X
13	13	360 ~~210136LCS~~
14	14	361 ~~210136LCD~~
15	15	362 210136BLK
16	16	363 210136003 500X
17	17	364 210136004 200X
18	18	365 190-107-3
19	19	366 ~~210136001~~ 10X
20	20	367 ~~220173001~~ 10X
21	21	368 ~~220173002~~ 10X
22	22	369 220173LCS
23	23	370 220173LCD
24	24	371 220173BLK
25	25	372 150114001

Created: 3-27-01 wmm A

DE 3-28-01

Line	Vial	Vial Information

====	====	=====

26	26 373	150114001MS
27	27 374	150114001MSD
28	28 375	150114002
29	29 376	150114003
30	30 377	150114004
31	31 378	150114005
32	32 379	150114006
33	33 380	150114007
34	34 381	150114LCS
35	35 382	150114BLK
36	36 383	190-107-3

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information

====	====	=====

1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	190-107-3
4	3	200203001
5	4	200203001MS
6	5	200203001MSD
7	6	200203002
8	7	200203LCS
9	8	200203BLK
10	9	190-107-3
11	10	190-115-14
12	11	210136003 50X
13	12	210136004 50X
14	13	210136LCS

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8151/515 HERB ANALYSIS
2	2 385	190-107-3
3	3 386	210184001 10X
4	4 387	220173001 10X
5	5 388	220173002 10X
6	6 389	190-107-3

created: 3-28-01 wwm A

✓ DE 3-28-01

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	190-107-3
4	3	210184001 10X
5	4	220173001 10X
6	5	220173002 10X
7	6	190-107-3

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
14	14	DW5J21AD ,2151.b	HERB	1	Sample		
15	15	DW5J21AA ,2151.b	HERB	1	Sample		
16	16	MHERB ,2151.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	276 190-107-1
4	3	277 190-107-2
5	4	278 190-107-3
6	5	279 190-107-4
7	6	280 190-107-5
8	7	281 190-119-8
9	8	282 190-115-14
10	9	283 070142003 50X
11	10	284 070142004 50X
12	11	285 ~~070142005 50X~~ 100X
13	12	286 070142006 50X
14	13	287 070142LCS
15	14	288 070142LCD
16	15	289 070142BLK
17	16	290 190-107-3

Created: 3-15-01 wcm 13

✓ DE 3-19-01

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	HEXANE	HERBA	1	Sample		
2	1	HEXANE	HERBA	1	Sample		
3	2	LHERB,2151A.b	HERBA	1	Sample		
4	3	MLHERB,2151A.b	HERBA	1	Sample		
5	4	MHERB,2151A.b	HERBA	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
6	5	MHHERB,2151A.b	HERBA	1	Sample		
7	6	HHERB,2151A.b	HERBA	1	Sample		
8	7	2ND HERB,2151A.b	HERBA	1	Sample		
9	8	LPC ,2151A.b	HERBA	1	Sample		
10	9	DW2LC1AA,2151A.b	HERBA	1	Sample		
11	10	DW2LE1AA,2151A.b	HERBA	1	Sample		
12	11	DW2LF1AA,2151A.b	HERBA	1	Sample		
13	12	DW2LH1AA,2151A.b	HERBA	1	Sample		
14	13	DW5J21AC,2151A.b	HERBA	1	Sample		
15	14	DW5J21AA,2151A.b	HERBA	1	Sample		
16	15	DW5J21AA,2151A.b	HERBA	1	Sample		
17	16	MHERB ,2151A.b	HERBA	1	Sample		

Line	Vial	Vial Information
26	26	150114001MS
27	27	150114001MSD
28	28	150114002
29	29	150114003
30	30	150114004
31	31	150114005
32	32	150114006
33	33	150114007
34	34	150114LCS
35	35	150114BLK
36	36	190-107-3

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2 383	190-107-3
4	3 384	200203001
5	4 385	200203001MS
6	5 386	200203001MSD
7	6 387	200203002
8	7 388	200203LCS
9	8 389	200203BLK
10	9 390	190-107-3
11	10 391	190-115-14
12	11 392	~~210136003~~ 50X 500X
13	12 393	~~210136004~~ 50X 200X
14	13 394	210136LCS

15 14 395 210136LCD
16 15 396 210136BLK
17 16 397 210136003 500X
18 17 398 210136004 200X
19 18 399 190-107-3
20 19 400 ~~210136001~~ 10X
21 20 401 ~~220173001~~ 10X
22 21 402 ~~220173002~~ 10X
23 22 403 ~~220173LCS~~
24 23 404 ~~220173LCD~~
25 24 405 220173BLK
26 25 406 ~~150114001~~
27 26 407 ~~150114001MS~~
28 27 408 ~~150114001MSD~~
29 28 409 ~~150114002~~
30 29 410 ~~150114003~~
31 30 411 ~~150114004~~
32 31 412 ~~150114005~~
33 32 413 ~~150114006~~
34 33 414 ~~150114007~~
35 34 415 ~~150114LCS~~
36 35 416 ~~150114BLK~~
37 36 417 190-107-3

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8151/515 HERB ANALYSIS
2	2	190-107-3
3	3	210184001 10X
4	4	220173001 10X
5	5	220173002 10X
6	6	190-107-3

created: 3-28-01 mm B

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2 420	190-107-3
4	3 421	210184001 10X
5	4 422	220173001 10X
6	5 423	220173002 10X
7	6 424	190-107-3

✓ 02
3-28-01

REQUESTED BY: YUSHINSC

METHOD. QS Herbicides (8151A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
14A, CLP1	DXPK3-1-CC	___	322684	399411	I-0A-QS	C1C210184	001		WATER	0	13 1
14C, CLP1	DXRH2-1-CC	___	322682	399411	I-0A-QS	C1C220173	001		WATER	0	13 1
14C, CLP1	DXRKF-1-CC	___	322683	399411	I-0A-QS	C1C220173	002		WATER	0	13 1

Used 1 liter per sample, and
empty bottles were thrown
away!

P. Yushinski
3-23-01

RELINQUISHED BY

P. Yushinski
P. Yushinski

RECEIVED BY

P. Yushinski
P. Yushinski

DATE/TIME

3-23-01 153
3-23-01 2100

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

680 734

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/24-B/1080/IDW/004	DXRH2
DF/24-B/1080/IDW/004S	DXRH2S
DF/24-B/1080/IDW/004SD	DXRH2D
DF/24-B/1080/IDW/005	DXRKF

Comments: UXB DUNN FIELD
C1C220173
METALS ANALYSIS
6010B, 7470A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____

Name: _____

Date: _____

Title: _____

REVIEWED BY: <u>CAR</u>
DATE: <u>3-29-01</u>

680 736

**METALS
RESULTS**

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 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	3750	N	1	ICP	3/25/01	14:52
Antimony	220.35	1.5	60.0	4.9	B	1	ICPST	3/25/01	18:15
Arsenic	189.04	2.6	10.0	21.0		1	ICPST	3/25/01	18:15
Barium	493.41	0.41	200	112	BE	1	ICP	3/25/01	14:52
Beryllium	313.04	0.071	5.0	0.34	B	1	ICP	3/25/01	14:52
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/25/01	18:15
Calcium	317.93	37.9	5000	27400		1	ICP	3/25/01	14:52
Chromium	267.72	1.0	10.0	145		1	ICPST	3/25/01	18:15
Cobalt	228.62	3.2	50.0	5.1	B	1	ICP	3/25/01	14:52
Copper	324.75	2.2	25.0	27.1		1	ICP	3/25/01	14:52
Iron	259.94	8.8	100	3600	E	1	ICP	3/25/01	14:52
Lead	220.35	1.9	3.0	8.8		1	ICPST	3/25/01	18:15
Magnesium	279.08	19.9	5000	5680	E	1	ICP	3/25/01	14:52
Manganese	257.61	0.87	15.0	99.5	E	1	ICP	3/25/01	14:52
Nickel	231.60	6.1	40.0	10.5	B	1	ICP	3/25/01	14:52
Potassium	766.49	496	5000	5520		1	ICP	3/25/01	14:52
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/25/01	18:15
Silver	328.07	0.94	10.0	1.5	B	1	ICPST	3/25/01	18:15
Sodium	589	363	125000	3670000	E	25	ICP	3/25/01	19:19
Thallium	190.86	3.9	10.0	8.6	B	1	ICPST	3/25/01	18:15
Vanadium	292.40	1.8	50.0	10.7	B	1	ICP	3/25/01	14:52
Zinc	213.86	3.1	20.0	614		1	ICP	3/25/01	14:52

Comments: Lot #: C1C220173 Sample #. 1

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRKF Client ID: DF/24-B/1080/IDW/005
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 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	4060	N	1	ICP	3/25/01	15:05
Antimony	220.35	1.5	60.0	7.0	B	1	ICPST	3/25/01	18:33
Arsenic	189.04	2.6	10.0	77.3		1	ICPST	3/25/01	18:33
Barium	493.41	0.41	200	119	BE	1	ICP	3/25/01	15:05
Beryllium	313.04	0.071	5.0	0.090	B	1	ICP	3/25/01	15:05
Cadmium	226.50	0.49	5.0	0.52	B	1	ICPST	3/25/01	18:33
Calcium	317.93	37.9	5000	34000		1	ICP	3/25/01	15:05
Chromium	267.72	1.0	10.0	34.3		1	ICPST	3/25/01	18:33
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	3/25/01	15:05
Copper	324.75	2.2	25.0	22.2	B	1	ICP	3/25/01	15:05
Iron	259.94	8.8	100	4290	E	1	ICP	3/25/01	15:05
Lead	220.35	1.9	3.0	16.2		1	ICPST	3/25/01	18:33
Magnesium	279.08	19.9	5000	5660	E	1	ICP	3/25/01	15:05
Manganese	257.61	0.87	15.0	269	E	1	ICP	3/25/01	15:05
Nickel	231.60	6.1	40.0	8.9	B	1	ICP	3/25/01	15:05
Potassium	766.49	496	5000	3940	B	1	ICP	3/25/01	15:05
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/25/01	18:33
Silver	328.07	0.94	10.0	1.1	B	1	ICPST	3/25/01	18:33
Sodium	589	363	125000	2010000	E	25	ICP	3/25/01	19:38
Thallium	190.86	3.9	10.0	7.0	B	1	ICPST	3/25/01	18:33
Vanadium	292.40	1.8	50.0	8.9	B	1	ICP	3/25/01	15:05
Zinc	213.86	3.1	20.0	1690		1	ICP	3/25/01	15:05

Comments: Lot #: C1C220173 Sample #: 2

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
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	0.16	B	1	CVAA	3/26/01	11:10

Comments: Lot #: C1C220173 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

680 740

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXRKF Client ID: DF/24-B/1080/IDW/005
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
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	0.10	B	1	CVAA	3/26/01	11:15

Comments: Lot #: C1C220173 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRNAcceptable Range: 80% - 120%Standard Source: UltraStandard ID: 0087-170-1

			ICV5-1 3/26/01 9:41 AM							
	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Element										
Mercury	253.7	2.5	2.51	100.4						

680 742

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J10325A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-158-3

Element	WL/ Mass	True Conc	ICV2-1 3/25/01 2:04 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25251.42	101.0								
Barium	493.409	1000.0	995.03	99.5								
Beryllium	313.042	1000.0	973.89	97.4								
Calcium	317.933	25000.0	24914.71	99.7								
Cobalt	228.616	1000.0	997.48	99.7								
Copper	324.754	1000.0	996.49	99.6								
Iron	259.94	25000.0	26029.43	104.1								
Magnesium	279.079	25000.0	25406.16	101.6								
Manganese	257.61	1000.0	1002.66	100.3								
Nickel	231.604	1000.0	995.15	99.5								
Potassium	766.491	25000.0	24575.09	98.3								
Sodium	588.995	25000.0	25238.02	101.0								
Vanadium	292.402	1000.0	1001.54	100.2								
Zinc	213.856	1000.0	1004.99	100.5								

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-140-1
RB 32001

Element	WL/ Mass	True Conc	ICV3-1 3/25/01 12:22 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	250.0	258.34	103.3						
Arsenic	189.042	250.0	258.42	103.4						
Cadmium	226.502	250.0	255.46	102.2						
Chromium	267.716	1000.0	1010.94	101.1						
Lead	220.353	250.0	256.01	102.4						
Selenium	220.353	250.0	260.73	104.3						
Silver	328.068	500.0	510.96	102.2						
Thallium	190.864	500.0	516.85	103.4						

680 744

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-1681
2632801

Element	WL/ Mass	True Conc	ICV3-1 3/27/01 6:39 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Selenium	220.353	250.0	260.54	104.2								

STL-Pittsburgh
Metals Data Reporting Form

680 745

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: 0326HGA.PRN

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0087-170-2

Element	WL/ Mass	True Conc	CCV5-1 3/26/01 9:44 AM		CCV5-2 3/26/01 10:01 AM		CCV5-3 3/26/01 10:21 AM		CCV5-4 3/26/01 10:40 AM		CCV5-5 3/26/01 11:00 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.01	100.2	4.94	98.8	4.89	97.8	4.92	98.4	4.90	98.0

STL-Pittsburgh

680 746

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: 0326HGA.PRN

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0087-170-2

Element	WL/ Mass	True Conc	CCV5-6 3/26/01 11:16 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.86	97.2								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J10325A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-121-12

Element	WL/ Mass	True Conc	CCV2-1 3/25/01 2:46 PM		CCV2-2 3/25/01 3:38 PM		CCV2-3 3/25/01 4:19 PM		CCV2-4 3/25/01 4:57 PM		CCV2-5 3/25/01 5:35 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	49749.72	99.5	51176.16	102.4						
Barium	493.409	5000.0	4900.62	98.0	5099.55	102.0						
Beryllium	313.042	5000.0	4881.87	97.6	5016.50	100.3						
Calcium	317.933	50000.0	50250.75	100.5	49564.90	99.1						
Cobalt	228.616	5000.0	4932.80	98.7	4952.96	99.1						
Copper	324.754	5000.0	4909.49	98.2	5133.40	102.7						
Iron	259.94	50000.0	51391.91	102.8	51944.16	103.9						
Magnesium	279.079	50000.0	50074.65	100.1	51540.40	103.1						
Manganese	257.61	5000.0	4936.64	98.7	4956.60	99.1						
Nickel	231.604	5000.0	4968.57	99.4	4973.42	99.5						
Potassium	766.491	50000.0	49570.29	99.1	51431.98	102.9						
Sodium	588.995	50000.0	49895.92	99.8	51616.94	103.2	49180.42	98.4	47984.76	96.0	47939.18	95.9
Vanadium	292.402	5000.0	4933.47	98.7	4987.25	99.7						
Zinc	213.856	5000.0	4966.45	99.3	5016.38	100.3						

STL-Pittsburgh

680 748

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICP

Units: ug/L

Chart Number: J10325A.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0087-121-12

Element	WL/ Mass	True Conc	CCV2-6 3/25/01 6:13 PM		CCV2-7 3/25/01 6:51 PM		CCV2-8 3/25/01 7:29 PM		CCV2-9 3/25/01 7:42 PM			
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Sodium	588.995	50000.0	46659.23	93.3	46408.89	92.8	45721.35	91.4	46109.10	92.2		

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-1313~~0032001~~

Element	WL/ Mass	True Conc	CCV3-1 3/25/01 1:15 PM		CCV3-2 3/25/01 2:08 PM		CCV3-3 3/25/01 3:01 PM		CCV3-4 3/25/01 3:54 PM		CCV3-5 3/25/01 4:51 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	500.0	505.20	101.0	511.17	102.2	510.26	102.1	515.91	103.2	511.58	102.3
Arsenic	189.042	500.0	508.87	101.8	517.43	103.5	513.22	102.6	518.27	103.7	517.59	103.5
Cadmium	226.502	500.0	495.15	99.0	501.73	100.3	498.48	99.7	502.78	100.6	502.42	100.5
Chromium	267.716	2000.0	1983.72	99.2	2000.78	100.0	1995.03	99.8	2003.34	100.2	1998.01	99.9
Lead	220.353	500.0	501.69	100.3	506.33	101.3	508.18	101.6	508.86	101.8	508.66	101.7
Selenium	220.353	500.0	511.14	102.2	517.56	103.5	518.96	103.8	520.40	104.1	522.49	104.5
Silver	328.068	1000.0	1016.77	101.7	1022.45	102.2	1019.10	101.9	1021.98	102.2	1017.64	101.8
Thallium	190.864	1000.0	1028.02	102.8	1044.75	104.5	1039.51	104.0	1047.50	104.8	1057.12	105.7

680 750

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-137-3
RB 32801

Element	WL/ Mass	True Conc	CCV3-6 3/25/01 5:44 PM		CCV3-7 3/25/01 6:37 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	500.0	514.15	102.8	513.04	102.6				
Arsenic	189.042	500.0	518.04	103.6	523.21	104.6				
Cadmium	226.502	500.0	501.78	100.4	508.42	101.7				
Chromium	267.716	2000.0	2001.30	100.1	2021.78	101.1				
Lead	220.353	500.0	507.10	101.4	513.75	102.8				
Selenium	220.353	500.0	519.84	104.0	524.23	104.8				
Silver	328.068	1000.0	1022.87	102.3	1024.16	102.4				
Thallium	190.864	1000.0	1045.45	104.5	1055.54	105.6				

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-169.1
26 3/20/01

			CCV3-1 3/27/01 7:35 PM									
Element	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Selenium	220.353	500.0	520.85	104.2								

680 752

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

			ICB1 3/26/01 9:42 AM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U				

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/25/01 2:07 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.6	B										
Beryllium	313.042	5	0.7	B										
Calcium	317.933	5000	37.9	U										
Cobalt	228.616	50	3.6	B										
Copper	324.754	25	2.2	U										
Iron	259.94	100	17.2	B										
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	23.9	B										
Vanadium	292.402	50	1.8	U										
Zinc	213.856	20	3.1	U										

680 754

STL-Pittsburgh
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/25/01 12:26 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	1.0	U						
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	5.0	B						

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/27/01 6.43 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Selenium	220.353	5	2.3	B						

680 756

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/26/01 9:45 AM	CCB2 3/26/01 10:03 AM	CCB3 3/26/01 10:23 AM	CCB4 3/26/01 10:42 AM	CCB5 3/26/01 11:01 AM
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U	-0.1 B	0.1 U	0.1 U	0.1 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0326HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/26/01 11:18 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U						

680 758

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/25/01 2:49 PM		CCB2 3/25/01 3:42 PM		CCB3 3/25/01 4:22 PM		CCB4 3/25/01 5:00 PM		CCB5 3/25/01 5:30 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	28.7	B						
Barium	493.409	200	1.9	B	8.3	B						
Beryllium	313.042	5	1.8	B	4.0	B						
Calcium	317.933	5000	37.9	U	58.2	B						
Cobalt	228.616	50	3.2	U	6.9	B						
Copper	324.754	25	2.2	U	3.8	B						
Iron	259.94	100	18.1	B	68.2	B						
Magnesium	279.079	5000	19.9	U	56.8	B						
Manganese	257.61	15	1.6	B	4.4	B						
Nickel	231.604	40	-6.1	B	6.1	U						
Potassium	766.491	5000	496.0	U	496.0	U						
Sodium	588.995	5000	23.3	B	59.5	B	28.0	B	119.0	B	588.0	B
Vanadium	292.402	50	1.8	U	3.5	B						
Zinc	213.856	20	3.5	B	18.0	B						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/25/01 6:16 PM	CCB7 3/25/01 6:54 PM	CCB8 3/25/01 7:32 PM	CCB9 3/25/01 7:45 PM		
			Found Q	Found Q	Found Q	Found Q	Found Q	Found Q
Sodium	588.995	5000	45.9 B	47.9 B	71.8 B	14.5 U		

680 760

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/25/01 1:19 PM	CCB2 3/25/01 2:13 PM	CCB3 3/25/01 3:06 PM	CCB4 3/25/01 3:59 PM	CCB5 3/25/01 4:55 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Antimony	220.353	60	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Cadmium	226.502	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chromium	267.716	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	220.353	3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Selenium	220.353	5	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Silver	328.068	10	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Thallium	190.864	10	3.9 U	4.6 B	6.6 B	3.9 U	6.2 B

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/25/01 5:48 PM		CCB7 3/25/01 6:42 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U	2.6	B				
Arsenic	189.042	10	2.6	U	2.6	U				
Cadmium	226.502	5	0.5	U	0.5	U				
Chromium	267.716	10	1.0	U	1.0	U				
Lead	220.353	3	1.9	U	1.9	U				
Selenium	220.353	5	2.1	U	2.1	U				
Silver	328.068	10	0.9	U	0.9	U				
Thallium	190.864	10	7.2	B	3.9	U				

680 762

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARC

Standard Source: _____

Standard ID: _____

			CCB1 3/27/01 7:40 PM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Selenium	220.353	5	2.4 B				

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXT56BMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	3/25/01	14:39
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	3/25/01	18:06
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/25/01	18:06
Barium	493.409	0.41	200	0.41	U	1	ICP	3/25/01	14:39
Beryllium	313.042	0.071	5.0	0.071	U	1	ICP	3/25/01	14:39
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/25/01	18:06
Calcium	317.933	37.9	5000	37.9	U	1	ICP	3/25/01	14:39
Chromium	267.716	1.0	10.0	1.2	B	1	ICPST	3/25/01	18:06
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	3/25/01	14:39
Copper	324.754	2.2	25.0	2.2	U	1	ICP	3/25/01	14:39
Iron	259.94	8.8	100	16.7	B	1	ICP	3/25/01	14:39
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/25/01	18:06
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	3/25/01	14:39
Manganese	257.61	0.87	15.0	1.1	B	1	ICP	3/25/01	14:39
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	3/25/01	14:39
Potassium	766.491	496	5000	520	B	1	ICP	3/25/01	14:39
Selenium	220.353	2.1	5.0	-3	B	1	ICPST	3/25/01	18:06
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/25/01	18:06
Sodium	588.995	14.5	5000	14.5	U	1	ICP	3/25/01	14:39
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	3/25/01	18:06
Vanadium	292.402	1.8	50.0	3.4	B	1	ICP	3/25/01	14:39
Zinc	213.856	3.1	20.0	3.1	U	1	ICP	3/25/01	14:39

Comments: Lot #: C1C220173

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

680 764

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXX3VBMatrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094Weight: 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	0.054	U	1	CVAA	3/26/01	11:06

Comments: Lot #: C1C220173

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

680 765

Interference Check Standard A

Instrument: ICP

Units: ug/L

Chart Number: J10325A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0087-133-5

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/25/01 2:14 PM	Found	Found	Found	Found
				Found				
Aluminum	308.215		500000	496000				
Barium	493.409	200		2				
Beryllium	313.042	5		0				
Calcium	317.933		500000	481000				
Cobalt	228.616	50		13				
Copper	324.754	25		0				
Iron	259.94		200000	184000				
Magnesium	279.079		500000	483000				
Manganese	257.61	15		1				
Nickel	231.604	40		-15				
Potassium	766.491	5000		90				
Sodium	588.995	5000		7				
Vanadium	292.402	50		4				
Zinc	213.856	20		5				

680 766

STL-Pittsburgh
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARCAcceptable Range: 0% - 0%Standard Source: Inorganic VenturesStandard ID: 0087-133-5

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/25/01 12:31 PM				
				Found	Found	Found	Found	Found
Antimony	220.353	60		-1				
Arsenic	189.042	10		3				
Cadmium	226.502	5		-2				
Chromium	267.716	10		5				
Lead	220.353	3		0				
Selenium	220.353	5		1				
Silver	328.068	10		1				
Thallium	190.864	10		-3				

STL-Pittsburgh
Metals Data Reporting Form

689 767

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T10327C.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0087-133-5

				ICSA 3/27/01 6:48 PM				
Element	WL/ Mass	Reporting Limit	True Conc	Found	Found	Found	Found	Found
Selenium	220.353	5		7				

STL-Pittsburgh

680 768

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICP

Units: ug/L

Chart Number: J10325A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0087-133-6

Element	WL/ Mass	True Conc	ICSAB 3/25/01 2:17 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	494735.3	98.9								
Barium	493.409	500	468.2	93.6								
Beryllium	313.042	500	457.5	91.5								
Calcium	317.933	500000	478477.2	95.7								
Cobalt	228.616	500	465.5	93.1								
Copper	324.754	500	494.4	98.9								
Iron	259.94	200000	183713.2	91.9								
Magnesium	279.079	500000	480358.9	96.1								
Manganese	257.61	500	457.6	91.5								
Nickel	231.604	1000	894.4	89.4								
Potassium	766.491	10000	9990.8	99.9								
Sodium	588.995	10000	10088.5	100.9								
Vanadium	292.402	500	470.8	94.2								
Zinc	213.856	1000	955.8	95.6								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T10325A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-081-6

Element	WL/ Mass	True Conc	ICSAB 3/25/01 12:35 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	1000	1051.3	105.1								
Arsenic	189.042	1000	1043.9	104.4								
Cadmium	226.502	1000	949.0	94.9								
Chromium	267.716	500	509.4	101.9								
Lead	220.353	1000	992.6	99.3								
Selenium	220.353	1000	1038.6	103.9								
Silver	328.068	1000	1106.8	110.7								
Thallium	190.864	1000	1014.8	101.5								

680 770

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T10327C.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-081-6

Element	WL/ Mass	True Conc	ICSAB 3/27/01 6:52 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Selenium	220.353	1000	1035.2	103.5								

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXRH2SOriginal Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004SMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	3750		6880	N	2000	156.7	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Antimony	220.4	4.9	B	512		500	101.4	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Arsenic	189.0	21.0		2110		2000	104.2	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Barium	493.4	112	B	1850		2000	87.1	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Beryllium	313.0	0.34	B	42.6		50	84.4	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Cadmium	226.5	0.49	U	46.2		50	92.4	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Calcium	317.9	27400		72900		50000	91.0	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Chromium	267.7	145		345		200	100.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Cobalt	228.6	5.1	B	445		500	88.0	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Copper	324.8	27.1		273		250	98.2	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Iron	259.9	3600		4600		1000	100.3	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Lead	220.4	8.8		490		500	96.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Magnesium	279.1	5680		50400		50000	89.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Manganese	257.6	99.5		547		500	89.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Nickel	231.6	10.5	B	443		500	86.5	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Potassium	766.5	5520		57900		50000	104.8	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Selenium	220.4	2.1	U	2030		2000	101.6	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Silver	328.1	1.5	B	54.9		50	106.8	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Sodium	589	3670000		3430000	NC	50000		25	25	ICP	3/25/01	19:19	3/25/01	19:26
Thallium	190.9	8.6	B	2070		2000	103.2	1	1	ICPST	3/25/01	18:15	3/25/01	18:24
Vanadium	292.4	10.7	B	465		500	90.8	1	1	ICP	3/25/01	14:52	3/25/01	14:58
Zinc	213.9	614		1110		500	99.6	1	1	ICP	3/25/01	14:52	3/25/01	14:58

Comments: Lot #: C1C220173 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 SA Equivalent

680 772

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXRH2D
 Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004SD
 Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	3750	N	6450	N	2000	135.1	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Antimony	220.4	4.9	B	499		500	98.9	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Arsenic	189.0	21.0		2060		2000	102.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Barium	493.4	112	B	1740		2000	81.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Beryllium	313.0	0.34	B	40.8		50	80.9	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Cadmium	226.5	0.49	U	45.8		50	91.7	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Calcium	317.9	27400		71800		50000	88.8	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Chromium	267.7	145		338		200	96.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Cobalt	228.6	5.1	B	435		500	86.0	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Copper	324.8	27.1		251		250	89.6	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Iron	259.9	3600		4440		1000	84.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Lead	220.4	8.8		482		500	94.5	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Magnesium	279.1	5680		48000		50000	84.6	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Manganese	257.6	99.5		531		500	86.3	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Nickel	231.6	10.5	B	433		500	84.5	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Potassium	766.5	5520		53600		50000	96.2	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Selenium	220.4	2.1	U	1980		2000	99.0	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Silver	328.1	1.5	B	52.7		50	102.3	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Sodium	589	3670000		3480000	NC	50000		25	25	ICP	3/25/01	19:19	3/25/01	19:35
Thallium	190.9	8.6	B	2020		2000	100.7	1	1	ICPST	3/25/01	18:15	3/25/01	18:28
Vanadium	292.4	10.7	B	448		500	87.4	1	1	ICP	3/25/01	14:52	3/25/01	15:01
Zinc	213.9	614		1060		500	90.0	1	1	ICP	3/25/01	14:52	3/25/01	15:01

Comments: Lot #: C1C220173 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

STL-Pittsburgh
Metals Data Reporting Form

680 773

Matrix Spike Sample Results

Spike Sample ID: DXRH2S
Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004S
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
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	0.16	B	1.2		1	101.6	1	1	CVAA	3/26/01	11.10	3/26/01	11:11

Comments: Lot #: C1C220173 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

680 774

STL-Pittsburgh
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXRH2D
Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004SD
Matrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.16	B	1.3		1	113.6	1	1	CVAA	3/26/01	11:10	3/26/01	11:13

Comments: Lot #: C1C220173 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: DXRH2DMatrix Spike Sample ID: DXRH2S Client ID: DF/24-B/1080/IDW/004SDMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: 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	6880	N	6450	N	14.8 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Antimony	220.353	512		499		2.5 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Arsenic	189.042	2110		2060		2.2 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Barium	493.409	1850		1740		6.7 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Beryllium	313.042	42.6		40.8		4.2 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Cadmium	226.502	46.2		45.8		0.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Calcium	317.933	72900		71800		2.5 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Chromium	267.716	345		338		3.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Cobalt	228.616	445		435		2.3 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Copper	324.754	273		251		9.2 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Iron	259.94	4600		4440		17.0 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Lead	220.353	490		482		1.8 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Magnesium	279.079	50400		48000		5.6 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Manganese	257.61	547		531		3.7 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Nickel	231.604	443		433		2.4 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Potassium	766.491	57900		53600		8.6 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Selenium	220.353	2030		1980		2.6 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Silver	328.068	54.9		52.7		4.4 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Sodium	588.995	3430000	NC	3480000	NC		25	25	ICP	3/25/01	19:26	3/25/01	19:35
Thallium	190.864	2070		2020		2.5 %	1	1	ICPST	3/25/01	18:24	3/25/01	18:28
Vanadium	292.402	465		448		3.8 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01
Zinc	213.856	1110		1060		10.1 %	1	1	ICP	3/25/01	14:58	3/25/01	15:01

Comments: Lot #. C1C220173 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

680 776

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXRH2DMatrix Spike Sample ID: DXRH2S Client ID: DF/24-B/1080/IDW/004SDMatrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094Weight: 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	1.2		1.3		11.2 %	1	1	CVAA	3/26/01	11:11	3/26/01	11:13

Comments: Lot #: C1C220173 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

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE