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File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 677

SEVERN
TRENT
SERVICES

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

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

ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

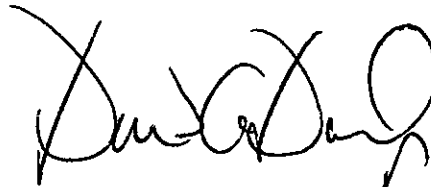
Dunn Field, Def Depot Memphis

Lot #: C1B230148

Frank Johnson

Memphis Depot

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

March 14, 2001

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C1B230148

Sample Receiving:

STL Pittsburgh received samples on February 23, 2001 in good condition and within the proper temperature range.

Volatiles:

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

Sample DF/24-A/1053/IDW/003 foamed in the purge tube when purged, therefore a lesser dilution could not be analyzed.

Semivolatiles:

Due to the sample matrix, samples DF/24-B/1053/IDW/001 and DF/24-A/1053/IDW/002 each had several surrogate recoveries outside of the control limits. These samples also had the third and 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. Bis(2-ethylhexyl)phthalate was the only compound detected which is normally quantitated from the sixth internal standard. Using the fifth internal standard to quantitate bis(2-ethylhexyl)phthalate, the result was below the less than the MDL.

Due to the sample matrix, sample DF/24-B/1053/IDW/003 had the sixth internal standard area counts outside of the control limits.

The results of these samples were discussed with the client. Based on knowledge of the matrix (clorox based rinse water) and the damage to the GC column by the samples, it was decided reanalysis would not provide improved data. Therefore, the original results are reported.

Pesticides:

For the initial calibration standards analyzed on the RTX-1701 column on February 27, 2001, alpha-BHC and gamma-BHC had %RSDs outside of the 20% criteria (25.2% and 21.0% respectively). 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.

The recovery of tetrachloro-m-xylene surrogate was 0% on column RTX-50 for samples DF/24-B/1053/IDW/001 and DF/24-A/1053/IDW/002. The recovery on column RTX1701 and the recoveries of decachlorobiphenyl were within control limits.

CASE NARRATIVE
UXB International Inc.
Dunn Field

677

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LOT # C1B230148

PCBs:

The tetrachloro-m-xylene surrogate recovery was outside control limits in all samples. The recovery of decachlorobiphenyl was within control limits, therefore all results were reported.

Herbicides:

All of the samples had the recovery of the DCAA surrogate outside of the control limits on the DB1701 column. The recoveries on the RTX-50 column were within the control limits.

Metals:

The matrix spike and matrix spike duplicate were outside control limits for aluminum. All associated results were flagged with an "N" qualifier.

Samples DF/24-B/1053/IDW/001, its matrix spikes, and DF/24-A/1053/IDW/002 were over the instrument's linear range for sodium and required a dilution.

For sample DF/24-B/1053/IDW/001 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.

General Chemistry:

There were no problems associated with the analyses.

METHODS SUMMARY

C1B230148

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

C1B230148

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DWJJM	001	DF/24-B/1053/IDW/001	02/22/01	11:56
DWJJ3	002	DF/24-A/1053/IDW/002	02/22/01	10:15
DWJKC	003	DF/24-A/1053/IDW/003	02/22/01	10:56

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

Seyern Trent Laboratories, Inc.

Chain of Custody Number 00

Chain of Custody Number: 00

—

Page 1 of 1

1

**Special Instru
Conditions of**

CONCLUSIONS

[illegible]

[illegible][illegible]

assad, if samples are retained

...seen" samples are retained
(1/10ths)

Date _____ Time _____

2-23-01 10

Date _____ Time _____

Date	Time

1

STL Pittsburgh

Chain of Custody Record

SEVERN
TRENT
SERVICES

S vern Trent Laboratories, Inc.

677

STL 4124 (0700)

Client

WXB

Address

1708 Dunn Ave

City

Memphis

Project Name and Location (State)

Dunn Field TN

Contract/Purchase Order/Quote No

Project Manager

Frank Johnson

Telephone Number (Area Code)/Fax Number

(901) 745-4999 Fax X-4280

Site Contact

Jim Dunkle

Carrier/Maybill Number

835026176702

Date

Lab Number

Page

1 of 1

Chain of Custody Number
002199

Sample ID No and Description
(Containers for each sample may be combined on one line)

Date

Time

Ar

Aqueous

Sed

Soil

Unpres

Pres

HNOS

HCl

NaOH

ZnAc/NaOH

Matrix

Containers & Preservatives

Analysis (Attach list if more space is needed)

TEL VOA

TEL BNA/Richline

TEL Pesticides/POBs

Herbicides

Total Cyanide

TAL Metals

Total Sulphides

PH

Flashpoint

Special Instructions/
Conditions of Receipt

Possible Hazard Identification

☒ Non-Hazard

☐ Flammable

☐ Skin Irritant

☐ Poison B

☐ Unknown

☐ Return to Client

☐ Disposal By Lab

☐ Archive For

☐ Months

☐ (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours

☐ 48 Hours

☐ 7 Days

☐ 14 Days

☐ 21 Days

☐ Other

1 Relinquished By

2 Relinquished By

3 Relinquished By

Date

Time

Date

Time

Received By

2 Received By

3 Received By

Date

Time

Date

Time

Comments

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

STL Pittsburgh

Chain of Custody Record

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

677

STL-4124 (07/00)

Client

LEKIS

Project Manager

Frank Johnson

Date

2/22/01

Chain of Custody Number

002201

Address

1708 Dunn Ave

Telephone Number (Area Code)/Fax Number

(901) 745-4999 (FAX - 4280)

Lab Number

Page _____ of _____

City

Memphis

State

TN

Zip Code

38106

Site Contact

Jim Dunn

Lab Contact

Project Name and Location (State)

Dunn Field TN

Current Maybill Number

825026176698

Contract/Purchase Order/Quote No

Sample ID No. and Description

(Containers for each sample may be combined on one line)

DE/24-A/1053/200/003

Date

2/24/01

Time

1056

Aqueous

1

Sed

Soil

Unpres

8

Water

1

HNOS

2

HCl

1

NaOH

1

ZnAc/NaOH

1

TEL VOA's

X

TEL BUA + Pyridine

X

TEL Pesticides/PCBs

X

Herbicides

X

TEL Metals

X

Total Cyanide

X

Total Sulfide

X

PH

X

Flashpoint

X

Special Instructions/
Conditions of Receipt

Possible Hazard Identification

☐ Non-Hazard

☐ Flammable

☐ Skin Irritant

☐ Poison B

☐ Unknown

☐ Return To Client

☐ Disposal By Lab

☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours

☐ 48 Hours

☐ 7 Days

☐ 14 Days

☐ 21 Days

☐ Other _____

1 Relinquished By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

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2 Relinquished By

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3 Relinquished By

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Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Received By

Date

Time

Comments

DISTRIBUTION - WHITE - Stays with the Sample - CANARY - Returned to Client with Report - PINK - Field Copy

Cooler Receipt Form
STL Pittsburgh

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Client. UXB Project Dunn Field Quote. 34878

Cooler Rec'd & Opened for Temp. Check on: 2-23-01

Coolers Opened and Unpacked on: 2-23-01

By: [Signature]
(Signature)

STL Pittsburgh Lot Number: CIB 230148

	Yes	No
1. Were custody seals on the outside of the cooler? _____	☒	☐
If YES, how many and where? Quantity <u>2</u> Location <u>FRONT</u>		
Were signatures and date correct? _____	☒	☐
2. Were custody papers included inside the cooler? _____	☒	☐
3. Were custody papers properly filled out (ink, signed, match labels)? _____	☒	☐
4. Did you sign the custody papers in the appropriate place? _____	☒	☐
5. Was shippers packing slip attached to this form? _____	☒	☐
6. Were packing materials used? _____	☒	☐
If YES, what type? <u>BUBBLE BAGS</u>		
7. Were the samples chilled? (Record temperatures on reverse side.) _____	☒	☐
8. Were the samples appropriately preserved? _____	☒	☐
9. Were all bottles sealed in separate plastic bags? _____	☒	☐
10. Did all bottles arrive in good condition (unbroken)? _____	☒	☐
11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____	☒	☐
12. Did all bottle labels and/or tags agree with custody papers? _____	☒	☐
13. Were correct bottles used for tests indicated? _____	☒	☐
14. Were all VOA vials checked for the presence of air bubbles? _____	☒	☐
15. Was a sufficient amount of sample sent in each bottle? _____	☒	☐
16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER AIRBORNE		

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies

STL Pittsburgh

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UP: Unpreserved

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

Comments:

[illegible]

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

FedEx

Tracking Number 813523714881

Date

3/22/01

Sender's Name

James A Dunkle

Phone

901 745-1999

Company

LITB

Address

1708 Dunn Ave

City

Memphis

State

TN ZIP 38106

2 Your Internal Billing Reference

3 To

Recipient's Name

Rusty Vincinie

Phone

412 880-2091

Company

Severn Trent

Address

450 William Pitt Way

City/Front/Back Office

Day/Front/Back Office

Do NOT print or write on this label.

Printed address here.

City/Front/Back Office

State

PA

ZIP

15238



813523714881

Form ID No.

0200

4a Express Freight Service

☒ FedEx Priority Overnight☐ FedEx Standard Overnight☐ FedEx First Overnight☐ FedEx 2Day☐ FedEx Express Saver☐ FedEx 1Day Freight☐ FedEx 2Day Freight☐ FedEx 3Day Freight

4b Express Freight Service

☐ FedEx 1Day Freight☐ FedEx 2Day Freight☐ FedEx 3Day Freight☐ FedEx 4Day Freight☐ FedEx 5Day Freight☐ FedEx 6Day Freight

5 Packaging

☐ FedEx Letter☐ FedEx Pak☐ Other Pkg.☐ Other Pkg.☐ Other Pkg.☐ Other Pkg.

6 Special Handling

☐ Saturday Delivery☐ Sunday Delivery☐ Hold Weekday☐ Hold Saturday☐ Hold Sunday☐ Hold Monday

7 Payment

☐ Bill Me☐ Cash☐ Credit Card☐ Other☐ Other☐ Other

8 Release Signature

☐ Signature☐ Signature☐ Signature☐ Signature☐ Signature

9 Total Packages

Total Packages

Total Packages

Total Packages

Total Packages

Total Packages

Total Packages

10 Total Weight

Total Weight

Total Weight

Total Weight

Total Weight

Total Weight

Total Weight

11 Total Declared Value

Total Declared Value

Total Declared Value

Total Declared Value

Total Declared Value

Total Declared Value

Total Declared Value

12 Total Charges

Total Charges

Total Charges

Total Charges

Total Charges

Total Charges

Total Charges

13 Release Signature

Release Signature

Release Signature

Release Signature

Release Signature

Release Signature

Release Signature

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FedEx 15A. 15011
Express
Tracking Number **825026176698**

1 From

Date 2/22/01Sender's Name James Donkle Phone 704-745-4499Company EX-13 Distribution IncAddress 1764 Dinn Ave. City/State/Zip

2 Your Internal Billing Reference

3 To

Recipient's Name Healy Viviane Phone 412-830-2001Company Severin TrustAddress 1150 William Pitt Way City/State/ZipCity/State/Zip Pittsburgh PA 15235

825026176698

ID No. **0200**

4a Express Package Service

☒ FedEx Priority Overnight
Next business morning

☐ FedEx Standard Overnight
Next business morning

☐ FedEx Express Saver*
Third business day

☐ FedEx First Overnight
Second business morning
*FedEx First Overnight is not available for international shipments

4b Express Freight Service

☐ FedEx 1Day Freight*
Next business day

☐ FedEx 2Day Freight
Second business day

☐ FedEx 3Day Freight
Third business day

5 Packaging

☐ FedEx Envelope/
Letter

☐ FedEx Pak*

☒ Other Pkg
*Please specify box, tube, and contents

6 Special Handling

☐ SATURDAY Delivery
Available only for FedEx Priority Overnight to select ZIP codes

☐ SUNDAY Delivery
Available only for FedEx Priority Overnight to select ZIP codes

☐ HOLD Saturday
at FedEx location
Guaranteed FedEx 2Day to select locations

☐ HOLD Sunday
at FedEx location
Guaranteed FedEx 2Day to select locations

☒ No
Does this shipment contain dangerous goods?
One box must be marked

☐ Yes
As per attached
Shipper's Declaration
not required

☐ Yes
Dry Ice
Dry Ice 3, UN 1825

☐ Dry Ice
Dry Ice 3, UN 1825

7 Payment Bill to

☒ Sender
Sender's Name
Sender's Address
Sender's City/State/Zip

☐ Recipient
Recipient's Name
Recipient's Address
Recipient's City/State/Zip

☐ Third Party
Third Party's Name
Third Party's Address
Third Party's City/State/Zip

☐ Credit Card
Credit Card No.
Exp. Date

☐ Cash/Check
Cash/Check No.

Total Packages

Total Weight

Total Declared Value*

Total Charges

8 Release Signature

☐ Release Signature
Sign to authorize delivery without additional signature

☐ Release Signature
Sign to authorize delivery without additional signature

By signing this document you agree to deliver this shipment without damage, a signature and agree to hold the carrier harmless from any resulting claims. For more information, visit our Web site at www.fedex.com or call 1-800-4FED-EX (1-800-436-3339).

360

Express Tracking Number 825026176702

2/22/01

Sender James A Donkls Phone 901 745-4999

City Memphis

Address 1708 Dunn Ave

State TN ZIP 38106

2 Your Internal Billing Reference

3 To

Recipient's Name Rusty Vickie Phone 412 820-2091

Company Seaton Tent

Address 450 William St

City Pittsburgh State PA ZIP 15238



4a Express Package Service

☒ FedEx Priority Overnight ☐ FedEx Standard Overnight

☐ Next Business Day ☐ Next Business Day

☐ FedEx 2Day ☐ FedEx Express Saver

☐ Express Freight Service

☐ FedEx 10Day Freight ☐ FedEx 20Day Freight

5 Packaging

☐ FedEx Envelope ☐ FedEx Pak

☐ Other Pkg

6 Special Handling

☐ SATURDAY Delivery ☐ SUNDAY Delivery

☐ Signature Required ☐ Signature Not Required

☐ Insure ☐ Insure

☐ Fragile ☐ Fragile

☐ Hazardous ☐ Hazardous

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

☐ Other ☐ Other

7 Payment Bill To

☐ Sender ☐ Recipient

☐ Third Party ☐ Credit Card

☐ Cash/Check

☐ Other ☐ Other

☐ Other ☐ Other

8 Release Signature

☐ Signature Required ☐ Signature Not Required

☐ Insure ☐ Insure

☐ Fragile ☐ Fragile

☐ Hazardous ☐ Hazardous

☐ Other ☐ Other

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

22 February 2001

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: John L Schwarz

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard
DF/24A/1053/IDW/ 002		ND	ND	N/A	ND
DF/24A/1053/IDW/ 003		ND	ND	N/A	ND
DF/24B/1053/IDW/ 001		ND	ND	N/A	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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJM1AA

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
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	5400	
74-87-3	Chloromethane	61	J
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix. (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJM1AA

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJ31AM

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
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	7000	
74-87-3	Chloromethane	500	U
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received 02/23/01

Work Order: DWJJ31AM

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-A/1053/IDW/002

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(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

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

Matrix: (soil/water) WATER Lab Sample ID: C1B230148 003

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

Sample WT/Vol: 5 / mL Date Received: 02/23/01
Work Order: DWJKCLAM Date Extracted: 02/28/01
Dilution factor: 5 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1059185

Client Sample Id: DF/24-A/1053/IDW/003

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	28	J B
71-43-2	Benzene	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	50	U
78-93-3	2-Butanone	100	U
75-15-0	Carbon disulfide	25	U
56-23-5	Carbon tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
124-48-1	Dibromochloromethane	25	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	400	
74-87-3	Chloromethane	50	U
75-34-3	1,1-Dichloroethane	25	U
107-06-2	1,2-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
100-41-4	Ethylbenzene	25	U
591-78-6	2-Hexanone	100	U
75-09-2	Methylene chloride	25	U
108-10-1	4-Methyl-2-pentanone	100	U
100-42-5	Styrene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
127-18-4	Tetrachloroethene	25	U
108-88-3	Toluene	25	U

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJKC1AM

Date Extracted: 02/28/01

Dilution factor: 5

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1059185

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
79-01-6	Trichloroethene	25	U
75-01-4	Vinyl chloride	50	U
1330-20-7	Xylenes (total)	25	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1B260000 148

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

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWLWE1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-43-2	Benzene	52.8	
108-90-7	Chlorobenzene	53.2	
75-35-4	1,1-Dichloroethene	46.1	
108-88-3	Toluene	52.6	
79-01-6	Trichloroethene	54.9	

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UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1B280000 185

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

Sample WT/Vol: 5 / mL

Date Received: 02/19/01

Work Order: DWPQV1AC

Date Extracted: 02/28/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1059185

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	46.9	Q
108-90-7	Chlorobenzene	45.6	
75-35-4	1,1-Dichloroethene	56.8	
108-88-3	Toluene	46.5	
79-01-6	Trichloroethene	59.6	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	91	93	93	97	00
02	DF/24-B/1053/IDW/001	95	97	98	103	00
03	DF/24-A/1053/IDW/002	96	96	98	102	00
04	DF/24-A/1053/IDW/003	85	101	97	94	00
05	INTRA-LAB QC	83	99	94	91	00
06	METHOD BLK. DWLWE1AA	95	97	97	101	00
07	METHOD BLK. DWPQV1AA	86	102	98	94	00
08	LCS DWLWE1AC	93	97	96	99	00
09	LCS DWPQV1AC	85	101	95	93	00
10	LAB MS/MSD D	94	97	98	98	00
11	LAB MS/MSD D	82	98	93	90	00
12	LAB MS/MSD S	93	97	97	99	00
13	LAB MS/MSD S	80	95	91	87	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

677 26

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWLWE1AC

BATCH: 1057148

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	46.1	92	65 - 119	
Trichloroethene	50.0	54.9	110	80 - 122	
Benzene	50.0	52.8	106	79 - 116	
Toluene	50.0	52.6	105	76 - 119	
Chlorobenzene	50.0	53.2	106	81 - 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS.

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLBIT

SDG No:

Lot #: C1B280000

WO #: DWPQV1AC

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	56.8	114	65 - 119	
Trichloroethene	50.0	59.6	119	80 - 122	
Benzene	50.0	46.9	94	79 - 116	
Toluene	50.0	46.5	93	76 - 119	
Chlorobenzene	50.0	45.6	91	81 - 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery. 0 out of 5 outside limits

COMMENTS.

FORM III

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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 #: C1B230105

WO #: DWH4P1A5

BATCH: 1057148

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	44.9	90	57 - 138	
Trichloroethene	50.0	ND	52.1	104	58 - 141	
Benzene	50.0	2.7	53.2	101	73 - 123	
Toluene	50.0	6.5	56.6	100	67 - 129	
Chlorobenzene	50.0	ND	51.1	102	70 - 122	

NOTES (S) :

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

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

COMMENTS:

FORM III

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

Lab Code: STLPIIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1B230105

WO #: DWH4P1A6

BATCH: 1057148

COMPOUND	SPIKE	MSD	MSD	QC LIMITS			QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD	REC	
1,1-Dichloroethene	50.0	44.1	88	1.7	20	57 - 138	
Trichloroethene	50.0	51.2	102	1.7	20	58 - 141	
Benzene	50.0	52.4	99	1.6	20	73 - 123	
Toluene	50.0	56.0	99	1.0	20	67 - 129	
Chlorobenzene	50.0	49.8	100	2.5	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:

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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 #: C1B230228

WO #: DWJ981AC

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Trichloroethene	50.0	ND	60.5	121	58 - 141	
Benzene	50.0	ND	47.1	94	73 - 123	
Toluene	50.0	ND	47.0	94	67 - 129	
1,1-Dichloroethene	50.0	ND	57.8	116	57 - 138	
Chlorobenzene	50.0	ND	46.3	93	70 - 122	

NOTES(S) :

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

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

COMMENTS:

FORM III

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

Lab Code: STLPIIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1B230228

WO #: DWJ981AD

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	50.0	57.3	115	0.76	20	57 - 138	
Trichloroethene	50.0	60.5	121	0.010	20	58 - 141	
Benzene	50.0	46.7	93	0.85	20	73 - 123	
Toluene	50.0	47.3	95	0.65	20	67 - 129	
Chlorobenzene	50.0	46.8	94	1.0	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.

SW846 8260B METHOD BLANK SUMMARY

DWLWE1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 4022602.D

Lot Number: C1B230148

Date Analyzed: 02/26/01

Time Analyzed: 06:58

Matrix: WATER

Date Extracted: 02/26/01

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP4

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DWH4P1AG	4022604.D	02/26/01	07:50
02	LAB MS/MSD	DWH4P1A5 S	4022605.D	02/26/01	08:16
03	LAB MS/MSD	DWH4P1A6 D	4022606.D	02/26/01	08:41
04	DF/24-B/1053/IDW/001	DWJUM1AA	4022618.D	02/26/01	13:54
05	DF/24-A/1053/IDW/002	DWJ31AM	4022619.D	02/26/01	14:23
06	CHECK SAMPLE	DWLWE1AC C	4022603.D	02/26/01	07:27
07					
08					
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26					
27					
28					
29					
30					

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1B260000 148
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 02/23/01
Work Order: DWLWE1AA Date Extracted: 02/26/01
Dilution factor: 1 Date Analyzed: 02/26/01
Moisture %: NA

QC Batch: 1057148

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: C1B260000 148

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWLWE1AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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

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BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DWPQV1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIIT

SDG Number:

Lab File ID: 3022804.D

Lot Number: C1B230148

Date Analyzed: 02/28/01

Time Analyzed: 10:09

Matrix: WATER

Date Extracted: 02/28/01

GC Column: RTX-624 ID .18

Extraction Method: 5030

Instrument ID: HP3

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-A/1053/IDW/003	DWJKC1AM	3022811.D	02/28/01	12:45
02	INTRA-LAB QC	DWJ981AA	3022807.D	02/28/01	11:16
03	LAB MS/MSD	DWJ981AC S	3022809.D	02/28/01	12:01
04	LAB MS/MSD	DWJ981AD D	3022810.D	02/28/01	12:23
05	CHECK SAMPLE	DWPQV1AC C	3022808.D	02/28/01	11:39
06					
07					
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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: C1B280000 185

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/19/01

Work Order: DWPQV1AA

Date Extracted: 02/28/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1059185

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.4	J
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

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

Matrix: (soil/water) WATER Lab Sample ID: C1B280000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 02/19/01
Work Order: DWPQV1AA Date Extracted: 02/28/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1059185

Client Sample Id: INTRA-LAB BLANK

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

677 38 8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID (Standard): CC40226

Date Analyzed: 02/26/01

Instrument ID: HP4

Time Analyzed: 0545

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	140702	10.12	206138	12.45	659481	7.00
UPPER LIMIT	281404	10.32	412276	12.65	1318962	7.20
LOWER LIMIT	70351	9.92	103069	12.25	329741	6.80
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	132612	10.12	194762	12.45	666265	7.01
02 INTRA-LAB CH	136102	10.13	201884	12.46	697020	7.01
03 DF/24-B/1053	125011	10.13	183117	12.46	610882	7.01
04 DF/24-A/1053	124403	10.12	182621	12.45	606075	7.01
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.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID (Standard): 1C30228

Date Analyzed: 02/28/01

Instrument ID: HP3

Time Analyzed: 0647

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	122772	9.74	194855	12.05	465426	6.61
UPPER LIMIT	245544	9.94	389710	12.25	930852	6.81
LOWER LIMIT	61386	9.54	97428	11.85	232713	6.41
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	116207	9.74	189464	12.06	441120	6.61
02 INTRA-LAB CH	119273	9.74	193836	12.06	457504	6.61
03 DF/24-A/1053	115078	9.74	189983	12.05	446913	6.61
04						
05						
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14						
15						
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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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

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	380	
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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	130	
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	6.4	J
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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	19	
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

Lab Name Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	8.7	J
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

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

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/003

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	35	
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	13	

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	5.1	J
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	5.5	J
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

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/003

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

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UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	38.7	Q
59-50-7	4-Chloro-3-methylphenol	54.6	
95-57-8	2-Chlorophenol	56.7	
106-46-7	1,4-Dichlorobenzene	37.2	
121-14-2	2,4-Dinitrotoluene	36.3	
100-02-7	4-Nitrophenol	50.8	
621-64-7	N-Nitrosodi-n-propylamine	36.0	
87-86-5	Pentachlorophenol	52.1	
108-95-2	Phenol	50.4	
129-00-0	Pyrene	40.5	
120-82-1	1,2,4-Trichlorobenzene	37.7	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	39.2	
59-50-7	4-Chloro-3-methylphenol	54.2	
95-57-8	2-Chlorophenol	58.2	
106-46-7	1,4-Dichlorobenzene	38.5	
121-14-2	2,4-Dinitrotoluene	36.3	
100-02-7	4-Nitrophenol	50.3	
621-64-7	N-Nitrosodi-n-propylamine	35.9	
87-86-5	Pentachlorophenol	49.0	
108-95-2	Phenol	51.4	
129-00-0	Pyrene	41.1	
120-82-1	1,2,4-Trichlorobenzene	38.8	

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1053/IDW/001	1.3*	0.0*	1.9*	588*	87	14	04
02	DF/24-A/1053/IDW/002	1.0*	0.0*	0.0*	36	72	9.1*	04
03	DF/24-A/1053/IDW/003	48	51	46	53	76	26	00
04	METHOD BLK. DWM121AA	51	55	51	61	62	80	00
05	LCS DWM121AC	68	64	66	76	82	83	00
06	LCSD DWM121AD	67	62	67	76	84	83	00

SURROGATES

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

QC LIMITS

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

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: STLPTIT

SDG No:

Lot #: C1B270000

WO #: DWM121AC

BATCH: 1058102

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	50.4	67	10- 131	
2-Chlorophenol	75.0	56.7	76	19- 124	
1,4-Dichlorobenzene	50.0	37.2	74	28- 110	
1,2,4-Trichlorobenzene	50.0	37.7	75	31- 110	
4-Chloro-3-methylphenol	75.0	54.6	73	29- 124	
N-Nitrosodi-n-propylamine	50.0	36.0	72	30- 115	
Acenaphthene	50.0	38.7	77	39- 118	
4-Nitrophenol	75.0	50.8	68	19- 144	
2,4-Dinitrotoluene	50.0	36.3	73	47- 131	
Pentachlorophenol	75.0	52.1	69	10- 140	
Pyrene	50.0	40.5	81	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 #: C1B270000

WO #: DWM121AD

BATCH: 1058102

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	51.4	69	10 - 131	
2-Chlorophenol	75.0	58.2	78	19 - 124	
1,4-Dichlorobenzene	50.0	38.5	77	28 - 110	
N-Nitrosodi-n-propylamine	50.0	35.9	72	30 - 115	
1,2,4-Trichlorobenzene	50.0	38.8	78	31 - 110	
4-Chloro-3-methylphenol	75.0	54.2	72	29 - 124	
Acenaphthene	50.0	39.2	78	39 - 118	
4-Nitrophenol	75.0	50.3	67	19 - 144	
2,4-Dinitrotoluene	50.0	36.3	73	47 - 131	
Pentachlorophenol	75.0	49.0	65	10 - 140	
Pyrene	50.0	41.1	82	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

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BLANK WORKORDER NO.

SW846 8270C METHOD BLANK SUMMARY

DWM121AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: F0228050.

Lot Number: C1B230148

Date Analyzed: 02/28/01

Time Analyzed: 21:31

Matrix: WATER

Date Extracted: 02/26/01

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/1053/IDW/001	DWJJM1AC	F0228054.	02/28/01	23:44
02	DF/24-A/1053/IDW/002	DWJJ31AN	F0228055.	03/01/01	00:18
03	DF/24-A/1053/IDW/003	DWJKC1AN	F0228056.	03/01/01	00:51
04	CHECK SAMPLE	DWM121AC C	F0228051.	02/28/01	22:05
05	DUPLICATE CHECK	DWM121AD L	F0228052.	02/28/01	22:38
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COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: INTRA-LAB BLANK

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

· UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

677

57

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

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

FORM I

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

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

677 59

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

01823048

Lab File ID (Standard): F02280CN

Date Analyzed: 02/28/01

Instrument ID: 722

Time Analyzed: 2058

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	172771	5.17	637392	6.73	351161	9.81
UPPER LIMIT	345542	5.67	1274784	7.23	702322	10.31
LOWER LIMIT	86386	4.67	318696	6.23	175581	9.31
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	213418	5.18	805500	6.74	459257	9.82
02 INTRA-LAB CH	191146	5.18	702702	6.74	413112	9.82
03 INTRA-LAB CH	185425	5.18	666365	6.74	395935	9.82
04 DF/24-B/1053	188601	5.19	722748	6.76	2017*	10.00
05 DF/24-A/1053	183814	5.18	690066	6.75	168697*	9.83
06 DF/24-A/1053	196688	5.18	714670	6.74	426533	9.84
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1873048

Lab File ID (Standard): F02280CN

Date Analyzed: 02/28/01

Instrument ID: 722

Time Analyzed: 2058

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	640090	13.13	709036	19.79	629475	23.16
UPPER LIMIT	1280180	13.63	1418072	20.29	1258950	23.66
LOWER LIMIT	320045	12.63	354518	19.29	314738	22.66
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	816712	13.14	810252	19.79	736159	23.17
02 INTRA-LAB CH	759229	13.14	816442	19.80	750406	23.17
03 INTRA-LAB CH	738875	13.14	782979	19.80	707525	23.17
04 DF/24-B/1053	775793	13.16	555909	19.84		
05 DF/24-A/1053	818218	13.17	1144952	19.84		
06 DF/24-A/1053	821455	13.17	1195887	19.84	1323643*	23.22
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

PESTICIDE SUMMARY

677 62

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.14	
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.033	J P
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.063	
72-55-9	4,4'-DDE	0.017	J P
50-29-3	4,4'-DDT	0.033	J P
60-57-1	Dieldrin	0.0066	J P
959-98-8	Endosulfan I	0.020	J P
33213-65-9	Endosulfan II	0.037	J P
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.081	
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.055	P
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AP

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.049	J P
319-86-8	delta-BHC	0.075	P
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	
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.029	J P
60-57-1	Dieldrin	0.045	J P
959-98-8	Endosulfan I	0.017	J P
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	0.037	J P
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.051	P
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: C1B230148 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AP

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0060	J P
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	0.018	J P
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.011	J P
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	0.0079	J P
72-43-5	Methoxychlor	0.036	J P
8001-35-2	Toxaphene	2.0	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: C1B260000 555

Sample WT/Vol: 1000 / mL
Work Order: DWMV51AC
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/26/01
Date Analyzed: 02/28/01

QC Batch: 1057555

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.238	
58-89-9	gamma-BHC (Lindane)	0.248	
50-29-3	4,4'-DDT	0.502	
60-57-1	Dieldrin	0.512	
72-20-8	Endrin	0.502	
76-44-8	Heptachlor	0.242	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B260000 555

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWMV51AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
309-00-2	Aldrin	0.237		
58-89-9	gamma-BHC (Lindane)	0.250		
50-29-3	4,4'-DDT	0.508		
60-57-1	Dieldrin	0.541		
72-20-8	Endrin	0.521		
76-44-8	Heptachlor	0.242		

2E
WATER PESTICIDE SURROGATE RECOVERY

677 67

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

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/1053	0*	130	100	110			1
02	DF/24-A/1053	0*	45	97	99			1
03	DF/24-A/1053	79	80	97	103			0
04	PBLK7555	99	99	106	106			0
05	LCS7555	101	102	100	101			0
06	LCD7555	101	99	102	102			0
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ADVISORY
QC LIMITS

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

S2 (DCB) = Decachlorobiphenyl (10-147)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

677 63

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWMV51AC

BATCH: 1057555

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aldrin	0.250	0.238	95	62 - 120	
Dieldrin	0.500	0.512	102	68 - 130	
Endrin	0.500	0.502	100	46 - 137	
4,4'-DDT	0.500	0.502	100	60 - 140	
gamma-BHC (Lindane)	0.250	0.248	99	49 - 137	
Heptachlor	0.250	0.242	97	57 - 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

STL Pittsburgh

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Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWMV51AD

BATCH: 1057555

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.250	100	49 - 137	
Heptachlor	0.250	0.242	97	57 - 124	
Aldrin	0.250	0.237	95	62 - 120	
Dieldrin	0.500	0.541	108	68 - 130	
Endrin	0.500	0.521	104	46 - 137	
4,4'-DDT	0.500	0.508	102	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

677 70

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK7555

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWMV51AA

Lab File ID: D-A2129

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 02/26/01

Date Analyzed (1): 02/28/01

Date Analyzed (2): 02/28/01

Time Analyzed (1): 2045

Time Analyzed (2): 2045

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/1053	DWJMJ1AD	02/28/01	02/28/01
02	DF/24-A/1053	DWJJ31AP	02/28/01	02/28/01
03	DF/24-A/1053	DWJKC1AP	02/28/01	02/28/01
04	LCS7555	DWMV51AC	02/28/01	02/28/01
05	LCD7555	DWMV51AD	02/28/01	02/28/01
06				
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COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID: C1B260000 555

Sample WT/Vol: 1000 / mL
Work Order: DWMV51AA
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/26/01
Date Analyzed: 02/28/01

QC Batch: 1057555

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AE

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-B/1053/IDW/001

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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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AQ

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-A/1053/IDW/002

		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

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AQ

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-A/1053/IDW/003

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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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: C1B260000 556

Sample WT/Vol: 1000 / mL
Work Order: DWMV81AC
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/26/01
Date Analyzed: 02/28/01

QC Batch: 1057556

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	9.46	
11096-82-5	Aroclor 1260	10.1	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B260000 556

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWMV81AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
12674-11-2	Aroclor 1016	9.49	
11096-82-5	Aroclor 1260	10.1	

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SW846 8082 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1053/IDW/001	616*	98	01
02	DF/24-A/1053/IDW/002	341*	93	01
03	DF/24-A/1053/IDW/003	136*	92	01
04	METHOD BLK. DWMV81AA	98	100	00
05	LCS DWMV81AC	97	99	00
06	LCSD DWMV81AD	98	99	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
 SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)

~~(24-128)~~ OK MBM 3/02/01

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 #: C1B260000

WO #: DWMV81AC

BATCH: 1057556

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	9.46	95	61- 118	
Aroclor 1260	10.0	10.1	101	61- 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

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SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWMV81AD

BATCH: 1057556

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	9.49	95	61- 118	
Aroclor 1260	10.0	10.1	101	61- 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

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BLANK WORKORDER NO.

SW846 8082 METHOD BLANK SUMMARY

DWMV81AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A10822.

Lot Number: C1B230148

Matrix: WATER

Extraction Method:

Date Extracted: 02/26/01

Date Analyzed(1): 02/28/01

Date Analyzed(2): N/A

Time Analyzed(1): 10:47

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/1053/IDW/001	DWJJM1AE	02/28/01	N/A
02	DF/24-A/1053/IDW/002	DWJJ31AQ	02/28/01	N/A
03	DF/24-A/1053/IDW/003	DWJKC1AQ	02/28/01	N/A
04	CHECK SAMPLE	DWMV81AC C	02/28/01	N/A
05	DUPLICATE CHECK	DWMV81AD L	02/28/01	N/A
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
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1B260000 556

Sample WT/Vol: 1000 / mL
Work Order: DWMV81AA
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/26/01
Date Analyzed: 02/28/01

QC Batch: 1057556

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: C1B230148 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1CC

Date Extracted: 02/27/01

Dilution factor: 1

Date Analyzed: 03/02/01

Moisture %: NA

QC Batch: 1058437

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		3.0	J P
93-72-1	2,4,5-TP (Silvex)		2.1	

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31CC

Date Extracted: 02/27/01

Dilution factor: 1

Date Analyzed: 03/02/01

Moisture %: NA

QC Batch: 1058437

Client Sample Id: DF/24-A/1053/IDW/002

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)		3.6	

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1CC

Date Extracted: 02/27/01

Dilution factor: 1

Date Analyzed: 03/02/01

Moisture %: NA

QC Batch: 1058437

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		4.0	U
93-72-1	2,4,5-TP (Silvex)		0.56	J

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

677 87

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

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

Lab Sample ID: C1B270000 437

Sample WT/Vol: 1000 / mL
Work Order: DWPDG1AC
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/27/01
Date Analyzed: 03/02/01

QC Batch: 1058437

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
94-75-7	2,4-D		10.0	
93-72-1	2,4,5-TP (Silvex)		2.74	

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88

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 437

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWPDG1AD

Date Extracted: 02/27/01

Dilution factor: 1

Date Analyzed: 03/02/01

Moisture %: NA

QC Batch: 1058437

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		9.11	
93-72-1	2,4,5-TP (Silvex)		2.51	

2E
WATER PESTICIDE SURROGATE RECOVERY

677 89

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

GC Column(1): RTX-50

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

	EPA	S1 1	S1 2	S2 1	S2 2	S3 1	S3 2	TOT
	SAMPLE NO.	%REC #	%REC #	%REC #	%REC #	%REC #	%REC #	OUT
01	DF/24-B/1053	57	341*					1
02	DF/24-A/1053	93	228*					1
03	DF/24-A/1053	88	227*					1
04	LCS8437	73						0
05	LCD8437	67						0
06	PBLK8437	72	74					0
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = DCAA

(53-119)

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

677 90

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1B270000

WO #: DWPDG1AC

BATCH: 1058437

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	10.0	62	46 - 124	
2,4,5-TP (Silvex)	4.00	2.74	68	53 - 127	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

STL Pittsburgh

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Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B270000

WO #: DWPDG1AD

BATCH: 1058437

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	9.11	57	46 - 124	
2,4,5-TP (Silvex)	4.00	2.51	63	53 - 127	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

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4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK8437

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWPDG1AA

Lab File ID: A-A00030

Matrix (soil/water) WATER

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

Sulfur Cleanup (Y/N) N

Date Extracted: 02/27/01

Date Analyzed (1): 03/02/01

Date Analyzed (2): 03/02/01

Time Analyzed (1): 1115

Time Analyzed (2): 1144

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	DF/24-B/1053	DWJJMLCC	03/02/01	03/02/01
02	DF/24-A/1053	DWJJ31CC	03/02/01	03/02/01
03	DF/24-A/1053	DWJJ31CC	03/02/01	03/02/01
04	LCS8437	DWPDG1AC	03/02/01	
05	LCD8437	DWPDG1AD	03/02/01	
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: C1B270000 437

Sample WT/Vol: 1000 / mL
Work Order: DWPDG1AA
Dilution factor: 1
Moisture %: NADate Received: 02/23/01
Date Extracted: 02/27/01
Date Analyzed: 03/02/01

QC Batch: 1058437

Client Sample Id: INTRA-LAB BLANK

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

METALS SUMMARY

STL-Pittsburgh
Metals Data Reporting Form

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Sample Results

Lab Sample ID: DWJJ3 Client ID: DF/24-A/1053/IDW/002
Matrix: Water Units: ug/L Prep Date: 2/24/01 Prep Batch: 1054355
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	0.29		1	CVAA	2/24/01	10:34

Comments: Lot #: C1B230148 Sample #: 2

Version 4 10.2

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

Form 1 Equivalent

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STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DWJJM Client ID: DF/24-B/1053/IDW/001
Matrix: Water Units: ug/L Prep Date: 2/24/01 Prep Batch: 1054355
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	2/24/01	10:32

Comments: Lot #: C1B230148 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Sample Results

Lab Sample ID: DWJKC Client ID: DF/24-A/1053/IDW/003
Matrix: Water Units: ug/L Prep Date: 2/24/01 Prep Batch: 1054355
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	0.081	B	1	CVAA	2/24/01	10:39

Comments: Lot #: C1B230148 Sample # 3

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

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STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DWJJMClient ID: DF/24-B/1053/IDW/001Matrix: WaterUnits: ug/LPrep Date: 2/26/01Prep Batch: 1057180Weight: NAVolume: 50Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.7	200	2670	N	1	ICP	2/27/01	17:54
Antimony	220.35	1.5	10.0	7.2	B	1	ICPST	3/1/01	11:19
Arsenic	189.04	2.6	10.0	5.3	B	1	ICPST	3/1/01	11:19
Barium	493.41	0.41	200	93.8	B	1	ICP	2/27/01	17:54
Beryllium	313.04	0.071	5.0	0.071	U	1	ICP	2/27/01	17:54
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/1/01	11:19
Calcium	317.93	37.9	5000	42000		1	ICP	2/27/01	17:54
Chromium	267.72	1.0	10.0	51.2		1	ICPST	3/1/01	11:19
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	2/27/01	17:54
Copper	324.75	2.2	25.0	23.2	B	1	ICP	2/27/01	17:54
Iron	259.94	8.8	100	2950		1	ICP	2/27/01	17:54
Lead	220.35	1.9	3.0	5.6		1	ICPST	3/1/01	11:19
Magnesium	279.08	19.9	5000	7310		1	ICP	2/27/01	17:54
Manganese	257.61	0.87	15.0	291		1	ICP	2/27/01	17:54
Nickel	231.60	6.1	40.0	7.7	B	1	ICP	2/27/01	17:54
Potassium	766.49	496	5000	5720		1	ICP	2/27/01	17:54
Selenium	220.35	2.1	5.0	2.7	B	1	ICPST	3/1/01	11:19
Silver	328.07	0.94	10.0	1.3	B	1	ICPST	3/1/01	11:19
Sodium	589	72.5	25000	1420000		5	ICP	2/28/01	11:07
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/1/01	11:19
Vanadium	292.40	1.8	50.0	7.4	B	1	ICP	2/27/01	17:54
Zinc	213.86	3.1	20.0	61.9		1	ICP	2/27/01	17:54

Comments: Lot #: C1B230148 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

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Sample Results

Lab Sample ID: DWJJ3 Client ID: DF/24-A/1053/IDW/002
Matrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180
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	252	N	1	ICP	2/27/01	18:07
Antimony	220.35	1.5	10.0	9.5	B	1	ICPST	3/1/01	11:36
Arsenic	189.04	2.6	10.0	50.9		1	ICPST	3/1/01	11:36
Barium	493.41	0.41	200	99.4	B	1	ICP	2/27/01	18:07
Beryllium	313.04	0.071	5.0	0.071	U	1	ICP	2/27/01	18:07
Cadmium	226.50	0.49	5.0	1.1	B	1	ICPST	3/1/01	11:36
Calcium	317.93	37.9	5000	47800		1	ICP	2/27/01	18:07
Chromium	267.72	1.0	10.0	87.4		1	ICPST	3/1/01	11:36
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	2/27/01	18:07
Copper	324.75	2.2	25.0	25.0	B	1	ICP	2/27/01	18:07
Iron	259.94	8.8	100	332		1	ICP	2/27/01	18:07
Lead	220.35	1.9	3.0	2.5	B	1	ICPST	3/1/01	11:36
Magnesium	279.08	19.9	5000	10800		1	ICP	2/27/01	18:07
Manganese	257.61	0.87	15.0	187		1	ICP	2/27/01	18:07
Nickel	231.60	6.1	40.0	11.3	B	1	ICP	2/27/01	18:07
Potassium	766.49	496	5000	4460	B	1	ICP	2/27/01	18:07
Selenium	220.35	2.1	5.0	2.9	B	1	ICPST	3/1/01	11:36
Silver	328.07	0.94	10.0	1.5	B	1	ICPST	3/1/01	11:36
Sodium	589	72.5	25000	794000		5	ICP	2/28/01	11:26
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/1/01	11:36
Vanadium	292.40	1.8	50.0	5.1	B	1	ICP	2/27/01	18:07
Zinc	213.86	3.1	20.0	121		1	ICP	2/27/01	18:07

Comments: Lot #, C1B230148 Sample # 2

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DWJKC Client ID: DF/24-A/1053/IDW/003
 Matrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180
 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	355	N	1	ICP	2/27/01	18:10
Antimony	220.35	1.5	10.0	18.6		1	ICPST	3/1/01	11:41
Arsenic	189.04	2.6	10.0	20.2		1	ICPST	3/1/01	11:41
Barium	493.41	0.41	200	72.5	B	1	ICP	2/27/01	18:10
Beryllium	313.04	0.071	5.0	0.080	B	1	ICP	2/27/01	18:10
Cadmium	226.50	0.49	5.0	0.98	B	1	ICPST	3/1/01	11:41
Calcium	317.93	37.9	5000	36500		1	ICP	2/27/01	18:10
Chromium	267.72	1.0	10.0	20.3		1	ICPST	3/1/01	11:41
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	2/27/01	18:10
Copper	324.75	2.2	25.0	32.1		1	ICP	2/27/01	18:10
Iron	259.94	8.8	100	587		1	ICP	2/27/01	18:10
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	3/1/01	11:41
Magnesium	279.08	19.9	5000	9030		1	ICP	2/27/01	18:10
Manganese	257.61	0.87	15.0	516		1	ICP	2/27/01	18:10
Nickel	231.60	6.1	40.0	12.5	B	1	ICP	2/27/01	18:10
Potassium	766.49	496	5000	3500	B	1	ICP	2/27/01	18:10
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/1/01	11:41
Silver	328.07	0.94	10.0	0.94	U	1	ICPST	3/1/01	11:41
Sodium	589	14.5	5000	389000		1	ICP	2/27/01	18:10
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/1/01	11:41
Vanadium	292.40	1.8	50.0	5.0	B	1	ICP	2/27/01	18:10
Zinc	213.86	3.1	20.0	5270		1	ICP	2/27/01	18:10

Comments: Lot #: CIB230148 Sample #: 3

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

677 101

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: 0224HGA.PRN

Standard Source: _____

Standard ID: _____

			ICB1 2/24/01 8:57 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U				

677 102

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10227C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 2/27/01 4:24 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.4	U										
Beryllium	313.042	5	0.3	B										
Calcium	317.933	5000	-40.0	B										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.2	U										
Iron	259.94	100	8.8	U										
Magnesium	279.079	5000	19.9	U										
Manganese	257.61	15	0.9	U										
Nickel	231.604	40	6.1	U										
Potassium	766.491	5000	496.0	U										
Sodium	588.995	5000	14.5	U										
Vanadium	292.402	50	1.8	U										
Zinc	213.856	20	3.1	U										

STL-Pittsburgh
Metals Data Reporting Form

677 103

Initial Calibration Blank Results

Instrument: ICP

Units: ug/L

Chart Number: J10228A.ARC

Standard Source: _____

Standard ID: _____

			ICBI 2/28/01 10:07 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Sodium	588.995	5000	14.5	U				

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10301B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/1/01 10:54 AM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Antimony	220.353	10	1.9	B										
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	-6.4	B										

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0224HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 2/24/01 9 00 AM		CCB2 2/24/01 9:18 AM		CCB3 2/24/01 9:39 AM		CCB4 2/24/01 9:59 AM		CCB5 2/24/01 10:18 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0224HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 2/24/01 10:37 AM		CCB7 2/24/01 10:51 AM					
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U				

STL-Pittsburgh

Metals Data Reporting Form

677 107

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10227C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 2/27/01 5:03 PM		CCB2 2/27/01 5:41 PM		CCB3 2/27/01 6:19 PM			
			Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	12.7	U	12.7	U		
Barium	493.409	200	1.0	B	0.9	B	0.9	B		
Beryllium	313.042	5	0.8	B	0.3	B	0.8	B		
Calcium	317.933	5000	-55.0	B	-60.0	B	-52.0	B		
Cobalt	228.616	50	3.2	U	3.2	U	3.2	U		
Copper	324.754	25	2.2	U	2.2	U	2.3	B		
Iron	259.94	100	8.8	U	8.8	U	8.8	U		
Magnesium	279.079	5000	21.2	B	19.9	U	25.4	B		
Manganese	257.61	15	0.9	U	1.3	B	1.0	B		
Nickel	231.604	40	6.1	U	6.1	U	6.1	U		
Potassium	766.491	5000	496.0	U	496.0	U	496.0	U		
Sodium	588.995	5000	24.5	B	14.5	U	14.5	U		
Vanadium	292.402	50	1.8	U	1.8	U	1.8	U		
Zinc	213.856	20	-3.6	B	-4.6	B	-3.4	B		

677 108

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10228A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 2/28/01 10:45 AM	CCB2 2/28/01 11:23 AM	CCB3 2/28/01 12:01 PM		
			Found Q	Found Q	Found Q	Found Q	Found Q
Sodium	588.995	5000	23.9 B	14.5 U	14.5 U		

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10301B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/1/01 11:50 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	10	1.8	B						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	1.0	U	1.0	U	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	3.9	U						

677 110

STL-Pittsburgh
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DWKC1BMatrix: Water Units: ug/L Prep Date: 2/24/01 Prep Batch: 1054355Weight: 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	2/24/01	10:21

Comments: Lot #: C1B230148

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: DWL0XBMatrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180Weight: 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	2/27/01	17:48
Antimony	220.353	1.5	10.0	1.5	U	1	ICPST	3/1/01	11:10
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/1/01	11:10
Barium	493.409	0.41	200	1.3	B	1	ICP	2/27/01	17:48
Beryllium	313.042	0.071	5.0	0.080	B	1	ICP	2/27/01	17:48
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/1/01	11:10
Calcium	317.933	37.9	5000	-57	B	1	ICP	2/27/01	17:48
Chromium	267.716	1.0	10.0	1.0	U	1	ICPST	3/1/01	11:10
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	2/27/01	17:48
Copper	324.754	2.2	25.0	2.2	U	1	ICP	2/27/01	17:48
Iron	259.94	8.8	100	9.2	B	1	ICP	2/27/01	17:48
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/1/01	11:10
Magnesium	279.079	19.9	5000	20.6	B	1	ICP	2/27/01	17:48
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	2/27/01	17:48
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	2/27/01	17:48
Potassium	766.491	496	5000	496	U	1	ICP	2/27/01	17:48
Selenium	220.353	2.1	5.0	4.1	B	1	ICPST	3/1/01	11:10
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/1/01	11:10
Sodium	588.995	14.5	5000	34.7	B	1	ICP	2/27/01	17:48
Thallium	190.864	3.9	10.0	-4.2	B	1	ICPST	3/1/01	11:10
Vanadium	292.402	1.8	50.0	2.1	B	1	ICP	2/27/01	17:48
Zinc	213.856	3.1	20.0	-4.9	B	1	ICP	2/27/01	17:48

Comments: Lot #: C1B230148

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DWJJMS
 Original Sample ID: DWJJM Client ID: DF/24-B/1053/IDW/001S
 Matrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180
 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	2670		5420	N	2000	137.6	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Antimony	220.4	7.2	B	523		500	103.2	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Arsenic	189.0	5.3	B	2070		2000	103.3	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Barium	493.4	93.8	B	1930		2000	91.9	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Beryllium	313.0	0.071	U	47.1		50	94.2	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Cadmium	226.5	0.49	U	46.6		50	93.3	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Calcium	317.9	42000		91700		50000	99.3	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Chromium	267.7	51.2		259		200	103.7	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Cobalt	228.6	3.2	U	474		500	94.9	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Copper	324.8	23.2	B	272		250	99.3	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Iron	259.9	2950		3980		1000	103.3	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Lead	220.4	5.6		509		500	100.6	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Magnesium	279.1	7310		55400		50000	96.2	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Manganese	257.6	291		759		500	93.5	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Nickel	231.6	7.7	B	473		500	93.1	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Potassium	766.5	5720		58600		50000	105.8	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Selenium	220.4	2.7	B	2060		2000	102.8	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Silver	328.1	1.3	B	54.6		50	106.7	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Sodium	589	1420000		1480000	NC	50000		5	5	ICP	2/28/01	11:07	2/28/01	11:14
Thallium	190.9	3.9	U	2220		2000	110.8	1	1	ICPST	3/1/01	11:19	3/1/01	11:27
Vanadium	292.4	7.4	B	482		500	94.9	1	1	ICP	2/27/01	17:54	2/27/01	18:00
Zinc	213.9	61.9		555		500	98.5	1	1	ICP	2/27/01	17:54	2/27/01	18:00

Comments: Lot #: C1B230148 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

677 113

Matrix Spike Duplicate Sample Results

Spike Sample ID: DWJJMD

Original Sample ID: DWJJM

Client ID: DF/24-B/1053/IDW/001SD

Matrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180

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	2670	N	5330	N	2000	132.9	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Antimony	220.4	7.2	B	525		500	103.6	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Arsenic	189.0	5.3	B	2070		2000	103.2	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Barium	493.4	93.8	B	1910		2000	91.0	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Beryllium	313.0	0.071	U	45.8		50	91.7	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Cadmium	226.5	0.49	U	47.1		50	94.1	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Calcium	317.9	42000		85500		50000	87.0	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Chromium	267.7	51.2		259		200	104.1	1	1	ICPST	3/1/01	11:19	3/1/01	13:14
Cobalt	228.6	3.2	U	449		500	89.9	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Copper	324.8	23.2	B	270		250	98.9	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Iron	259.9	2950		3860		1000	91.5	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Lead	220.4	5.6		516		500	102.1	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Magnesium	279.1	7310		54000		50000	93.4	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Manganese	257.6	291		722		500	86.1	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Nickel	231.6	7.7	B	450		500	88.3	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Potassium	766.5	5720		58200		50000	105.0	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Selenium	220.4	2.7	B	2080		2000	103.9	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Silver	328.1	1.3	B	56.4		50	110.3	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Sodium	589	1420000		1500000	NC	50000		5	5	ICP	2/28/01	11:07	2/28/01	11:17
Thallium	190.9	3.9	U	2220		2000	110.8	1	1	ICPST	3/1/01	11:19	3/1/01	11:32
Vanadium	292.4	7.4	B	461		500	90.7	1	1	ICP	2/27/01	17:54	2/27/01	18:03
Zinc	213.9	61.9		530		500	93.7	1	1	ICP	2/27/01	17:54	2/27/01	18:03

Comments: Lot #: C1B230148 Sample #: 1

Version 4.10 2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DWJJMDMatrix Spike Sample ID: DWJJMS Client ID: DF/24-B/1053/IDW/001SDMatrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180Weight: 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	5420	N	5330	N	3.4 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Antimony	220.353	523		525		0.4 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Arsenic	189.042	2070		2070		0.1 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Barium	493.409	1930		1910		1.0 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Beryllium	313.042	47.1		45.8		2.7 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Cadmium	226.502	46.6		47.1		0.9 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Calcium	317.933	91700		85500		13.2 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Chromium	267.716	259		259		0.3 %	1	1	ICPST	3/1/01	11:27	3/1/01	13:14
Cobalt	228.616	474		449		5.4 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Copper	324.754	272		270		0.4 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Iron	259.94	3980		3860		12.1 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Lead	220.353	509		516		1.5 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Magnesium	279.079	55400		54000		2.9 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Manganese	257.61	759		722		8.2 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Nickel	231.604	473		450		5.2 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Potassium	766.491	58600		58200		0.8 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Selenium	220.353	2060		2080		1.0 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Silver	328.068	54.6		56.4		3.3 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Sodium	588.995	1480000	NC	1500000	NC		5	5	ICP	2/28/01	11:14	2/28/01	11:17
Thallium	190.864	2220		2220		0.0 %	1	1	ICPST	3/1/01	11:27	3/1/01	11:32
Vanadium	292.402	482		461		4.5 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03
Zinc	213.856	555		530		5.1 %	1	1	ICP	2/27/01	18:00	2/27/01	18:03

Comments: Lot #: C1B230148 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: DWKC1CMatrix: Water Units: ug/L Prep Date: 2/24/01 Prep Batch: 1054355Weight: 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	98.4		80-120	1	CVAA	2/24/01	10:23

Comments: Lot #. C1B230148

Version 4.10 2

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

Form 7 Equivalent

677 116

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DWL0XCMatrix: Water Units: ug/L Prep Date: 2/26/01 Prep Batch: 1057180Weight: 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	1970	98.3		80-120	1	ICP	2/27/01	17:51
Antimony	220.353	500	505	100.9		80-120	1	ICPST	3/1/01	11:14
Arsenic	189.042	2000	1990	99.7		80-120	1	ICPST	3/1/01	11:14
Barium	493.409	2000	1910	95.5		80-120	1	ICP	2/27/01	17:51
Beryllium	313.042	50.0	47.6	95.3		80-120	1	ICP	2/27/01	17:51
Cadmium	226.502	50.0	47.3	94.6		80-120	1	ICPST	3/1/01	11:14
Calcium	317.933	50000	49300	98.5		80-120	1	ICP	2/27/01	17:51
Chromium	267.716	200	205	102.3		80-120	1	ICPST	3/1/01	11:14
Cobalt	228.616	500	472	94.4		80-120	1	ICP	2/27/01	17:51
Copper	324.754	250	239	95.6		80-120	1	ICP	2/27/01	17:51
Iron	259.94	1000	1050	104.8		80-120	1	ICP	2/27/01	17:51
Lead	220.353	500	496	99.2		80-120	1	ICPST	3/1/01	11:14
Magnesium	279.079	50000	49400	98.8		80-120	1	ICP	2/27/01	17:51
Manganese	257.61	500	475	95.0		80-120	1	ICP	2/27/01	17:51
Nickel	231.604	500	463	92.6		80-120	1	ICP	2/27/01	17:51
Potassium	766.491	50000	48900	97.7		80-120	1	ICP	2/27/01	17:51
Selenium	220.353	2000	1990	99.6		80-120	1	ICPST	3/1/01	11:14
Silver	328.068	50.0	51.0	101.9		80-120	1	ICPST	3/1/01	11:14
Sodium	588.995	50000	49700	99.4		80-120	1	ICP	2/27/01	17:51
Thallium	190.864	2000	2060	102.9		80-120	1	ICPST	3/1/01	11:14
Vanadium	292.402	500	476	95.1		80-120	1	ICP	2/27/01	17:51
Zinc	213.856	500	467	93.5		80-120	1	ICP	2/27/01	17:51

Comments: Lot #: C1B230148

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/1053/IDW/001

General Chemistry

Lot-Sample #...: C1B230148-001 Work Order #...: DWJJM Matrix.....: WATER
Date Sampled...: 02/22/01 Date Received...: 02/23/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.4		No Units	SW846 9040	02/23/01	1054347
		Dilution Factor: 1		MS Run #.....: 1054146		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	02/24-02/26/01	1055094
		Dilution Factor: 1		MS Run #.....: 1055005		
Flashpoint	>201		deg F	SW846 1010	02/23/01	1054405
		Dilution Factor: 1		MS Run #.. . . .: 1054188		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	02/28/01	1059242
		Dilution Factor: 1		MS Run #.....: 1059102		

UXB INTERNATIONAL

677 119

Client Sample ID: DF/24-A/1053/IDW/002

General Chemistry

Lot-Sample #....: C1B230148-002 Work Order #....: DWJJ3 Matrix.....: WATER
Date Sampled....: 02/22/01 Date Received...: 02/23/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.8		No Units	SW846 9040	02/23/01	1054347
			Dilution Factor: 1	MS Run #.....: 1054146		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	02/24-02/26/01	1055094
			Dilution Factor: 1	MS Run #.....: 1055005		
Flashpoint	>201		deg F	SW846 1010	02/23/01	1054405
			Dilution Factor: 1	MS Run #.....: 1054188		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	02/28/01	1059242
			Dilution Factor: 1	MS Run #. . . .: 1059102		

677 120

UXB INTERNATIONAL

Client Sample ID: DF/24-A/1053/IDW/003

General Chemistry

Lot-Sample #...: C1B230148-003 Work Order #...: DWJKC Matrix.....: WATER
 Date Sampled...: 02/22/01 Date Received...: 02/23/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	11.8		No Units	SW846 9040	02/23/01	1054347
			Dilution Factor: 1	MS Run #.... : 1054146		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	02/24-02/26/01	1055094
			Dilution Factor: 1	MS Run #..... : 1055005		
Flashpoint	>201		deg F	SW846 1010	02/23/01	1054405
			Dilution Factor: 1	MS Run #..... : 1054188		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	02/28/01	1059242
			Dilution Factor: 1	MS Run #..... : 1059102		

677 121

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C1B230148

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	Work Order #: DWK8D1AA 10.0 Dilution Factor: 1	ug/L	MB Lot-Sample #: SW846 9012A	C1B240000-094 02/24-02/26/01	1055094
Total Sulfide	ND	Work Order #: DWPX71AA 1.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: MCAWW 376.1	C1B280000-242 02/28/01	1059242

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1B230148

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DWJ8A1AA (85 - 115)	LCS Lot-Sample#: C1B230000-347 SW846 9040	02/23/01	1054347
		Dilution Factor: 1			
Cyanide, Total	108	Work Order #: DWK8D1AC (85 - 115)	LCS Lot-Sample#: C1B240000-094 SW846 9012A	02/24-02/26/01	1055094
		Dilution Factor: 1			
Flashpoint	101	Work Order #: DWKQC1AA (85 - 115)	LCS Lot-Sample#: C1B230000-405 SW846 1010	02/23/01	1054405
		Dilution Factor: 1			
Total Sulfide	85	Work Order #: DWPX71AC (75 - 125)	LCS Lot-Sample#: C1B280000-242 MCAWW 376.1	02/28/01	1059242
		Dilution Factor: 1			

NOTE (S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1B230148

Matrix.....: WATER

Date Sampled...: 02/21/01

Date Received...: 02/22/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#: DWELT1CA-MS/DWELT1CC-MSD			MS Lot-Sample #: C1B210119-001	
54 N	(75 - 125)				SW846 9012A	02/24-02/26/01	1055094
48 N	(75 - 125)		11 (0-20)		SW846 9012A	02/24-02/26/01	1055094
Dilution Factor: 1							
MS Run #.....: 1055005							
Total Sulfide			WO#: DWHLG1DW-MS/DWHLG1DX-MSD			MS Lot-Sample #: C1B220250-001	
94	(75 - 125)				MCAWW 376.1	02/28/01	1059242
86	(75 - 125)		8.2 (0-20)		MCAWW 376.1	02/28/01	1059242
Dilution Factor: 1							
MS Run #.....: 1059102							

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits

677 124

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C1B230148

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

Matrix.....: WATER

Date Sampled...: 02/22/01

Date Received..: 02/23/01

% Moisture.....:

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint	>201	deg F	0.0	(0-0.0)	SW846 1010	02/23/01	1054405
Dilution Factor: 1			MS Run Number...: 1054188				

SD Lot-Sample #: CID250110 001
pH 8.4 8.4 No Units 0.24 (0-0.0) SW846 9040 02/23/01 1054347
Dilution Factor: 1 MS Run Number.: 1054146

677 125

GC/MS VOLATILE DATA

677 126

GC/MS VOLATILE
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No: . .

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	91	93	93	97	00
02	DF/24-B/1053/IDW/001	95	97	98	103	00
03	DF/24-A/1053/IDW/002	96	96	98	102	00
04	DF/24-A/1053/IDW/003	85	101	97	94	00
05	INTRA-LAB QC	83	99	94	91	00
06	METHOD BLK. DWLWE1AA	95	97	97	101	00
07	METHOD BLK. DWPQV1AA	86	102	98	94	00
08	LCS DWLWE1AC	93	97	96	99	00
09	LCS DWPQV1AC	85	101	95	93	00
10	LAB MS/MSD D	94	97	98	98	00
11	LAB MS/MSD D	82	98	93	90	00
12	LAB MS/MSD S	93	97	97	99	00
13	LAB MS/MSD S	80	95	91	87	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

677 128

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWLWE1AC

BATCH: 1057148

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	46.1	92	65 - 119	
Trichloroethene	50.0	54.9	110	80 - 122	
Benzene	50.0	52.8	106	79 - 116	
Toluene	50.0	52.6	105	76 - 119	
Chlorobenzene	50.0	53.2	106	81 - 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B280000

WO #: DWPQV1AC

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	56.8	114	65- 119	
Trichloroethene	50.0	59.6	119	80- 122	
Benzene	50.0	46.9	94	79- 116	
Toluene	50.0	46.5	93	76- 119	
Chlorobenzene	50.0	45.6	91	81- 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

677 130

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 #: C1B230105

WO #: DWH4P1A5

BATCH: 1057148

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	44.9	90	57- 138	
Trichloroethene	50.0	ND	52.1	104	58- 141	
Benzene	50.0	2.7	53.2	101	73- 123	
Toluene	50.0	6.5	56.6	100	67- 129	
Chlorobenzene	50.0	ND	51.1	102	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

677 131

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1B230105

WO #: DWH4P1A6

BATCH: 1057148

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	50.0	44.1	88	1.7	20	57- 138	
Trichloroethene	50.0	51.2	102	1.7	20	58- 141	
Benzene	50.0	52.4	99	1.6	20	73- 123	
Chlorobenzene	50.0	49.8	100	2.5	20	70- 122	
Toluene	50.0	56.0	99	1.0	20	67- 129	

NOTES (S) :

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

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

COMMENTS.

FORM III

677 132

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 #: C1B230228

WO #: DWJ981AC

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	57.8	116	57 - 138	
Trichloroethene	50.0	ND	60.5	121	58 - 141	
Benzene	50.0	ND	47.1	94	73 - 123	
Toluene	50.0	ND	47.0	94	67 - 129	
Chlorobenzene	50.0	ND	46.3	93	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

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

677 133

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1B230228

WO #: DWJ981AD

BATCH: 1059185

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	57.3	115	0.76	20	57 - 138	
Benzene	50.0	46.7	93	0.85	20	73 - 123	
Toluene	50.0	47.3	95	0.65	20	67 - 129	
Trichloroethene	50.0	60.5	121	0.010	20	58 - 141	
Chlorobenzene	50.0	46.8	94	1.0	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

677 134

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DWLWE1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 4022602.D

Lot Number: C1B230148

Date Analyzed: 02/26/01

Time Analyzed: 06:58

Matrix: WATER

Date Extracted: 02/26/01

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP4

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DWH4P1AG	4022604.D	02/26/01	07:50
02	LAB MS/MSD	DWH4P1A5 S	4022605.D	02/26/01	08:16
03	LAB MS/MSD	DWH4P1A6 D	4022606.D	02/26/01	08:41
04	DF/24-B/1053/IDW/001	DWJJM1AA	4022618.D	02/26/01	13:54
05	DF/24-A/1053/IDW/002	DWJJ31AM	4022619.D	02/26/01	14:23
06	CHECK SAMPLE	DWLWE1AC C	4022603.D	02/26/01	07:27
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

677 135

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DWPQV1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 3022804.D

Lot Number: C1B230148

Date Analyzed: 02/28/01

Time Analyzed: 10:09

Matrix: WATER

Date Extracted: 02/28/01

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP3

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-A/1053/IDW/003	DWJKC1AM	3022811.D	02/28/01	12:45
02	INTRA-LAB QC	DWJ981AA	3022807.D	02/28/01	11:16
03	LAB MS/MSD	DWJ981AC S	3022809.D	02/28/01	12:01
04	LAB MS/MSD	DWJ981AD D	3022810.D	02/28/01	12:23
05	CHECK SAMPLE	DWPQV1AC C	3022808.D	02/28/01	11:39
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

677 136

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Lab File ID: BF40123

BFB Injection Date: 01/23/01

Instrument ID: HP4

BFB Injection Time: 1014

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

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	40.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.0 (7.3)1
176	95.0 - 101.0% of mass 174	67.1 (98.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.9)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	VSTD20	VSTD20	1B40123	01/23/01	1346
02	VSTD50	VSTD50	1C40123	01/23/01	1409
03	VSTD100	VSTD100	1D40123	01/23/01	1440
04	VSTD200	VSTD200	1E40123	01/23/01	1505
05	VSTD5	VSTD5	2A40123	01/23/01	1715
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)

677 137

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30220N

Lab File ID: BF30220N

BFB Injection Date: 02/20/01

Instrument ID: HP3

BFB Injection Time: 1656

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

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.7 (1.3)1
174	50.0 - 100.0% of mass 95	56.5
175	5.0 - 9.0% of mass 174	3.9 (7.0)1
176	95.0 - 101.0% of mass 174	53.9 (95.5)1
177	5.0 - 9.0% of mass 176	3.4 (6.4)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	1C30220P	02/20/01	1926
02	VSTD5	VSTD5	2A30220P	02/20/01	2159
03	VSTD20	VSTD20	1B30220P	02/20/01	2228
04	VSTD100	VSTD100	1D30220P	02/20/01	2257
05	VSTD200	VSTD200	1E30220P	02/20/01	2326
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID: BF40226

BFB Injection Date: 02/26/01

Instrument ID: HP4

BFB Injection Time: 0517

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

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	40.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.4)1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	4.6 (6.7)1
176	95.0 - 101.0% of mass 174	68.8 (99.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC40226	02/26/01	0545
02	INTRA-LAB BL	DWLWE1AA	4022602	02/26/01	0658
03	INTRA-LAB CH	DWLWE1AC	4022603	02/26/01	0727
04	DF/24-B/1053	DWJUM1AA	4022618	02/26/01	1354
05	DF/24-A/1053	DWJJ31AM	4022619	02/26/01	1423
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)

677 139

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID: BF30228

BFB Injection Date: 02/28/01

Instrument ID: HP3

BFB Injection Time: 0549

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

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	72.8
175	5.0 - 9.0% of mass 174	5.7 (7.8)1
176	95.0 - 101.0% of mass 174	71.0 (97.6)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)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	1C30228	02/28/01	0647
02	INTRA-LAB BL	DWPQV1AA	3022804	02/28/01	1009
03	INTRA-LAB CH	DWPQV1AC	3022808	02/28/01	1139
04	DF/24-A/1053	DWJKC1AM	3022811	02/28/01	1245
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

677 140

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID (Standard): CC40226

Date Analyzed: 02/26/01

Instrument ID: HP4

Time Analyzed: 0545

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	140702	10.12	206138	12.45	659481	7.00
UPPER LIMIT	281404	10.32	412276	12.65	1318962	7.20
LOWER LIMIT	70351	9.92	103069	12.25	329741	6.80
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	132612	10.12	194762	12.45	666265	7.01
02 INTRA-LAB CH	136102	10.13	201884	12.46	697020	7.01
03 DF/24-B/1053	125011	10.13	183117	12.46	610882	7.01
04 DF/24-A/1053	124403	10.12	182621	12.45	606075	7.01
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.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

677 141

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C1B230148

Lab File ID (Standard): 1C30228

Date Analyzed: 02/28/01

Instrument ID: HP3

Time Analyzed: 0647

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	122772	9.74	194855	12.05	465426	6.61
UPPER LIMIT	245544	9.94	389710	12.25	930852	6.81
LOWER LIMIT	61386	9.54	97428	11.85	232713	6.41
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	116207	9.74	189464	12.06	441120	6.61
02 INTRA-LAB CH	119273	9.74	193836	12.06	457504	6.61
03 DF/24-A/1053	115078	9.74	189983	12.05	446913	6.61
04						
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.

677 142

**GC/MS VOLATILE
SAMPLE DATA**

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

Matrix: (soil/water) WATER Lab Sample ID: C1B230148 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJM1AA

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
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	5400	
74-87-3	Chloromethane	61	J
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

677 144

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJM1AA

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(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

Data File: \\GPITR02\chem\hp4.1\40226d.b\4022618.D

Date: 26-FEB-2001 13:54

Client ID: DF/24-B/1053/IDM/00

Sample Info: c1b230148-001 (1ml/50ml)/5ml

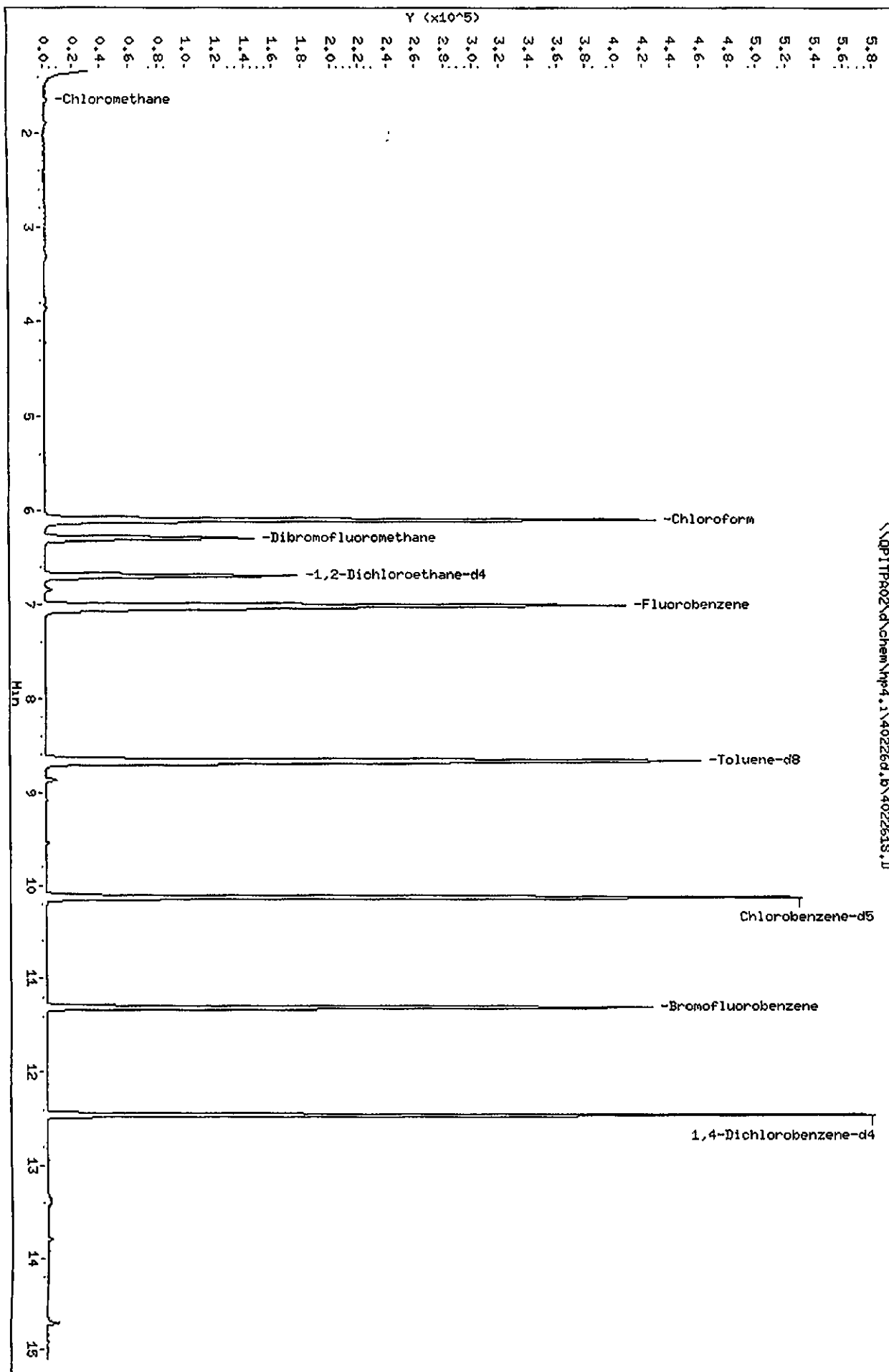
Volume Injected (μL): 5.0

Column phase: DB 624

Instrument: hp4.1

Operator: 16328

Column diameter: 0.18



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40226d.b\4022618.D
 Lab Smp Id: DWJJM1AA Client Smp ID: DF/24-B/1053/IDW/00
 Inj Date : 26-FEB-2001 13:54
 Operator : 16328 Inst ID: hp4.i
 Smp Info : c1b230148-001 (1ml/50ml)/5ml
 Misc Info : dwjjmlaa ,40226d.b,8260bh2o.M,
 Comment :
 Method : \\QPITPA02\D\chem\hp4.i\40226d.b\8260bh2o.m
 Meth Date : 26-Feb-2001 07:25 dudeckk Quant Type: ISTD
 Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
 Als bottle: 22
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC077

K₂Fe/1

Compound Sublist: 6-br.sub

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

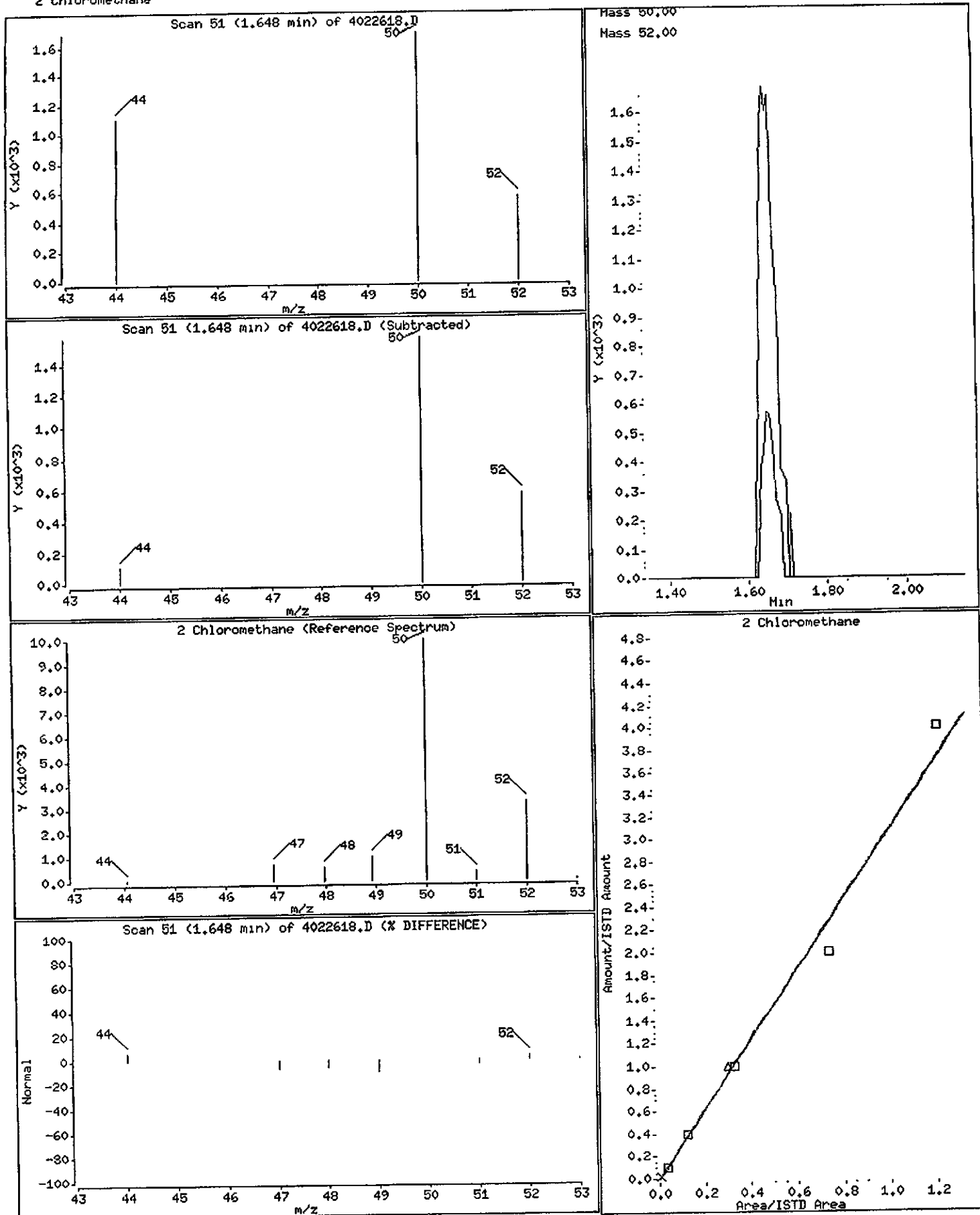
Name	Value	Description
DF	50.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

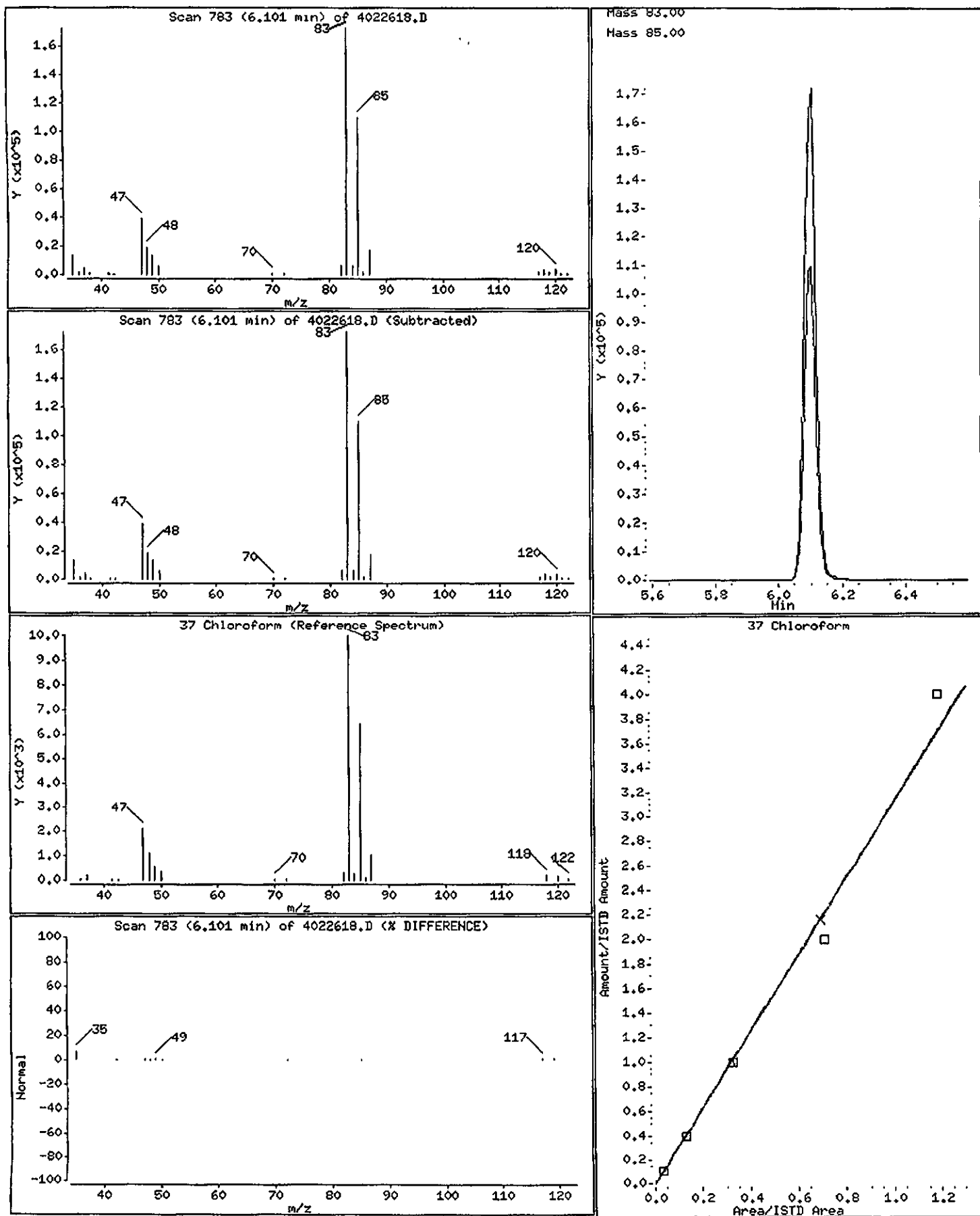
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.013	7 003	(1 000)	610882	250 000	
* 69 Chlorobenzene-d5	119	10 128	10 124	(1 000)	125011	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 458	12 454	(1.000)	183117	250 000	
\$ 39 Dibromofluoromethane	113	6 289	6 285	(0 897)	118541	257 837	51 57
\$ 43 1,2-Dichloroethane-d4	65	6 690	6 687	(0 954)	128712	238.622	47.72
\$ 59 Toluene-d8	98	8.668	8 652	(0 856)	567508	241.360	48 27
\$ 80 Bromofluorobenzene	95	11.308	11 304	(1.117)	198561	244 546	48 91
2 Chloromethane	50	1.647	1 644	(0 235)	4869	6 10120	61.01
3 Vinyl Chloride	62				Compound Not Detected		
4 Bromomethane	94				Compound Not Detected		
5 Chloroethane	64				Compound Not Detected		
12 1,1-Dichloroethene	96				Compound Not Detected.		
13 Acetone	43				Compound Not Detected		
15 Carbon Disulfide	76				Compound Not Detected		
18 Methylene Chloride	84				Compound Not Detected		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
*****	****	==	*****	*****	*****	*****	*****
19 trans-1,2-Dichloroethene	96				Compound Not Detected		
24 1,1-Dichloroethane	63				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				Compound Not Detected		
31 2-Butanone	43				Compound Not Detected		
37 Chloroform	83	6.100	6.091	(0.870)	426247	539 228	5392
38 1,1,1-Trichloroethane	97				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.		
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.		
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.		
70 Chlorobenzene	112				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.		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected		
91 1,3-Dichlorobenzene	146				Compound Not Detected		
93 1,4-Dichlorobenzene	146				Compound Not Detected.		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		

677 148

2 Chloromethane





677 150

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJ31AM

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: DF/24-A/1053/IDW/002

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
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	7000	
74-87-3	Chloromethane	500	U
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: C1B230148 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJJ31AM

Date Extracted: 02/26/01

Dilution factor: 50

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

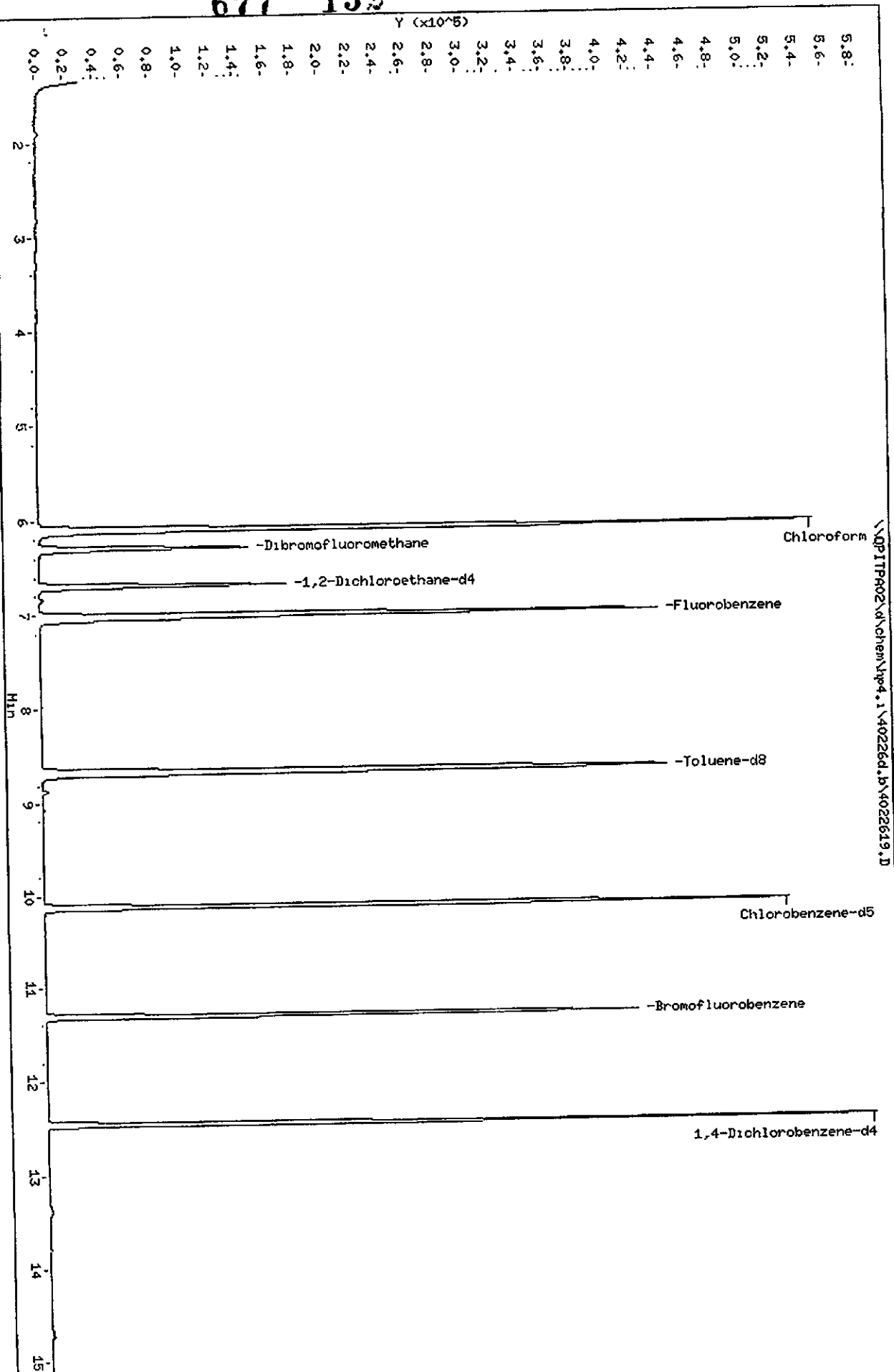
Client Sample Id: DF/24-A/1053/IDW/002

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

677 152

Data File: \\QPITPA02\chem\hp4.i\40226d.b\4022619.D
 Date: 26-FEB-2001 14:23
 Client ID: DF/24-R/1053/IDM/00
 Sample Info: cdb230148-002 (1ml/50ml)/5ml
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.i
 Operator: 16328
 Column diameter: 0.18



STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\QPITPA02\d\chem\hp4.i\40226d.b\4022619.D
Lab Smp Id: DWJJ31AM Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 26-FEB-2001 14:23
Operator : 16328 Inst ID: hp4.i
Smp Info : c1b230148-002 (1ml/50ml)/5ml
Misc Info : dwjj31am ,40226d.b,8260bh2o.M,
Comment :
Method : \\QPITPA02\D\chem\hp4.i\40226d.b\8260bh2o.m
Meth Date : 26-Feb-2001 07:25 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
Als bottle: 23
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 6-br.sub
Target Version: 4.04
Processing Host: PITPC077

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

Name	Value	Description
DF	50.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

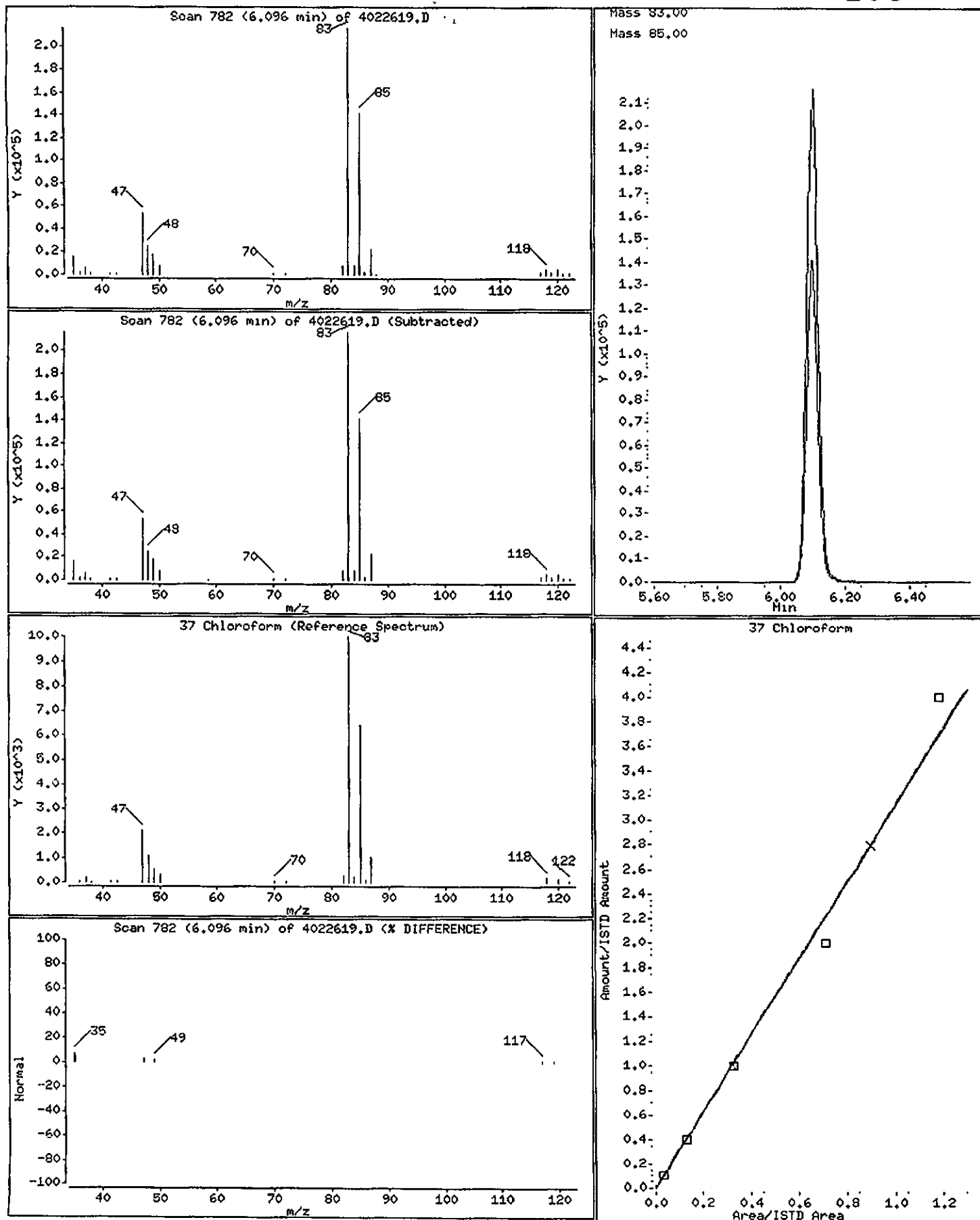
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.008	7.003	(1.000)	606075	250.000	
* 69 Chlorobenzene-d5	119	10.123	10.124	(1.000)	124403	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.453	12.454	(1.000)	182621	250.000	
\$ 39 Dibromofluoromethane	113	6.291	6.285	(0.898)	116207	254.765	50.95
\$ 43 1,2-Dichloroethane d4	65	6.692	6.687	(0.955)	127888	238.975	47.79
\$ 59 Toluene-d8	98	8.663	8.652	(0.856)	562446	240.376	48.08
\$ 80 Bromofluorobenzene	95	11.303	11.304	(1.117)	197646	244.609	48.92
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.		
12 1,1 Dichloroethene	96				Compound Not Detected.		
13 Acetone	43				Compound Not Detected.		
15 Carbon Disulfide	76				Compound Not Detected		
18 Methylene Chloride	84				Compound Not Detected		

677 154

Data File: \\QPITPA02\d\chem\hp4.i\40226d.b\4022619.D
 Report Date: 27-Feb-2001 07:15

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====	=====	=====
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected		
M 29 1,2 Dichloroethene (total)	96				Compound Not Detected		
31 2-Butanone	43				Compound Not Detected		
37 Chloroform	83	6 096	6 091	(0.870)	545808	695 956	6960
38 1,1,1 Trichloroethane	97				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		
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		
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.		
70 Chlorobenzene	112				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		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected		
91 1,3-Dichlorobenzene	146				Compound Not Detected		
93 1,4-Dichlorobenzene	146				Compound Not Detected		
95 1,2 Dichlorobenzene	146				Compound Not Detected.		



Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJKC1AM

Date Extracted: 02/28/01

Dilution factor: 5

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1059185

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	28	J B
71-43-2	Benzene	25	U
75-27-4	Bromodichloromethane	25	U
75-25-2	Bromoform	25	U
74-83-9	Bromomethane	50	U
78-93-3	2-Butanone	100	U
75-15-0	Carbon disulfide	25	U
56-23-5	Carbon tetrachloride	25	U
108-90-7	Chlorobenzene	25	U
124-48-1	Dibromochloromethane	25	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	400	
74-87-3	Chloromethane	50	U
75-34-3	1,1-Dichloroethane	25	U
107-06-2	1,2-Dichloroethane	25	U
75-35-4	1,1-Dichloroethene	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
100-41-4	Ethylbenzene	25	U
591-78-6	2-Hexanone	100	U
75-09-2	Methylene chloride	25	U
108-10-1	4-Methyl-2-pentanone	100	U
100-42-5	Styrene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
127-18-4	Tetrachloroethene	25	U
108-88-3	Toluene	25	U

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWJKC1AM

Date Extracted: 02/28/01

Dilution factor: 5

Date Analyzed: 02/28/01

Moisture %: NA

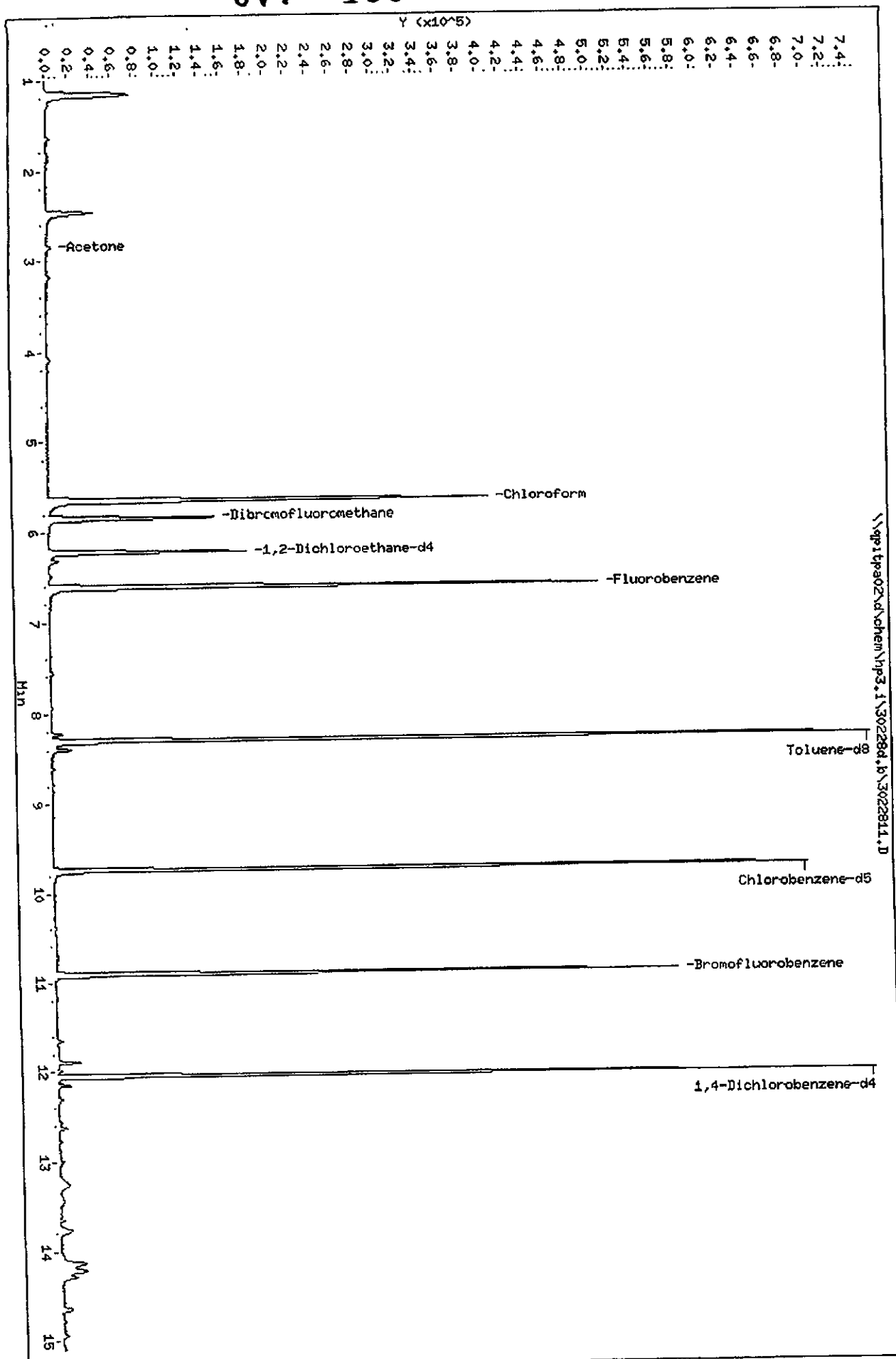
QC Batch: 1059185

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
79-01-6	Trichloroethene	25	U
75-01-4	Vinyl chloride	50	U
1330-20-7	Xylenes (total)	25	U

Data File: \\pp1tpa02\chem\hp3.1\30228d.b\3022811.D
Date: 28-FEB-2001 12:45
Client ID: DF/24-A/1053/TDM/00
Sample Info: C1B230148-003 1ML/5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp3.1
Operator: 10099
Column diameter: 0.18



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30228d.b\3022811.D
Lab Smp Id: DWJKC1AM Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 28-FEB-2001 12:45 MS Autotune Date: 08-AUG-2000 16:28
Operator : 10099 Inst ID: hp3.i
Smp Info : C1B230148-003 1ML/5ML
Misc Info : dwjkclam,30228d.b,8260bh2o.m,1-tcl.sub
Comment :
Method : \\QPITPA02\D\chem\hp3.i\30228d.b\8260bh2o.m
Meth Date : 28-Feb-2001 07:14 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 23:26 Cal File: 1E30220P.D
Als bottle: 14
Dil Factor: 5.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC063

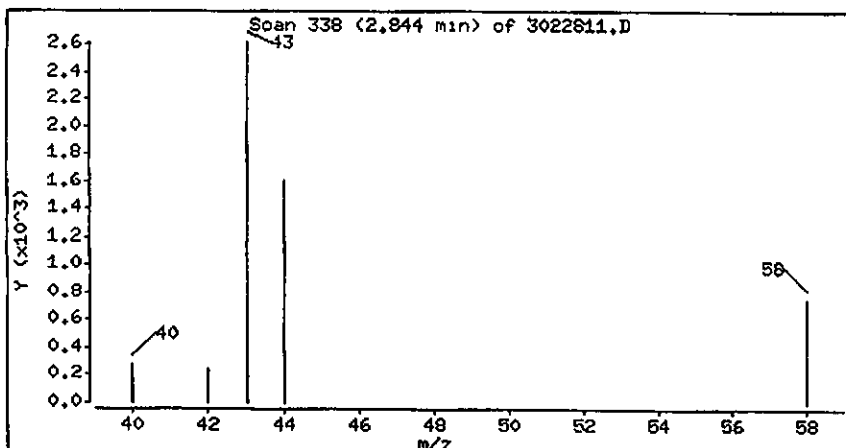
Compound Sublist: 1-tcl.sub

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

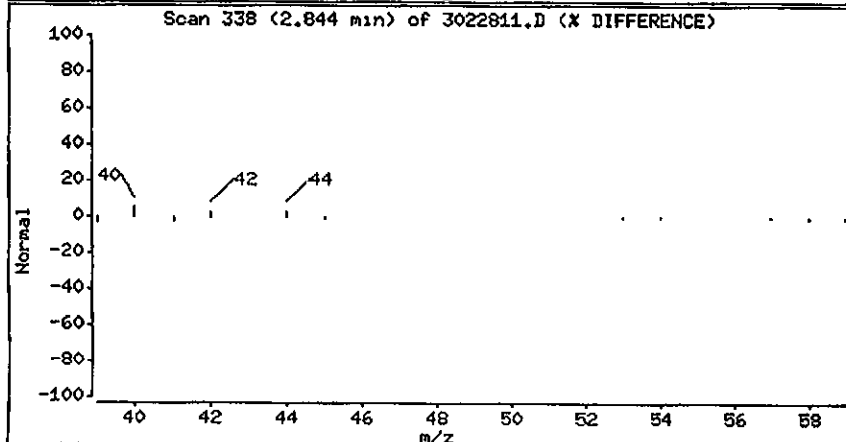
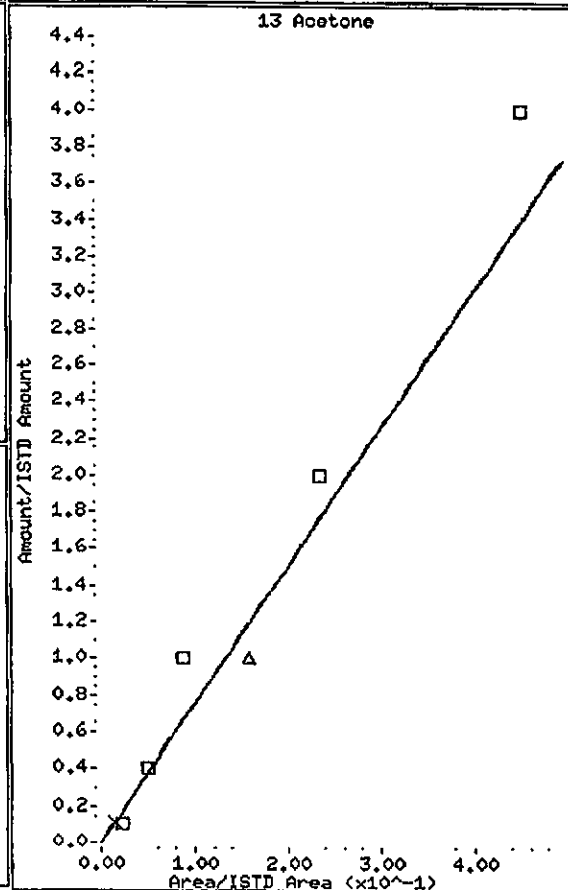
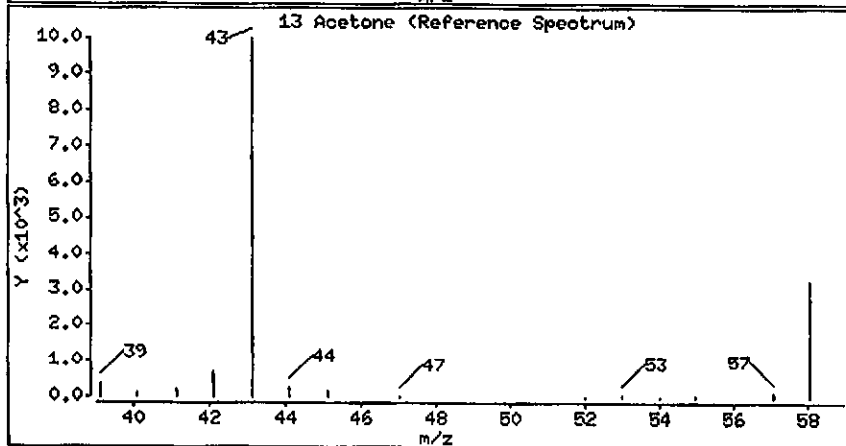
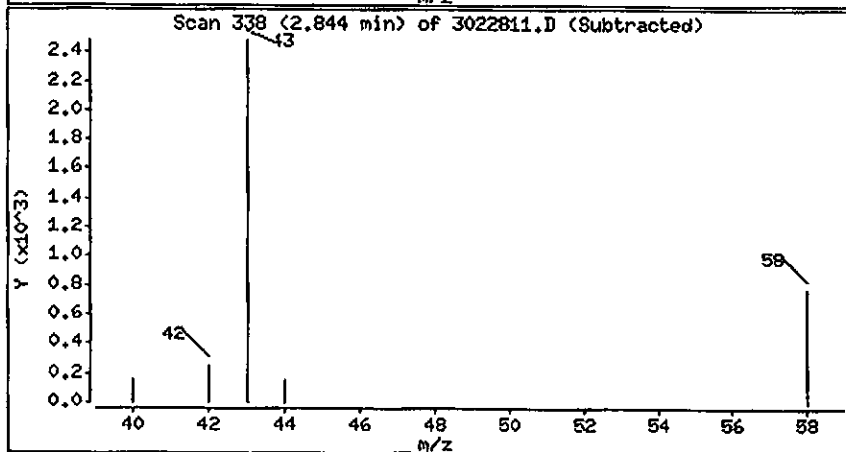
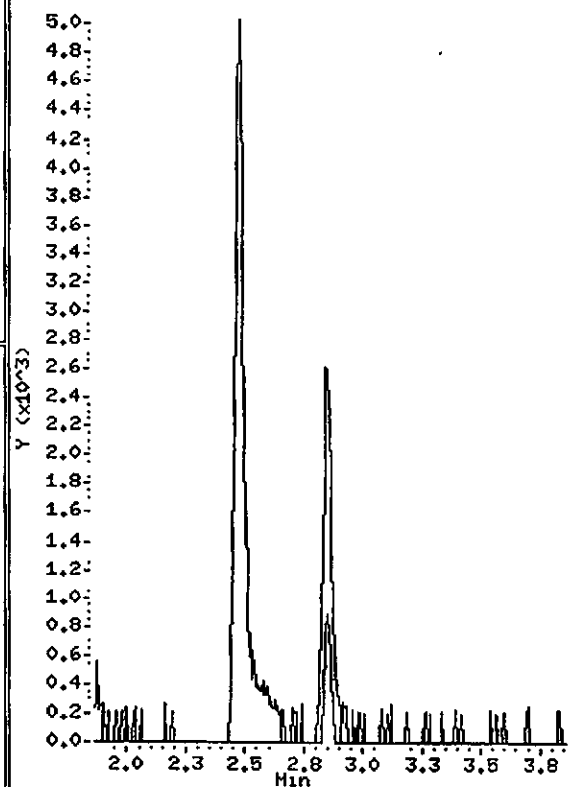
Name	Value	Description
DF	5.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	446913	250.000	
* 69 Chlorobenzene-d5	119	9.736	9.736	(1.000)	115078	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.054	12.053	(1.000)	189983	250.000	
\$ 39 Dibromofluoromethane	113	5.843	5.842	(0.884)	103823	235.945	47.19
\$ 43 1,2-Dichloroethane-d4	65	6.220	6.219	(0.941)	126819	211.338	42.27
\$ 59 Toluene-d8	98	8.294	8.294	(0.852)	457208	252.046	50.41
\$ 80 Bromofluorobenzene	95	10.904	10.904	(1.120)	191345	241.871	48.37
1 Dichlorodifluoromethane	85				Compound Not Detected		
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.		
12 1,1-Dichloroethene	96				Compound Not Detected.		
15 Carbon Disulfide	76				Compound Not Detected		
13 Acetone	43	2.844	2.861	(0.430)	6732	28.1522	28.15
18 Methylene Chloride	84				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====	=====	=====
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.		
28 cis-1,2-dichloroethene	96				Compound Not Detected		
M 29 1,2-Dichloroethene (total)	96				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected		
37 Chloroform	83	5 654	5.648	(0 856)	344730	395.696	395.7
38 1,1,1-Trichloroethane	97				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.		
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.		
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.		
83 1,1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
91 1,3-Dichlorobenzene	146				Compound Not Detected.		
93 1,4-Dichlorobenzene	146				Compound Not Detected		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		

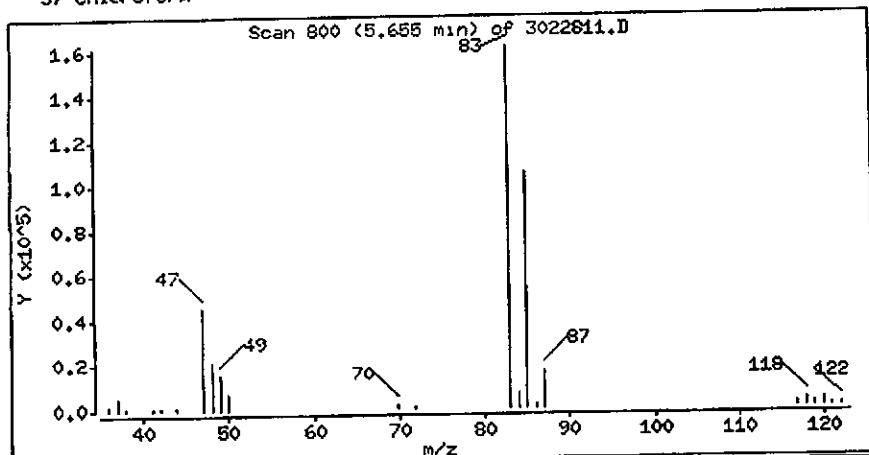


Mass 43.00
Mass 58.00

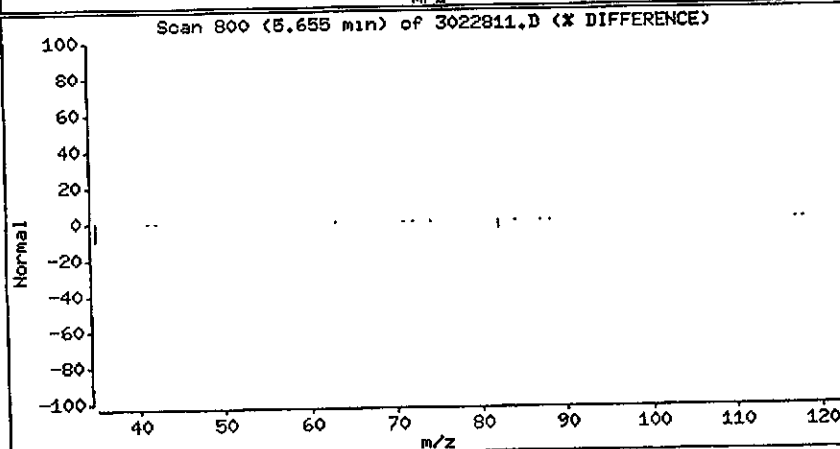
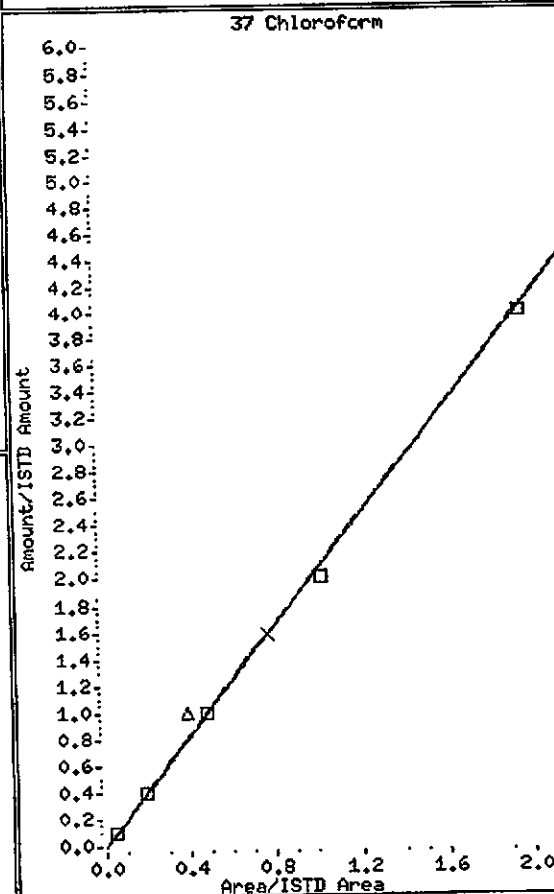
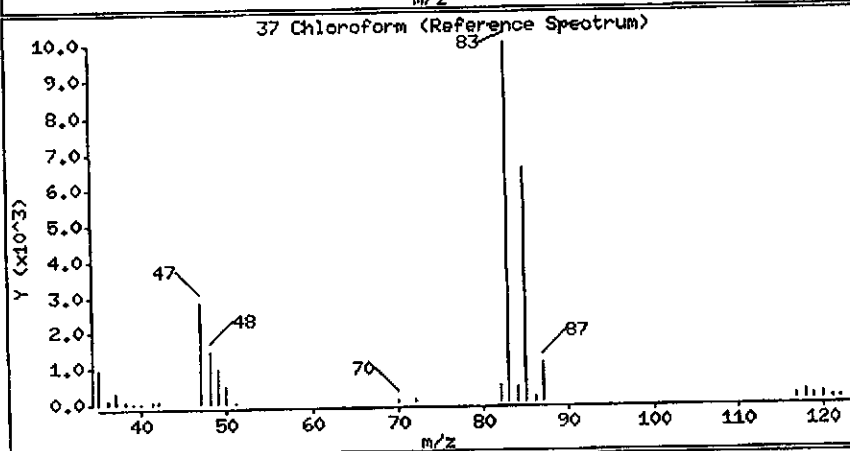
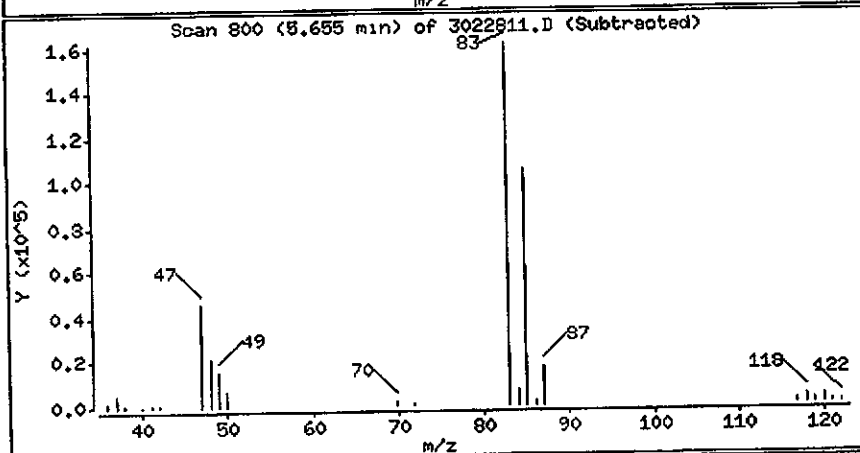
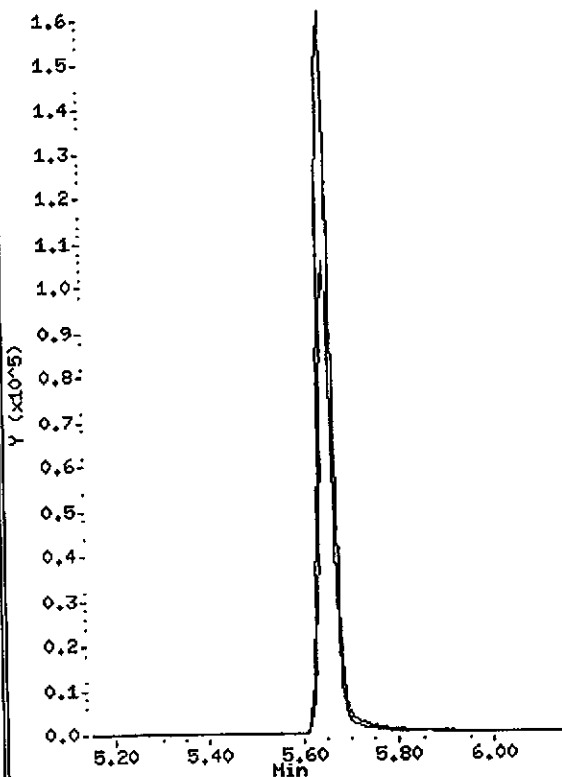


677 162

37 Chloroform



Mass 83.00
Mass 85.00



GC/MS VOLATILE
CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 01/23/01 01/23/01

Heated Purge: (Y/N) N

Calibration Time(s): 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =2A40123		RRF20 =1B40123			
RRF50 =1C40123		RRF100=1D40123		RRF200=1E40123			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	%RSD
Dichlorodifluoromethane	0.233	0.253	0.267	0.295	0.242	0.258	9.4
Chloromethane	* 0.311	0.314	0.333	0.369	0.305	0.326	8.0*
Vinyl Chloride	0.296	0.298	0.312	0.346	0.288	0.308	7.4
Bromomethane	0.032	0.026	0.032	0.048	0.040	0.036	24.1
Chloroethane	0.050	0.052	0.051	0.056	0.048	0.051	6.2
Trichlorofluoromethane	0.208	0.064	0.066	0.263	0.151	0.150	58.3
1,1-Dichloroethene	0.172	0.169	0.178	0.205	0.167	0.178	8.8
Methylene Chloride	0.194	0.213	0.202	0.217	0.217	0.209	4.8
trans-1,2-Dichloroethene	0.219	0.236	0.246	0.266	0.221	0.238	8.1
1,1-Dichloroethane	* 0.366	0.398	0.405	0.432	0.361	0.392	7.5*
cis-1,2-dichloroethene	0.214	0.247	0.253	0.269	0.225	0.242	9.2
Chloroform	0.304	0.324	0.333	0.357	0.299	0.323	7.2
Bromochloromethane	0.092	0.102	0.105	0.110	0.093	0.100	7.8
1,1,1-Trichloroethane	0.225	0.252	0.268	0.291	0.251	0.257	9.5
Carbon Tetrachloride	0.150	0.178	0.192	0.216	0.191	0.185	13.0
1,2-Dichloroethane	0.229	0.238	0.238	0.258	0.217	0.236	6.4
Benzene	0.908	0.963	0.971	1.002	0.859	0.941	6.0
Trichloroethene	0.199	0.214	0.219	0.229	0.196	0.211	6.5
1,2-Dichloropropane	0.227	0.242	0.244	0.254	0.220	0.237	5.8
Bromodichloromethane	0.179	0.210	0.228	0.255	0.224	0.219	12.6
cis-1,3-Dichloropropene	0.263	0.311	0.334	0.360	0.316	0.317	11.3
Toluene	4.777	4.928	4.938	5.346	4.482	4.894	6.4
trans-1,3-Dichloropropene	1.080	1.230	1.315	1.528	1.310	1.293	12.5
1,1,2-Trichloroethane	0.902	0.926	0.942	1.047	0.880	0.939	6.9
Tetrachloroethene	0.753	0.784	0.776	0.859	0.730	0.780	6.3
Dibromochloromethane	0.537	0.649	0.725	0.872	0.772	0.711	17.8
Chlorobenzene	* 2.826	2.912	2.922	3.065	2.608	2.867	5.9*
Ethylbenzene	1.542	1.659	1.660	1.755	1.493	1.622	6.4
Styrene	2.767	3.294	3.374	3.535	3.016	3.197	9.5
Bromoform	* 0.226	0.330	0.391	0.456	0.410	0.363	24.5*
1,1,2,2-Tetrachloroethane	* 0.636	0.702	0.719	0.740	0.629	0.685	7.3*
1,3-Dichlorobenzene	1.378	1.428	1.430	1.453	1.174	1.373	8.3
1,4-Dichlorobenzene	1.413	1.442	1.448	1.533	1.295	1.426	6.0
1,2-Dichlorobenzene	1.192	1.269	1.279	1.333	1.136	1.242	6.2
Dibromomethane	0.100	0.116	0.118	0.126	0.108	0.114	9.0
1,2-Dibromoethane	0.766	0.841	0.855	0.959	0.820	0.848	8.3
1,1,1,2-Tetrachloroethane	0.697	0.769	0.790	0.877	0.770	0.781	8.3

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

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

677 165

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 01/23/01 01/23/01

Heated Purge: (Y/N) N

Calibration Time(s): 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID: RRF5 =2A40123 RRF20 =1B40123 RRF50 =1C40123 RRF100=1D40123 RRF200=1E40123							
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.189	0.217	0.219	0.222	0.189	0.207	8.1
1,2-Dibromo-3-chloropropane	0.017	0.055	0.070	0.064	0.063	0.054	39.5
2,2-Dichloropropane	0.205	0.240	0.259	0.289	0.246	0.248	12.4
1,1-Dichloropropene	0.185	0.207	0.211	0.225	0.198	0.205	7.3
1,3-Dichloropropane	1.601	1.611	1.612	1.816	1.534	1.635	6.5
n-Propylbenzene	0.854	0.909	0.937	0.995	0.840	0.907	7.0
Bromobenzene	0.651	0.702	0.702	0.733	0.625	0.683	6.4
1,3,5-Trimethylbenzene	2.301	2.554	2.619	2.778	2.380	2.526	7.5
2-Chlorotoluene	0.719	0.738	0.748	0.786	0.674	0.733	5.6
4-Chlorotoluene	0.713	0.762	0.775	0.815	0.690	0.751	6.6
tert-Butylbenzene	2.085	2.204	2.245	2.374	2.020	2.186	6.3
1,2,4-Trimethylbenzene	2.172	2.519	2.559	2.714	2.331	2.459	8.6
sec-Butylbenzene	3.193	3.481	3.495	3.724	3.143	3.407	7.0
4-Isopropyltoluene	2.430	2.754	2.750	2.927	2.411	2.654	8.5
n-Butylbenzene	2.254	2.548	2.582	2.830	2.452	2.533	8.3
1,2,4-Trichlorobenzene	0.337	0.409	0.424	0.434	0.403	0.401	9.5
Hexachlorobutadiene	0.313	0.296	0.289	0.314	0.275	0.297	5.6
Naphthalene	0.379	0.714	0.838	0.756	0.779	0.693	26.1
1,2,3-Trichlorobenzene	0.268	0.266	0.268	0.262	0.262	0.265	1.1
Acetone	0.150	0.141	0.110	0.113	0.094	0.122	19.0
Carbon Disulfide	0.524	0.540	0.583	0.667	0.550	0.573	9.9
2-Butanone	0.116	0.150	0.149	0.158	0.133	0.141	12.0
4-Methyl-2-Pentanone	0.885	1.076	1.122	1.255	1.064	1.080	12.3
2-Hexanone	0.513	0.839	0.851	0.953	0.837	0.799	20.9
Methyl tert-butyl ether	0.526	0.576	0.596	0.646	0.534	0.576	8.5
Isopropylbenzene	4.321	4.885	4.930	5.158	4.390	4.737	7.7
1,2-Dichloroethene (total)	0.216	0.242	0.249	0.268	0.223	0.240	8.6
Xylenes (total)	1.762	1.947	1.958	2.051	1.745	1.893	7.0
Dibromofluoromethane	0.204	0.204	0.189	0.184	0.159	0.188	9.9
1,2-Dichloroethane-d4	0.246	0.243	0.218	0.214	0.183	0.221	11.5
Toluene-d8	5.348	5.134	4.657	4.536	3.835	4.702	12.5
Bromofluorobenzene	1.798	1.797	1.657	1.532	1.335	1.624	12.1

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

677 166

INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 2A40123.D
Analysis Type: WATER

Injection Date: 23-JAN-2001 17:15
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp4.i\40123d.b\med500

COMPOUND	%RSD
Xylenes (total)	7.0
1,2-Dichloroethene (total)	8.6
Dichlorodifluoromethane	9.4
Chloromethane	8.0
Vinyl Chloride	7.4
Bromomethane	24.1
Chloroethane	6.2
Trichlorofluoromethane	58.3
1,1-Dichloroethene	8.8
Carbon Disulfide	9.9
Acetone	19.0
Methylene Chloride	4.8
trans-1,2-Dichloroethene	8.1
Methyl tert-butyl ether	8.5
1,1-Dichloroethane	7.5
2,2-Dichloropropane	12.4
cis-1,2-dichloroethene	9.2
2-Butanone	12.0
Bromochloromethane	7.8
Chloroform	7.2
1,1,1-Trichloroethane	9.5
Dibromofluoromethane	9.9
Carbon Tetrachloride	13.0
1,1-Dichloropropene	7.3
Benzene	6.0
1,2-Dichloroethane-d4	11.5
1,2-Dichloroethane	6.4
Trichloroethene	6.5
1,2-Dichloropropane	5.8
Dibromomethane	9.0
Bromodichloromethane	12.6
cis-1,3-Dichloropropene	11.3
4-Methyl-2-Pentanone	12.3
Toluene-d8	12.5
Toluene	6.4
trans-1,3-Dichloropropene	12.5
1,1,2-Trichloroethane	6.9
Tetrachloroethene	6.3
1,3-Dichloropropane	6.5

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INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 2A40123.D
Analysis Type: WATER

Injection Date: 23-JAN-2001 17:15
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp4.i\40123d.b

COMPOUND	%RSD
2 Hexanone	20.9
Dibromochloromethane	17.8
1,2-Dibromoethane	8.3
Chlorobenzene	5.9
Ethylbenzene	6.4
1,1,1,2-Tetrachloroethane	8.3
m + p-Xylene	7.4
Xylene-o	7.0
Styrene	9.5
Bromoform	24.5
Isopropylbenzene	7.7
Bromofluorobenzene	12.1
Bromobenzene	6.4
1,1,2,2-Tetrachloroethane	7.3
n-Propylbenzene	7.0
1,2,3-Trichloropropane	8.1
2-Chlorotoluene	5.6
1,3,5-Trimethylbenzene	7.5
4-Chlorotoluene	6.6
tert-Butylbenzene	6.3
1,2,4-Trimethylbenzene	8.6
sec-Butylbenzene	7.0
1,3-Dichlorobenzene	8.3
4-Isopropyltoluene	8.5
1,4-Dichlorobenzene	6.0
n-Butylbenzene	8.3
1,2-Dichlorobenzene	6.2
1,2-Dibromo-3-chloropropane	39.5
1,2,4-Trichlorobenzene	9.5
Hexachlorobutadiene	5.6
Naphthalene	26.1
1,2,3-Trichlorobenzene	1.1

The average of all %RSD's in the initial calibration is 10.4

Data File: \\ppitpa02\chem\hp4.1\401234.b\2040123.D

Date: 23-JAN-2001 17:15

Client ID: vstd5

Sample Info: vstd5 5ml

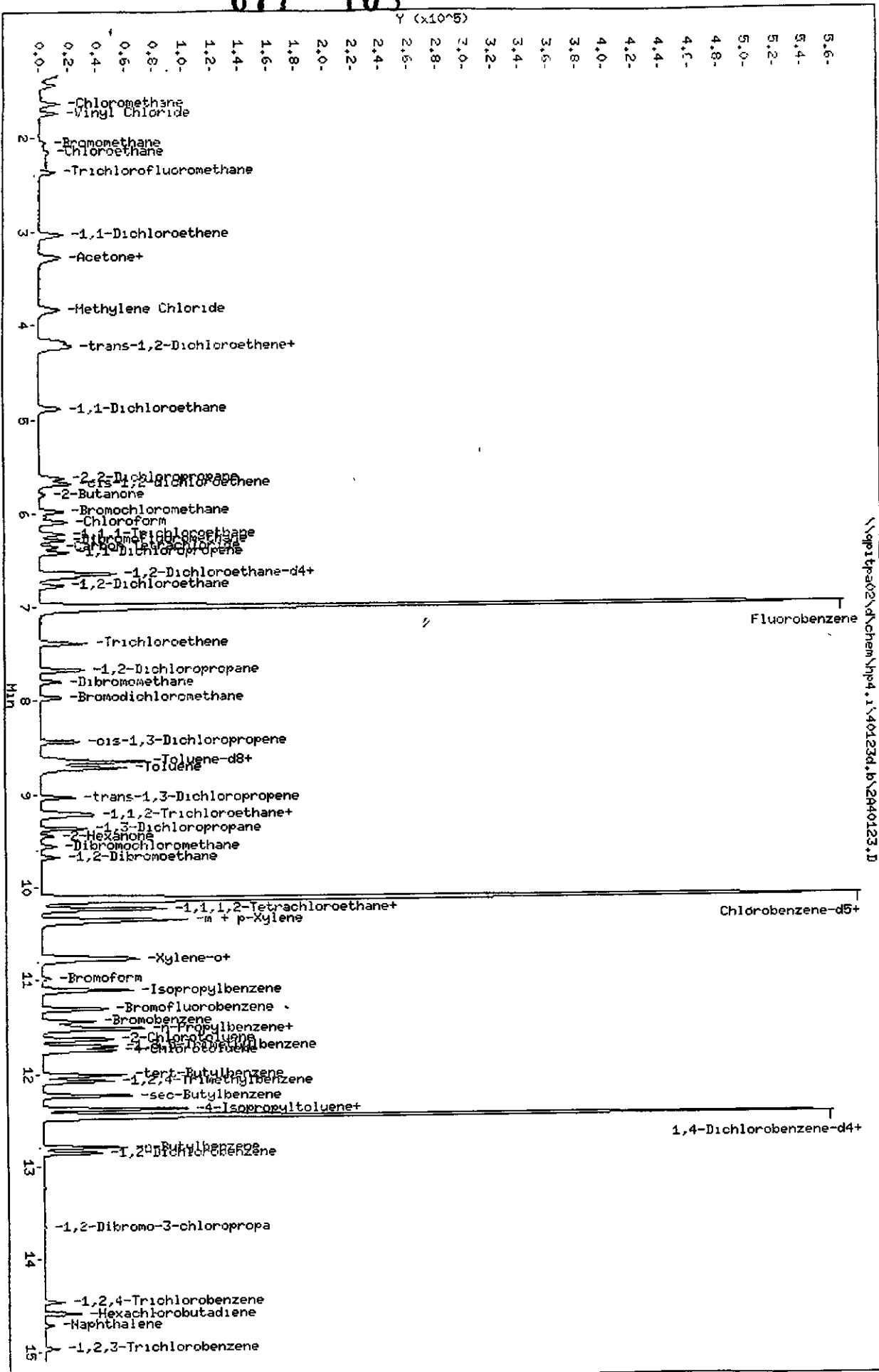
Purge Volume: 5.0

Column phase: DB 624

Instrument: hp4.1

Operator: 16238

Column diameter: 0.18



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\2A40123.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 23-JAN-2001 17:15
Operator : 16238 Inst ID: hp4.i
Smp Info : vstd5 5ml
Misc Info : vstd5,40123d.b,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
Meth Date : 13-Feb-2001 06:36 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

Concentration Formula: Amt * DF

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON COL (ng)
* 46 Fluorobenzene	96	7.000	6.996 (1.000)		657279	250.000	
* 69 Chlorobenzene-d5	119	10.121	10.117 (1.000)		129557	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.453 (1.000)		177373	250.000	
\$ 39 Dibromofluoromethane	113	6.289	6.279 (0.898)		13410	25.0000	27.11
\$ 43 1,2 Dichloroethane-d4	65	6.684	6.680 (0.955)		16139	25.0000	27.81
\$ 59 Toluene-d8	98	8.643	8.645 (0.854)		69293	25.0000	28.44
\$ 80 Bromofluorobenzene	95	11.307	11.303 (1.117)		23296	25.0000	27.68
1 Dichlorodifluoromethane	85	1.446	1.448 (0.207)		15344	25.0000	22.62
2 Chloromethane	50	1.635	1.643 (0.234)		20445	25.0000	23.81
3 Vinyl Chloride	62	1.738	1.740 (0.248)		19436	25.0000	24.00
4 Bromomethane	94	2.054	2.057 (0.294)		2099	25.0000	22.50
5 Chloroethane	64	2.152	2.154 (0.307)		3256	25.0000	24.08
6 Trichlorofluoromethane	101	2.359	2.355 (0.337)		13708	25.0000	24.66
12 1,1-Dichloroethene	96	3.028	3.093 (0.433)		11289	25.0000	24.09
13 Acetone	43	3.302	3.322 (0.472)		9841	25.0000	30.79
15 Carbon Disulfide	76	3.271	3.237 (0.467)		34450	25.0000	22.87
18 Methylene Chloride	84	3.831	3.815 (0.547)		12767	25.0000	23.26
19 trans-1,2 Dichloroethene	96	4.178	4.155 (0.597)		14416	25.0000	23.06
20 Methyl tert-butyl ether	73	4.232	4.241 (0.605)		34599	25.0000	22.86
24 1,1-Dichloroethane	63	4.883	4.873 (0.698)		24030	25.0000	23.29
27 2,2 Dichloropropane	77	5.625	5.615 (0.804)		13454	25.0000	20.66
28 cis 1,2-dichloroethene	96	5.680	5.676 (0.811)		14048	25.0000	22.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
M 29 1,2 Dichloroethene (total)	96				26464	50.0000	45.17
30 Bromochloromethane	128	5.984	5.974 (0.855)		6082	25.0000	22.99
31 2-Butanone	43	5.790	5.804 (0.827)		7607	25.0000	20.48
37 Chloroform	83	6.088	6.084 (0.870)		20003	25.0000	23.52
38 1,1,1-Trichloroethane	97	6.222	6.212 (0.889)		14782	25.0000	21.84
40 1,1-Dichloropropene	75	6.416	6.406 (0.917)		12171	25.0000	22.54
41 Carbon Tetrachloride	117	6.362	6.352 (0.909)		9865	25.0000	20.23
42 Benzene	78	6.641	6.637 (0.949)		59687	25.0000	24.14
45 1,2 Dichloroethane	62	6.769	6.771 (0.967)		15054	25.0000	24.25
47 Trichloroethene	130	7.378	7.380 (1.054)		13102	25.0000	23.57
49 1,2-Dichloropropane	63	7.676	7.672 (1.096)		14902	25.0000	23.88
50 Dibromomethane	93	7.797	7.793 (1.114)		6559	25.0000	21.96
53 Bromodichloromethane	83	7.968	7.964 (1.138)		11759	25.0000	20.41
57 cis 1,3-Dichloropropene	75	8.430	8.432 (1.204)		17314	25.0000	20.78
58 4-Methyl-2-Pentanone	43	8.612	8.615 (0.851)		11470	25.0000	20.49
60 Toluene	91	8.716	8.712 (0.861)		61885	25.0000	24.40
61 trans-1,3-Dichloropropene	75	9.032	9.028 (0.892)		13996	25.0000	20.89
63 1,3-Dichloropropane	76	9.373	9.375 (0.926)		20745	25.0000	24.48
64 1,1,2 Trichloroethane	97	9.209	9.205 (0.910)		11680	25.0000	24.00
65 Tetrachloroethene	164	9.233	9.235 (0.912)		9752	25.0000	24.11
66 2-Hexanone	43	9.452	9.454 (0.934)		6650	25.0000	16.07
67 Dibromochloromethane	129	9.561	9.564 (0.945)		6963	25.0000	18.89
68 1,2-Dibromoethane	107	9.677	9.679 (0.956)		9925	25.0000	22.58
70 Chlorobenzene	112	10.145	10.148 (1.002)		36615	25.0000	24.65
71 1,1,1,2-Tetrachloroethane	131	10.237	10.239 (1.011)		9030	25.0000	22.32
72 Ethylbenzene	106	10.231	10.233 (1.011)		19982	25.0000	23.77
73 m + p-Xylene	106	10.352	10.354 (1.023)		47367	50.0000	46.36
74 Xylene-o	106	10.754	10.750 (1.063)		22827	25.0000	23.28
M 75 Xylenes (total)	106				70194	25.0000	71.58
76 Styrene	104	10.778	10.780 (1.065)		35854	25.0000	21.64
77 Bromoform	173	10.979	10.981 (1.085)		2930	25.0000	15.59
78 Isopropylbenzene	105	11.107	11.109 (1.097)		55985	25.0000	22.81
79 Bromobenzene	156	11.441	11.443 (0.918)		11540	25.0000	23.83
81 n-Propylbenzene	120	11.520	11.522 (0.925)		15151	25.0000	23.55
82 2-Chlorotoluene	126	11.630	11.626 (0.934)		12757	25.0000	24.52
83 1,1,2,2-Tetrachloroethane	83	11.484	11.486 (0.922)		11288	25.0000	23.22
84 1,2,3 Trichloropropane	110	11.533	11.529 (0.926)		3353	25.0000	22.81
85 4-Chlorotoluene	126	11.745	11.748 (0.943)		12647	25.0000	21.74
86 1,3,5-Trimethylbenzene	105	11.703	11.705 (0.939)		40813	25.0000	22.77
87 tert Butylbenzene	119	12.013	12.015 (0.964)		36978	25.0000	23.85
88 1,2,4-Trimethylbenzene	105	12.080	12.076 (0.970)		38521	25.0000	22.08
89 sec Butylbenzene	105	12.238	12.234 (0.982)		56643	25.0000	23.43
90 4-Isopropyltoluene	119	12.384	12.380 (0.994)		43109	25.0000	22.89
91 1,3-Dichlorobenzene	146	12.378	12.380 (0.994)		24438	25.0000	25.09
93 1,4-Dichlorobenzene	146	12.482	12.478 (1.002)		25057	25.0000	24.76
94 n-Butylbenzene	91	12.792	12.794 (1.027)		39974	25.0000	22.24
95 1,2-Dichlorobenzene	146	12.853	12.855 (1.032)		21145	25.0000	24.00

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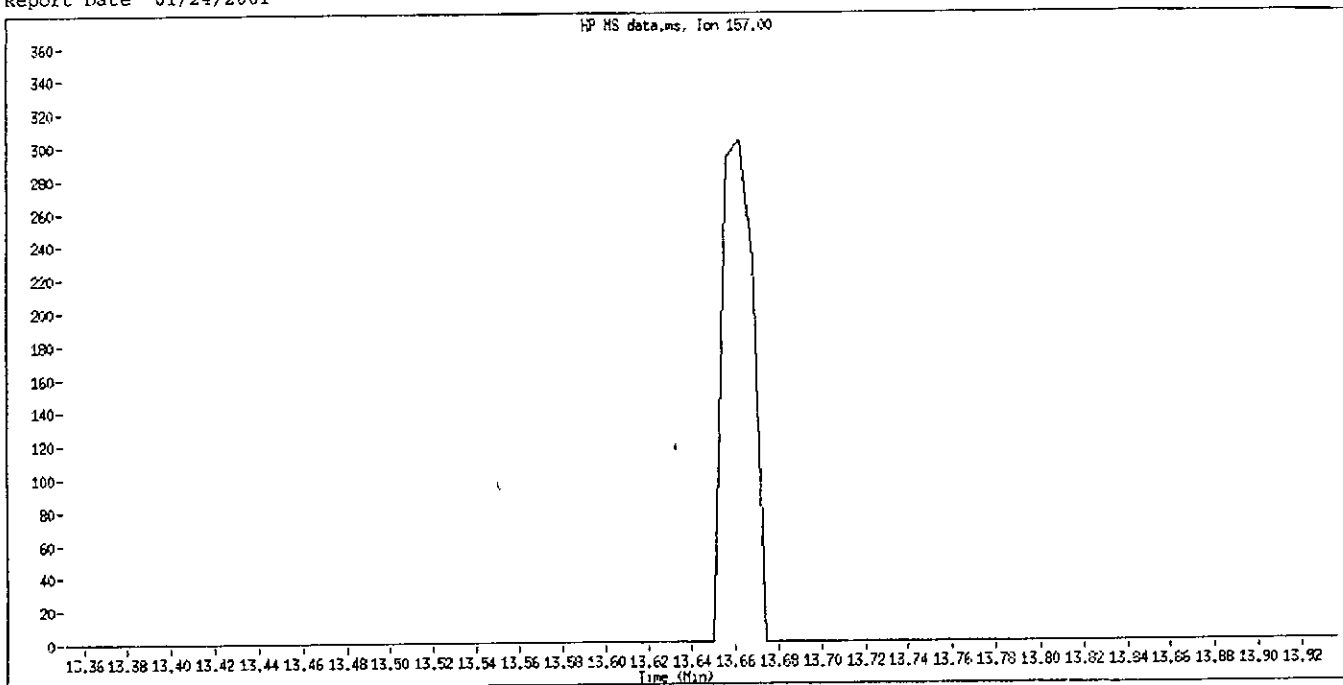
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	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----		-----	-----
96 1,2 Dichloro-3-chloropropane	157	13 662	13 658	(1.097)	301		25 0000	7 883 (M) <i>7.4/10.1</i>
97 1,2,4 Trichlorobenzene	180	14 459	14 455	(1.161)	5977		25 0000	20 98
98 Hexachlorobutadiene	225	14 580	14.576	(1.170)	5550		25 0000	26.31
99 Naphthalene	128	14 714	14 710	(1.181)	6729		25 0000	13 68
100 1,2,3 Trichlorobenzene	180	14 964	14 960	(1.201)	4764		25 0000	25 31

QC Flag Legend

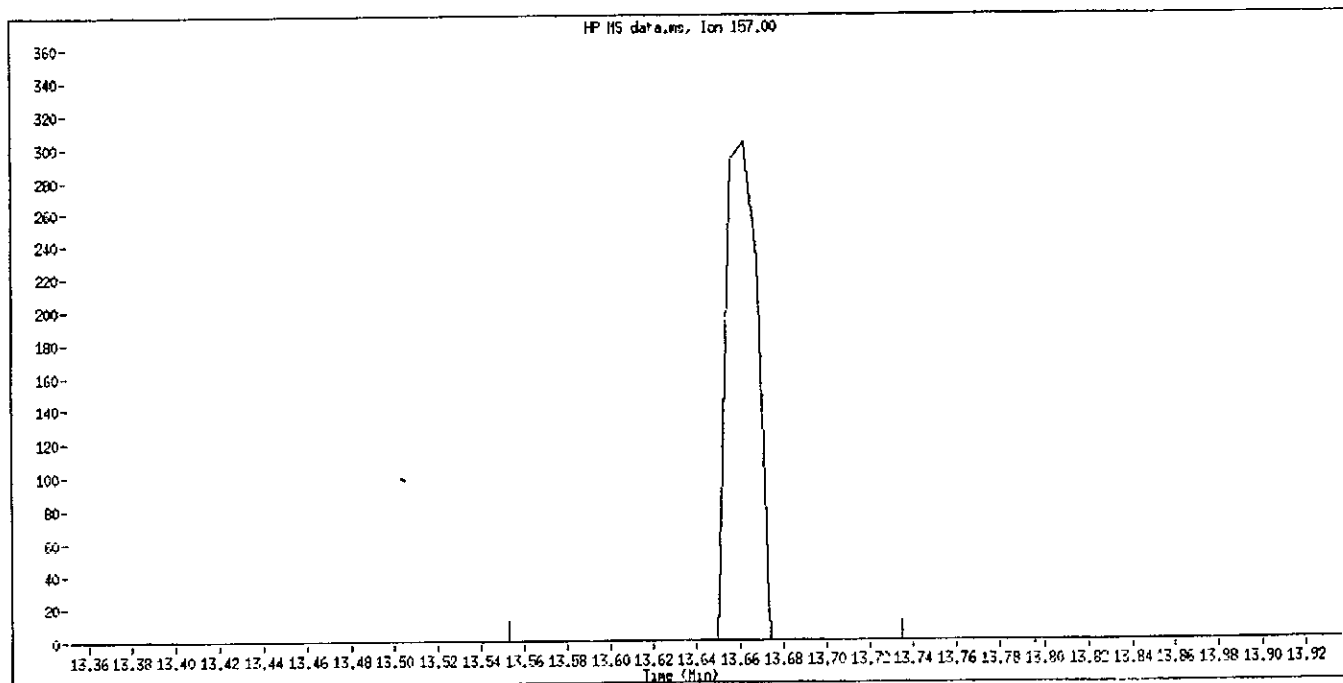
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Inj Date and Time 23-JAN 2001 17:15
Instrument ID hp4 1
Client ID vstd5
Compound Name 1,2-Dibromo-3-chloropropane
CAS # 96-12-8
Report Date 01/24/2001

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Original Integration



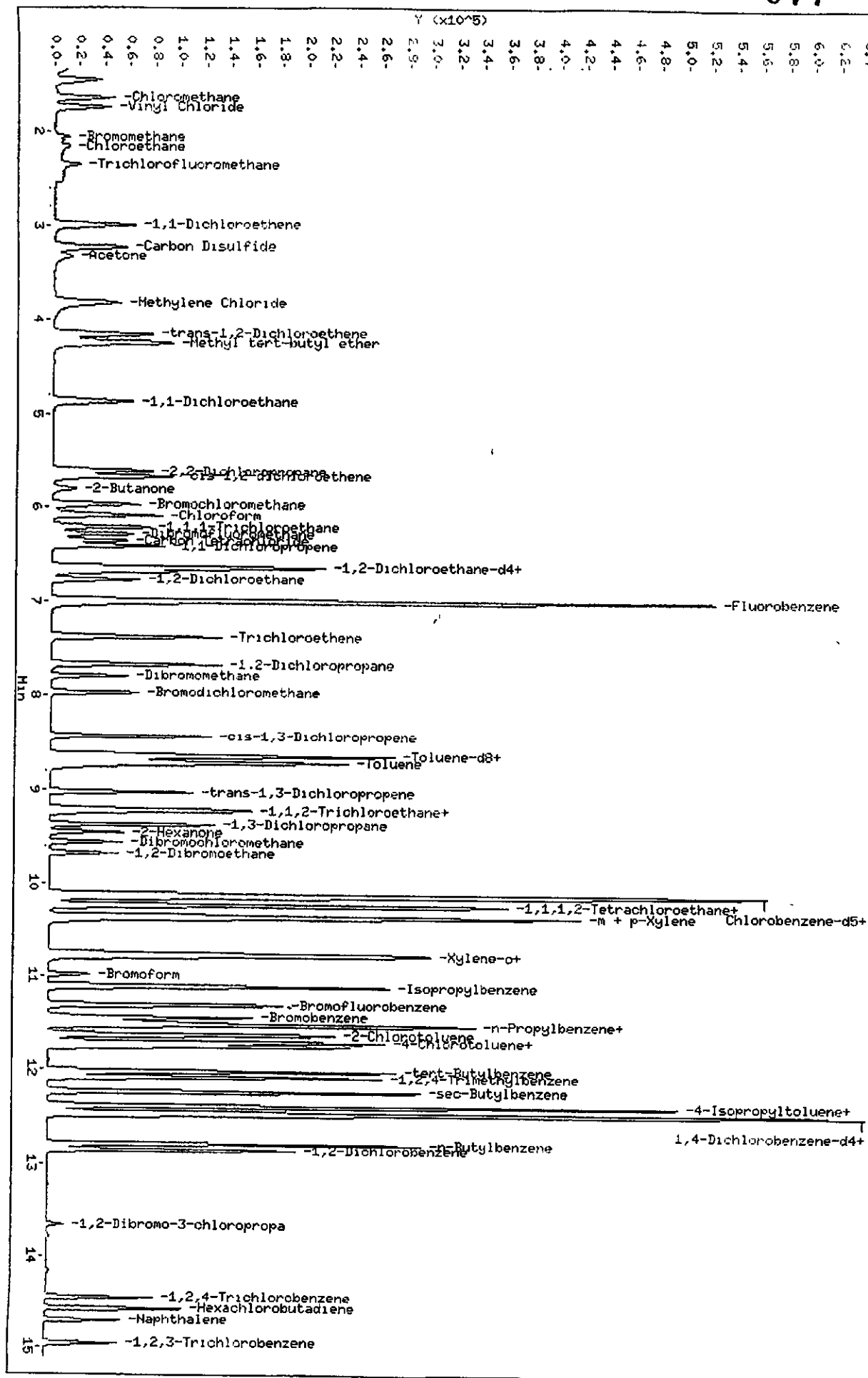
Manual Integration

Manually Integrated By DudeckK
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4, 1/24/01
PAN 2/12/01

Data File: \\pp1tpa02\chem\hpa4.1\401234.b\1B40123.D
 Date: 23-JAN-2001 13:46
 Client ID: vstd20
 Sample Info: vstd20 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpa4.1
 Operator: 16238
 Column diameter: 0.18



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1B40123.D
 Lab Smp Id: vstd20 Client Smp ID: vstd20
 Inj Date : 23-JAN-2001 13:46
 Operator : 16238 Inst ID: hp4.i
 Smp Info : vstd20 5ml
 Misc Info : vstd20,40123d.b,
 Comment :
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 Meth Date : 13-Feb-2001 06:35 dudeckk Quant Type: ISTD
 Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

K 11/1/01

Concentration Formula: Amt * DF

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
* 46 Fluorobenzene	96	6 995	6 996	(1.000)	620737	250 000	
* 69 Chlorobenzene-d5	119	10 122	10.117	(1.000)	128213	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 458	12 453	(1.000)	192912	250.000	
\$ 39 Dibromofluoromethane	113	6 283	6 279	(0.898)	50760	100.000	108 6
\$ 43 1,2-Dichloroethane-d4	65	6 679	6 680	(0.955)	50289	100 000	110 0
\$ 59 Toluene-d8	98	8 643	8 645	(0.854)	263300	100 000	109 2
\$ 80 Bromofluorobenzene	95	11 308	11 303	(1.117)	92168	100 000	110 7
1 Dichlorodifluoromethane	85	1 453	1 448	(0.208)	62846	100 000	98 09
2 Chloromethane	50	1.635	1 643	(0.234)	78112	100 000	96 32
3 Vinyl Chloride	62	1.739	1 740	(0.249)	74075	100 000	96 84
4 Bromomethane	94	2 055	2 057	(0.294)	6470	100.000	73 44
5 Chloroethane	64	2 159	2 154	(0.309)	12920	100 000	101.2
6 Trichlorofluoromethane	101	2.353	2 355	(0.336)	15783	100 000	42.26
12 1,1-Dichloroethene	96	2 992	2 993	(0.428)	42067	100 000	95.05
13 Acetone	43	3 327	3 322	(0.476)	35004	100 000	116 0
15 Carbon Disulfide	76	3 229	3 237	(0.462)	134110	100 000	94 29
18 Methylene Chloride	84	3 819	3 815	(0.546)	52928	100 000	102 1
19 trans-1,2-Dichloroethene	96	4.154	4 155	(0.594)	58728	100 000	99 46
20 Methyl tert-butyl ether	73	4 239	4 241	(0.606)	143140	100 000	100 1
24 1,1-Dichloroethane	63	4 866	4 873	(0.696)	98954	100 000	101 6
27 2,2-Dichloropropane	77	5 614	5 615	(0.803)	59486	100 000	96 12
28 cis-1,2-dichloroethene	96	5 675	5 676	(0.811)	61255	100 000	102 1

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
M 29 1,2-Dichloroethene (total)	96				119983	200 000	201.6
30 Bromochloromethane	128	5.973	5.974 (0.854)		25390	100 000	101.6
31 2-Butanone	43	5.809	5.804 (0.830)		37230	100 000	106.2
37 Chloroform	83	6.082	6.084 (0.870)		90503	100 000	100.2
38 1,1,1-Trichloroethane	97	6.210	6.212 (0.888)		62529	100 000	97.81
40 1,1-Dichloropropene	75	6.405	6.406 (0.916)		51515	100 000	101.0
41 Carbon Tetrachloride	117	6.350	6.352 (0.908)		44079	100 000	95.72
42 Benzene	78	6.636	6.637 (0.949)		239188	100 000	102.4
45 1,2-Dichloroethane	62	6.764	6.771 (0.967)		59157	100 000	100.9
47 Trichloroethene	130	7.378	7.380 (1.055)		53120	100 000	101.2
49 1,2-Dichloropropane	63	7.670	7.672 (1.097)		60204	100 000	102.1
50 Dibromomethane	93	7.792	7.793 (1.114)		28836	100 000	102.2
53 Bromodichloromethane	83	7.962	7.964 (1.138)		52149	100 000	95.86
57 cis-1,3-Dichloropropene	75	8.431	8.432 (1.205)		77121	100 000	98.02
58 4-Methyl-2-Pentanone	43	8.613	8.615 (0.851)		55185	100 000	99.60
60 Toluene	91	8.710	8.712 (0.861)		252713	100 000	100.7
61 trans-1,3-Dichloropropene	75	9.027	9.028 (0.892)		63103	100 000	95.18
63 1,3-Dichloropropane	76	9.374	9.375 (0.926)		82639	100 000	98.55
64 1,1,2-Trichloroethane	97	9.203	9.205 (0.909)		47491	100 000	98.59
65 Tetrachloroethene	164	9.228	9.235 (0.912)		40203	100 000	100.4
66 2-Hexanone	43	9.453	9.454 (0.934)		43033	100 000	105.0
67 Dibromochloromethane	129	9.562	9.564 (0.945)		33295	100 000	91.29
68 1,2-Dibromoethane	107	9.678	9.679 (0.956)		43148	100 000	99.18
70 Chlorobenzene	112	10.146	10.148 (1.002)		149339	100 000	101.6
71 1,1,1,2-Tetrachloroethane	131	10.243	10.239 (1.012)		39430	100 000	98.51
72 Ethylbenzene	106	10.231	10.233 (1.011)		85098	100 000	102.3
73 m + p Xylene	106	10.353	10.354 (1.023)		209775	200 000	207.4
74 Xylene-o	106	10.754	10.750 (1.063)		99834	100 000	102.9
M 75 Xylenes (total)	106				309609	100 000	319.0
76 Styrene	104	10.779	10.780 (1.065)		168917	100 000	103.0
77 Bromoform	173	10.980	10.981 (1.085)		16899	100 000	90.88
78 Isopropylbenzene	105	11.107	11.109 (1.097)		250534	100 000	103.1
79 Bromobenzene	156	11.442	11.443 (0.918)		54157	100 000	102.8
81 n-Propylbenzene	120	11.515	11.522 (0.924)		70115	100 000	100.2
82 2-Chlorotoluene	126	11.630	11.626 (0.934)		56940	100 000	100.6
83 1,1,2,2-Tetrachloroethane	83	11.484	11.486 (0.922)		54132	100 000	102.4
84 1,2,3-Trichloropropane	110	11.527	11.529 (0.925)		16738	100 000	104.7
85 4-Chlorotoluene	126	11.746	11.748 (0.943)		58775	100 000	101.4
86 1,3,5-Trimethylbenzene	105	11.703	11.705 (0.939)		197102	100 000	101.2
87 tert-Butylbenzene	119	12.014	12.015 (0.964)		170062	100 000	100.8
88 1,2,4-Trimethylbenzene	105	12.075	12.076 (0.969)		194376	100 000	102.4
89 sec-Butylbenzene	105	12.233	12.234 (0.982)		268643	100 000	102.2
90 4-Isopropyltoluene	119	12.385	12.380 (0.994)		212484	100 000	103.7
91 1,3-Dichlorobenzene	146	12.379	12.380 (0.994)		110217	100 000	104.1
93 1,4-Dichlorobenzene	146	12.482	12.478 (1.002)		111310	100 000	101.1
94 n-Butylbenzene	91	12.792	12.794 (1.027)		196639	100 000	100.6
95 1,2-Dichlorobenzene	146	12.853	12.855 (1.032)		97955	100 000	102.2

Compounds	QUANT SIG	AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL AMT (ng)	ON COL (ng,
*****	====	==	=====	=====	=====	=====	=====
96 1,2-Dibromo-3-chloropropane	157	13.662	13.658	(1.097)	4257	100.000	102.5
97 1,2,4 Trichlorobenzene	180	14.459	14.455	(1.161)	31585	100.000	101.9
98 Hexachlorobutadiene	225	14.581	14.576	(1.170)	22803	100.000	99.38
99 Naphthalene	128	14.709	14.710	(1.181)	55101	100.000	103.0
100 1,2,3-Trichlorobenzene	180	14.958	14.960	(1.201)	20492	100.000	100.1

Data File: \\pptp02\chem\hp4.1\401234.b\4040123.D

Date: 23-JAN-2001 14:09

Client ID: vstd50

Sample Info: vstd50 5ml

Purge Volume: 5.0

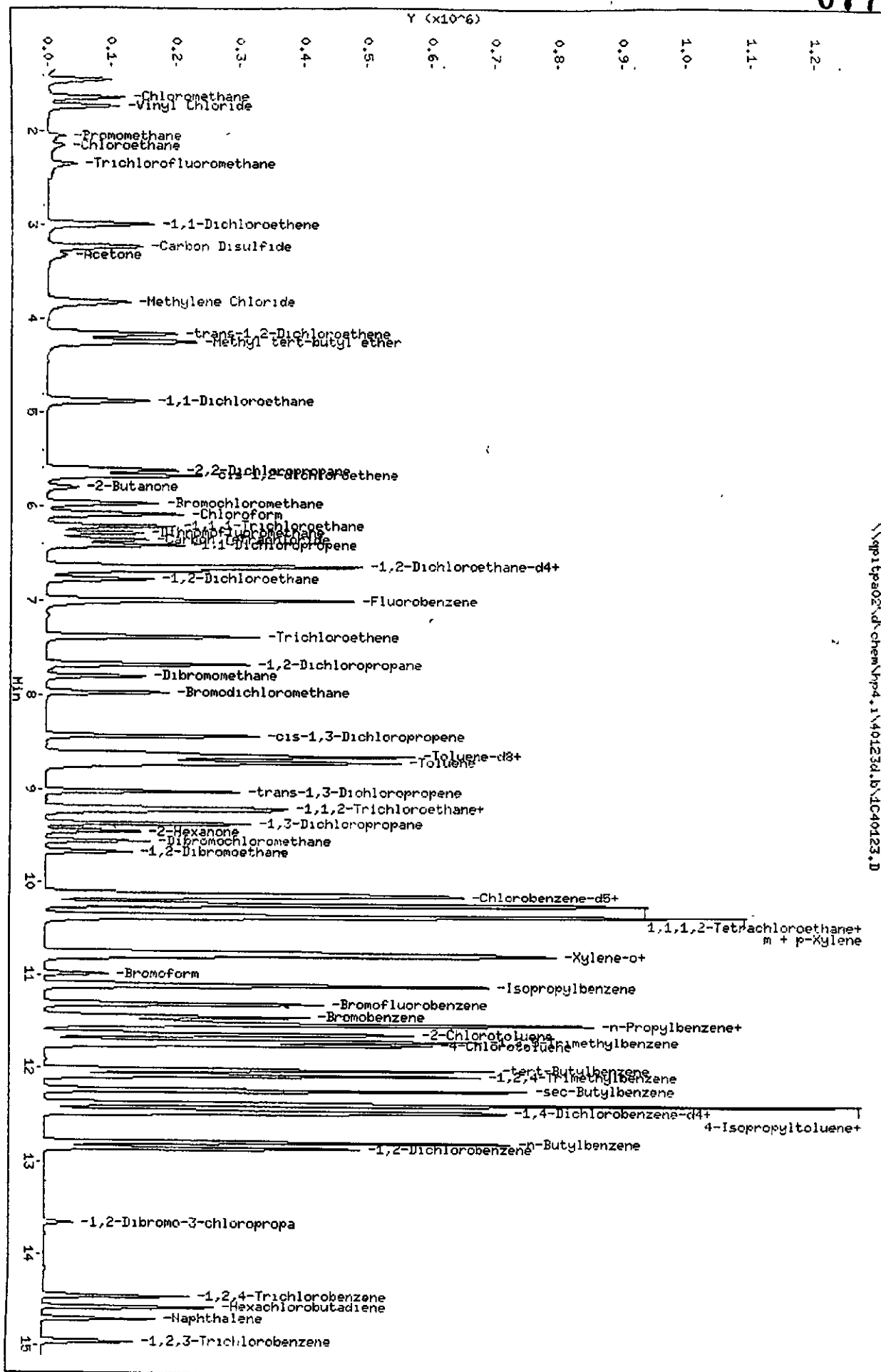
Column phase: DB 624

Instrument: hp4.1

Operator: 16238

Column diameter: 0.18

Page 5



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1C40123.D
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 Inj Date : 23-JAN-2001 14:09
 Operator : 16238 Inst ID: hp4.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50,40123d.b,
 Comment :
 Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
 Meth Date : 13-Feb-2001 06:36 dudeckk Quant Type: ISTD
 Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
 Als bottle: 4 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

K210101

Concentration Formula: Amt * DF

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
*****	----	==	-----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.996	6.996	(1.000)	608732	250.000	
* 69 Chlorobenzene-d5	119	10.117	10.117	(1.000)	128032	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.453	12.453	(1.000)	191827	250.000	
\$ 39 Dibromofluoromethane	113	6.279	6.279	(0.897)	115000	250.000	251.0
\$ 43 1,2-Dichloroethane-d4	65	6.680	6.680	(0.955)	132963	250.000	247.4
\$ 59 Toluene-d8	98	8.645	8.645	(0.854)	596232	250.000	247.6
\$ 80 Bromofluorobenzene	95	11.303	11.303	(1.117)	212105	250.000	255.1
1 Dichlorodifluoromethane	85	1.448	1.448	(0.207)	162809	250.000	259.1
2 Chloromethane	50	1.643	1.643	(0.235)	202876	250.000	255.1
3 Vinyl Chloride	62	1.740	1.740	(0.249)	189801	250.000	253.0
4 Bromomethane	94	2.057	2.057	(0.294)	19282	250.000	223.2
5 Chloroethane	64	2.154	2.154	(0.308)	31349	250.000	250.3
6 Trichlorofluoromethane	101	2.355	2.355	(0.337)	40264	250.000	109.9
12 1,1-Dichloroethene	96	2.993	2.993	(0.428)	109251	250.000	249.4
13 Acetone	43	3.322	3.322	(0.475)	67065	250.000	220.5
15 Carbon Disulfide	76	3.237	3.237	(0.463)	354962	250.000	254.5
18 Methylene Chloride	84	3.815	3.815	(0.545)	123246	250.000	242.4
19 trans-1,2-Dichloroethene	96	4.155	4.155	(0.594)	149599	250.000	258.4
20 Methyl tert butyl ether	73	4.241	4.241	(0.606)	362596	250.000	258.6
24 1,1-Dichloroethane	63	4.873	4.873	(0.697)	246604	250.000	258.1
27 2,2-Dichloropropane	77	5.615	5.615	(0.803)	157662	250.000	261.4
28 cis 1,2-dichloroethene	96	5.676	5.676	(0.811)	154006	250.000	261.8

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Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
M 29 1,2-Dichloroethene (total)	96				303605	500 000	520 2
30 Bromochloromethane	128	5 974	5 974 (0 854)		64170	250 000	262 0
31 2-Butanone	43	5 804	5 804 (0 830)		90928	250 000	264 4
37 Chloroform	83	6 084	6 084 (0 870)		202660	250 000	257 3
38 1,1,1-Trichloroethane	97	6 212	6 212 (0 888)		163178	250 000	260 3
40 1,1 Dichloropropene	75	6 406	6 406 (0 916)		128597	250 000	257 1
41 Carbon Tetrachloride	117	6 352	6 352 (0 908)		1 7119	250 000	259 3
42 Benzene	78	6 637	6 637 (0 949)		591113	250 000	258 1
45 1,2 Dichloroethane	62	6 771	6 771 (0 968)		145190	250 000	252 6
47 Trichloroethene	130	7 380	7 380 (1 055)		133132	250 000	258 6
49 1,2-Dichloropropane	63	7 672	7 672 (1 097)		148441	250 000	256 8
50 Dibromomethane	93	7 793	7 793 (1 114)		71635	250 000	258 9
53 Bromodichloromethane	83	7 964	7 964 (1 138)		138682	250 000	259 9
57 cis-1,3-Dichloropropene	75	8 432	8 432 (1 205)		203367	250 000	263 6
58 4-Methyl-2-Pentanone	43	8 615	8 615 (0 851)		143632	250 000	259 6
60 Toluene	91	8 712	8 712 (0 861)		632207	250 000	252 2
61 trans-1,3-Dichloropropene	75	9 028	9 028 (0 892)		168353	250 000	254 3
63 1,3-Dichloropropane	76	9 375	9 375 (0 927)		206393	250 000	246 5
64 1,1,2-Trichloroethane	97	9 205	9 205 (0 910)		120549	250 000	250 6
65 Tetrachloroethene	164	9 235	9 235 (0 913)		99365	250 000	248 6
66 2 Hexanone	43	9 454	9 454 (0 934)		108920	250 000	266 3
67 Dibromochloromethane	129	9 564	9 564 (0 945)		92823	250 000	254 9
68 1,2-Dibromoethane	107	9 679	9 679 (0 957)		109452	250 000	251 9
70 Chlorobenzene	112	10 148	10 148 (1 003)		374082	250 000	254 8
71 1,1,1,2-Tetrachloroethane	131	10 239	10 239 (1 012)		101122	250 000	253 0
72 Ethylbenzene	106	10 233	10 233 (1 011)		212498	250 000	255 8
73 m + p-Xylene	106	10 354	10 354 (1 023)		523417	500 000	518 3
74 Xylene-o	106	10 750	10 750 (1 063)		250656	250 000	258 6
M 75 Xylenes (total)	106				774073	250 000	798 7
76 Styrene	104	10 780	10 780 (1 066)		431957	250 000	263 8
77 Bromoform	173	10 981	10 981 (1 085)		50106	250 000	269 8
78 Isopropylbenzene	105	11 109	11 109 (1 098)		631156	250 000	260 2
79 Bromobenzene	156	11 443	11 443 (0 919)		134776	250 000	257 3
81 n Propylbenzene	120	11 524	11 522 (0 925)		179683	250 000	258 2
82 2 Chlorotoluene	126	11 626	11 626 (0 934)		143590	250 000	255 2
83 1,1,2,2 Tetrachloroethane	83	11 486	11 486 (0 922)		137888	250 000	262 3
84 1,2,3 Trichloropropane	110	11 529	11 529 (0 926)		42091	250 000	264 7
85 4-Chlorotoluene	126	11 748	11 748 (0 943)		148738	250 000	258 1
86 1,3,5-Trimethylbenzene	105	11 705	11 705 (0 940)		502466	250 000	259 2
87 tert-Butylbenzene	119	12 015	12 015 (0 965)		430621	250 000	256 8
88 1,2,4-Trimethylbenzene	105	12 076	12 076 (0 970)		490829	250 000	260 1
89 sec-Butylbenzene	105	12 234	12 234 (0 982)		670501	250 000	256 4
90 4 Isopropyltoluene	119	12 380	12 380 (0 994)		527594	250 000	259 0
91 1,3-Dichlorobenzene	146	12 380	12 380 (0 994)		274243	250 000	260 4
93 1,4-Dichlorobenzene	146	12 478	12 478 (1 002)		277855	250 000	253 9
94 n Butylbenzene	91	12 794	12 794 (1 027)		495340	250 000	254 8
95 1,2 Dichlorobenzene	146	12 855	12 855 (1 032)		245412	250 000	257 5

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Data File: \\qp1tpa02\d\chem\hp4.1\40123d.b\1C40123.D
 Report Date: 13-Feb-2001 06:36

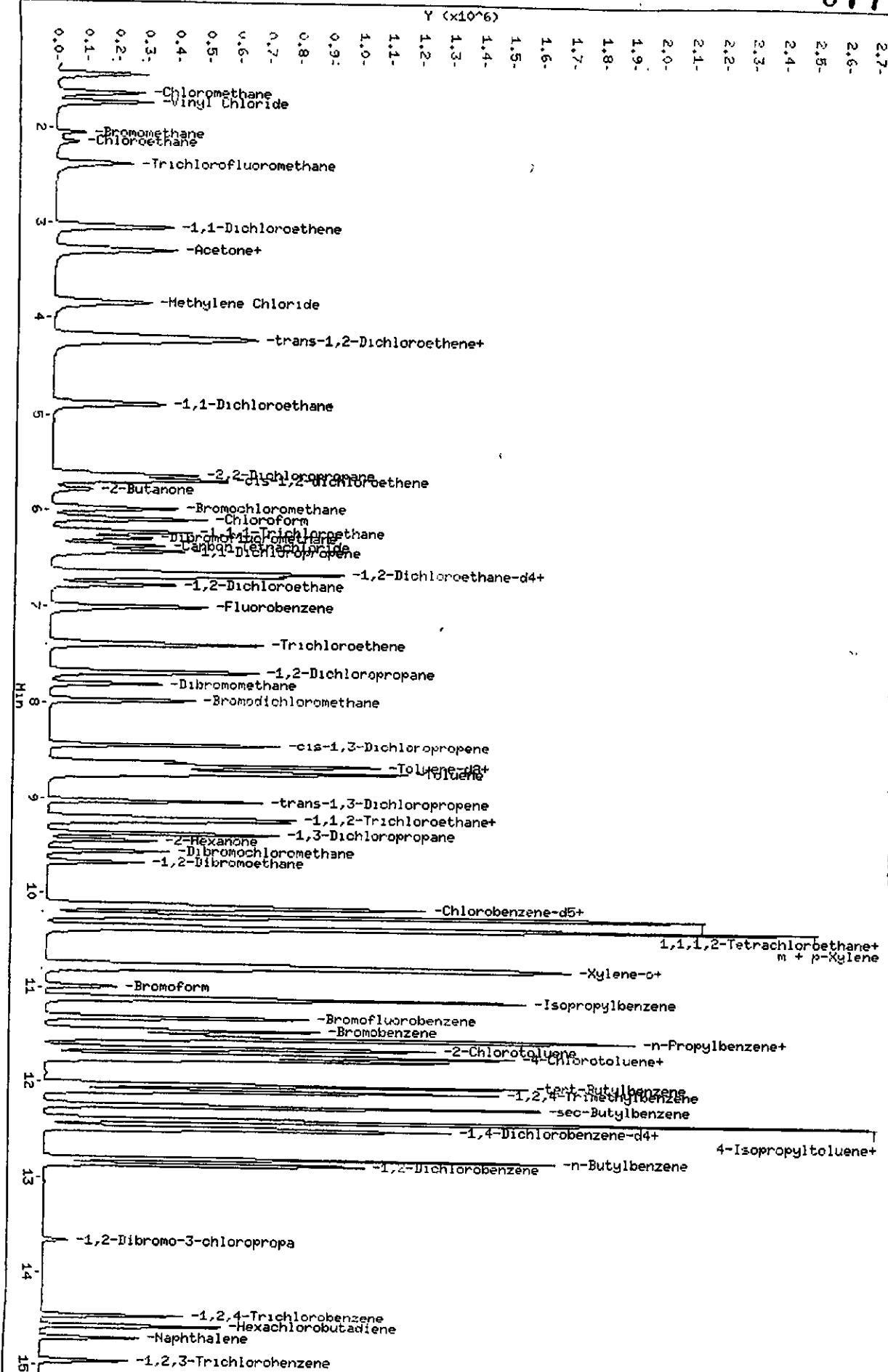
Page 3

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ng)	(ng,	
-----	----	==	=====	=====	=====	=====	=====	
96 1,2-Dibromo 3 chloropropane	157	13 658	13 658	(1 097)	13396	250 000	324 4	
97 1,2,4-Trichlorobenzene	180	14 455	14 455	(1 161)	81424	250 000	254.2	
98 Hexachlorobutadiene	225	14 576	14 576	(1 170)	55453	250 000	240 0	
99 Naphthalene	128	14 710	14 710	(1 181)	160807	250 000	302 2	
100 1,2,3-Trichlorobenzene	180	14 960	14 960	(1 201)	51384	250 000	252 4	

Data File: \\spitpa02\chem\hp4.1\40123d.b\1D40123.D
 Date: 23-JAN-2001 14:40
 Client ID: vstd100
 Sample Info: vstd100 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16238
 Column diameter: 0.18

\\spitpa02\chem\hp4.1\40123d.b\1D40123.D



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Data File: \\qpitpa02\d\chem\hp4.i\40123d.b\1D40123.D
Report Date: 13-Feb-2001 06:36

Page 1

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VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1D40123.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 23-JAN-2001 14:40
Operator : 16238 Inst ID: hp4.i
Smp Info : vstd100 5ml
Misc Info : vstd100,40123d.b,,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
Meth Date : 13-Feb-2001 06:36 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077'

K 2/13/01

Concentration Formula: Amt * DF

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAI AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	7.001	6.996	(1.000)	685082	250.000	
* 69 Chlorobenzene-d5	119	10.122	10.117	(1.000)	132700	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.453	(1.000)	194056	250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.279	(0.897)	252766	500.000	490.2
\$ 43 1,2-Dichloroethane d4	65	6.685	6.680	(0.955)	293425	500.000	485.1
\$ 59 Toluene-d8	98	8.650	8.645	(0.855)	1203889	500.000	482.3
\$ 80 Bromofluorobenzene	95	11.308	11.303	(1.117)	406530	500.000	471.7
1 Dichlorodifluoromethane	85	1.447	1.448	(0.207)	403671	500.000	570.9
2 Chloromethane	50	1.636	1.643	(0.234)	505962	500.000	565.3
3 Vinyl Chloride	62	1.739	1.740	(0.248)	474308	500.000	561.8
4 Bromomethane	94	2.055	2.057	(0.294)	65995	500.000	678.7
5 Chloroethane	64	2.153	2.154	(0.308)	77127	500.000	547.3
6 Trichlorofluoromethane	101	2.378	2.355	(0.340)	360480	500.000	874.5
12 1,1-Dichloroethene	96	3.041	2.993	(0.434)	281390	500.000	576.1
13 Acetone	43	3.290	3.322	(0.470)	155359	500.000	466.3
15 Carbon Disulfide	76	3.284	3.237	(0.469)	913926	500.000	582.2
18 Methylene Chloride	84	3.838	3.815	(0.548)	297379	500.000	519.8
19 trans-1,2-Dichloroethene	96	4.185	4.155	(0.598)	364484	500.000	559.3
20 Methyl tert-butyl ether	73	4.227	4.241	(0.604)	885660	500.000	561.3
24 1,1-Dichloroethane	63	4.890	4.873	(0.699)	591460	500.000	550.0
27 2,2-Dichloropropane	77	5.626	5.615	(0.804)	396277	500.000	583.7
28 cis-1,2-dichloroethene	96	5.687	5.676	(0.812)	368996	500.000	557.4

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
M 29 1,2-Dichloroethene (total)	96				733480	1000 00	1117
30 Bromochloromethane	128	5 979	5 974	(0 854)	150866	500 000	547 2
31 2 Butanone	43	5 785	5 804	(0 826)	216655	500 000	559 7
37 Chloroform	83	6 089	6 084	(0 870)	489213	500 000	551 8
38 1,1,1-Trichloroethane	97	6 223	6 212	(0 889)	398987	500 000	565 5
40 1,1-Dichloropropene	75	6 423	6 406	(0 917)	308636	500 000	548 3
41 Carbon Tetrachloride	117	6 369	6 352	(0 910)	296213	500 000	582 8
42 Benzene	78	6 648	6 637	(0 950)	1372300	500 000	532.4
45 1,2-Dichloroethane	62	6 776	6 771	(0 968)	353386	500 000	546 2
47 Trichloroethene	130	7 385	7 380	(1 055)	314097	500 000	542 1
49 1,2 Dichloropropane	63	7 677	7 672	(1 096)	347839	500 000	534 7
50 Dibromomethane	93	7 798	7 793	(1 114)	173454	500 000	557.1
53 Bromodichloromethane	83	7 969	7 964	(1 138)	348879	500 000	581 0
57 cis-1,3-Dichloropropene	75	8 437	8 432	(1 205)	493786	500 000	568.6
58 4-Methyl 2-Pentanone	43	8 607	8 615	(0 850)	333011	500 000	580 7
60 Toluene	91	8 717	8 712	(0 861)	1418800	500 000	546 2
61 trans 1,3-Dichloropropene	75	9 027	9 028	(0 892)	405456	500 000	590 9
63 1,3-Dichloropropane	76	9 374	9 375	(0 926)	482058	500 000	555 4
64 1,1,2-Trichloroethane	97	9 210	9 205	(0 910)	277802	500 000	557 2
65 Tetrachloroethane	164	9 234	9 235	(0 912)	228100	500 000	550 6
66 2 Hexanone	43	9 447	9 454	(0 933)	252901	500 000	596 5
67 Dibromochloromethane	129	9 562	9 564	(0 945)	231545	500 000	613 4
68 1,2-Dibromoethane	107	9 678	9 679	(0 956)	254549	500 000	565 3
70 Chlorobenzene	112	10 153	10 148	(1 003)	813416	500 000	534 6
71 1,1,1,2-Tetrachloroethane	131	10 244	10 239	(1 012)	232709	500 000	561 7
72 Ethylbenzene	106	10 238	10 233	(1 011)	465792	500 000	511 1
73 m + p-Xylene	106	10 359	10 354	(1 023)	1133340	1000 00	1083
74 Xylene-o	106	10 755	10 750	(1 063)	544240	500 000	541 8
M 75 Xylenes (total)	106				1677580	500 000	1670
76 Styrene	104	10 779	10 780	(1 065)	938167	500 000	552 8
77 Bromoform	173	10 980	10 981	(1 085)	120893	500 000	628 2
78 Isopropylbenzene	105	11 108	11 109	(1 097)	1369059	500 000	544 5
79 Bromobenzene	156	11 442	11 443	(0 918)	284506	500 000	536 9
81 n-Propylbenzene	120	11 521	11 522	(0 925)	386151	500 000	548 5
82 2-Chlorotoluene	126	11 631	11 626	(0 934)	304960	500 000	535 8
83 1,1,2,2-Tetrachloroethane	83	11 485	11 486	(0 922)	287164	500 000	540 0
84 1,2,3-Trichloropropane	110	11 534	11 529	(0 926)	86177	500 000	535 8
85 4-Chlorotoluene	126	11 746	11 748	(0 943)	316202	500 000	542 5
86 1,3,5 Trimethylbenzene	105	11 704	11 705	(0 939)	1078193	500 000	549 8
87 tert-Butylbenzene	119	12 014	12 015	(0 964)	921319	500 000	543 1
88 1,2,4-Trimethylbenzene	105	12 081	12 076	(0 970)	1053425	500 000	551 9
89 sec-Butylbenzene	105	12 239	12 234	(0 982)	1445366	500 000	546 4
90 4-Isopropyltoluene	119	12 385	12 380	(0 994)	1136171	500 000	551 4
91 1,3 Dichlorobenzene	146	12 385	12 380	(0 994)	564027	500 000	529 4
93 1,4-Dichlorobenzene	146	12 483	12 478	(1 002)	594974	500 000	537 4
94 n Butylbenzene	91	12 793	12 794	(1 027)	1098445	500 000	558 6
95 1,2 Dichlorobenzene	146	12 854	12 855	(1 032)	517204	500 000	536 5

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
96 1,2-Dibromo-3-chloropropane	157	13 663	13 658	(1 097)	24903	500 000	596 1
97 1,2,4-Trichlorobenzene	180	14 460	14.455	(1 161)	168451	500 000	540 3
98 Hexachlorobutadiene	225	14 581	14 576	(1.170)	122045	500 000	528 8
99 Naphthalene	128	14 709	14 710	(1 181)	293451	500 000	545 2
100 1,2,3-Trichlorobenzene	180	14 959	14 960	(1 201)	101756	500 000	494 1

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STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1E40123.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 23-JAN-2001 15:05
Operator : 16238 Inst ID: hp4.i
Smp Info : vstd200 5ml
Misc Info : vstd200,40123d.b,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
Meth Date : 13-Feb-2001 06:30 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

Concentration Formula: Amt * DF

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
* 46 Fluorobenzene	96	7.001	6.996 (1.000)		662390		250.000	
* 69 Chlorobenzene-d5	119	10.121	10.117 (1.000)		134155		250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.453 (1.000)		197576		250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.279 (0.897)		421015		1000.00	844.5
\$ 43 1,2-Dichloroethane-d4	65	6.684	6.680 (0.955)		484319		1000.00	828.1
\$ 59 Toluene-d8	98	8.649	8.645 (0.855)		2058130		1000.00	815.6
\$ 80 Bromofluorobenzene	95	11.308	11.303 (1.117)		716468		1000.00	822.2
1 Dichlorodifluoromethane	85	1.440	1.448 (0.206)		639873		1000.00	936.0
2 Chloromethane	50	1.629	1.643 (0.233)		807503		1000.00	933.2
3 Vinyl Chloride	62	1.732	1.740 (0.248)		764101		1000.00	936.1
4 Bromomethane	94	2.049	2.057 (0.293)		104858		1000.00	1115
5 Chloroethane	64	2.152	2.154 (0.307)		126582		1000.00	929.0
6 Trichlorofluoromethane	101	2.365	2.355 (0.338)		399361		1000.00	1002
12 1,1-Dichloroethene	96	3.028	2.993 (0.433)		442012		1000.00	936.0
13 Acetone	43	3.302	3.322 (0.472)		248132		1000.00	770.3
15 Carbon Disulfide	76	3.265	3.237 (0.466)		1456779		1000.00	959.8
18 Methylene Chloride	84	3.831	3.815 (0.547)		574996		1000.00	1039
19 trans-1,2-Dichloroethene	96	4.178	4.155 (0.597)		586691		1000.00	931.1
20 Methyl tert-butyl ether	73	4.227	4.241 (0.604)		1414514		1000.00	927.2
24 1,1-Dichloroethane	63	4.884	4.873 (0.698)		956951		1000.00	920.4
27 2,2-Dichloropropane	77	5.626	5.615 (0.804)		652259		1000.00	993.7
28 cis-1,2 dichloroethene	96	5.680	5.676 (0.811)		596301		1000.00	931.7

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
M 29 1,2-Dichloroethene (total)	96				1182992	2000 00	1863
30 Bromochloromethane	128	5 979	5 974	(0.854)	245600	1000 00	921.4
31 2-Butanone	43	5.784	5 804	(0.826)	352630	1000 00	942 2
37 Chloroform	83	6 088	6 084	(0.870)	792131	1000 00	924 2
38 1,1,1-Trichloroethane	97	6 222	6 212	(0.889)	666031	1000 00	976 3
40 1,1 Dichloropropene	75	6 423	6 406	(0.917)	524548	1000 00	963 7
41 Carbon Tetrachloride	117	6 362	6 352	(0.909)	506434	1000 00	1030
42 Benzene	78	6 648	6 637	(0.950)	2275420	1000 00	913 0
45 1,2-Dichloroethane	62	6 775	6 771	(0.968)	574253	1000 00	918 0
47 Trichloroethene	130	7.390	7 380	(1.056)	519167	1000 00	976 7
49 1,2 Dichloropropane	63	7.676	7 672	(1.096)	582826	1000 00	926 7
50 Dibromomethane	93	7 797	7 793	(1.114)	285973	1000 00	949 9
53 Bromodichloromethane	83	7.968	7 964	(1.138)	593927	1000 00	1023
57 cis-1,3-Dichloropropene	75	8 436	8 432	(1.205)	837166	1000 00	997 1
58 4-Methyl-2-Pentanone	43	8 607	8 615	(0.850)	570776	1000 00	984 6
60 Toluene	91	8 716	8 712	(0.861)	2405032	1000 00	915 8
61 trans-1,3-Dichloropropene	75	9 026	9 028	(0.892)	707956	1000 00	1013
63 1,3-Dichloropropane	76	9.373	9 375	(0.926)	823458	1000 00	938 5
64 1,1,2-Trichloroethane	97	9.209	9 205	(0.910)	472401	1000 00	937 3
65 Tetrachloroethene	164	9 233	9 235	(0.912)	391669	1000 00	935 2
66 2-Hexanone	43	9 446	9 454	(0.933)	449377	1000 00	1048
67 Dibromochloromethane	129	9 562	9 564	(0.945)	414006	1000 00	1085
68 1,2-Dibromoethane	107	9 677	9 679	(0.956)	439995	1000 00	966 6
70 Chlorobenzene	112	10 152	10 148	(1.003)	1399403	1000 00	909 7
71 1,1,1,2 Tetrachloroethane	131	10 243	10 239	(1.012)	413172	1000 00	986 5
72 Ethylbenzene	106	10.231	10 233	(1.011)	801026	1000 00	920 4
73 m + p-Xylene	106	10.359	10.354	(1.023)	1938648	2000.00	1832
74 Xylene-o	106	10 754	10 750	(1.063)	936352	1000.00	922.1
M 75 Xylenes (total)	106				2875000	1000 00	2831
76 Styrene	104	10 784	10 780	(1.066)	1618579	1000 00	943 4
77 Bromoform	173	10.979	10 981	(1.085)	220185	1000 00	1112
78 Isopropylbenzene	105	11 107	11 109	(1.097)	2355753	1000.00	926 8
79 Bromobenzene	156	11.448	11 443	(0.919)	493949	1000 00	915 6
81 n-Propylbenzene	120	11 521	11.522	(0.925)	663851	1000 00	926.2
82 2-Chlorotoluene	126	11 630	11 626	(0.934)	533035	1000.00	919 9
83 1,1,2,2-Tetrachloroethane	83	11 484	11 486	(0.922)	497150	1000 00	918 2
84 1,2,3-Trichloropropane	110	11 533	11 529	(0.926)	149070	1000 00	910 3
85 4-Chlorotoluene	126	11 746	11 748	(0.943)	545262	1000 00	918 8
86 1,3,5-Trimethylbenzene	105	11 703	11 705	(0.939)	1880879	1000 00	942 0
87 tert-Butylbenzene	119	12 013	12 015	(0.964)	1596503	1000 00	924 3
88 1,2,4-Trimethylbenzene	105	12 080	12 076	(0.970)	1842401	1000.00	948 0
89 sec-Butylbenzene	105	12 238	12.234	(0.982)	2484126	1000 00	922 4
90 4-Isopropyltoluene	119	12 384	12.380	(0.994)	1905678	1000.00	908 3
91 1,3 Dichlorobenzene	146	12 384	12 380	(0.994)	927744	1000 00	855 2
93 1,4 Dichlorobenzene	146	12 482	12 478	(1.002)	1023326	1000 00	907 8
94 n-Butylbenzene	91	12 792	12 794	(1.027)	1938116	1000 00	968 0
95 1,2-Dichlorobenzene	146	12 853	12 855	(1.032)	898251	1000 00	915 1

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON COL (ng)
*****	----	--	-----	-----	-----	-----	-----
96 1,2-Dibromo-3-chloropropane	157	13 662	13.658	(1 097)	49763	1000 00	1170
97 1,2,4-Trichlorobenzene	180	14 459	14 455	(1 161)	318801	1000 00	1004
98 Hexachlorobutadiene	225	14 581	14 576	(1 170)	217193	1000 00	924 2
99 Naphthalene	128	14 708	14 710	(1 181)	615857	1000 00	1124
100 1,2,3-Trichlorobenzene	180	14 958	14 960	(1 201)	207357	1000 00	988 9

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30220N

Instrument ID: HP3

Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N

Calibration Time(s): 1926 2326

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =2A30220P		RRF20 =1B30220P			
RRF50 =1C30220P		RRF100=1D30220P		RRF200=1E30220P			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.375	0.336	0.305	0.360	0.347	0.345	7.7
Chloromethane	* 0.564	0.538	0.518	0.577	0.555	0.550	4.1*
Vinyl Chloride	0.302	0.301	0.285	0.359	0.394	0.328	14.1
Bromomethane	0.118	0.102	0.097	0.104	0.094	0.103	8.7
Chloroethane	0.094	0.076	0.091	0.070	0.059	0.078	18.5
Trichlorofluoromethane	0.403	0.373	0.330	0.399	0.376	0.376	7.7
1,1-Dichloroethene	0.179	0.168	0.156	0.190	0.181	0.175	7.4
Methylene Chloride	0.211	0.202	0.204	0.210	0.210	0.207	2.0
trans-1,2-Dichloroethene	0.216	0.196	0.182	0.210	0.204	0.202	6.5
1,1-Dichloroethane	* 0.504	0.491	0.446	0.583	0.470	0.499	10.5*
cis-1,2-dichloroethene	0.222	0.245	0.281	0.310	0.296	0.271	13.5
Chloroform	0.487	0.469	0.478	0.511	0.492	0.487	3.2
Bromochloromethane	0.133	0.135	0.138	0.148	0.142	0.139	4.2
1,1,1-Trichloroethane	0.379	0.383	0.367	0.429	0.421	0.396	7.0
Carbon Tetrachloride	0.318	0.330	0.311	0.374	0.368	0.340	8.6
1,2-Dichloroethane	0.433	0.439	0.452	0.466	0.444	0.447	2.8
Benzene	0.969	1.101	1.121	1.207	1.121	1.104	7.8
Trichloroethene	0.217	0.223	0.242	0.272	0.268	0.244	10.3
1,2-Dichloropropane	0.264	0.283	0.312	0.336	0.320	0.303	9.6
Bromodichloromethane	0.302	0.327	0.352	0.379	0.371	0.346	9.3
cis-1,3-Dichloropropene	0.207	0.296	0.403	0.453	0.451	0.362	29.7
Toluene	3.879	5.129	5.055	5.336	4.990	4.878	11.8
trans-1,3-Dichloropropene	1.047	1.356	1.625	1.770	1.799	1.519	20.9
1,1,2-Trichloroethane	1.024	1.084	1.084	1.109	1.056	1.071	3.0
Tetrachloroethene	0.685	0.726	0.701	0.762	0.752	0.725	4.5
Dibromochloromethane	0.813	0.995	1.086	1.158	1.184	1.047	14.4
Chlorobenzene	* 3.658	3.486	3.387	3.522	3.247	3.460	4.4*
Ethylbenzene	1.387	1.742	1.762	1.911	1.756	1.712	11.3
Styrene	2.572	3.873	3.821	3.942	3.483	3.538	16.1
Bromoform	* 0.430	0.469	0.543	0.592	0.606	0.528	14.5*
1,1,2,2-Tetrachloroethane	* 0.900	0.926	0.939	0.960	0.924	0.930	2.4*
1,3-Dichlorobenzene	1.373	1.529	1.545	1.654	1.591	1.538	6.8
1,4-Dichlorobenzene	1.640	1.621	1.623	1.730	1.651	1.653	2.7
1,2-Dichlorobenzene	1.207	1.472	1.461	1.497	1.364	1.400	8.5
Dibromomethane	0.157	0.163	0.174	0.181	0.172	0.169	5.6
1,2-Dibromoethane	0.891	1.042	1.108	1.153	1.135	1.066	10.0
1,1,1,2-Tetrachloroethane	1.071	1.092	1.111	1.191	1.141	1.121	4.2

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

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

677 189

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30220N

Instrument ID: HP3

Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N

Calibration Time(s): 1926 2326

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID: RRF5 =2A30220P RRF20 =1B30220P RRF50 =1C30220P RRF100=1D30220P RRF200=1E30220P							
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.247	0.292	0.308	0.318	0.317	0.296	10.0
1,2-Dibromo-3-chloropropane	0.066	0.092	0.106	0.128	0.149	0.108	29.4
2,2-Dichloropropane	0.322	0.330	0.320	0.378	0.379	0.346	8.7
1,1-Dichloropropene	0.205	0.261	0.294	0.366	0.356	0.296	22.6
1,3-Dichloropropane	1.505	1.895	2.014	2.074	1.969	1.891	11.9
n-Propylbenzene	0.526	0.885	0.913	1.044	0.995	0.873	23.4
Bromobenzene	0.582	0.745	0.765	0.808	0.758	0.732	11.9
1,3,5-Trimethylbenzene	2.041	2.814	2.809	3.086	2.855	2.721	14.6
2-Chlorotoluene	0.667	0.852	0.852	0.930	0.895	0.839	12.1
4-Chlorotoluene	0.759	0.901	0.880	0.912	0.817	0.854	7.5
tert-Butylbenzene	1.118	1.898	2.141	2.480	2.470	2.021	27.7
1,2,4-Trimethylbenzene	1.980	2.967	3.042	3.377	3.243	2.922	18.8
sec-Butylbenzene	1.963	2.960	3.009	3.544	3.479	2.991	21.2
4-Isopropyltoluene	1.894	2.605	2.647	3.040	2.985	2.634	17.4
n-Butylbenzene	1.392	2.199	2.258	2.579	2.495	2.185	21.5
1,2,4-Trichlorobenzene	0.345	0.473	0.676	0.768	0.798	0.612	32.0
Hexachlorobutadiene	0.171	0.190	0.196	0.223	0.238	0.204	13.1
Naphthalene	0.696	1.491	2.284	2.400	2.430	1.860	40.6
1,2,3-Trichlorobenzene	0.372	0.562	0.677	0.730	0.731	0.614	24.7
Acetone	0.225	0.125	0.087	0.118	0.113	0.134	39.7
Carbon Disulfide	0.525	0.550	0.528	0.624	0.627	0.571	8.9
2-Butanone	0.120	0.153	0.164	0.201	0.205	0.169	21.1
4-Methyl-2-Pentanone	0.609	1.030	1.357	1.535	1.625	1.231	33.7
2-Hexanone	0.455	0.758	0.955	1.162	1.216	0.909	34.3
Methyl tert-butyl ether	0.487	0.513	0.567	0.584	0.585	0.547	8.1
Isopropylbenzene	3.081	4.867	5.070	5.683	5.364	4.813	21.1
1,2-Dichloroethene (total)	0.219	0.220	0.231	0.260	0.250	0.236	7.8
Xylenes (total)	1.260	1.949	2.048	2.156	1.941	1.871	18.8
Dibromofluoromethane	0.268	0.245	0.243	0.240	0.234	0.246	5.3
1,2-Dichloroethane-d4	0.356	0.333	0.340	0.327	0.323	0.336	3.9
Toluene-d8	3.097	4.243	4.172	4.142	4.049	3.941	12.1
Bromofluorobenzene	1.515	1.776	1.785	1.770	1.746	1.718	6.7

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

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INITIAL CALIBRATION REPORT

Instrument ID: hp3.i
Lab File ID: 1E30220P.D
Analysis Type: WATER

Injection Date: 20-FEB-2001 23:26
Lab Sample ID: vstd200
Method File: \\QPITPA02\D\chem\hp3.i\30220p.b

COMPOUND	%RSD
Xylenes (total)	18.8
1,2-Dichloroethene (total)	7.8
Dichlorodifluoromethane	7.7
Chloromethane	4.1
Vinyl Chloride	14.1
Bromomethane	8.7
Chloroethane	18.5
Trichlorofluoromethane	7.7
1,1-Dichloroethene	7.4
Acetone	39.7
Carbon Disulfide	8.9
Methylene Chloride	2.0
trans-1,2-Dichloroethene	6.5
Methyl tert-butyl ether	8.1
1,1-Dichloroethane	10.5
2,2-Dichloropropane	8.7
cis-1,2-dichloroethene	13.5
2-Butanone	21.1
Bromochloromethane	4.2
Chloroform	3.2
1,1,1-Trichloroethane	7.0
Dibromofluoromethane	5.3
Carbon Tetrachloride	8.6
1,1-Dichloropropene	22.6
1,2-Dichloroethane-d4	3.9
Benzene	7.8
1,2-Dichloroethane	2.8
Trichloroethene	10.3
1,2-Dichloropropane	9.6
Dibromomethane	5.6
Bromodichloromethane	9.3
cis-1,3-Dichloropropene	29.7
4-Methyl-2-Pentanone	33.7
Toluene-d8	12.1
Toluene	11.8
trans-1,3-Dichloropropene	20.9
1,1,2-Trichloroethane	3.0
Tetrachloroethene	4.5
1,3-Dichloropropane	11.9

INITIAL CALIBRATION REPORT

677 191

Instrument ID: hp3.i
Lab File ID: 1E30220P.D
Analysis Type: WATER

Injection Date: 20-FEB-2001 23:26
Lab Sample ID: vstd200
Method File: \\QPITPA02\D\chem\hp3.i\30220p.b

COMPOUND	%RSD
-----	-----
2-Hexanone	34.3
Dibromochloromethane	14.4
1,2-Dibromoethane	10.0
Chlorobenzene	4.4
1,1,1,2-Tetrachloroethane	4.2
Ethylbenzene	11.3
m + p-Xylene	8.4
Xylene-o	18.8
Styrene	16.1
Bromoform	14.5
Isopropylbenzene	21.1
Bromofluorobenzene	6.7
Bromobenzene	11.9
1,1,2,2-Tetrachloroethane	2.4
1,2,3-Trichloropropane	10.0
n-Propylbenzene	23.4
2-Chlorotoluene	12.1
1,3,5-Trimethylbenzene	14.6
4-Chlorotoluene	7.5
tert-Butylbenzene	27.7
1,2,4-Trimethylbenzene	18.8
sec-Butylbenzene	21.2
1,3-Dichlorobenzene	6.8
4-Isopropyltoluene	17.4
1,4-Dichlorobenzene	2.7
n-Butylbenzene	21.5
1,2-Dichlorobenzene	8.5
1,2-Dibromo-3-chloropropane	29.4
1,2,4-Trichlorobenzene	32.0
Hexachlorobutadiene	13.1
Naphthalene	40.6
1,2,3-Trichlorobenzene	24.7

The average of all %RSD's in the initial calibration is 13.4

Data File: \\pp1tpa02\chem\mp3.1\30220p.b\2430220p.D

Date: 20-FEB-2001 21:59

Client ID: vstd5

Sample Info: VSTD5 SML

Purge Volume: 5.0

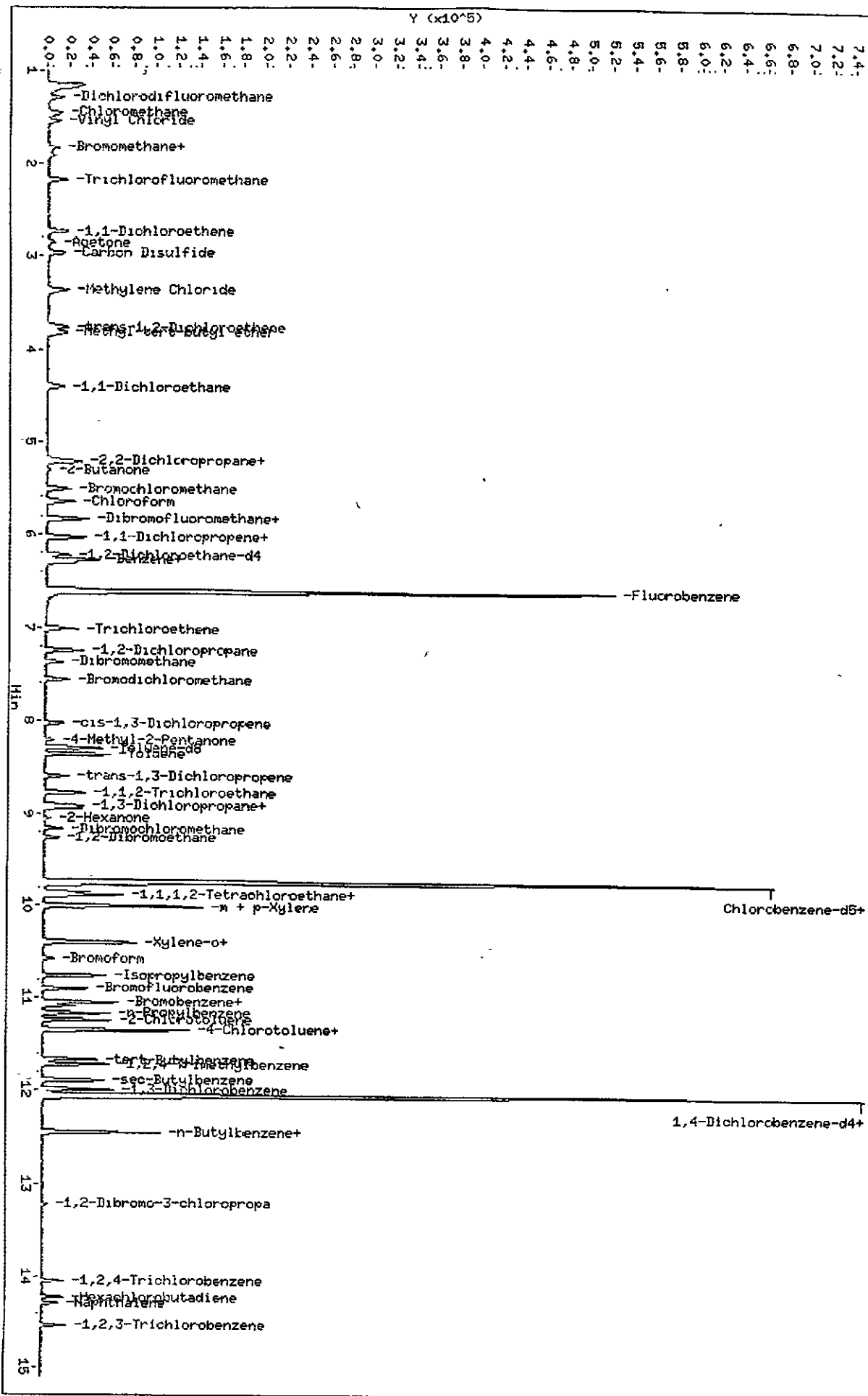
Column Phase: DB 624

Instrument: mp3.1

Operator: 024635

Column diameter: 0.18

\\pp1tpa02\chem\mp3.1\30220p.b\2430220p.D



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp3.i\30220p.b\2A30220P.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 20-FEB-2001 21:59 MS Autotune Date: 08-AUG-2000 16:28
Operator : 034635 Inst ID: hp3.i
Smp Info : VSTD5 5ML
Misc Info : ,30220p.b,8260bh2o.m,4-dwh20.sub
Comment :
Method : \\QPITPA02\D\chem\hp3.i\30220p.b\8260bh2o.m
Meth Date : 21-Feb-2001 06:23 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 19:26 Cal File: 1C30220P.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwh20.sub
Target Version: 4.04
Processing Host: PITPC063, *KLG 2/21/01*

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				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	421042	250.000	
* 69 Chlorobenzene-d5	119	9.735	9.735	(1.000)	97885	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	162268	250.000	
\$ 39 Dibromofluoromethane	113	5.842	5.842	(0.884)	11296	25.0000	27.25
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	14998	25.0000	26.53
\$ 59 Toluene-d8	98	8.294	8.294	(0.852)	30315	25.0000	19.65
\$ 80 Bromofluorobenzene	95	10.903	10.903	(1.120)	14831	25.0000	22.04
1 Dichlorodifluoromethane	85	1.286	1.286	(0.195)	15787	25.0000	27.19
2 Chloromethane	50	1.456	1.456	(0.220)	23730	25.0000	25.60
3 Vinyl Chloride	62	1.541	1.541	(0.233)	12716	25.0000	23.00
4 Bromomethane	94	1.833	1.833	(0.277)	4954	25.0000	28.52
5 Chloroethane	64	1.924	1.924	(0.291)	3960	25.0000	30.15
6 Trichlorofluoromethane	101	2.180	2.180	(0.330)	16979	25.0000	26.79
12 1,1-Dichloroethene	96	2.739	2.739	(0.415)	7524	25.0000	25.56
15 Carbon Disulfide	76	2.971	2.971	(0.450)	22120	25.0000	23.00
13 Acetone	43	2.855	2.855	(0.432)	9485	25.0000	42.10

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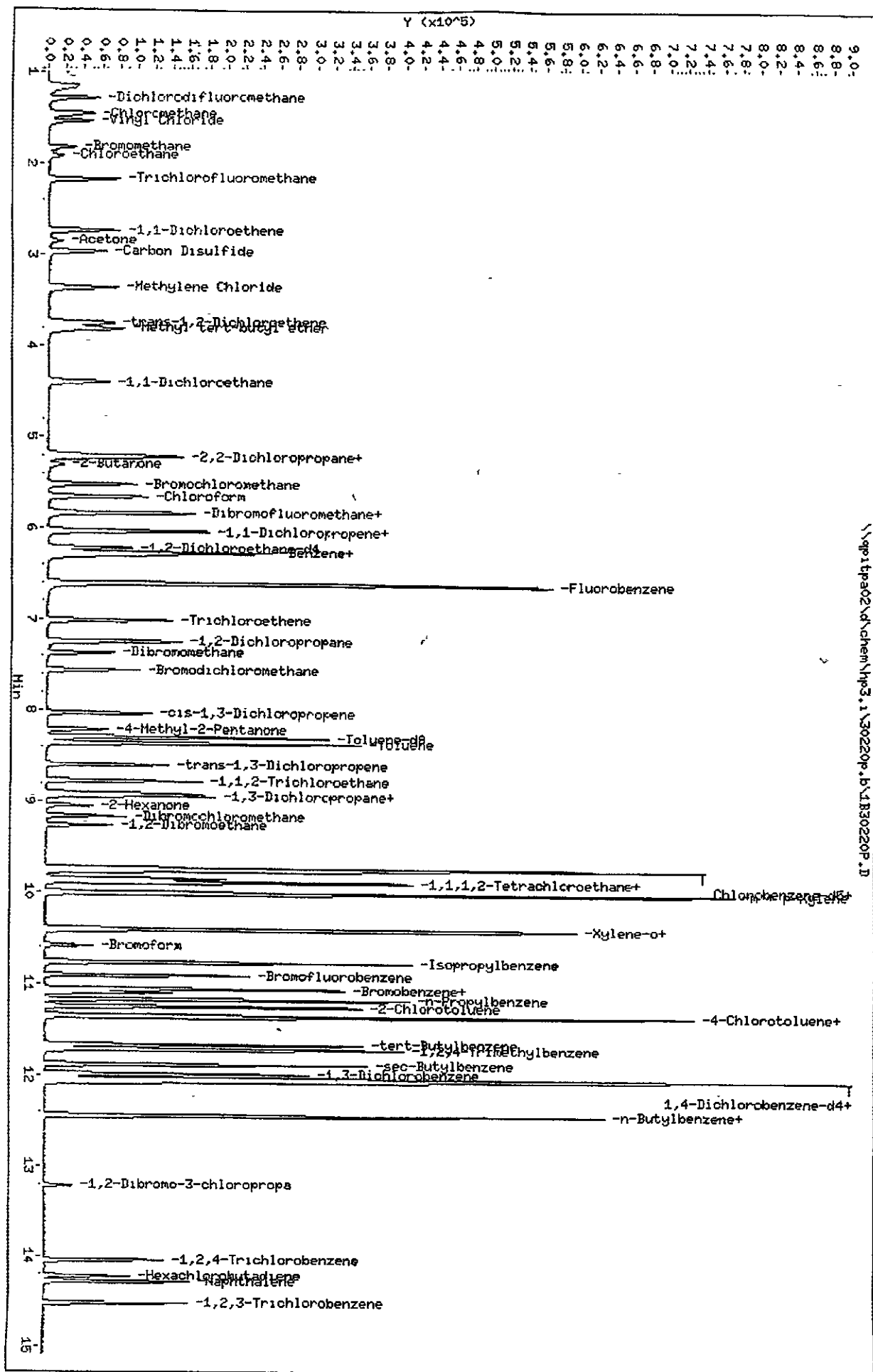
Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84		3.360	3.360	(0.508)	8876	25.0000	25.40
19 trans-1,2-Dichloroethene	96		3.749	3.749	(0.567)	9074	25.0000	26.73
20 Methyl tert-butyl ether	73		3.810	3.810	(0.577)	20511	25.0000	22.25
24 1,1-Dichloroethane	63		4.400	4.400	(0.666)	21230	25.0000	25.26
27 2,2-Dichloropropane	77		5.203	5.203	(0.787)	13570	25.0000	23.28
28 cis-1,2-dichloroethene	96		5.222	5.222	(0.790)	9348	25.0000	20.50
M 29 1,2-Dichloroethene (total)	96					18423	50.0000	46.31
30 Bromochloromethane	128		5.520	5.520	(0.835)	5606	25.0000	23.90
31 2-Butanone	43		5.307	5.307	(0.803)	5036	25.0000	17.74
37 Chloroform	83		5.647	5.647	(0.855)	20493	25.0000	24.97
38 1,1,1-Trichloroethane	97		5.836	5.836	(0.883)	15945	25.0000	23.92
40 1,1-Dichloropropene	75		6.043	6.043	(0.914)	8617	25.0000	17.28
41 Carbon Tetrachloride	117		6.031	6.031	(0.913)	13384	25.0000	23.36
42 Benzene	78		6.274	6.274	(0.949)	40812	25.0000	21.95
45 1,2-Dichloroethane	62		6.304	6.304	(0.954)	18252	25.0000	24.24
47 Trichloroethene	130		7.016	7.016	(1.062)	9156	25.0000	22.23
49 1,2-Dichloropropane	63		7.247	7.247	(1.097)	11114	25.0000	21.79
50 Dibromomethane	93		7.369	7.369	(1.115)	6602	25.0000	23.11
53 Bromodichloromethane	83		7.558	7.558	(1.144)	12703	25.0000	21.79
57 cis-1,3-Dichloropropene	75		8.026	8.026	(1.214)	8724	25.0000	14.30
58 4-Methyl-2-Pentanone	43		8.215	8.215	(0.844)	5960	25.0000	12.36
60 Toluene	91		8.361	8.361	(0.859)	37967	25.0000	19.88
61 trans-1,3-Dichloropropene	75		8.598	8.598	(0.883)	10251	25.0000	17.23
63 1,3-Dichloropropane	76		8.939	8.939	(0.918)	14728	25.0000	19.89
64 1,1,2-Trichloroethane	97		8.774	8.774	(0.901)	10019	25.0000	23.89
65 Tetrachloroethene	164		8.914	8.914	(0.916)	6702	25.0000	23.60
66 2-Hexanone	43		9.054	9.054	(0.930)	4454	25.0000	12.51
67 Dibromochloromethane	129		9.164	9.164	(0.941)	7955	25.0000	19.40
68 1,2-Dibromoethane	107		9.261	9.261	(0.951)	8726	25.0000	20.91
70 Chlorobenzene	112		9.766	9.766	(1.003)	35803	25.0000	26.43
71 1,1,1,2-Tetrachloroethane	131		9.851	9.851	(1.012)	10480	25.0000	23.87
72 Ethylbenzene	106		9.881	9.881	(1.015)	13576	25.0000	20.26
73 m + p-Xylene	106		10.003	10.003	(1.027)	37423	50.0000	45.36
74 Xylene-o	106		10.392	10.392	(1.067)	12338	25.0000	16.84
M 75 Xylenes (total)	106					49761	25.0000	67.93
76 Styrene	104		10.405	10.405	(1.069)	25180	25.0000	18.17
77 Bromoform	173		10.581	10.581	(1.087)	4214	25.0000	20.38
78 Isopropylbenzene	105		10.764	10.764	(1.106)	30158	25.0000	16.00
79 Bromobenzene	156		11.043	11.043	(0.916)	9442	25.0000	19.88
81 n-Propylbenzene	120		11.171	11.171	(0.927)	8532	25.0000	15.06
82 2-Chlorotoluene	126		11.244	11.244	(0.933)	10829	25.0000	19.88
83 1,1,2,2-Tetrachloroethane	83		11.056	11.056	(0.917)	14609	25.0000	24.20
84 1,2,3-Trichloropropane	110		11.092	11.092	(0.920)	4008	25.0000	20.82
85 4-Chlorotoluene	126		11.354	11.354	(0.942)	12323	25.0000	22.23
86 1,3,5-Trimethylbenzene	105		11.348	11.348	(0.941)	33117	25.0000	18.75
87 tert-Butylbenzene	119		11.670	11.670	(0.968)	18151	25.0000	13.83
88 1,2,4-Trimethylbenzene	105		11.719	11.719	(0.972)	32134	25.0000	16.94

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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	11.889	11.889	(0.986)	31860	25.0000	16.41
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	30741	25.0000	17.98
91 1,3-Dichlorobenzene	146	11.986	11.986	(0.994)	22278	25.0000	22.31
93 1,4-Dichlorobenzene	146	12.071	12.071	(1.002)	26617	25.0000	24.81
94 n-Butylbenzene	91	12.443	12.443	(1.032)	22593	25.0000	15.93
95 1,2-Dichlorobenzene	146	12.443	12.443	(1.032)	19590	25.0000	21.56
96 1,2-Dibromo-3-chloropropane	157	13.209	13.209	(1.096)	1076	25.0000	15.31
97 1,2,4-Trichlorobenzene	180	14.049	14.049	(1.166)	5604	25.0000	14.10
98 Hexachlorobutadiene	225	14.225	14.225	(1.180)	2780	25.0000	21.01
99 Naphthalene	128	14.286	14.286	(1.185)	11300	25.0000	9.358
100 1,2,3-Trichlorobenzene	180	14.529	14.529	(1.205)	6035	25.0000	15.13

Data File: \\sp1tpa02\chem\hp3.1\30220p.b\1B30220P.D
 Date: 20-FEB-2004 22:28
 Client ID: vstd20
 Sample Info: VSTD20 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp3.1
 Operator: 034635
 Column diameter: 0.18



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp3.i\30220p.b\1B30220P.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 20-FEB-2001 22:28 MS Autotune Date: 08-AUG-2000 16:28
Operator : 034635 Inst ID: hp3.i
Smp Info : VSTD20 5mL
Misc Info : ,30220p.b,8260bh2o.m,4-dwh20.sub
Comment :
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Meth Date : 21-Feb-2001 06:23 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 19:26 Cal File: 1C30220P.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwh20.sub
Target Version: 4.04
Processing Host: PITPC063

46
2/21/01

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				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.611	6.611	(1.000)	465477	250.000	
* 69 Chlorobenzene-d5	119	9.738	9.738	(1.000)	109772	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.049	12.049	(1.000)	176709	250.000	
\$ 39 Dibromofluoromethane	113	5.844	5.844	(0.884)	45699	100.000	99.71
\$ 43 1,2-Dichloroethane-d4	65	6.221	6.221	(0.941)	61936	100.000	99.10
\$ 59 Toluene-d8	98	8.290	8.290	(0.851)	186312	100.000	107.7
\$ 80 Bromofluorobenzene	95	10.906	10.906	(1.120)	77974	100.000	103.3
1 Dichlorodifluoromethane	85	1.288	1.288	(0.195)	62615	100.000	97.56
2 Chloromethane	50	1.458	1.458	(0.221)	100234	100.000	97.80
3 Vinyl Chloride	62	1.543	1.543	(0.233)	56062	100.000	91.71
4 Bromomethane	94	1.829	1.829	(0.277)	19062	100.000	99.25
5 Chloroethane	64	1.920	1.920	(0.291)	14141	100.000	97.38
6 Trichlorofluoromethane	101	2.176	2.176	(0.329)	69493	100.000	99.19
12 1,1-Dichloroethene	96	2.735	2.735	(0.414)	31238	100.000	96.00
15 Carbon Disulfide	76	2.967	2.967	(0.449)	102389	100.000	96.32
13 Acetone	43	2.851	2.851	(0.431)	23227	100.000	93.26

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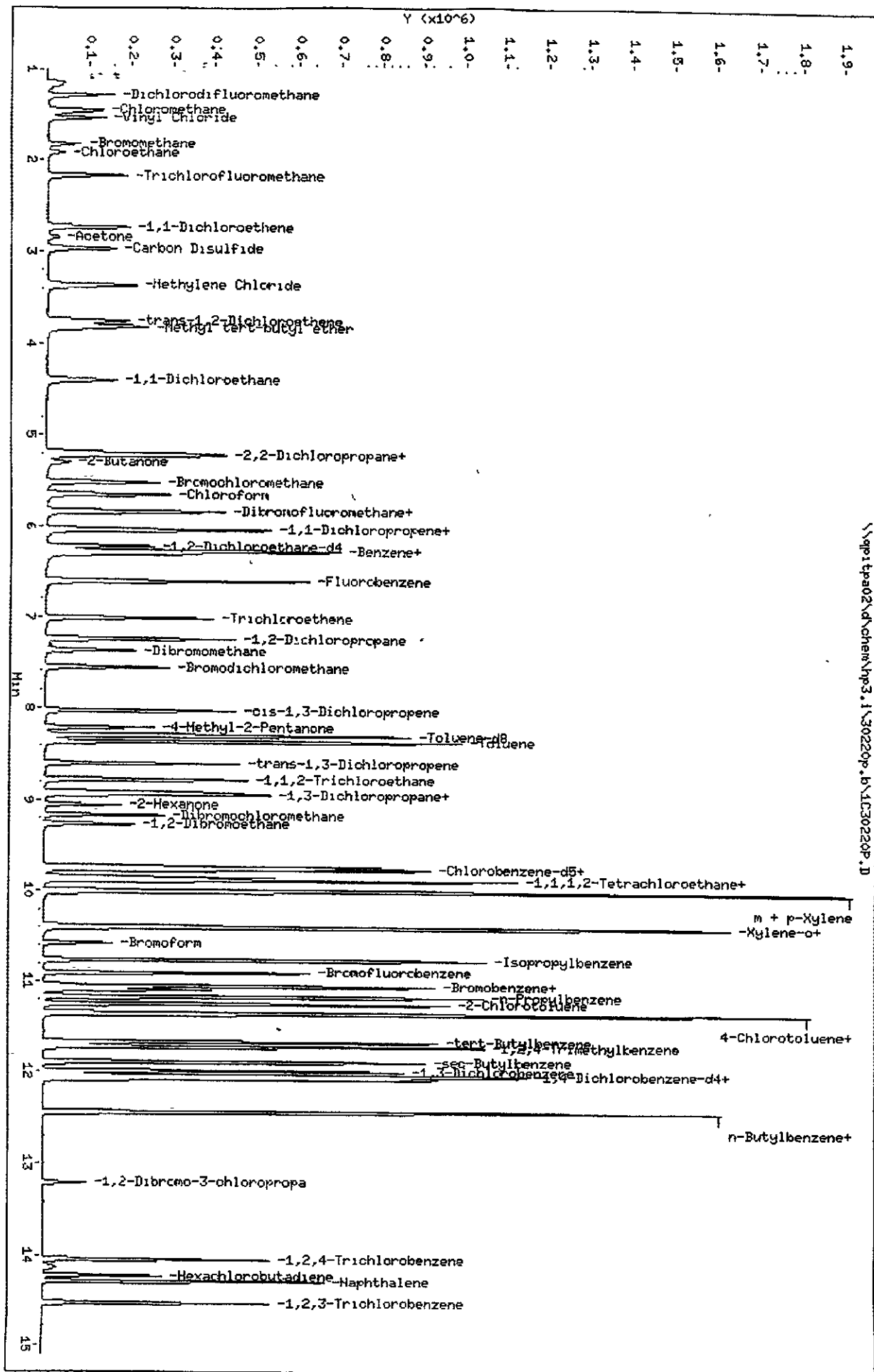
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.368	3.368	(0.510)	37565	100.000	97.24
19 trans-1,2-Dichloroethene	96	3.751	3.751	(0.568)	36495	100.000	97.24
20 Methyl tert-butyl ether	73	3.812	3.812	(0.577)	95596	100.000	93.80
24 1,1-Dichloroethane	63	4.402	4.402	(0.666)	91492	100.000	98.47
27 2,2-Dichloropropane	77	5.199	5.199	(0.787)	61508	100.000	95.46
28 cis-1,2-dichloroethene	96	5.217	5.217	(0.789)	45626	100.000	90.49
M 29 1,2-Dichloroethene (total)	96				82122	200.000	186.7
30 Bromochloromethane	128	5.516	5.516	(0.834)	25189	100.000	97.12
31 2-Butanone	43	5.297	5.297	(0.801)	28423	100.000	90.58
37 Chloroform	83	5.649	5.649	(0.855)	87393	100.000	96.31
38 1,1,1-Trichloroethane	97	5.832	5.832	(0.882)	71282	100.000	96.73
40 1,1-Dichloropropene	75	6.045	6.045	(0.914)	48575	100.000	88.09
41 Carbon Tetrachloride	117	6.033	6.033	(0.913)	61483	100.000	97.06
42 Benzene	78	6.276	6.276	(0.949)	204984	100.000	99.73
45 1,2-Dichloroethane	62	6.306	6.306	(0.954)	81743	100.000	98.22
47 Trichloroethene	130	7.018	7.018	(1.062)	41588	100.000	91.33
49 1,2-Dichloropropane	63	7.249	7.249	(1.097)	52704	100.000	93.45
50 Dibromomethane	93	7.371	7.371	(1.115)	30422	100.000	96.31
53 Bromodichloromethane	83	7.560	7.560	(1.144)	60812	100.000	94.36
57 cis-1,3-Dichloropropene	75	8.028	8.028	(1.214)	55127	100.000	81.76
58 4-Methyl-2-Pentanone	43	8.211	8.211	(0.843)	45240	100.000	83.69
60 Toluene	91	8.363	8.363	(0.859)	225207	100.000	105.1
61 trans-1,3-Dichloropropene	75	8.600	8.600	(0.883)	59537	100.000	89.24
63 1,3-Dichloropropane	76	8.934	8.934	(0.918)	83220	100.000	100.2
64 1,1,2-Trichloroethane	97	8.776	8.776	(0.901)	47576	100.000	101.1
65 Tetrachloroethene	164	8.910	8.910	(0.915)	31902	100.000	100.2
66 2-Hexanone	43	9.050	9.050	(0.929)	33292	100.000	83.38
67 Dibromochloromethane	129	9.160	9.160	(0.941)	43685	100.000	94.99
68 1,2-Dibromoethane	107	9.263	9.263	(0.951)	45734	100.000	97.72
70 Chlorobenzene	112	9.762	9.762	(1.002)	153053	100.000	100.7
71 1,1,1,2-Tetrachloroethane	131	9.847	9.847	(1.011)	47940	100.000	97.38
72 Ethylbenzene	106	9.884	9.884	(1.015)	76498	100.000	101.8
73 m + p-Xylene	106	9.999	9.999	(1.027)	202899	200.000	219.3
74 Xylene-o	106	10.388	10.388	(1.067)	85562	100.000	104.2
M 75 Xylenes (total)	106				288461	100.000	351.2
76 Styrene	104	10.407	10.407	(1.069)	170055	100.000	109.4
77 Bromoform	173	10.577	10.577	(1.086)	20600	100.000	88.84
78 Isopropylbenzene	105	10.760	10.760	(1.105)	213690	100.000	101.1
79 Bromobenzene	156	11.045	11.045	(0.917)	52676	100.000	101.8
81 n-Propylbenzene	120	11.167	11.167	(0.927)	62539	100.000	101.4
82 2-Chlorotoluene	126	11.246	11.246	(0.933)	60238	100.000	101.5
83 1,1,2,2-Tetrachloroethane	83	11.058	11.058	(0.918)	65483	100.000	99.61
84 1,2,3-Trichloropropane	110	11.088	11.088	(0.920)	20673	100.000	98.60
85 4-Chlorotoluene	126	11.356	11.356	(0.942)	63673	100.000	105.5
86 1,3,5-Trimethylbenzene	105	11.350	11.350	(0.942)	198941	100.000	103.4
87 tert-Butylbenzene	119	11.666	11.666	(0.968)	134164	100.000	93.90
88 1,2,4-Trimethylbenzene	105	11.715	11.715	(0.972)	209746	100.000	101.6

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
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89 sec-Butylbenzene	105	11.885	11.885	(0.986)	209218	100.000	98.95
90 4-Isopropyltoluene	119	12.031	12.031	(0.998)	184139	100.000	98.89
91 1,3-Dichlorobenzene	146	11.988	11.988	(0.995)	108094	100.000	99.40
93 1,4-Dichlorobenzene	146	12.074	12.074	(1.002)	114599	100.000	98.07
94 n-Butylbenzene	91	12.439	12.439	(1.032)	155429	100.000	100.6
95 1,2-Dichlorobenzene	146	12.445	12.445	(1.033)	104051	100.000	105.1
96 1,2-Dibromo-3-chloropropane	157	13.217	13.217	(1.097)	6539	100.000	85.40
97 1,2,4-Trichlorobenzene	180	14.051	14.051	(1.166)	33446	100.000	77.29
98 Hexachlorobutadiene	225	14.227	14.227	(1.181)	13423	100.000	93.15
99 Naphthalene	128	14.288	14.288	(1.186)	105399	100.000	80.15
100 1,2,3-Trichlorobenzene	180	14.531	14.531	(1.206)	39755	100.000	91.52

Data File: \\ppltpa02\chem\hp3.1\30220p.b\1C30220P.D
 Date: 20-FEB-2004 19:26
 Client ID: vstd50
 Sample Info: VSTD50 5ML
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp3.1
 Operator: 034635
 Column diameter: 0.18



677 201

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp3.i\30220p.b\1C30220P.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 20-FEB-2001 19:26 MS Autotune Date: 08-AUG-2000 16:28
Operator : 034635 Inst ID: hp3.i
Smp Info : VSTD50 5ML
Misc Info : ,30220p.b,8260bh2o.m,4-dwh20.sub
Comment :
Method : \\QPITPA02\D\chem\hp3.i\30220p.b\8260bh2o.m
Meth Date : 21-Feb-2001 06:22 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 19:26 Cal File: 1C30220P.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000 Compound Sublist: 4-dwh20.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC063

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	6.608	6.608	(1.000)	508243	250.000	
* 69 Chlorobenzene-d5	119	9.735	9.735	(1.000)	123425	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	190884	250.000	
\$ 39 Dibromofluoromethane	113	5.842	5.842	(0.884)	123593	250.000	247.0
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	172656	250.000	253.0
\$ 59 Toluene-d8	98	8.293	8.293	(0.852)	514995	250.000	264.7
\$ 80 Bromofluorobenzene	95	10.903	10.903	(1.120)	220354	250.000	259.7
1 Dichlorodifluoromethane	85	1.285	1.285	(0.195)	155118	250.000	221.4
2 Chloromethane	50	1.455	1.455	(0.220)	263403	250.000	235.4
3 Vinyl Chloride	62	1.541	1.541	(0.233)	144892	250.000	217.1
4 Bromomethane	94	1.826	1.826	(0.276)	49357	250.000	235.4
5 Chloroethane	64	1.930	1.930	(0.292)	46072	250.000	290.6
6 Trichlorofluoromethane	101	2.179	2.179	(0.330)	167746	250.000	219.3
12 1,1-Dichloroethene	96	2.739	2.739	(0.415)	79532	250.000	223.8
15 Carbon Disulfide	76	2.964	2.964	(0.449)	268435	250.000	231.3
13 Acetone	43	2.848	2.848	(0.431)	44458	250.000	163.5

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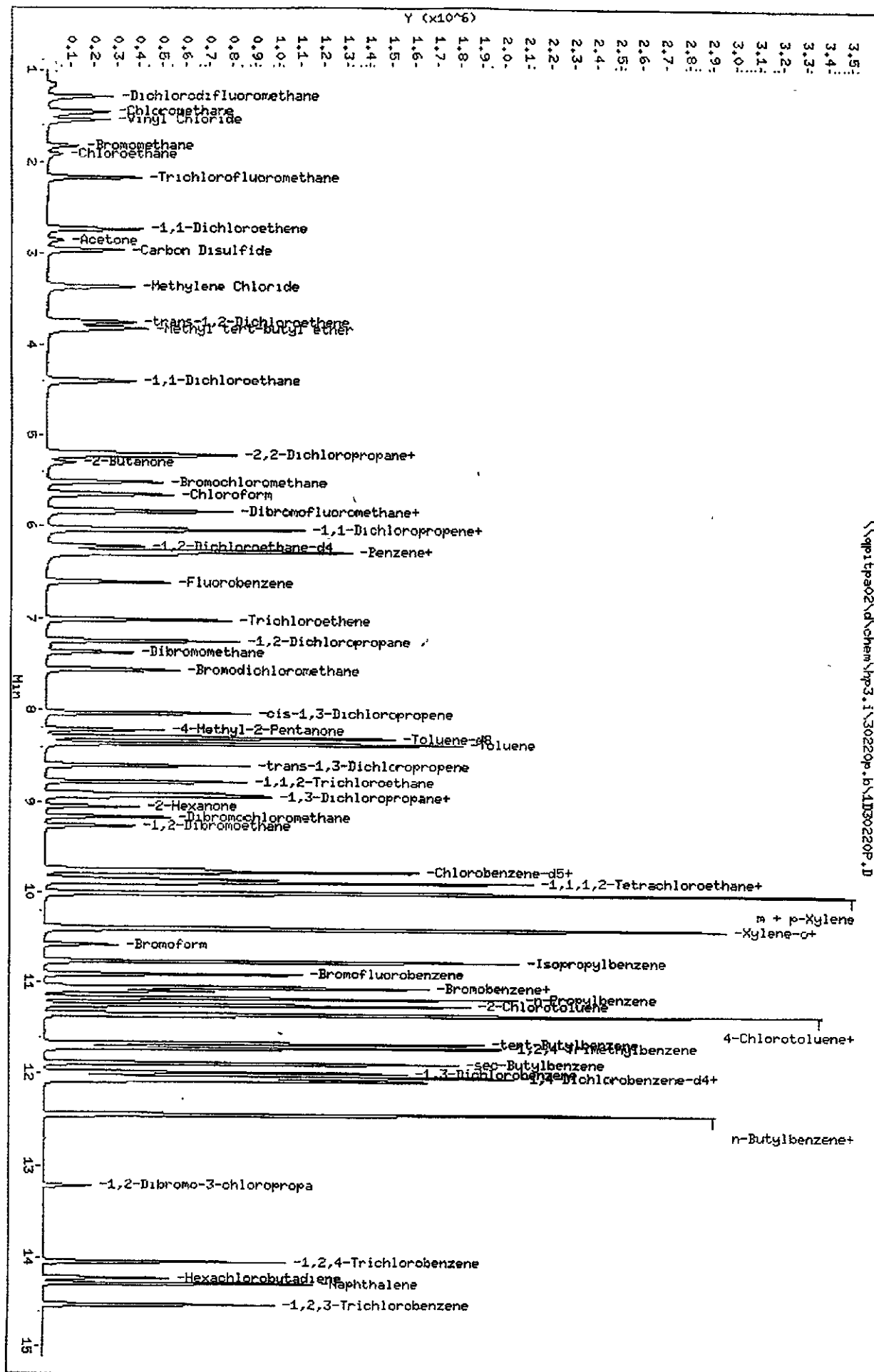
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.359	3.359	(0.508)	103939	250.000	246.4
19 trans-1,2-Dichloroethene	96	3.755	3.755	(0.568)	92477	250.000	225.7
20 Methyl tert-butyl ether	73	3.816	3.816	(0.577)	288290	250.000	259.1
24 1,1-Dichloroethane	63	4.400	4.400	(0.666)	226563	250.000	223.3
27 2,2-Dichloropropane	77	5.203	5.203	(0.787)	162657	250.000	231.2
28 cis-1,2-dichloroethene	96	5.221	5.221	(0.790)	142651	250.000	259.1
M 29 1,2-Dichloroethene (total)	96				235128	500.000	489.7
30 Bromochloromethane	128	5.519	5.519	(0.835)	70192	250.000	247.8
31 2-Butanone	43	5.300	5.300	(0.802)	83523	250.000	243.8
37 Chloroform	83	5.653	5.653	(0.855)	242905	250.000	245.2
38 1,1,1-Trichloroethane	97	5.835	5.835	(0.883)	186428	250.000	231.7
40 1,1-Dichloropropene	75	6.042	6.042	(0.914)	149493	250.000	248.3
41 Carbon Tetrachloride	117	6.030	6.030	(0.913)	157870	250.000	228.3
42 Benzene	78	6.272	6.273	(0.949)	569540	250.000	253.8
45 1,2-Dichloroethane	62	6.304	6.304	(0.954)	229918	250.000	253.0
47 Trichloroethene	130	7.016	7.016	(1.062)	122750	250.000	246.9
49 1,2-Dichloropropane	63	7.247	7.247	(1.097)	158559	250.000	257.5
50 Dibromomethane	93	7.375	7.375	(1.116)	88661	250.000	257.1
53 Bromodichloromethane	83	7.557	7.557	(1.144)	178849	250.000	254.2
57 cis-1,3-Dichloropropene	75	8.026	8.026	(1.214)	205034	250.000	278.5
58 4-Methyl-2-Pentanone	43	8.208	8.208	(0.843)	167472	250.000	275.5
60 Toluene	91	8.360	8.360	(0.859)	623919	250.000	259.1
61 trans-1,3-Dichloropropene	75	8.597	8.597	(0.883)	200518	250.000	267.3
63 1,3-Dichloropropane	76	8.938	8.938	(0.918)	248543	250.000	266.2
64 1,1,2-Trichloroethane	97	8.774	8.774	(0.901)	133825	250.000	253.0
65 Tetrachloroethene	164	8.914	8.914	(0.916)	86525	250.000	241.6
66 2-Hexanone	43	9.048	9.048	(0.929)	117828	250.000	262.5
67 Dibromochloromethane	129	9.163	9.163	(0.941)	134070	250.000	259.3
68 1,2-Dibromoethane	107	9.260	9.260	(0.951)	136751	250.000	259.9
70 Chlorobenzene	112	9.759	9.759	(1.002)	418033	250.000	244.7
71 1,1,1,2-Tetrachloroethane	131	9.851	9.851	(1.012)	137171	250.000	247.8
72 Ethylbenzene	106	9.881	9.881	(1.015)	217471	250.000	257.4
73 m + p-Xylene	106	10.003	10.003	(1.027)	534864	500.000	514.2
74 Xylene-o	106	10.392	10.392	(1.067)	252734	250.000	273.6
M 75 Xylenes (total)	106				787599	250.000	852.7
76 Styrene	104	10.404	10.404	(1.069)	471633	250.000	270.0
77 Bromoform	173	10.574	10.574	(1.086)	66986	250.000	256.9
78 Isopropylbenzene	105	10.757	10.757	(1.105)	625808	250.000	263.4
79 Bromobenzene	156	11.049	11.049	(0.917)	146078	250.000	261.4
81 n-Propylbenzene	120	11.171	11.171	(0.927)	174294	250.000	261.6
82 2-Chlorotoluene	126	11.244	11.244	(0.933)	162654	250.000	253.8
83 1,1,2,2-Tetrachloroethane	83	11.055	11.055	(0.917)	179318	250.000	252.5
84 1,2,3-Trichloropropane	110	11.092	11.092	(0.920)	58770	250.000	259.5
85 4-Chlorotoluene	126	11.353	11.353	(0.942)	167890	250.000	257.5
86 1,3,5-Trimethylbenzene	105	11.347	11.347	(0.941)	536133	250.000	258.0
87 tert-Butylbenzene	119	11.663	11.663	(0.968)	408666	250.000	264.8
88 1,2,4-Trimethylbenzene	105	11.718	11.718	(0.972)	580745	250.000	260.3

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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	11.882	11.882	(0.986)	574410	250 000	251.5		
90 4-Isopropyltoluene	119	12 035	12 035	(0.998)	505285	250 000	251.2		
91 1,3-Dichlorobenzene	146	11 986	11 986	(0.994)	294881	250 000	251 0		
93 1,4-Dichlorobenzene	146	12.077	12 077	(1.002)	309837	250 000	245 5		
94 n-Butylbenzene	91	12 442	12.442	(1 032)	431037	250.000	258.4		
95 1,2-Dichlorobenzene	146	12.442	12.442	(1 032)	278908	250 000	260 9		
96 1,2-Dibromo-3-chloropropane	157	13.215	13.215	(1 096)	20258	250 000	244 9		
97 1,2,4-Trichlorobenzene	180	14.048	14.048	(1 166)	129023	250 000	276.0		
98 Hexachlorobutadiene	225	14 225	14 225	(1 180)	37513	250.000	241 0		
99 Naphthalene	128	14.285	14 285	(1.185)	436038	250 000	307.0		
100 1,2,3-Trichlorobenzene	180	14.529	14 529	(1.205)	129193	250 000	275.3		

Data File: \\npitpa02\chem\hp3.1\30220p.b\1D30220P.D
 Date: 20-FEB-2001 22:57
 Client ID: vstd100
 Sample Info: VSTD100 5mL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp3.1
 Operator: 034635
 Column diameter: 0.18



677 205

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp3.i\30220p.b\1D30220P.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 20-FEB-2001 22:57 MS Autotune Date: 08-AUG-2000 16:28
Operator : 034635 Inst ID: hp3.i
Smp Info : VSTD100 5mL
Misc Info : ,30220p.b,8260bh2o.m,4-dwh20.sub
Comment :
Method : \\QPITPA02\D\chem\hp3.i\30220p.b\8260bh2o.m
Meth Date : 21-Feb-2001 06:23 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 19:26 Cal File: 1C30220P.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwh20.sub
Target Version: 4.04
Processing Host: PITPC063

KG
2/21/01

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			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	442621	250.000	
* 69 Chlorobenzene-d5	119	9.736	9.736	(1.000)	108696	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.054	12.054	(1.000)	164010	250.000	
\$ 39 Dibromofluoromethane	113	5.842	5.842	(0.884)	212672	500.000	488.0
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	289247	500.000	486.7
\$ 59 Toluene-d8	98	8.294	8.294	(0.852)	900422	500.000	525.5
\$ 80 Bromofluorobenzene	95	10.904	10.904	(1.120)	384905	500.000	515.1
1 Dichlorodifluoromethane	85	1.286	1.286	(0.195)	318937	500.000	522.6
2 Chloromethane	50	1.456	1.456	(0.220)	510740	500.000	524.1
3 Vinyl Chloride	62	1.541	1.541	(0.233)	317616	500.000	546.4
4 Bromomethane	94	1.827	1.827	(0.277)	92256	500.000	505.2
5 Chloroethane	64	1.918	1.918	(0.290)	61920	500.000	448.4
6 Trichlorofluoromethane	101	2.168	2.168	(0.328)	353406	500.000	530.5
12 1,1-Dichloroethene	96	2.734	2.734	(0.414)	168001	500.000	543.0
15 Carbon Disulfide	76	2.965	2.965	(0.449)	552289	500.000	546.4
13 Acetone	43	2.855	2.855	(0.432)	104477	500.000	441.1

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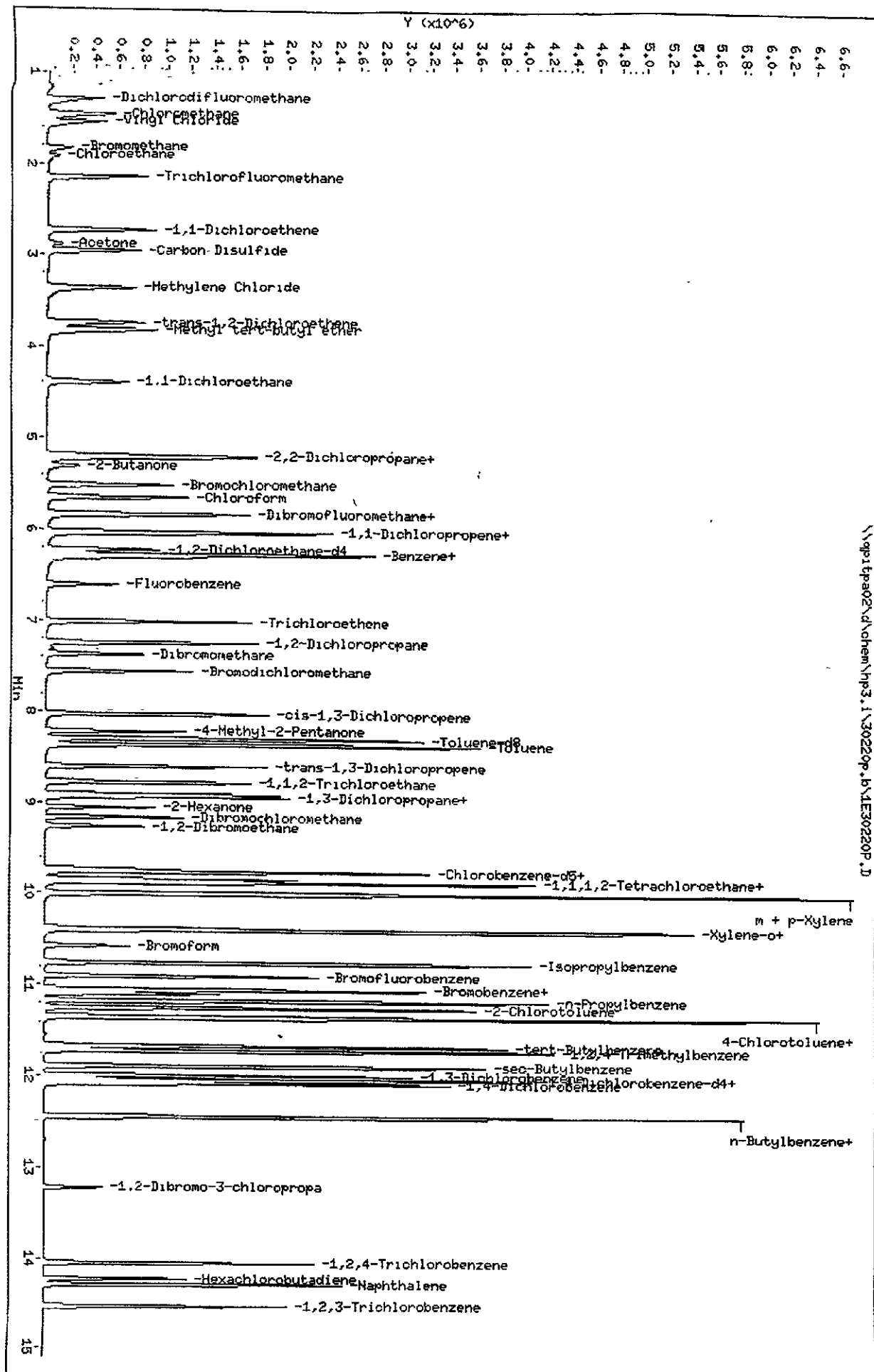
Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84		3.360	3 360	(0.508)	185785	500 000	505.8
19 trans-1,2-Dichloroethene	96		3.750	3 750	(0.567)	186381	500 000	522.2
20 Methyl tert-butyl ether	73		3.817	3 817	(0.578)	516588	500 000	533.1
24 1,1-Dichloroethane	63		4.401	4 401	(0.666)	516526	500 000	584.6
27 2,2-Dichloropropane	77		5.197	5 197	(0.786)	334840	500 000	546.5
28 cis-1,2-dichloroethene	96		5.222	5 222	(0.790)	274184	500 000	571.9
M 29 1,2-Dichloroethene (total)	96					460566	1000.00	1101
30 Bromochloromethane	128		5.514	5 514	(0.834)	131044	500 000	531.3
31 2-Butanone	43		5.301	5 301	(0.802)	178114	500.000	596.9
37 Chloroform	83		5.648	5 648	(0.855)	452367	500.000	524.3
38 1,1,1-Trichloroethane	97		5.830	5 830	(0.882)	380138	500 000	542.5
40 1,1-Dichloropropene	75		6.037	6 037	(0.913)	323560	500 000	617.1
41 Carbon Tetrachloride	117		6.031	6 031	(0.913)	331076	500 000	549.7
42 Benzene	78		6.274	6 274	(0.949)	1068755	500 000	546.8
45 1,2-Dichloroethane	62		6.305	6 305	(0.954)	412110	500.000	520.8
47 Trichloroethene	130		7.016	7 016	(1.062)	240802	500.000	556.1
49 1,2-Dichloropropane	63		7.248	7 248	(1.097)	297049	500.000	553.9
50 Dibromomethane	93		7.369	7 369	(1.115)	160312	500.000	533.7
53 Bromodichloromethane	83		7.558	7 558	(1.144)	335930	500 000	548.2
57 cis-1,3-Dichloropropene	75		8.026	8 026	(1.214)	401166	500 000	625.7
58 4-Methyl-2-Pentanone	43		8.209	8 209	(0.843)	333672	500 000	623.4
60 Toluene	91		8.361	8 361	(0.859)	1160132	500 000	547.0
61 trans-1,3-Dichloropropene	75		8.598	8 598	(0.883)	384768	500 000	582.4
63 1,3-Dichloropropane	76		8.939	8 939	(0.918)	450848	500 000	548.3
64 1,1,2-Trichloroethane	97		8.775	8 775	(0.901)	241045	500 000	517.5
65 Tetrachloroethene	164		8.914	8 914	(0.916)	165707	500 000	525.5
66 2-Hexanone	43		9.048	9 048	(0.929)	252717	500.000	639.2
67 Dibromochloromethane	129		9.164	9 164	(0.941)	251851	500.000	553.1
68 1,2-Dibromoethane	107		9.261	9 261	(0.951)	250733	500.000	541.0
70 Chlorobenzene	112		9.760	9 760	(1.002)	765613	500.000	508.9
71 1,1,1,2-Tetrachloroethane	131		9.851	9 851	(1.012)	258880	500.000	531.0
72 Ethylbenzene	106		9.882	9 882	(1.015)	415386	500.000	558.2
73 m + p-Xylene	106		10.003	10 003	(1.027)	961049	1000.00	1051
74 Xylene-o	106		10.393	10 393	(1.067)	468644	500.000	576.2
M 75 Xylenes (total)	106					1431693	500 000	1760
76 Styrene	104		10.405	10 405	(1.069)	857060	500 000	557.1
77 Bromoform	173		10.575	10 575	(1.086)	128740	500.000	560.7
78 Isopropylbenzene	105		10.758	10 758	(1.105)	1235501	500.000	590.4
79 Bromobenzene	156		11.050	11 050	(0.917)	265103	500.000	552.2
81 n-Propylbenzene	120		11.171	11 171	(0.927)	342435	500 000	598.2
82 2-Chlorotoluene	126		11.244	11 244	(0.933)	305070	500 000	554.0
83 1,1,2,2-Tetrachloroethane	83		11.056	11 056	(0.917)	315076	500 000	516.4
84 1,2,3-Trichloropropane	110		11.092	11 092	(0.920)	104505	500 000	537.0
85 4-Chlorotoluene	126		11.354	11 354	(0.942)	299243	500.000	534.2
86 1,3,5-Trimethylbenzene	105		11.348	11 348	(0.941)	1012216	500 000	567.0
87 tert-Butylbenzene	119		11.664	11 664	(0.968)	813465	500.000	613.4
88 1,2,4-Trimethylbenzene	105		11.713	11 713	(0.972)	1107720	500.000	577.8

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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	11.883	11.883	(0.986)	1162630	500.000	592.4
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	997265	500.000	577.0
91 1,3-Dichlorobenzene	146	11.987	11.987	(0.994)	542730	500.000	537.7
93 1,4-Dichlorobenzene	146	12.078	12.078	(1.002)	567508	500.000	523.3
94 n-Butylbenzene	91	12.437	12.437	(1.032)	846036	500.000	590.3
95 1,2-Dichlorobenzene	146	12.443	12.443	(1.032)	490942	500.000	534.4
96 1,2-Dibromo-3-chloropropane	157	13.215	13.215	(1.096)	41906	500.000	589.7
97 1,2,4-Trichlorobenzene	180	14.049	14.049	(1.166)	251972	500.000	627.4
98 Hexachlorobutadiene	225	14.225	14.225	(1.180)	73212	500.000	547.4
99 Naphthalene	128	14.286	14.286	(1.185)	787417	500.000	645.2
100 1,2,3-Trichlorobenzene	180	14.529	14.529	(1.205)	239579	500.000	594.2

Data File: \\pplp02\chem\hp3.1\30220p.b\IE30220p.D
 Date: 20-FEB-2001 23:26
 Client ID: vstd200
 Sample Info: VSTD200 Sml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp3.1
 Operator: Q34635
 Column diameter: 0.18



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STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp3.i\30220p.b\1E30220P.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 20-FEB-2001 23:26 MS Autotune Date: 08-AUG-2000 16:28
Operator : 034635 Inst ID: hp3.i
Smp Info : VSTD200 5mL
Misc Info : ,30220p.b,8260bh2o.m,4-dwh20.sub
Comment :
Method : \\QPITPA02\D\chem\hp3.i\30220p.b\8260bh2o.m
Meth Date : 21-Feb-2001 06:24 gordonk Quant Type: ISTD
Cal Date : 20-FEB-2001 23:26 Cal File: 1E30220P.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwh20.sub
Target Version: 4.04
Processing Host: PITPC063

Keig
2/21/01

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	6.608	6.608	(1.000)	490603	250.000	
* 69 Chlorobenzene-d5	119	9.735	9.735	(1.000)	116846	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	171488	250.000	
\$ 39 Dibromofluoromethane	113	5.842	5.842	(0.884)	458422	1000.00	949.0
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	634020	1000.00	962.5
\$ 59 Toluene-d8	98	8.293	8.293	(0.852)	1892547	1000.00	1028
\$ 80 Bromofluorobenzene	95	10.909	10.909	(1.121)	816190	1000.00	1016
1 Dichlorodifluoromethane	85	1.285	1.285	(0.195)	680519	1000.00	1006
2 Chloromethane	50	1.455	1.455	(0.220)	1089424	1000.00	1008
3 Vinyl Chloride	62	1.541	1.541	(0.233)	774231	1000.00	1202
4 Bromomethane	94	1.833	1.833	(0.277)	185241	1000.00	915.1
5 Chloroethane	64	1.918	1.918	(0.290)	116541	1000.00	761.4
6 Trichlorofluoromethane	101	2.155	2.155	(0.326)	737074	1000.00	998.2
12 1,1-Dichloroethene	96	2.727	2.727	(0.413)	355344	1000.00	1036
15 Carbon Disulfide	76	2.952	2.952	(0.447)	1230993	1000.00	1099
13 Acetone	43	2.873	2.873	(0.435)	222374	1000.00	847.1

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.360	3.360	(0.508)	413032	1000.00	1014
19 trans-1,2-Dichloroethene	96	3.749	3.749	(0.567)	400097	1000.00	1011
20 Methyl tert-butyl ether	73	3.828	3.828	(0.579)	1148691	1000.00	1069
24 1,1-Dichloroethane	63	4.394	4.394	(0.665)	922643	1000.00	942.2
27 2,2-Dichloropropane	77	5.197	5.197	(0.786)	744501	1000.00	1096
28 cis-1,2-dichloroethene	96	5.221	5.221	(0.790)	581855	1000.00	1095
M 29 1,2-Dichloroethene (total)	96				981953	2000.00	2118
30 Bromochloromethane	128	5.519	5.519	(0.835)	278543	1000.00	1019
31 2-Butanone	43	5.306	5.306	(0.803)	402032	1000.00	1216
37 Chloroform	83	5.653	5.653	(0.855)	964881	1000.00	1009
38 1,1,1-Trichloroethane	97	5.829	5.829	(0.882)	826551	1000.00	1064
40 1,1-Dichloropropene	75	6.036	6.036	(0.913)	697834	1000.00	1201
41 Carbon Tetrachloride	117	6.030	6.030	(0.913)	722754	1000.00	1082
42 Benzene	78	6.274	6.274	(0.949)	2200631	1000.00	1016
45 1,2-Dichloroethane	62	6.310	6.310	(0.955)	872259	1000.00	994.4
47 Trichloroethene	130	7.016	7.016	(1.062)	526854	1000.00	1098
49 1,2-Dichloropropane	63	7.247	7.247	(1.097)	627945	1000.00	1056
50 Dibromomethane	93	7.375	7.375	(1.116)	338601	1000.00	1017
53 Bromodichloromethane	83	7.557	7.557	(1.144)	727926	1000.00	1072
57 cis-1,3-Dichloropropene	75	8.026	8.026	(1.214)	884446	1000.00	1245
58 4-Methyl-2-Pentanone	43	8.214	8.214	(0.844)	759397	1000.00	1320
60 Toluene	91	8.360	8.360	(0.859)	2332201	1000.00	1023
61 trans-1,3-Dichloropropene	75	8.597	8.597	(0.883)	840926	1000.00	1184
63 1,3-Dichloropropane	76	8.938	8.938	(0.918)	920259	1000.00	1041
64 1,1,2-Trichloroethane	97	8.780	8.780	(0.902)	493666	1000.00	986.0
65 Tetrachloroethene	164	8.914	8.914	(0.916)	351442	1000.00	1037
66 2-Hexanone	43	9.054	9.054	(0.930)	568375	1000.00	1337
67 Dibromochloromethane	129	9.163	9.163	(0.941)	553578	1000.00	1131
68 1,2-Dibromoethane	107	9.267	9.267	(0.952)	530588	1000.00	1065
70 Chlorobenzene	112	9.765	9.765	(1.003)	1517773	1000.00	938.6
71 1,1,1,2-Tetrachloroethane	131	9.851	9.851	(1.012)	533462	1000.00	1018
72 Ethylbenzene	106	9.881	9.881	(1.015)	820740	1000.00	1026
73 m + p-Xylene	106	10.003	10.003	(1.027)	1805143	2000.00	1833
74 Xylene-o	106	10.392	10.392	(1.067)	907362	1000.00	1038
M 75 Xylenes (total)	106				2712506	1000.00	3102
76 Styrene	104	10.410	10.410	(1.069)	1628094	1000.00	984.4
77 Bromoform	173	10.581	10.581	(1.087)	283161	1000.00	1147
78 Isopropylbenzene	105	10.763	10.763	(1.106)	2507083	1000.00	1114
79 Bromobenzene	156	11.049	11.049	(0.917)	520029	1000.00	1036
81 n-Propylbenzene	120	11.171	11.171	(0.927)	682686	1000.00	1140
82 2-Chlorotoluene	126	11.250	11.250	(0.933)	613934	1000.00	1066
83 1,1,2,2-Tetrachloroethane	83	11.061	11.061	(0.918)	633580	1000.00	993.1
84 1,2,3-Trichloropropane	110	11.098	11.098	(0.921)	217655	1000.00	1070
85 4-Chlorotoluene	126	11.359	11.359	(0.942)	560644	1000.00	957.2
86 1,3,5-Trimethylbenzene	105	11.347	11.347	(0.941)	1958555	1000.00	1049
87 tert-Butylbenzene	119	11.670	11.670	(0.968)	1694167	1000.00	1222
88 1,2,4-Trimethylbenzene	105	11.718	11.718	(0.972)	2224642	1000.00	1110

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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	11.889	11.889	(0.986)	2386711	1000.00	1163
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	2047560	1000.00	1133
91 1,3-Dichlorobenzene	146	11.986	11.986	(0.994)	1091146	1000.00	1034
93 1,4-Dichlorobenzene	146	12.077	12.077	(1.002)	1132410	1000.00	998.6
94 n-Butylbenzene	91	12.442	12.442	(1.032)	1711646	1000.00	1142
95 1,2-Dichlorobenzene	146	12.442	12.442	(1.032)	935478	1000.00	974.0
96 1,2-Dibromo-3-chloropropane	157	13.215	13.215	(1.096)	102171	1000.00	1375
97 1,2,4-Trichlorobenzene	180	14.048	14.048	(1.166)	547729	1000.00	1304
98 Hexachlorobutadiene	225	14.231	14.231	(1.181)	163537	1000.00	1169
99 Naphthalene	128	14.285	14.285	(1.185)	1666648	1000.00	1306
100 1,2,3-Trichlorobenzene	180	14.529	14.529	(1.205)	501599	1000.00	1190

677 212

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date: 02/26/01 Time: 0545

Lab File ID: CC40226

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

Heated Purge: (Y/N) N

Init. Calib. Times: 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.258	0.230	0.01	10.8	50.0
Chloromethane	0.326	0.305	0.1	6.4	50.0
Vinyl Chloride	0.308	0.284	0.01	7.8	20.0
Bromomethane	0.036	0.039	0.01	8.3	50.0
Chloroethane	0.051	0.048	0.01	5.9	50.0
Trichlorofluoromethane	0.150	0.111	0.01	26.0	50.0
1,1-Dichloroethene	0.178	0.148	0.01	16.8	20.0
Methylene Chloride	0.209	0.182	0.01	12.9	50.0
trans-1,2-Dichloroethene	0.238	0.242	0.01	1.7	50.0
1,1-Dichloroethane	0.392	0.384	0.1	2.0	50.0
cis-1,2-dichloroethene	0.242	0.248	0.01	2.5	50.0
Chloroform	0.323	0.325	0.01	0.6	20.0
Bromochloromethane	0.100	0.105	0.01	5.0	50.0
1,1,1-Trichloroethane	0.257	0.269	0.01	4.7	50.0
Carbon Tetrachloride	0.185	0.207	0.01	11.9	50.0
1,2-Dichloroethane	0.236	0.230	0.01	2.5	50.0
Benzene	0.941	0.965	0.01	2.6	50.0
Trichloroethene	0.211	0.222	0.01	5.2	50.0
1,2-Dichloropropane	0.237	0.238	0.01	0.4	20.0
Bromodichloromethane	0.219	0.236	0.01	7.8	50.0
cis-1,3-Dichloropropene	0.317	0.349	0.01	10.1	50.0
Toluene	4.894	4.904	0.01	0.2	20.0
trans-1,3-Dichloropropene	1.293	1.348	0.01	4.2	50.0
1,1,2-Trichloroethane	0.939	0.937	0.01	0.2	50.0
Tetrachloroethene	0.780	0.800	0.01	2.6	50.0
Dibromochloromethane	0.711	0.800	0.01	12.5	50.0
Chlorobenzene	2.867	2.961	0.3	3.3	50.0
Ethylbenzene	1.622	1.684	0.01	3.8	20.0
Styrene	3.197	3.333	0.01	4.2	50.0
Bromoform	0.363	0.408	0.1	12.4	50.0
1,1,2,2-Tetrachloroethane	0.685	0.716	0.3	4.5	50.0
1,3-Dichlorobenzene	1.373	1.380	0.01	0.5	50.0
1,4-Dichlorobenzene	1.426	1.439	0.01	0.9	50.0
1,2-Dichlorobenzene	1.242	1.253	0.01	0.9	50.0
Dibromomethane	0.114	0.117	0.01	2.6	50.0
1,2-Dibromoethane	0.848	0.882	0.01	4.0	50.0
1,1,1,2-Tetrachloroethane	0.781	0.841	0.01	7.7	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

677 213

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date: 02/26/01 Time: 0545

Lab File ID: CC40226

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

Heated Purge: (Y/N) N

Init. Calib. Times: 1346 1715

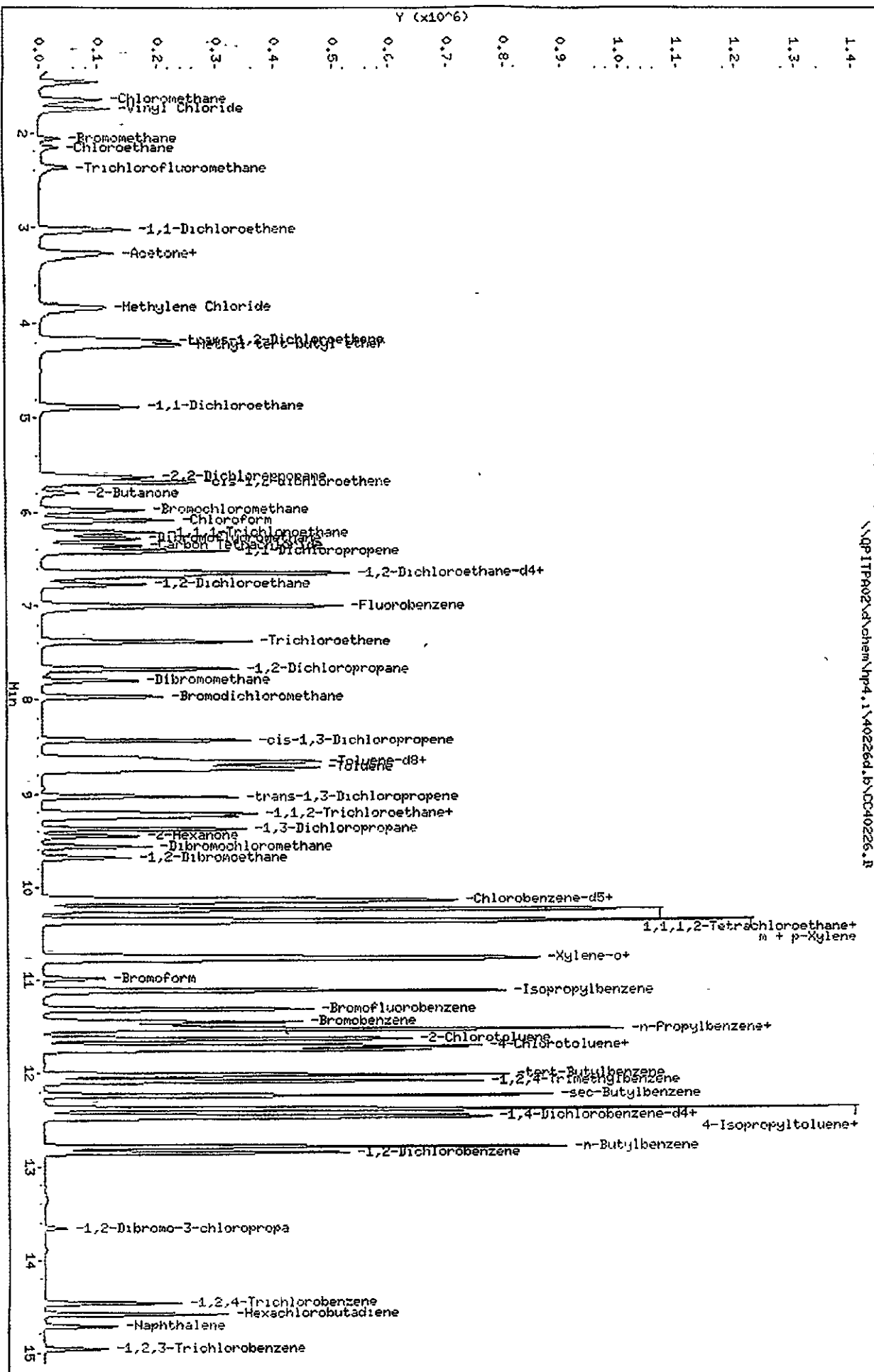
GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,2,3-Trichloropropane	0.207	0.208	0.01	0.5	50.0
1,2-Dibromo-3-chloropropane	0.054	0.061	0.01	13.0	50.0
2,2-Dichloropropane	0.248	0.259	0.01	4.4	50.0
1,1-Dichloropropene	0.205	0.288	0.01	40.5	50.0
1,3-Dichloropropane	1.635	1.640	0.01	0.3	50.0
n-Propylbenzene	0.907	0.955	0.01	5.3	50.0
Bromobenzene	0.683	0.698	0.01	2.2	50.0
1,3,5-Trimethylbenzene	2.526	2.651	0.01	4.9	50.0
2-Chlorotoluene	0.733	0.766	0.01	4.5	50.0
4-Chlorotoluene	0.751	0.793	0.01	5.6	50.0
tert-Butylbenzene	2.186	2.256	0.01	3.2	50.0
1,2,4-Trimethylbenzene	2.459	2.670	0.01	8.6	50.0
sec-Butylbenzene	3.407	3.574	0.01	4.9	50.0
4-Isopropyltoluene	2.654	2.860	0.01	7.8	50.0
n-Butylbenzene	2.533	2.879	0.01	13.6	50.0
1,2,4-Trichlorobenzene	0.401	0.408	0.01	1.7	50.0
Hexachlorobutadiene	0.297	0.308	0.01	3.7	50.0
Naphthalene	0.693	0.554	0.01	20.0	50.0
1,2,3-Trichlorobenzene	0.265	0.197	0.01	25.7	50.0
Acetone	0.122	0.125	0.01	2.4	50.0
Carbon Disulfide	0.573	0.485	0.01	15.4	50.0
2-Butanone	0.141	0.164	0.01	16.3	50.0
4-Methyl-2-Pentanone	1.080	1.056	0.01	2.2	50.0
2-Hexanone	0.799	0.907	0.01	13.5	50.0
Methyl tert-butyl ether	0.576	0.559	0.01	3.0	50.0
Isopropylbenzene	4.737	4.863	0.01	2.6	50.0
1,2-Dichloroethene (total)	0.240	0.245	0.01	2.1	50.0
Xylenes (total)	1.893	1.945	0.01	2.7	50.0
=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.188	0.191	0.01	1.6	50.0
1,2-Dichloroethane-d4	0.221	0.202	0.01	8.6	50.0
Toluene-d8	4.702	4.574	0.01	2.7	50.0
Bromofluorobenzene	1.624	1.587	0.01	2.3	50.0

Data File: \\QPI\FR02\chem\hp4.1\40226d.b\CC40226.D
 Date: 26-FEB-2001 05:45
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16328
 Column diameter: 0.18

\\QPI\FR02\chem\hp4.1\40226d.b\CC40226.D



677 215

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40226d.b\CC40226.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 26-FEB-2001 05:45
Operator : 16328 Inst ID: hp4.1
Smp Info : vstd50 5ml
Misc Info : vstd50 ,40226d.b,,
Comment :
Method : \\QPITPA02\d\chem\hp4.i\40226d.b\8260bh2o.m
Meth Date : 26-Feb-2001 06:21 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

K₂ 2/25/01

Concentration Formula: Amt * DF

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	QN-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
* 46 Fluorobenzene	96	7.003	7.003	(1.000)	659481	250.000	
* 69 Chlorobenzene-d5	119	10.124	10.124	(1.000)	140702	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.454	12.454	(1.000)	206138	250.000	
\$ 39 Dibromofluoromethane	113	6.285	6.285	(0.898)	125700	250.000	253.3
\$ 43 1,2-Dichloroethane-d4	65	6.687	6.687	(0.955)	133604	250.000	229.4
\$ 59 Toluene-d8	98	8.652	8.652	(0.855)	643644	250.000	243.2
\$ 80 Bromofluorobenzene	95	11.304	11.304	(1.117)	223296	250.000	244.3
1 Dichlorodifluoromethane	85	1.449	1.449	(0.207)	151560	250.000	222.7
2 Chloromethane	50	1.644	1.644	(0.235)	201345	250.000	233.7
3 Vinyl Chloride	62	1.741	1.741	(0.249)	186996	250.000	230.1
4 Bromomethane	94	2.057	2.057	(0.294)	25476	250.000	272.2
5 Chloroethane	64	2.155	2.155	(0.308)	31962	250.000	235.6
6 Trichlorofluoromethane	101	2.380	2.380	(0.340)	73300	250.000	184.7 (M)
12 1,1-Dichloroethene	96	3.031	3.031	(0.433)	97644	250.000	207.7
13 Acetone	43	3.311	3.311	(0.473)	82516	250.000	257.3
15 Carbon Disulfide	76	3.268	3.268	(0.467)	319626	250.000	211.5
18 Methylene Chloride	84	3.840	3.840	(0.548)	119810	250.000	217.5
19 trans-1,2-Dichloroethene	96	4.181	4.181	(0.597)	159960	250.000	255.0
20 Methyl tert butyl ether	73	4.235	4.235	(0.605)	368755	250.000	242.8
24 1,1-Dichloroethane	63	4.880	4.880	(0.697)	252989	250.000	244.4
27 2,2-Dichloropropane	77	5.628	5.628	(0.804)	171113	250.000	261.8
28 cis-1,2-dichloroethene	96	5.683	5.683	(0.812)	163753	250.000	257.0

K₂ 2/25/01

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
M 29 1,2-Dichloroethene (total)	96				323713	500 000	512 0
30 Bromochloromethane	128	5.981	5 981	(0 854)	69261	250 000	261 0
31 2-Butanone	43	5 793	5 793	(0 827)	107982	250 000	289 8
37 Chloroform	83	6 091	6 091	(0 870)	214612	250 000	251 5
38 1,1,1-Trichloroethane	97	6 219	6 219	(0.888)	177556	250 000	261.4
40 1,1 Dichloropropene	75	6.419	6.419	(0.917)	189857	250 000	350 4
41 Carbon Tetrachloride	117	6.358	6 358	(0 908)	136392	250 000	278 8
42 Benzene	78	6 644	6.644	(0 949)	636667	250 000	256 6
45 1,2-Dichloroethane	62	6.772	6.772	(0 967)	151546	250 000	243 3
47 Trichloroethene	130	7 381	7.381	(1 054)	146294	250 000	262.3
49 1,2-Dichloropropane	63	7.673	7.673	(1 096)	157297	250 000	251 2
50 Dibromomethane	93	7.794	7.794	(1.113)	77447	250 000	258 4
53 Bromodichloromethane	83	7.965	7.965	(1.137)	155576	250 000	269 2
57 cis-1,3-Dichloropropene	75	8.433	8 433	(1 204)	230054	250 000	275 2
58 4-Methyl-2-Pentanone	43	8 609	8 609	(0 850)	148517	250 000	244 3
60 Toluene	91	8.725	8 725	(0.862)	690054	250 000	250.5
61 trans-1,3-Dichloropropene	75	9 029	9.029	(0 892)	189725	250.000	260.8
63 1,3-Dichloropropane	76	9 376	9.376	(0.926)	230803	250 000	250 8
64 1,1,2-Trichloroethane	97	9.206	9 206	(0.909)	131881	250 000	249 5
65 Tetrachloroethene	164	9 242	9 242	(0 913)	112608	250 000	256 4
66 2-Hexanone	43	9 449	9 449	(0 933)	127607	250 000	283 9
67 Dibromochloromethane	129	9.564	9.564	(0 945)	112554	250 000	281.2
68 1,2-Dibromoethane	107	9.680	9.680	(0.956)	124139	250.000	260.0
70 Chlorobenzene	112	10.155	10 155	(1.003)	416573	250 000	258 2
71 1,1,1,2-Tetrachloroethane	131	10.240	10 240	(1 011)	118301	250.000	269.3
72 Ethylbenzene	106	10 234	10.234	(1 011)	236935	250 000	259 6
73 m + p-Xylene	106	10.361	10.361	(1 023)	572853	500 000	516 2
74 Xylene-o	106	10.757	10 757	(1.062)	273658	250 000	256 9
M 75 Xylenes (total)	106				846511	250 000	794.8
76 Styrene	104	10 781	10 781	(1.065)	468923	250.000	260.6
77 Bromoform	173	10 982	10 982	(1.085)	57345	250.000	281 0
78 Isopropylbenzene	105	11 110	11 110	(1.097)	684297	250 000	256 7
79 Bromobenzene	156	11.444	11 444	(0 919)	143883	250 000	255 6
81 n-Propylbenzene	120	11 517	11 517	(0 925)	196808	250 000	263.2
82 2-Chlorotoluene	126	11 627	11 627	(0 934)	157878	250 000	261 2
83 1,1,1,2-Tetrachloroethane	83	11 487	11 487	(0 922)	147563	250 000	261.2
84 1,2,3-Trichloropropane	110	11.536	11.536	(0 926)	42805	250 000	250 5
85 4-Chlorotoluene	126	11 748	11 748	(0 943)	163424	250 000	263 9
86 1,3,5-Trimethylbenzene	105	11 706	11 706	(0 940)	546554	250 000	262.4
87 tert-Butylbenzene	119	12.016	12 016	(0.965)	464993	250 000	258 0
88 1,2,4-Trimethylbenzene	105	12.083	12 083	(0 970)	550295	250 000	271 4
89 sec-Butylbenzene	105	12 235	12 235	(0 982)	736829	250.000	262 2
90 4-Isopropyltoluene	119	12.381	12 381	(0 994)	589600	250 000	269 4
91 1,3-Dichlorobenzene	146	12 381	12 381	(0 994)	284471	250 000	251 4
93 1,4-Dichlorobenzene	146	12.478	12 478	(1 002)	296665	250 000	252.2
94 n-Butylbenzene	91	12 795	12 795	(1 027)	593458	250 000	284 1
95 1,2-Dichlorobenzene	146	12.856	12 856	(1 032)	258352	250 000	252 3

677 217

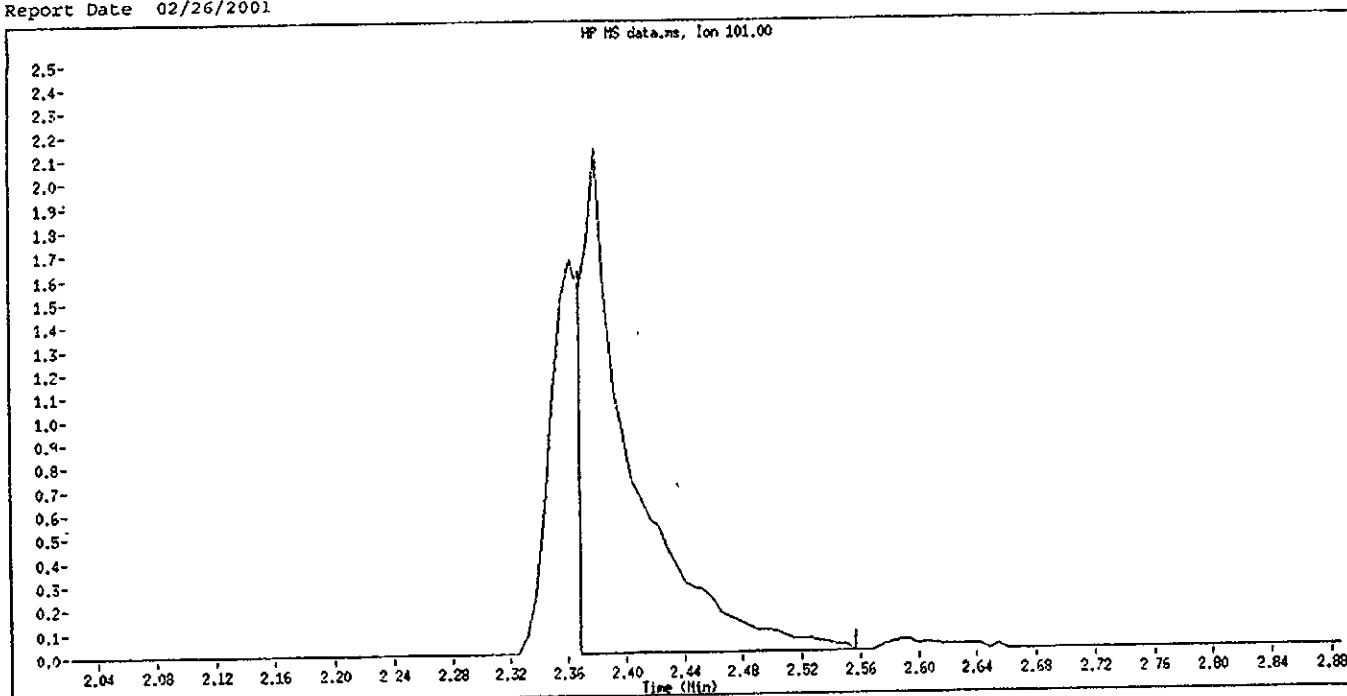
Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (ng)	ON-COL (ng)
-----	----	--	----	-----	-----	-----	-----	-----
96 1,2-Dibromo-3-chloropropane	157		13.659	13 659	(1 097)	12576	250 000	283 4
97 1,2,4-Trichlorobenzene	180		14 456	14 456	(1 161)	84182	250 000	254 2
98 Hexachlorobutadiene	225		14 577	14 577	(1 170)	63516	250 000	259 0
99 Naphthalene	128		14 711	14 711	(1.181)	114277	250 000	199 9
100 1,2,3-Trichlorobenzene	180		14 960	14 960	(1 201)	40567	250 000	185 4

QC Flag Legend

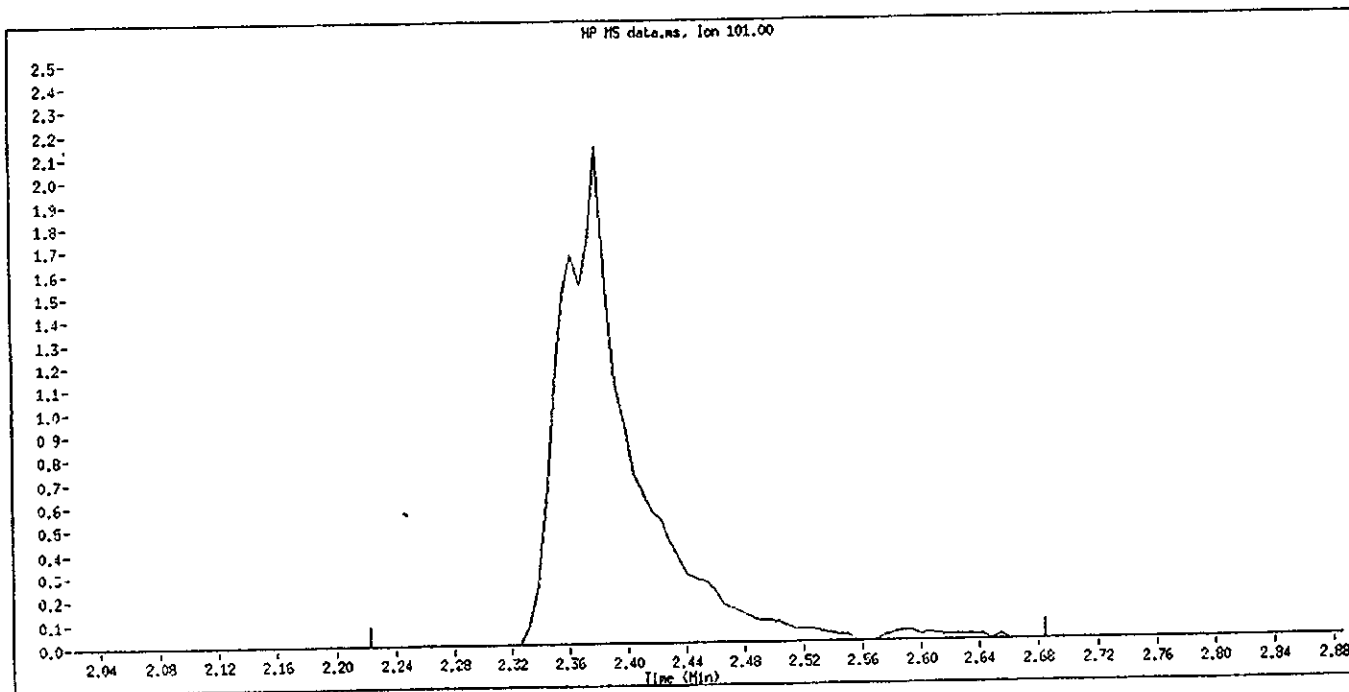
M - Compound response manually integrated.

Data File Name CC40226.D
Inj. Date and Time 26 FEB-2001 05:45
Instrument ID hp4 1
Client ID: vstd50
Compound Name Trichlorofluoromethane
CAS # 75-69-4
Report Date 02/26/2001

677 218



Original Integration



Manual Integration

Manually Integrated By DudeckK
Manual Integration Reason Peak Not Found

K 2/26/01

Paul 2/27/01

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

677 219

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30228D

Instrument ID: HP3

Calibration Date: 02/28/01

Time: 0647

Lab File ID: 1C30228

Init. Calib. Date(s): 02/20/01

02/20/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1926

2326

GC Column: DB 624

ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.345	0.302	0.01	12.5	50.0
Chloromethane	0.550	0.431	0.1	21.6	50.0
Vinyl Chloride	0.328	0.343	0.01	4.6	20.0
Bromomethane	0.103	0.060	0.01	41.7	50.0
Chloroethane	0.078	0.050	0.01	35.9	50.0
Trichlorofluoromethane	0.376	0.292	0.01	22.3	50.0
1,1-Dichloroethene	0.175	0.186	0.01	6.3	20.0
Methylene Chloride	0.207	0.201	0.01	2.9	50.0
trans-1,2-Dichloroethene	0.202	0.216	0.01	6.9	50.0
1,1-Dichloroethane	0.499	0.459	0.1	8.0	50.0
cis-1,2-dichloroethene	0.271	0.262	0.01	3.3	50.0
Chloroform	0.487	0.393	0.01	19.3	20.0
Bromochloromethane	0.139	0.129	0.01	7.2	50.0
1,1,1-Trichloroethane	0.396	0.368	0.01	7.1	50.0
Carbon Tetrachloride	0.340	0.334	0.01	1.8	50.0
1,2-Dichloroethane	0.447	0.342	0.01	23.5	50.0
Benzene	1.104	0.992	0.01	10.1	50.0
Trichloroethene	0.244	0.282	0.01	15.6	50.0
1,2-Dichloropropane	0.303	0.269	0.01	11.2	20.0
Bromodichloromethane	0.346	0.297	0.01	14.2	50.0
cis-1,3-Dichloropropene	0.362	0.401	0.01	10.8	50.0
Toluene	4.878	4.327	0.01	11.3	20.0
trans-1,3-Dichloropropene	1.519	1.348	0.01	11.2	50.0
1,1,2-Trichloroethane	1.071	0.807	0.01	24.6	50.0
Tetrachloroethene	0.725	0.853	0.01	17.6	50.0
Dibromochloromethane	1.047	0.943	0.01	9.9	50.0
Chlorobenzene	3.460	3.007	0.3	13.1	50.0
Ethylbenzene	1.712	1.675	0.01	2.2	20.0
Styrene	3.538	3.469	0.01	2.0	50.0
Bromoform	0.528	0.561	0.1	6.2	50.0
1,1,2,2-Tetrachloroethane	0.930	0.622	0.3	33.1	50.0
1,3-Dichlorobenzene	1.538	1.512	0.01	1.7	50.0
1,4-Dichlorobenzene	1.653	1.532	0.01	7.3	50.0
1,2-Dichlorobenzene	1.400	1.344	0.01	4.0	50.0
Dibromomethane	0.169	0.136	0.01	19.5	50.0
1,2-Dibromoethane	1.066	0.849	0.01	20.4	50.0
1,1,1,2-Tetrachloroethane	1.121	1.012	0.01	9.7	50.0

677 220

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30228D

Instrument ID: HP3

Calibration Date: 02/28/01 Time: 0647

Lab File ID: 1C30228

Init. Calib. Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1926 2326

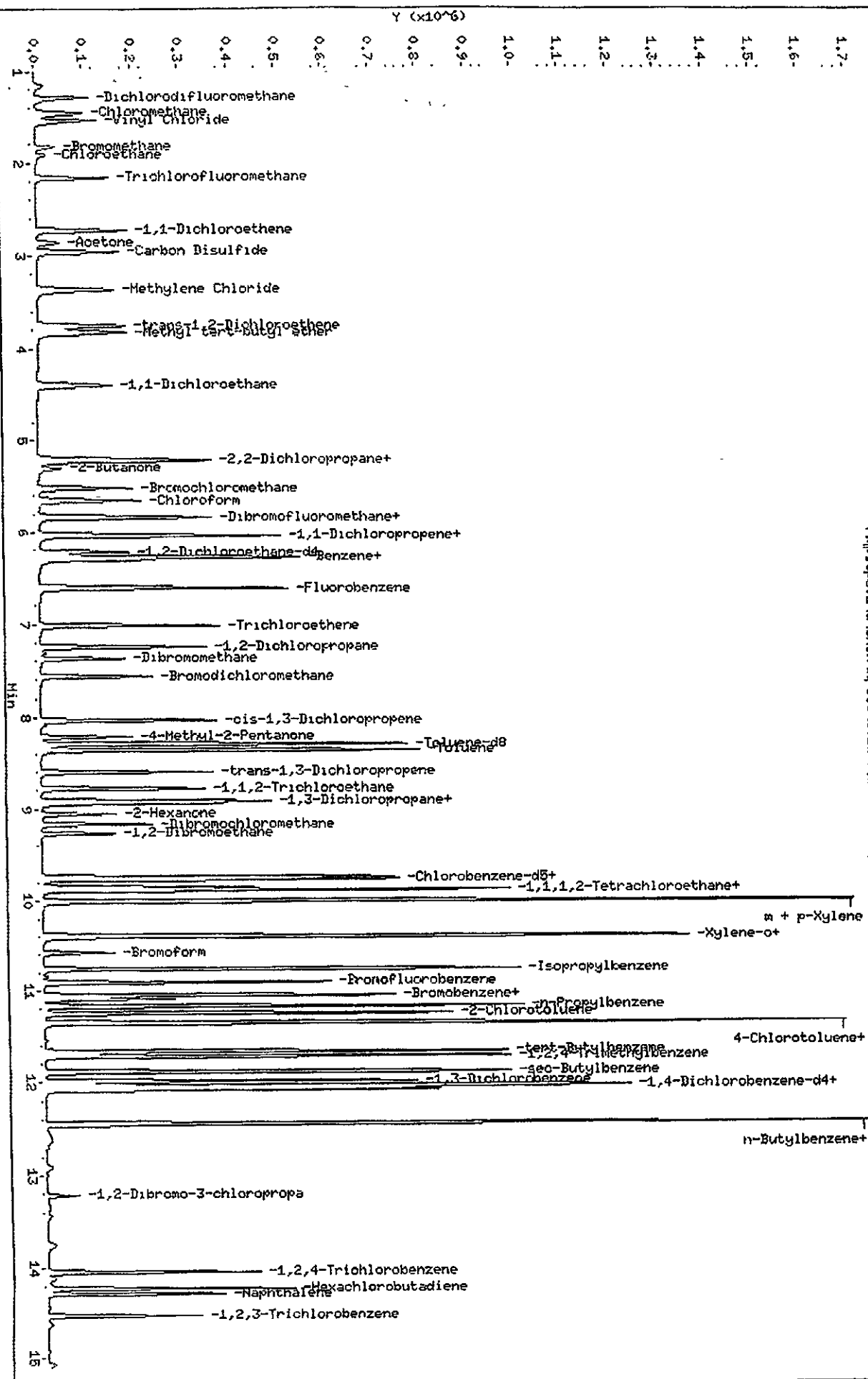
GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2,3-Trichloropropane	0.296	0.218	0.01	26.4	50.0
1,2-Dibromo-3-chloropropane	0.108	0.092	0.01	14.8	50.0
2,2-Dichloropropane	0.346	0.350	0.01	1.2	50.0
1,1-Dichloropropene	0.296	0.333	0.01	12.5	50.0
1,3-Dichloropropane	1.891	1.476	0.01	21.9	50.0
n-Propylbenzene	0.873	0.980	0.01	12.2	50.0
Bromobenzene	0.732	0.754	0.01	3.0	50.0
1,3,5-Trimethylbenzene	2.721	2.745	0.01	0.9	50.0
2-Chlorotoluene	0.839	0.815	0.01	2.9	50.0
4-Chlorotoluene	0.854	0.820	0.01	4.0	50.0
tert-Butylbenzene	2.021	2.498	0.01	23.6	50.0
1,2,4-Trimethylbenzene	2.922	2.809	0.01	3.9	50.0
sec-Butylbenzene	2.991	3.619	0.01	21.0	50.0
4-Isopropyltoluene	2.634	3.234	0.01	22.8	50.0
n-Butylbenzene	2.185	2.796	0.01	28.0	50.0
1,2,4-Trichlorobenzene	0.612	0.683	0.01	11.6	50.0
Hexachlorobutadiene	0.204	0.476	0.01	133.3	50.0
Naphthalene	1.860	1.352	0.01	27.3	50.0
1,2,3-Trichlorobenzene	0.614	0.467	0.01	23.9	50.0
Acetone	0.134	0.158	0.01	17.9	50.0
Carbon Disulfide	0.571	0.624	0.01	9.3	50.0
2-Butanone	0.169	0.148	0.01	12.4	50.0
4-Methyl-2-Pentanone	1.231	0.983	0.01	20.1	50.0
2-Hexanone	0.909	0.805	0.01	11.4	50.0
Methyl tert-butyl ether	0.547	0.558	0.01	2.0	50.0
Isopropylbenzene	4.813	5.332	0.01	10.8	50.0
1,2-Dichloroethene (total)	0.236	0.239	0.01	1.3	50.0
Xylenes (total)	1.871	1.984	0.01	6.0	50.0
Dibromofluoromethane	0.246	0.230	0.01	6.5	50.0
1,2-Dichloroethane-d4	0.336	0.278	0.01	17.3	50.0
Toluene-d8	3.941	3.972	0.01	0.8	50.0
Bromofluorobenzene	1.718	1.639	0.01	4.6	50.0

Data File: \\pittpa02\chem\mp3.i\30228d.b\1C30228.D
 Date: 28-FEB-2001 06:47
 Client ID: vstd50
 Sample Info: VSTD50 BHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: mp3.i
 Operator: 10099
 Column diameter: 0.18

\\pittpa02\chem\mp3.i\30228d.b\1C30228.D



677 222

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
 Data file : \\qpitpa02\d\chem\hp3.i\30228d.b\1C30228.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 28-FEB-2001 06:47 MS Autotune Date: 08-AUG-2000 16:28
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD50 5ML
 Misc Info : ,30227d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\qpitpa02\d\chem\hp3.i\30228d.b\8260bh2o.m
 Meth Date : 28-Feb-2001 07:14 gordonk Quant Type: ISTD
 Cal Date : 20-FEB-2001 23:26 Cal File: 1E30220P.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000 Compound Sublist: 4-dwh20.sub
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

KLG
2/28/01

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	465426	250.000	
* 69 Chlorobenzene-d5	119	9.736	9.736	(1.000)	122772	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	194855	250.000	
\$ 39 Dibromofluoromethane	113	5.842	5.842	(0.884)	106878	250.000	233.2
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	129163	250.000	206.7
\$ 59 Toluene-d8	98	8.294	8.294	(0.852)	487688	250.000	252.0
\$ 80 Bromofluorobenzene	95	10.904	10.904	(1.120)	201181	250.000	238.4
1 Dichlorodifluoromethane	85	1.286	1.286	(0.195)	140591	250.000	219.1
2 Chloromethane	50	1.456	1.456	(0.220)	200507	250.000	195.6
3 Vinyl Chloride	62	1.541	1.541	(0.233)	159650	250.000	261.2
4 Bromomethane	94	1.827	1.827	(0.277)	27944	250.000	145.5
5 Chloroethane	64	1.918	1.918	(0.290)	23534	250.000	162.1
6 Trichlorofluoromethane	101	2.162	2.162	(0.327)	136043	250.000	194.2
12 1,1-Dichloroethene	96	2.727	2.727	(0.413)	86618	250.000	266.2
15 Carbon Disulfide	76	2.959	2.959	(0.448)	290257	250.000	273.1
13 Acetone	43	2.861	2.861	(0.433)	73469	250.000	295.0

677 223

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
18 Methylene Chloride	84	3.360	3.360	(0.508)	93670	250.000	242.5
19 trans-1,2-Dichloroethene	96	3.750	3.750	(0.567)	100597	250.000	268.0
20 Methyl tert-butyl ether	73	3.816	3.816	(0.578)	259513	250.000	254.7
24 1,1-Dichloroethane	63	4.394	4.394	(0.665)	213646	250.000	230.0
27 2,2-Dichloropropane	77	5.197	5.197	(0.786)	162840	250.000	252.8
28 cis-1,2-dichloroethene	96	5.216	5.216	(0.789)	122042	250.000	242.1
M 29 1,2-Dichloroethene (total)	96				222640	500.000	506.3
30 Bromochloromethane	128	5.514	5.514	(0.834)	59907	250.000	231.0
31 2-Butanone	43	5.301	5.301	(0.802)	68718	250.000	219.0
37 Chloroform	83	5.648	5.648	(0.855)	183078	250.000	201.8
38 1,1,1-Trichloroethane	97	5.830	5.830	(0.882)	171089	250.000	232.2
40 1,1-Dichloropropene	75	6.037	6.037	(0.913)	155167	250.000	281.4
41 Carbon Tetrachloride	117	6.031	6.031	(0.913)	155284	250.000	245.2
42 Benzene	78	6.274	6.274	(0.949)	461650	250.000	224.6
45 1,2-Dichloroethane	62	6.305	6.305	(0.954)	159037	250.000	191.1
47 Trichloroethene	130	7.016	7.016	(1.062)	131020	250.000	287.8
49 1,2-Dichloropropane	63	7.248	7.248	(1.097)	125251	250.000	222.1
50 Dibromomethane	93	7.369	7.369	(1.115)	63297	250.000	200.4
53 Bromodichloromethane	83	7.558	7.558	(1.144)	138331	250.000	214.7
57 cis-1,3-Dichloropropene	75	8.026	8.026	(1.214)	186722	250.000	277.0
58 4-Methyl-2-Pentanone	43	8.209	8.209	(0.843)	120698	250.000	199.6
60 Toluene	91	8.361	8.361	(0.859)	531193	250.000	221.8
61 trans-1,3-Dichloropropene	75	8.598	8.598	(0.883)	165546	250.000	221.9
63 1,3-Dichloropropane	76	8.939	8.939	(0.918)	181243	250.000	195.1
64 1,1,2-Trichloroethane	97	8.774	8.774	(0.901)	99072	250.000	188.3
65 Tetrachloroethene	164	8.914	8.914	(0.916)	104729	250.000	294.0
66 2-Hexanone	43	9.048	9.048	(0.929)	98804	250.000	221.3
67 Dibromochloromethane	129	9.164	9.164	(0.941)	115757	250.000	225.0
68 1,2-Dibromoethane	107	9.261	9.261	(0.951)	104250	250.000	199.2
70 Chlorobenzene	112	9.760	9.760	(1.002)	369205	250.000	217.3
71 1,1,1,2-Tetrachloroethane	131	9.851	9.851	(1.012)	124250	250.000	225.6
72 Ethylbenzene	106	9.882	9.882	(1.015)	205595	250.000	244.6
73 m + p-Xylene	106	10.003	10.003	(1.027)	511116	500.000	494.0
74 Xylene-o	106	10.393	10.393	(1.067)	243526	250.000	265.1
M 75 Xylenes (total)	106				754642	250.000	821.4
76 Styrene	104	10.405	10.405	(1.069)	425927	250.000	245.1
77 Bromoform	173	10.581	10.581	(1.087)	68849	250.000	265.5
78 Isopropylbenzene	105	10.758	10.758	(1.105)	654597	250.000	276.9
79 Bromobenzene	156	11.050	11.050	(0.917)	146869	250.000	257.5
81 n-Propylbenzene	120	11.171	11.171	(0.927)	190996	250.000	280.8
82 2-Chlorotoluene	126	11.244	11.244	(0.933)	158808	250.000	242.8
83 1,1,2,2-Tetrachloroethane	83	11.056	11.056	(0.917)	121268	250.000	167.3
84 1,2,3-Trichloropropane	110	11.092	11.092	(0.920)	42579	250.000	184.2
85 4-Chlorotoluene	126	11.354	11.354	(0.942)	159712	250.000	240.0
86 1,3,5-Trimethylbenzene	105	11.348	11.348	(0.941)	534802	250.000	252.2
87 tert-Butylbenzene	119	11.670	11.670	(0.968)	486863	250.000	309.0
88 1,2,4-Trimethylbenzene	105	11.719	11.719	(0.972)	547359	250.000	240.3

677 224

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
89 sec-Butylbenzene	105	11.889	11.889	(0.986)	705233	250.000	302.5
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	630254	250.000	306.9
91 1,3-Dichlorobenzene	146	11.987	11.987	(0.994)	294543	250.000	245.6
93 1,4-Dichlorobenzene	146	12.078	12.078	(1.002)	298589	250.000	231.7
94 n-Butylbenzene	91	12.443	12.443	(1.032)	544926	250.000	320.0
95 1,2-Dichlorobenzene	146	12.443	12.443	(1.032)	261974	250.000	240.0
96 1,2-Dibromo-3-chloropropane	157	13.215	13.215	(1.096)	17847	250.000	211.4
97 1,2,4-Trichlorobenzene	180	14.049	14.049	(1.166)	133150	250.000	279.0
98 Hexachlorobutadiene	225	14.225	14.225	(1.180)	92802	250.000	584.0
99 Naphthalene	128	14.286	14.286	(1.185)	263503	250.000	181.7
100 1,2,3-Trichlorobenzene	180	14.529	14.529	(1.205)	91075	250.000	190.1

677 225

GC/MS VOLATILE
QC DATA

Date : 23-JAN-2001 10:14

Client ID: 50NCBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

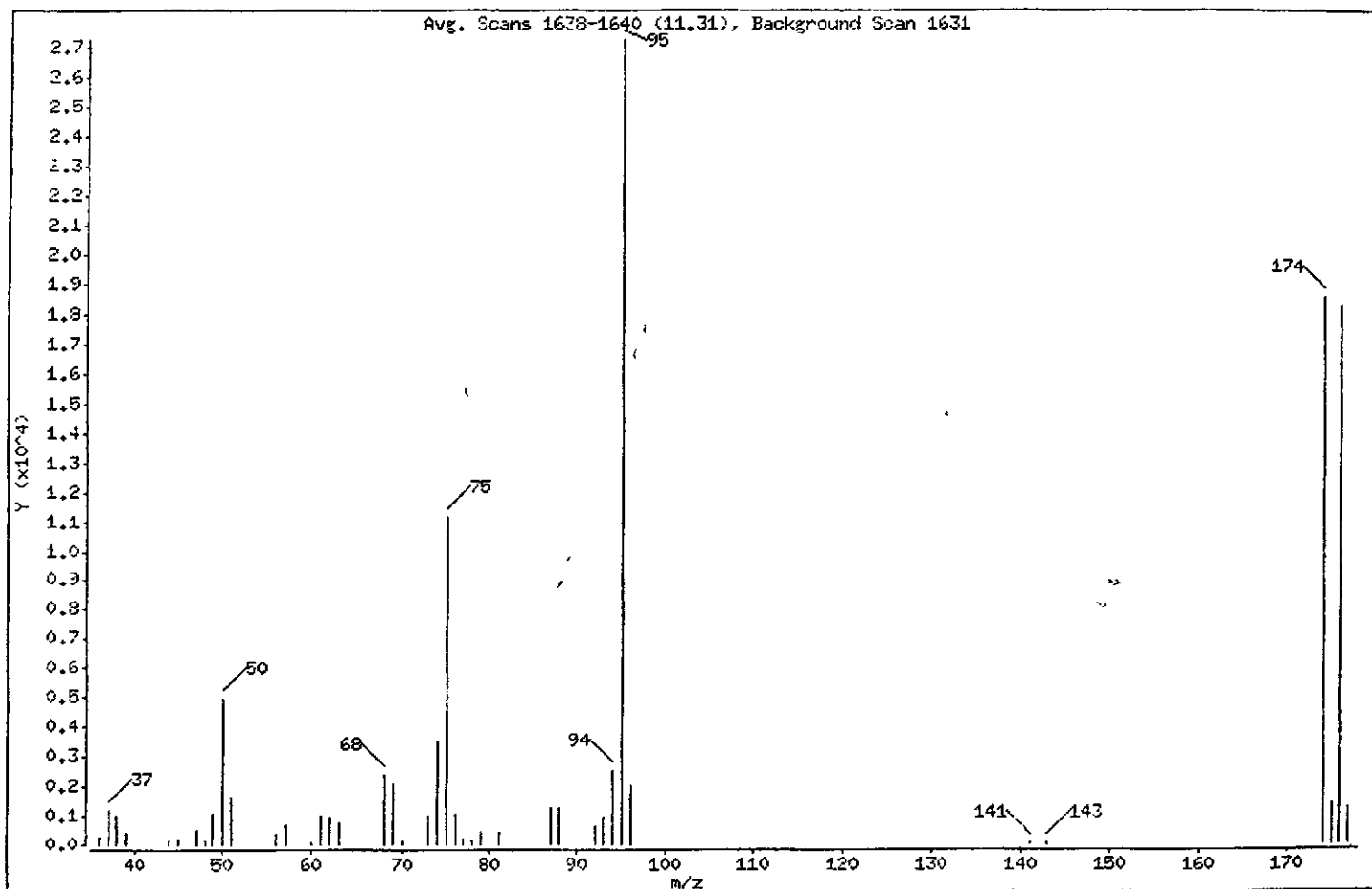
Volume Injected (uL): 1.0

Operator: 16238

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak. 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.19
75	30.00 - 60.00% of mass 95	40.85
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	68.15
175	5.00 - 9.00% of mass 174	5.00 (7.34)
176	95.00 - 101.00% of mass 174	67.07 (98.41)
177	5.00 - 9.00% of mass 176	4.63 (6.91)

Date : 23-JAN-2001 10:14

Client ID: 50NGBFB

Instrument: hp4.1

677 227

Sample Info: bfb lul inj

Volume Injected (uL): 1.0

Operator: 16238

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF40123.D

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

Location of Maximum: 95.00

Number of points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	277	56.00	347	75.00	11143	95.00	27280
37.00	1206	57.00	673	76.00	1090	96.00	1995
38.00	997	60.00	85	77.00	169	141.00	60
39.00	422	61.00	1030	78.00	137	143.00	82
44.00	148	62.00	940	79.00	426	174.00	18592
45.00	163	63.00	753	81.00	433	175.00	1365
47.00	487	68.00	2387	87.00	1250	176.00	18296
48.00	144	69.00	2060	88.00	1248	177.00	1264
49.00	1062	70.00	153	92.00	632		
50.00	4962	73.00	1014	93.00	947		
51.00	1601	74.00	3532	94.00	2506		

Data File: \\QPITPA02\chem\hpf4.1\40123d.b\BF40123.D
Date: 23-JAN-2001 10:14

Client ID: 50NGBFB

Sample Info: bfb 1ul Inj

Volume Injected (ul): 1.0

Column phase: DB624 20m

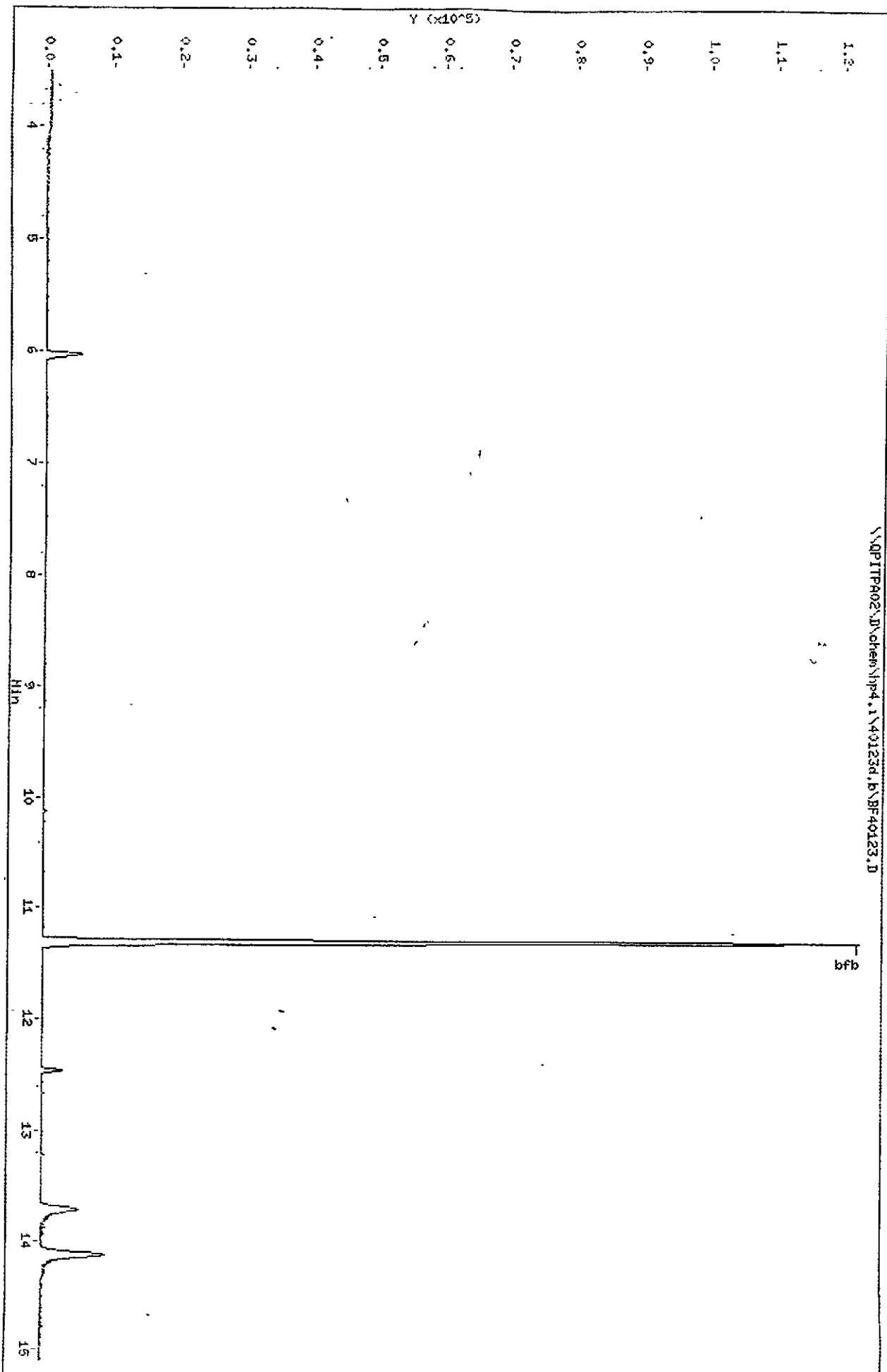
Instrument: hpf4.1

Operator: 16239

Column diameter: 0.18

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bfb



Date : 20-FEB-2001 16:56

Client ID: 31019D

Instrument: hp3.1

677 229

Sample Info: BFB 085-003-01 50NG

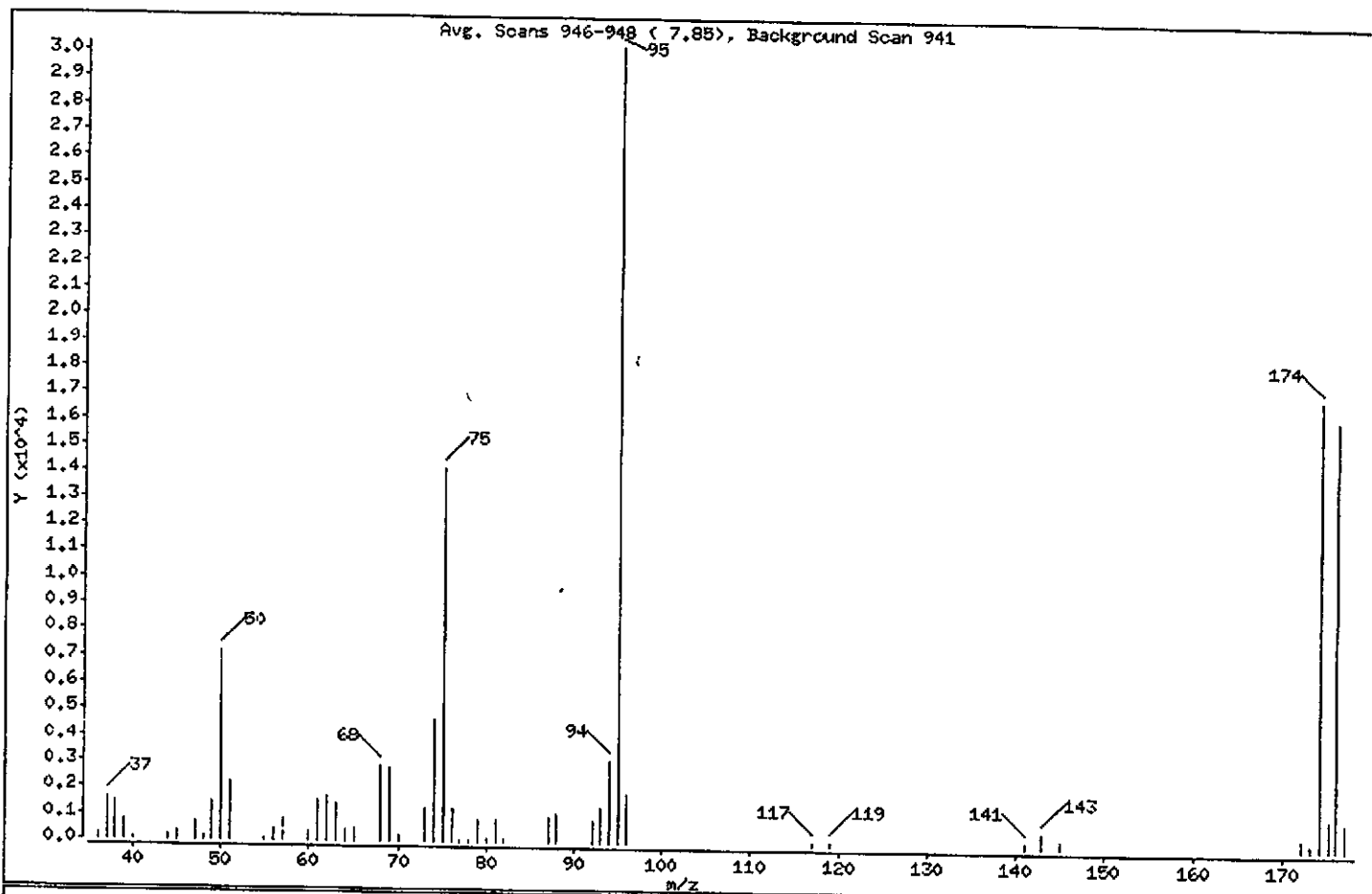
Volume Injected (uL): 1.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.81
75	30.00 - 60.00% of mass 95	46.78
96	5.00 - 9.00% of mass 95	6.16
173	Less than 2.00% of mass 174	0.73 (1.29)
174	50.00 - 100.00% of mass 95	56.49
175	5.00 - 9.00% of mass 174	3.95 (6.99)
176	95.00 - 101.00% of mass 174	53.92 (95.45)
177	5.00 - 9.00% of mass 176	3.44 (6.39)

Date : 20-FEB-2001 16:56

Client ID: 31019D

Instrument: hp3.i

Sample Info: BFB 085-003-01 50NG

Volume Injected (uL): 1.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF30220N.D

Spectrum: Avg. Scans 946-948 (7.85), Background Scan 941

Location of Maximum: 95.00

Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	208	57.00	853	77.00	69	119.00	152
37.00	1580	60.00	321	78.00	71	141.00	213
38.00	1499	61.00	1539	79.00	859	143.00	524
39.00	770	62.00	1663	80.00	140	145.00	306
40.00	38	63.00	1410	81.00	821	172.00	440
44.00	215	64.00	403	82.00	173	173.00	220
45.00	348	65.00	497	87.00	950	174.00	17104
47.00	674	68.00	2851	88.00	1131	175.00	1196
48.00	158	69.00	2767	92.00	846	176.00	16333
49.00	1435	70.00	196	93.00	1303	177.00	1043
50.00	7211	73.00	1254	94.00	3161		
51.00	2257	74.00	4669	95.00	30288		
55.00	69	75.00	14169	96.00	1866		
56.00	401	76.00	1231	117.00	171		

Data File: \\pp1tpa02\chem\hp3.1\30220p.b\BF30220N.D

Date: 20-FEB-2001 16:56

Client ID: 31019D

Sample Info: BFB 085-003-01 50NC

Volume Injected (uL): 1.0

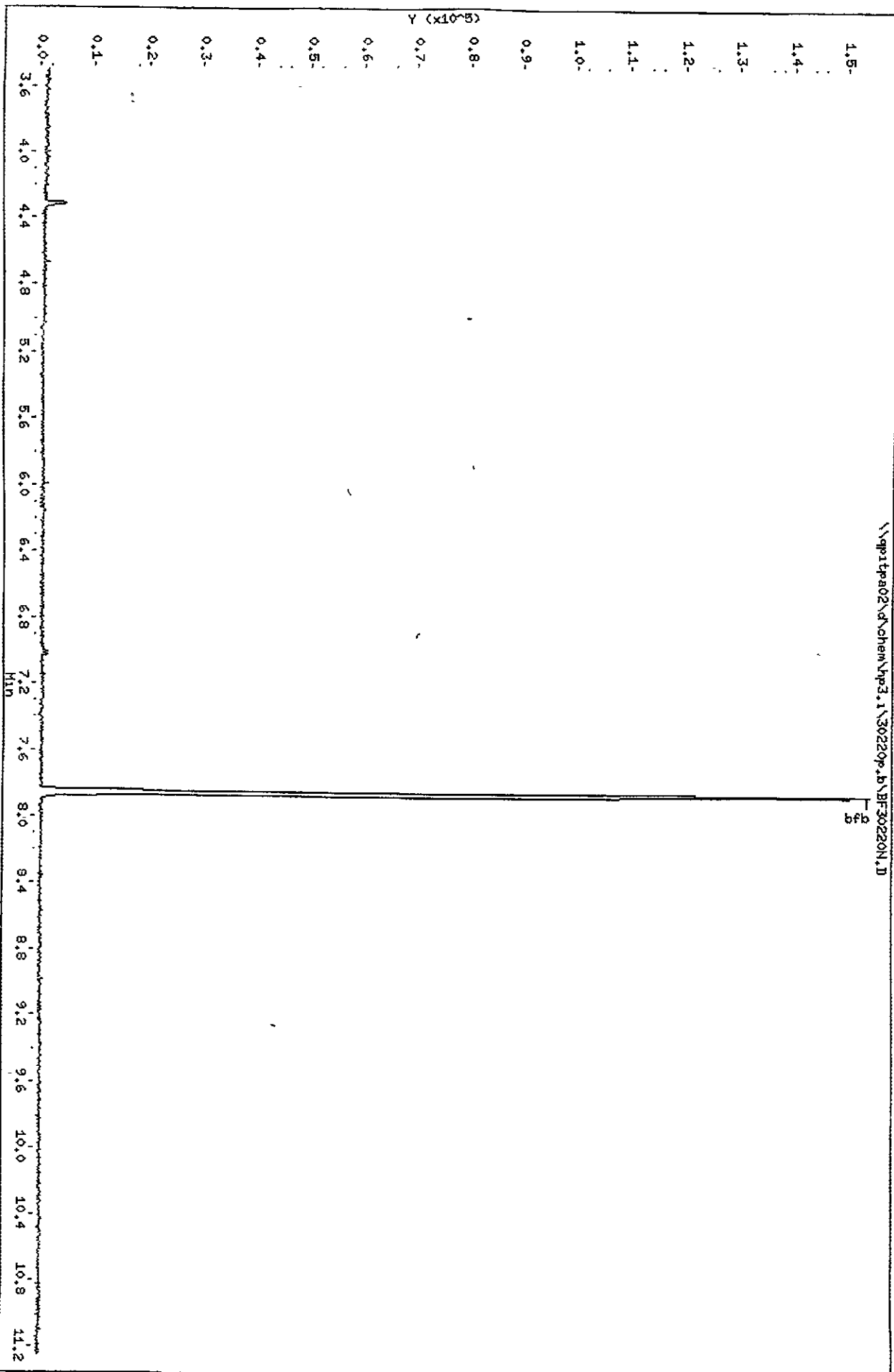
Column phase: DB624 20m

Instrument: hp3.1

Operator: 034635

Column diameter: 0.18

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g
D

Date : 26-FEB-2001 05:17

Client ID: 50NGBFB

Instrument: hp4.i

677 232

Sample Info: bfb 1ul inj

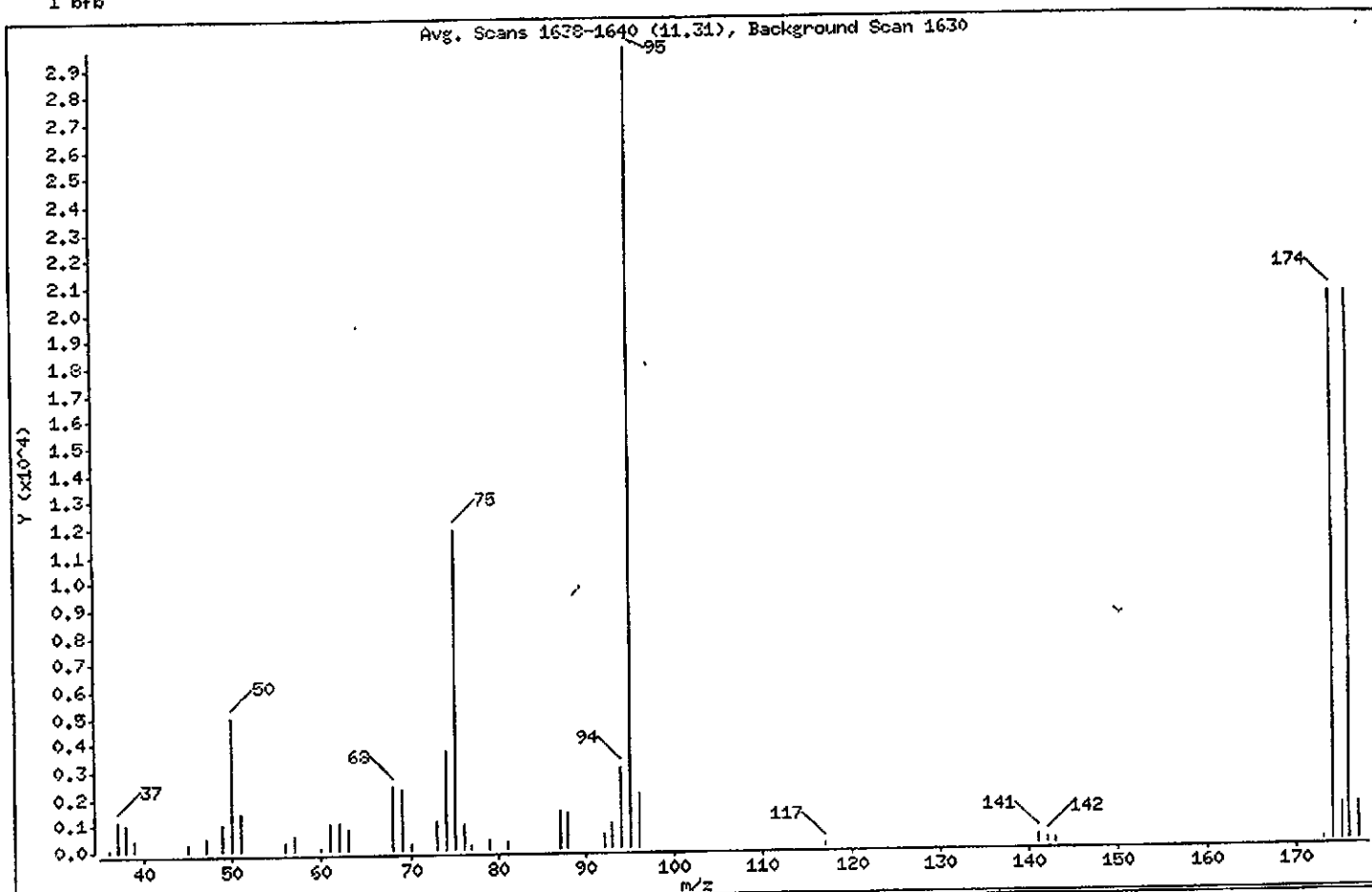
Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.70
75	30.00 - 60.00% of mass 95	40.08
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.24 (0.38)
174	50.00 - 100.00% of mass 95	68.81
175	5.00 - 9.00% of mass 174	4.63 (6.73)
176	95.00 - 101.00% of mass 174	68.77 (99.95)
177	5.00 - 9.00% of mass 176	4.50 (6.54)

Date : 20-FEB-2001 05:17

Client ID: 50NCBFB

Instrument: hp4.1

677 233

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF40226.D

Spectrum: Avg. Scans 1638-1640 (11.31), Background Scan 1630

Location of Maximum: 95.00

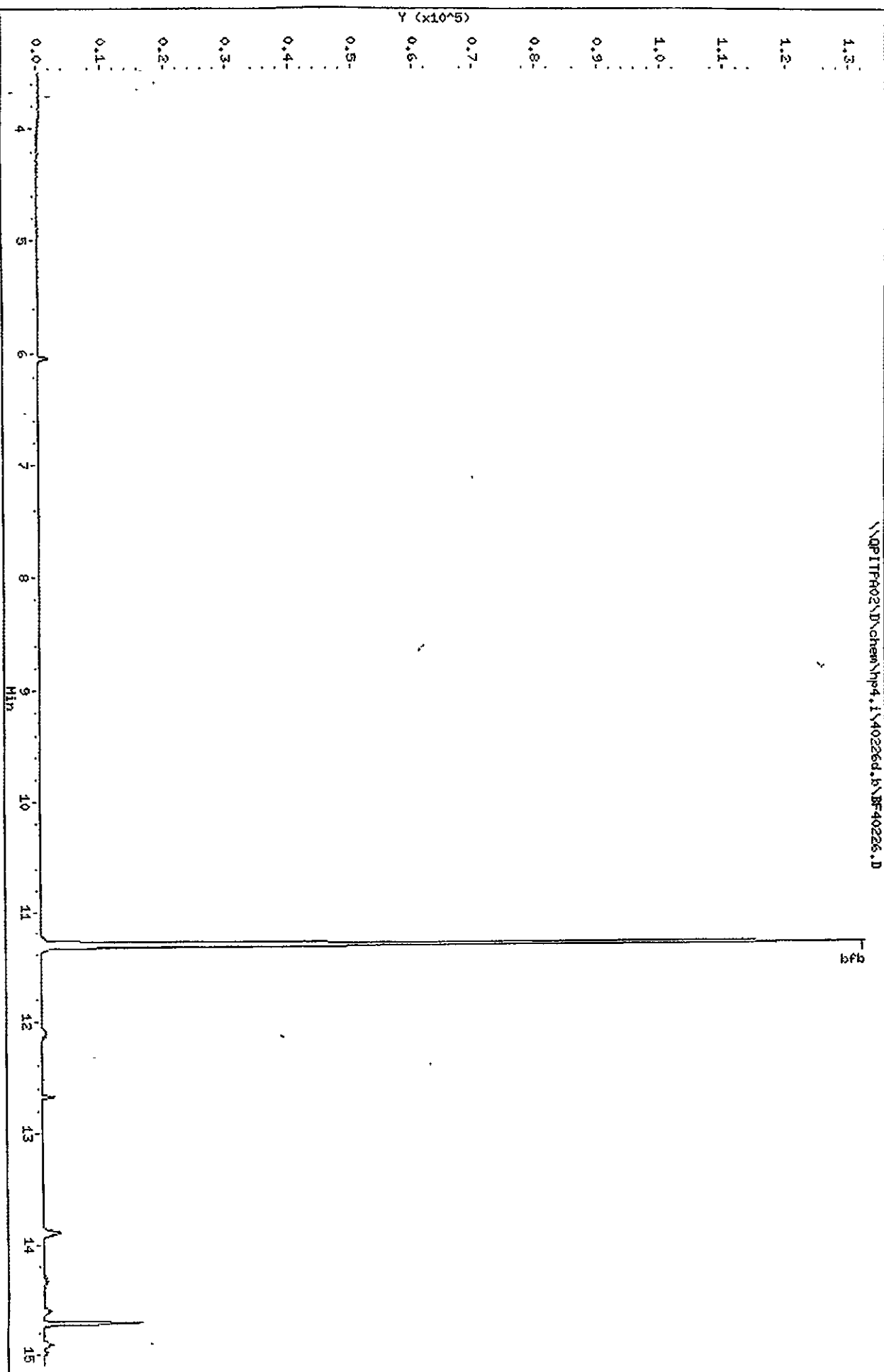
Number of points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	71	60.00	89	77.00	169	141.00	370
37.00	1179	61.00	1083	79.00	315	142.00	200
38.00	1039	62.00	1039	81.00	247	143.00	173
39.00	416	63.00	788	87.00	1438	173.00	72
45.00	239	68.00	2396	88.00	1346	174.00	20408
47.00	481	69.00	2256	92.00	536	175.00	1374
49.00	1029	70.00	188	93.00	988	176.00	20400
50.00	4964	73.00	1085	94.00	2977	177.00	1334
51.00	1453	74.00	3674	95.00	29664		
56.00	265	75.00	11890	96.00	2024		
57.00	542	76.00	929	117.00	73		

Data File: \\QPI1P02\N\chem\hp4.1\40226d.b\BF40226.D
Date: 26-FEB-2004 08:17
Client ID: GONGCBFB
Sample Info: bfb tul inj
Volume Injected (uL): 1.0
Column Phase: DB624 20m

Instrument: hp4.1
Operator: 16328
Column diameter: 0.18

\\QPI1P02\N\chem\hp4.1\40226d.b\BF40226.D



Date : 28-FEB-2001 05:49

Client ID: 31019D

Instrument: hp3.1

677 235

Sample Info: BFB 085-003-01 1UL

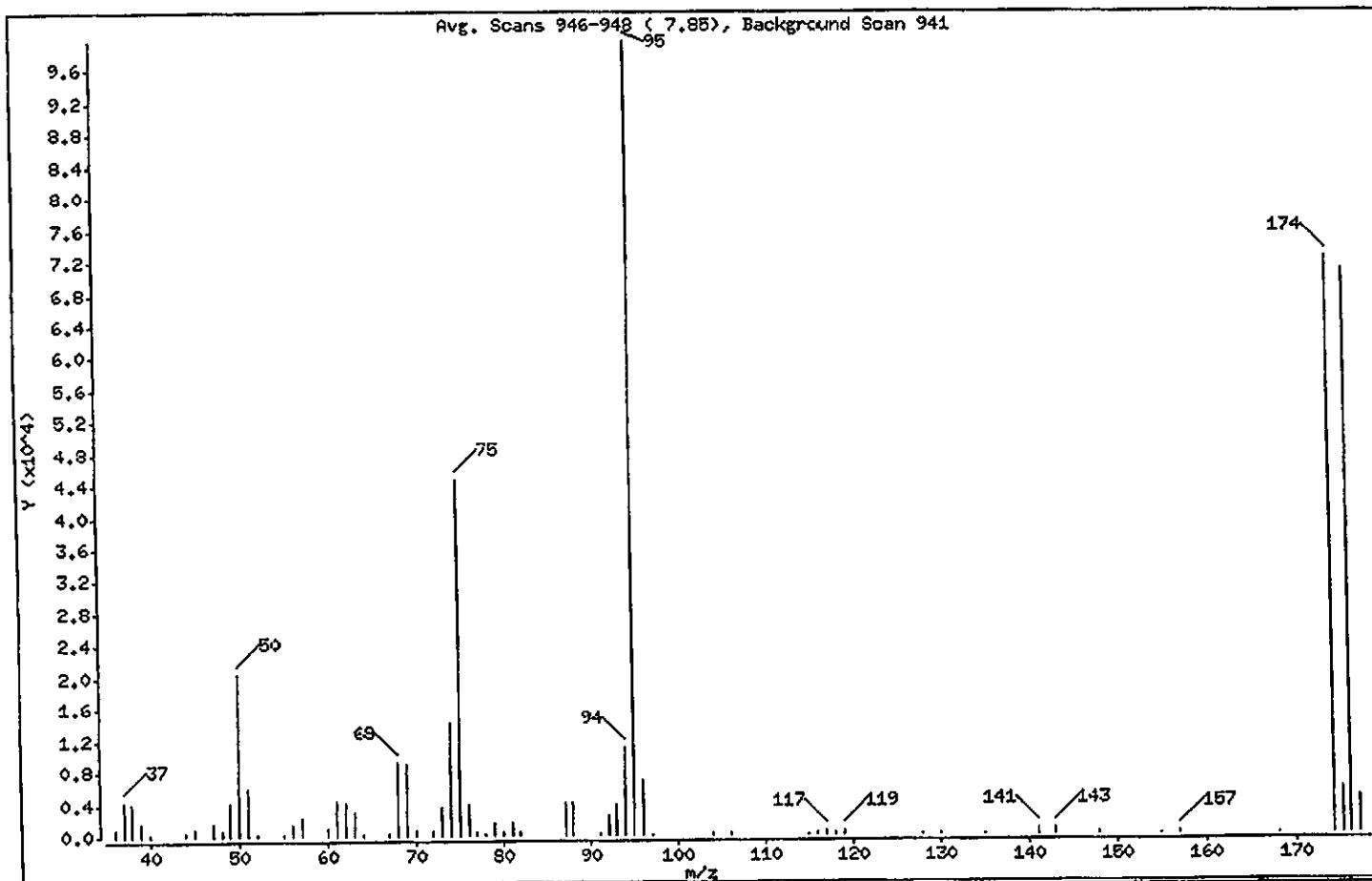
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.37
75	30.00 - 60.00% of mass 95	44.89
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	72.75
175	8.00 - 9.00% of mass 174	5.70 (7.84)
176	95.00 - 101.00% of mass 174	70.97 (97.56)
177	5.00 - 9.00% of mass 176	4.57 (6.44)

Date : 28-FEB-2001 05:49

Client ID: 31019D

Instrument: hp3.i

Sample Info: BFB 085-003-01 1UL

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF30228.D

Spectrum: Avg. Scans 946-948 (7.85), Background Scan 941

Location of Maximum: 95.00

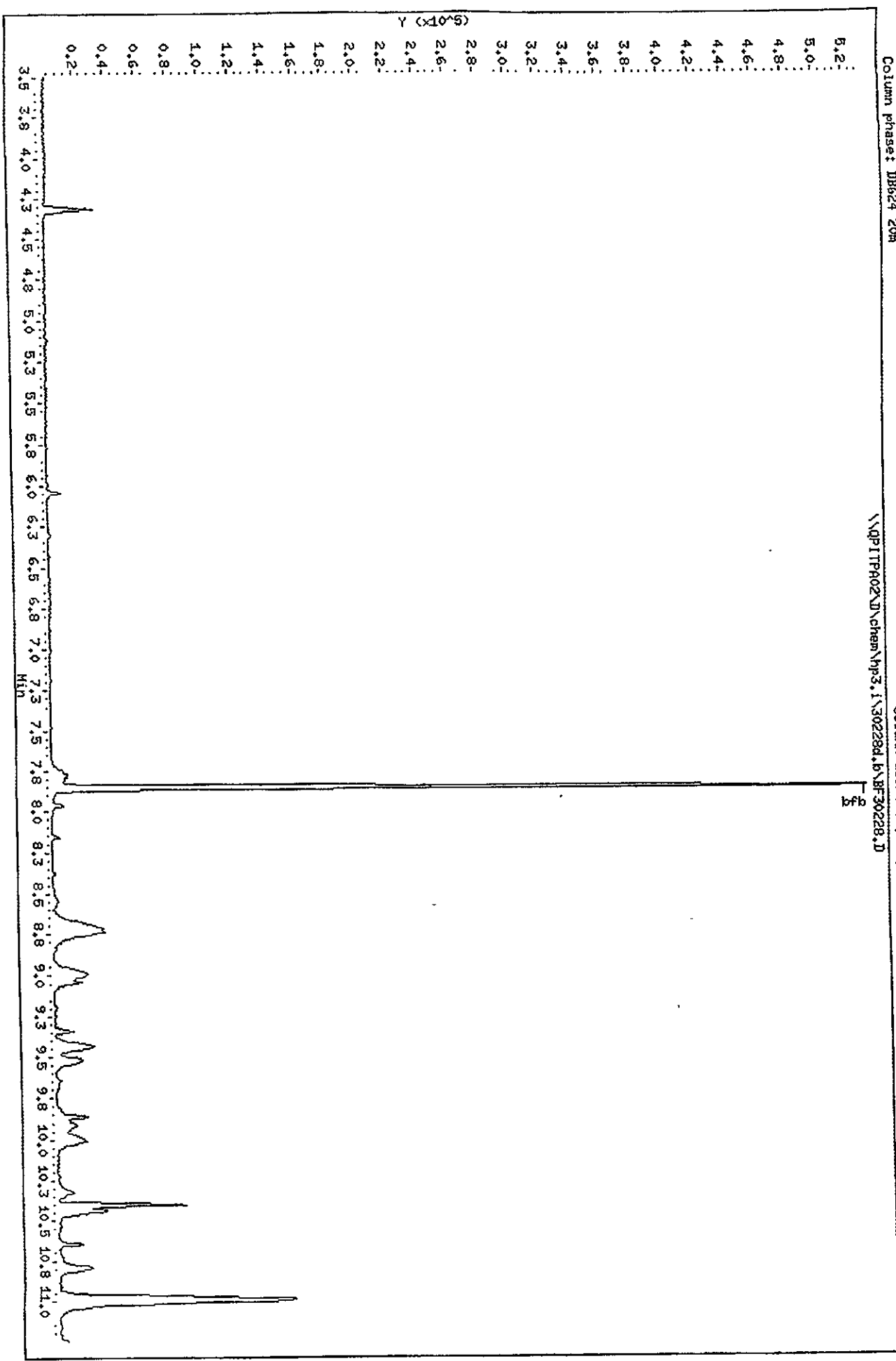
Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	888	61.00	4342	81.00	1614	119.00	392
37.00	4464	62.00	4213	82.00	377	128.00	102
38.00	4074	63.00	3019	87.00	4165	129.00	79
39.00	1650	64.00	343	88.00	4069	130.00	331
40.00	281	67.00	184	91.00	291	135.00	74
44.00	397	68.00	9101	92.00	2485	141.00	796
45.00	933	69.00	9031	93.00	3914	143.00	769
47.00	1636	70.00	707	94.00	10961	148.00	162
48.00	635	72.00	424	95.00	99784	155.00	90
49.00	4086	73.00	3734	96.00	6933	157.00	155
50.00	20328	74.00	14234	97.00	67	168.00	75
51.00	5999	75.00	44800	104.00	221	174.00	72592
52.00	320	76.00	3872	106.00	278	175.00	5689
55.00	297	77.00	553	115.00	68	176.00	70824
56.00	1365	78.00	341	116.00	208	177.00	4562
57.00	2274	79.00	1612	117.00	500		
60.00	820	80.00	497	118.00	289		

Data File: \\QIPITPA02\U\chem\hp3.1\302284.b\BF30228.D
 Date : 28-FEB-2001 05:49
 Client ID: 34019D
 Sample Info: BFB 085-003-01 1UL
 Volume Injected (uL): 1.0
 Column phase: DB624 20m

Instrument: hp3.1
 Operator: 10099
 Column diameter: 0.18

\\QIPITPA02\U\chem\hp3.1\302284.b\BF30228.D



UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B260000 148

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWLWE1AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

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

677 239

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

Matrix: (soil/water) WATER Lab Sample ID: C1B260000 148

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

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWLWE1AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/26/01

Moisture %: NA

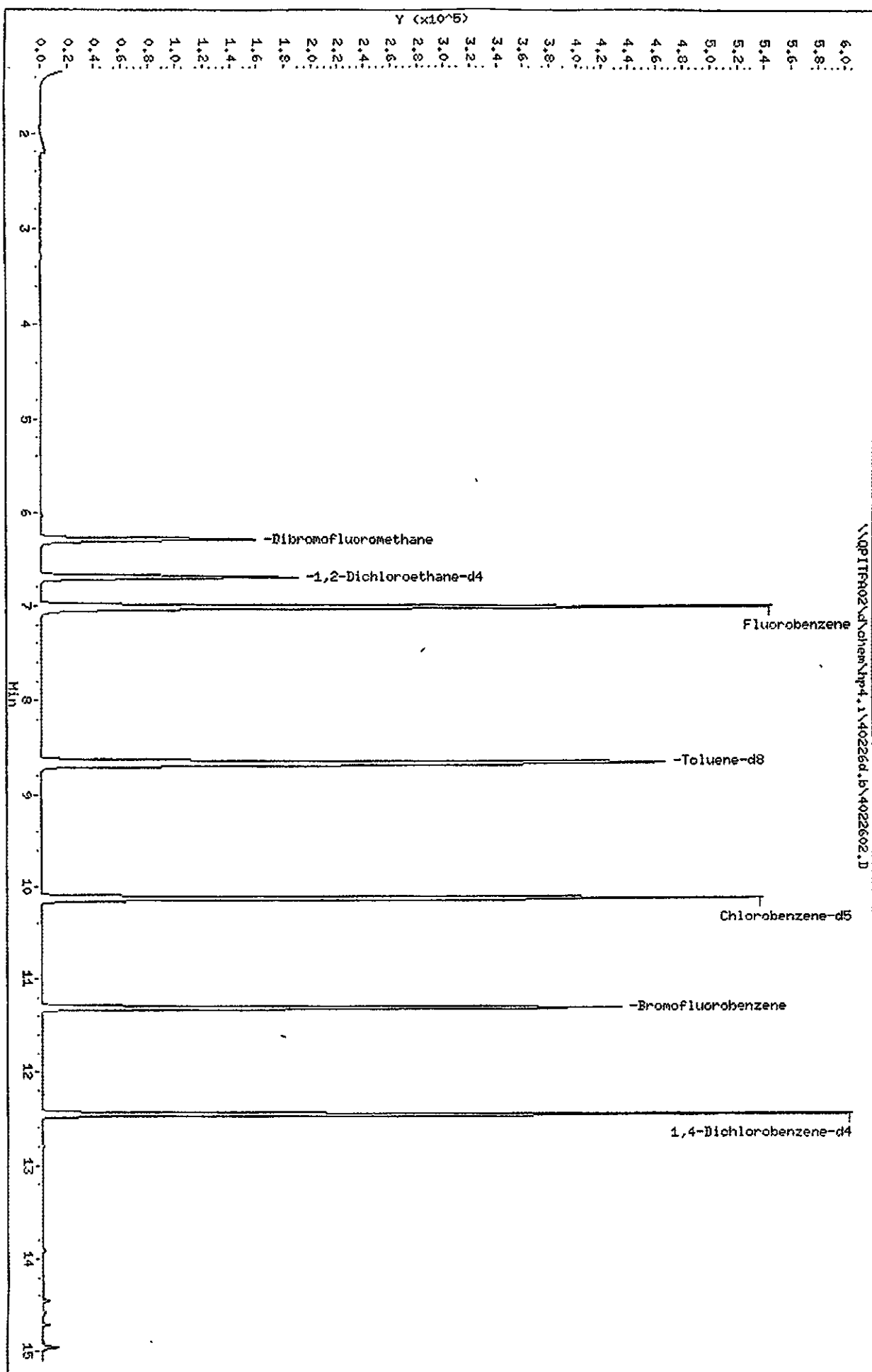
QC Batch: 1057148

Client Sample Id: INTRA-LAB BLANK

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

Data File: \\QP1TP002\4\chem\hp4.1\40226d.b\4022602.D
Date: 26-FEB-2001 06:58
Client ID:
Sample Info: volk 5ml
Volume Injected (ul): 5.0
Column phase: DB 624

Instrument: hp4.1
Operator: 16328
Column diameter: 0.18



677 241

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\QPITPA02\d\chem\hp4.i\40226d.b\4022602.D
Lab Smp Id: vstd50
Inj Date : 26-FEB-2001 06:58
Operator : 16328 Inst ID: hp4.i
Smp Info : vblk 5ml
Misc Info : vstd50 ,40226d.b,8260bh2o.M, K₂/26/1
Comment :
Method : \\QPITPA02\D\chem\hp4.i\40226d.b\8260bh2o.m
Meth Date : 26-Feb-2001 06:21 dudeck Quant Type: ISTD
Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 6-br.sub
Target Version: 4.04
Processing Host: PITPC077

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.008	7.003	(1.000)	666265	250.000	
* 69 Chlorobenzene-d5	119	10.123	10.124	(1.000)	132612	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.453	12.454	(1.000)	194762	250.000	
\$ 39 Dibromofluoromethane	113	6.290	6.285	(0.898)	126702	252.680	50.54
\$ 43 1,2-Dichloroethane-d4	65	6.686	6.687	(0.954)	139379	236.918	47.38
\$ 59 Toluene-d8	98	8.657	8.652	(0.855)	605588	242.793	48.56
\$ 80 Bromofluorobenzene	95	11.309	11.304	(1.117)	208696	242.296	48.46
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.		
12 1,1-Dichloroethene	96				Compound Not Detected		
13 Acetone	43				Compound Not Detected.		
15 Carbon Disulfide	76				Compound Not Detected		
18 Methylene Chloride	84				Compound Not Detected.		

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
19 trans-1,2-Dichloroethene	96				Compound Not Detected		
24 1,1-Dichloroethane	63				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				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		
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.		
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.		
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.		
70 Chlorobenzene	112				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		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected		
91 1,3-Dichlorobenzene	146				Compound Not Detected.		
93 1,4-Dichlorobenzene	146				Compound Not Detected		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

677 243

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

Matrix: (soil/water) WATER Lab Sample ID: C1B280000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 02/19/01
Work Order: DWPQV1AA Date Extracted: 02/28/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1059185

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-64-1	Acetone	2.4		J
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

FORM I

677 244

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B280000 185

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 02/19/01

Work Order: DWPQV1AA

Date Extracted: 02/28/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

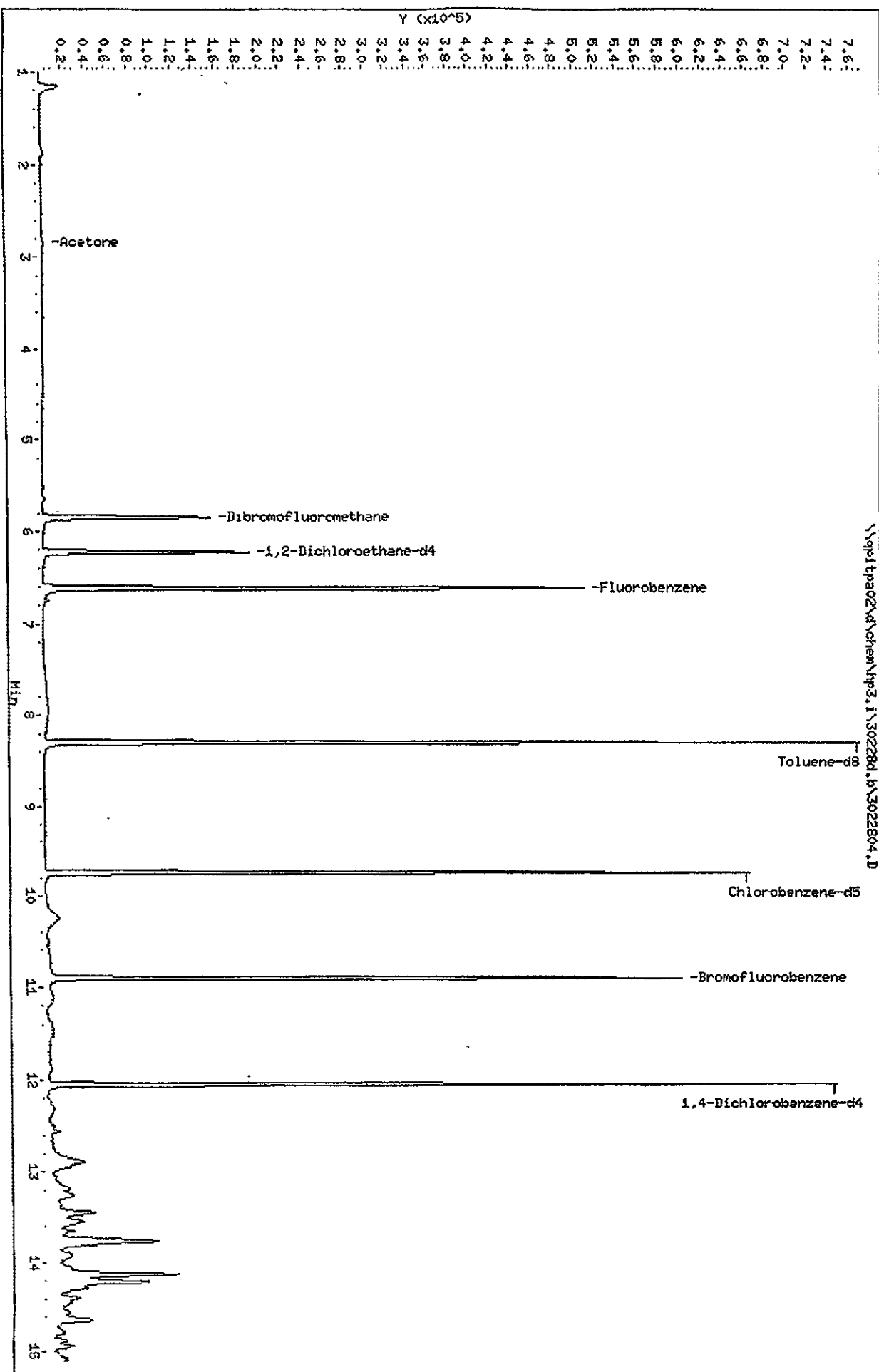
QC Batch: 1059185

Client Sample Id: INTRA-LAB BLANK

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

Data File: \\q1tpa02\chem\hp3.1\30228d.b\3022804.D
Date: 28-FEB-2004 10:09
Client ID:
Sample Info: VBLK SHL
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp3.1
Operator: 10099
Column diameter: 0.18



677 246

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30228d.b\3022804.D

Lab Smp Id:

Inj Date : 28-FEB-2001 10:09

MS Autotune Date: 08-AUG-2000 16:28

Operator : 10099

Inst ID: hp3.i

Smp Info : VBLK 5ML

Misc Info : ,30228d.b,8260bh2o.m,1-tcl.sub

Comment :

Method : \\QPITPA02\D\chem\hp3.i\30228d.b\8260bh2o.m

Meth Date : 28-Feb-2001 07:14 gordonk

Quant Type: ISTD

Cal Date : 20-FEB-2001 23:26

Cal File: 1E30220P.D

Als bottle: 7

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 4.04

Processing Host: PITPC076

Compound Sublist: 1-tcl.sub

KG
2/28/01

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

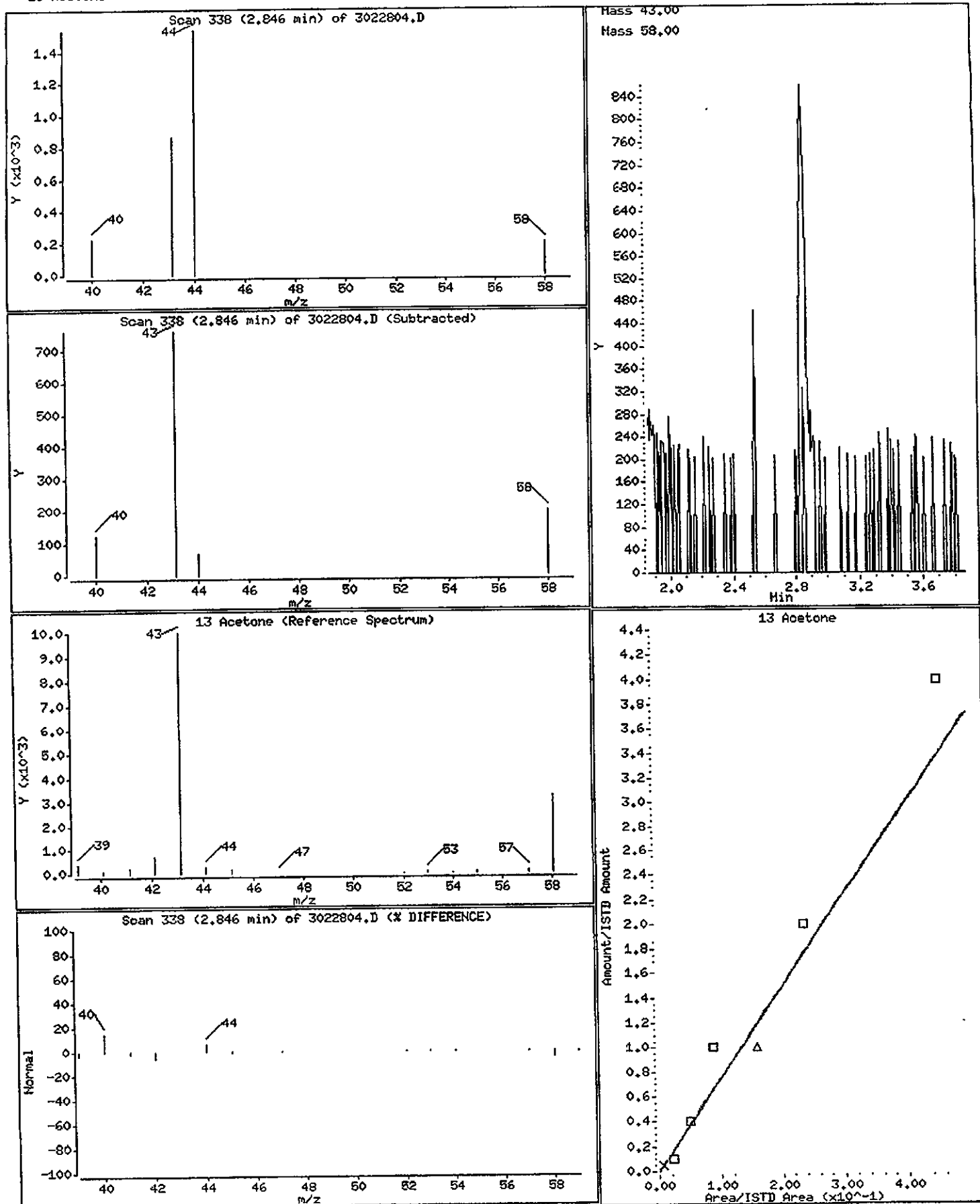
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(UG/L)
* 46 Fluorobenzene	96	6.611	6.609	(1.000)	441120	250.000		
* 69 Chlorobenzene-d5	119	9.738	9.736	(1.000)	116207	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.055	12.053	(1.000)	189464	250.000		
\$ 39 Dibromofluoromethane	113	5.844	5.842	(0.884)	101729	234.223	46.84	
\$ 43 1,2-Dichloroethane-d4	65	6.221	6.219	(0.941)	127771	215.720	43.14	
\$ 59 Toluene-d8	98	8.296	8.294	(0.852)	466470	254.654	50.93	
\$ 80 Bromofluorobenzene	95	10.906	10.904	(1.120)	195750	245.035	49.01	
1 Dichlorodifluoromethane	85				Compound Not Detected			
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.			
12 1,1-Dichloroethene	96				Compound Not Detected.			
15 Carbon Disulfide	76				Compound Not Detected.			
13 Acetone	43	2.845	2.861	(0.430)	2847	12.0621	2.412	
18 Methylene Chloride	84				Compound Not Detected.			

677 247

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
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.		
28 cis-1,2-dichloroethene	96		Compound	Not	Detected.		
M 29 1,2-Dichloroethene (total)	96		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.		
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.		
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.		
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.		
83 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.		
84 1,2,3-Trichloropropane	110		Compound	Not	Detected.		
91 1,3-Dichlorobenzene	146		Compound	Not	Detected.		
93 1,4-Dichlorobenzene	146		Compound	Not	Detected.		
95 1,2-Dichlorobenzene	146		Compound	Not	Detected.		

13 Acetone



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

677 249

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

Matrix: (soil/water) WATER Lab Sample ID: C1B260000 148

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

Sample WT/Vol: 5 / mL

Date Received: 02/23/01

Work Order: DWLWE1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/26/01

Moisture %: NA

QC Batch: 1057148

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	52.8	Q
108-90-7	Chlorobenzene	53.2	
75-35-4	1,1-Dichloroethene	46.1	
108-88-3	Toluene	52.6	
79-01-6	Trichloroethene	54.9	

Data File: \\QPI1P002\chem\hp4.1\40226d.b\4022603.D

Date: 26-FEB-2001 07:27

Client ID:

Sample Info: blk ms 5ml

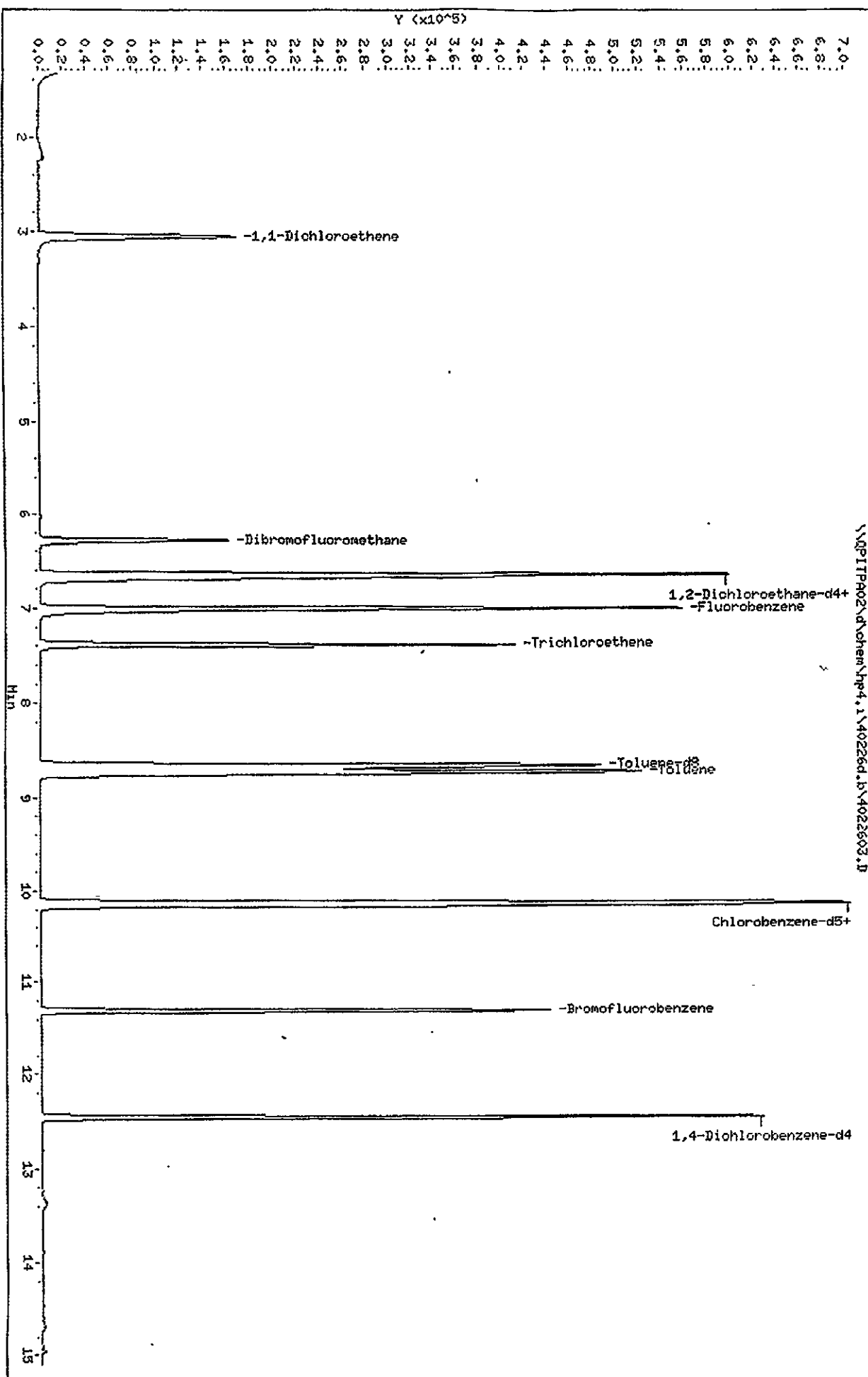
Volume Injected (ul): 5.0

Column phase: DB 624

Instrument: hp4.1

Operator: 16328

Column diameter: 0.18



677 251

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\QPITPA02\d\chem\hp4.i\40226d.b\4022603.D
Lab Smp Id: vstd50
Inj Date : 26-FEB-2001 07:27
Operator : 16328
Smp Info : blk ms 5ml
Misc Info : vstd50 ,40226d.b,8260bh2o.M,
Comment :
Method : \\QPITPA02\D\chem\hp4.i\40226d.b\8260bh2o.m
Meth Date : 26-Feb-2001 07:25 dudeck Quant Type: ISTD
Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: QPITPA02

K₂ 2/26/01

Compound Sublist: 6-br.sub

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7 007	7.003	(1.000)	697020	250 000		
* 69 Chlorobenzene-d5	119	10.128	10.124	(1.000)	136102	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.454	(1.000)	201884	250 000		
\$ 39 Dibromofluoromethane	113	6 289	6.285	(0.898)	129301	246 485	49.30	
\$ 43 1,2-Dichloroethane-d4	65	6 691	6.687	(0.955)	142639	231 762	46.35	
\$ 59 Toluene-d8	98	8.655	8.652	(0.855)	619273	241 913	48 38	
\$ 80 Bromofluorobenzene	95	11.308	11.304	(1.117)	212066	239 895	47.98	
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.			
12 1,1-Dichloroethene	96	3 053	3.031	(0.436)	114569	230 545	46 11	
13 Acetone	43				Compound Not Detected.			
15 Carbon Disulfide	76				Compound Not Detected.			
18 Methylene Chloride	84				Compound Not Detected.			

677 252

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				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.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78	6.648	6.644	(0.949)	692603	264.114	52.82
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130	7.384	7.381	(1.054)	161904	274.650	54.93
49 1,2-Dichloropropane	63				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected.		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91	8.722	8.725	(0.861)	700638	262.971	52.59
61 trans-1,3-Dichloropropene	75				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.		
70 Chlorobenzene	112	10.152	10.155	(1.002)	415196	266.057	53.21
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.		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
91 1,3-Dichlorobenzene	146				Compound Not Detected.		
93 1,4-Dichlorobenzene	146				Compound Not Detected.		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

677 253

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

Matrix: (soil/water) WATER Lab Sample ID: C1B280000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 02/19/01
Work Order: DWPQV1AC Date Extracted: 02/28/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

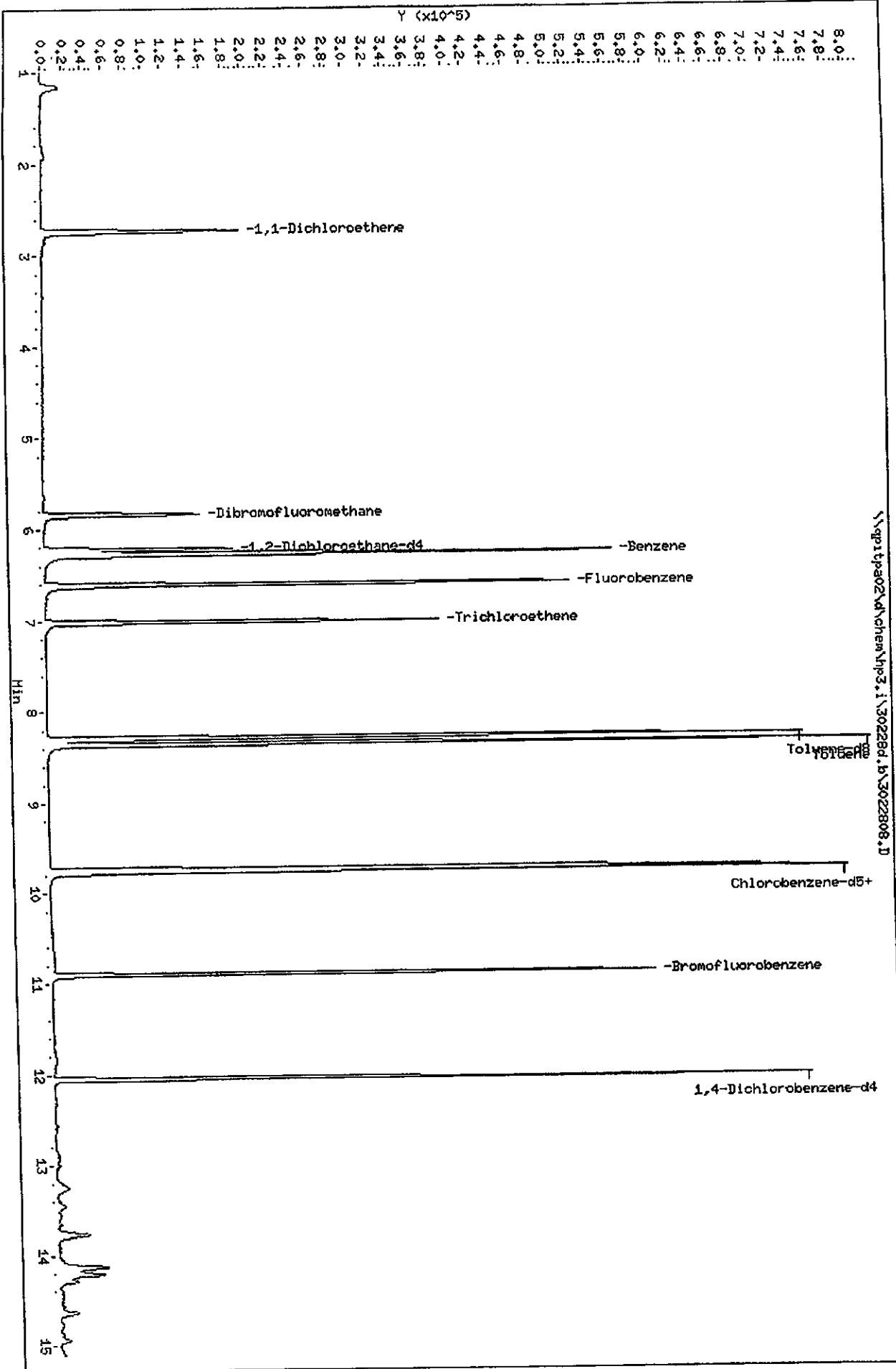
QC Batch: 1059185

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-43-2	Benzene	46.9	
108-90-7	Chlorobenzene	45.6	
75-35-4	1,1-Dichloroethene	56.8	
108-88-3	Toluene	46.5	
79-01-6	Trichloroethene	59.6	

Data File: \\p1tpa02\chem\hp3.1\30228d.b\3022808.D
 Date: 28-FEB-2001 11:39
 Client ID:
 Sample Info: BLANK HS BHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp3.1
 Operator: 10099
 Column diameter: 0.18



677 255

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30228d.b\3022808.D

Lab Smp Id:

Inj Date : 28-FEB-2001 11:39

MS Autotune Date: 08-AUG-2000 16:28

Operator : 10099

Inst ID: hp3.i

Smp Info : BLANK MS SML

Misc Info : ,30228d.b,8260bh2o.m,1-tcl.sub

Comment :

Method : \\QPITPA02\D\chem\hp3.i\30228d.b\8260bh2o.m

Meth Date : 28-Feb-2001 07:14 gordonk

Quant Type: ISTD

Cal Date : 20-FEB-2001 23:26

Cal File: 1E30220P.D

Als bottle: 11

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 4.04

Processing Host: PITPC076

Compound Sublist: 1-tcl.sub

KLG
2/28/01

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	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.611	6.609	(1.000)	457504	250.000	
* 69 Chlorobenzene-d5	119	9.738	9.736	(1.000)	119273	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.056	12.053	(1.000)	193836	250.000	
\$ 39 Dibromofluoromethane	113	5.845	5.842	(0.884)	105084	233.283	46.66
\$ 43 1,2-Dichloroethane-d4	65	6.222	6.219	(0.941)	130151	211.869	42.37
\$ 59 Toluene-d8	98	8.296	8.294	(0.852)	475610	252.969	50.59
\$ 80 Bromofluorobenzene	95	10.906	10.904	(1.120)	195415	238.327	47.66
1 Dichlorodifluoromethane	85				Compound Not Detected.		
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.		
12 1,1-Dichloroethene	96	2.742	2.727	(0.415)	90811	283.946	56.79
15 Carbon Disulfide	76				Compound Not Detected		
13 Acetone	43				Compound Not Detected		

677 256

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.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				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.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78	6.277	6.274	(0.949)	473493	234.383	46.88
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130	7.019	7.016	(1.062)	133400	298.060	59.61
49 1,2-Dichloropropane	63				Compound Not Detected.		
50 Dibromomethane	93				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected.		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91	8.363	8.361	(0.859)	541541	232.702	46.54
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
64 1,1,2-Trichloroethane	97				Compound Not Detected.		
65 Tetrachloroethene	164				Compound Not Detected.		
66 2-Hexanone	43				Compound Not Detected.		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected.		
70 Chlorobenzene	112	9.762	9.760	(1.002)	376129	227.862	45.57
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.		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
91 1,3-Dichlorobenzene	146				Compound Not Detected.		
93 1,4-Dichlorobenzene	146				Compound Not Detected.		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		

677 257

GC/MS VOLATILE
MISCELLANEOUS

Method	Standard	Standard	Inst ID	Analyst	Reviewed by	Date
82600	192-199-4 BFB	192-199-3 Sw	HP-4	KLD		
Date	File ID	Lot No./Sample No.	Vol/Wt	pH	Port #	Comments
1/23/01	1. BF40123	DEF	1.2			1014
	2. 1A40123	VSDS	5.2			
	3. 1B40123	VSD20	5.2			
	4. 1C40123	VSD50	5.2			
	5. 1D40123	VSD100	5.2			
	6. 1E40123	VSD200	5.2			
	7. 1F40123	VBLK	5.2			
	8. 2B40123	VBLK	5.2			
	9. 2A40123	VSDS	5.2			
	10. 4012301	CCV	5.2			Andon 5.2 unballd
	11. 4012302	VBLK	5.2			
	12. 4012303	IDC	5.2			
	13. 4012304	IDC	5.2			
	14. 4012305	IDC	5.2			
	15. 4012306	IDC	5.2			
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

STL - Pittsburgh

GCMS Volatile Run Log

Logbook ID: MV4

Method	Standard	Inst ID	Analyst	Reviewed By	Date
824013	085-003-1 AK13	HP3	1211		
Standard	Standard	Standard	Standard	Standard	Standard
85003-3	085-002-5	8240514			
Date	File ID	Lot No./Sample No	Vol/Wt.	pH	Port #
2/26/01	1 AK30220A	B/B	13.193		16.54
	2 AC30220P	V57050	5 ml		
	3 IC30220P	V57050	5 ml		
	4 AK30220P	V57050 P112/20/01	5 ml		
	5 2A30220P	V57050	5 ml		
	6 IB30220P	V57070	5 ml		
	7 ID30220P	V57100	5 ml		
	8 IE30220P	V57120	5 ml		2320
	9.				
	10.	1 SC00015			
	11				
	12				
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	16				
	17				
	18				
	19				
	20				
	21				
	22				

AK
21.101

Method:	Inst ID:	Analyst:	Reviewed by:	Date:		
8260D	HP-4	KL				
Standard:	Standard:	Standard:	Standard:			
YS-003-1 BFB	YS-003-4 SWR	YS-003-1 MS				
Standard:	Standard:	Standard:	Standard:			
YS-003-3 INT	YS-003-5 VFA					
Date	File ID	Lot No./Sample No.	Vol/WtL	pH	Port #	Comments
12/26/01	1 BFB40226	BFB	1ul			S17
	2 CC40226	V57055	5ul			
	3 4022601	VBLK	100ul(4g/10ul) 5ul			
	4 4022602	VBLK	5ul			105714F
	5 4022603	BULKMS	5ul			
	6 4022604	C1B220105-002	5ul	1		
	7 4022605	-002 MS	5ul	1		
	8 4022606	-002 MUD	5ul	1		
	9 4022607	-001	5ul	1		
	10 4022608	VBLK	5ul			
	11 4022609	BLK MS	100ul(4g/10ul) 5ul			
	12 4022610	C1B230228-003	5ul	1		
	13 4022611	C1B210267-001	100ul(4g/10ul) 5ul			
	14 4022612	-001 MS	100ul(4g/10ul) 5ul			
	15 4022613	-001 MUD	100ul(4g/10ul) 5ul			
	16 4022614	C1B220230-001	(1ul/10ul) 5ul	1		to dilute Run at 10x
	17 4022615	C1B230145-001	(1ul/10ul) 5ul	1		to dilute Run at 50x
	18 4022616	-002	(1ul/10ul) 5ul	1		Need 5x
	19 4022617	VBLK	5ul			
	20 4022618	C1B230118-001	(1ul/5ul) 5ul	1		
	21 4022619	-002	1	1		
	22 4022620	-003	1	1		to dilute Run at 5x

Method:

82603

Inst ID:

112-4

Analyst:

K_u

Reviewed by:

Date

Standard:

Standard:

Standard

Standard:

Standard:

Standard:

Standard

Standard

Standard:

Standard:

Date

File ID

Lot No./Sample No.

Vol./mL

pH

Port #

Comments

2/24/01

1. 4022621

C10220250-001

(1.0/10.0) 5.0

1

too dilute run str.

2.

4022622

C10220250-001

(1.0/10.0) 5.0

1

3.

4022623

C10220250-001

5.0

1

4.

4022624

-002

5.0

1

5.

4022625

-003

5.0

1

1712

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

K_u 2/24/01

Method:

9260B

Inst ID:

HP3

Analyst:

KLG

Reviewed by:

Date:

Standard:

85-003-1BFB

Standard:

85-001-1MS

Standard:

85-002-SV04

Standard:

85-003-3Int

Standard:

85-003-4Sum

Standard

Standard

Standard

Standard

Standard

Date	File ID	Lot No / Sample No.	Vol/Wt	pH	Port #	Comments
2/28/01	1- BF30228	BFB	1 µl			0549
2- 1C30228	MSD50		5ml			
3- MB30228	NBL		100 µl 5ml			
4- 3022801	Blank MS		100 µl 5ml			
5- 3022802	Blank MS		100 µl 5ml			
6- 3022803	CI B220151-001		100 µl (5 µl 20 µl 5ml) 5ml			
7- 3022804	NBL		5ml			
8- 3022805	CI B191008-001		5ml	7		
9- 3022806	Blank MS		5ml			balls
10- 3022807	CI B230228-001		5ml			
11- 3022808	Blank MS		5ml			
12- 3022809	CI B230228-001 MS		5ml			
13- 3022810	CI B230228-001 MSD		5ml			
14- 3022811	CI B230148-003		100 µl 5ml			
15- 3022812	CI B230221-018		5ml			
16- 3022813	CI B240128-001		5ml			
17						
18						
19						
20						
21						
22						

REQUESTED BY: GORDONK

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

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
3A	DWJJM-1-AA	— — —	315510	399411	I-15-QK	C1B230148	001	✓	WATER	0 13	1
3A	DWJJ3-1-AM	— — —	315511	399411	I-15-QK	C1B230148	002	✓	WATER	0 13	1
3A	DWJKC-1-AM	— — —	315512	399411	I-15-QK	C1B230148	003	✓	WATER	0 13	1

RELINQUISHED BYRECEIVED BYDATE/TIME

<u>Mr.</u>	<u>Kate Dell</u>	<u>2/24/01 0530</u>
<u>Kate Dell</u>	<u>Mr.</u>	<u>2/24/01 1430</u>
<u>NJO</u>	<u>Kathryn Gordon</u>	<u>2/28/01 0730</u>
<u>Kathryn Gordon</u>	<u>NJO</u>	<u>2/28/01 1300</u>

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

677 264

GC/MS SEMIVOLATILE DATA

677 265

7

GC/MS SEMIVOLATILE
QC SUMMARY

677 266

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1053/IDW/001	1.3*	0.0*	1.9*	588*	87	14	04
02	DF/24-A/1053/IDW/002	1.0*	0.0*	0.0*	36	72	9.1*	04
03	DF/24-A/1053/IDW/003	48	51	46	53	76	26	00
04	METHOD BLK. DWM121AA	51	55	51	61	62	80	00
05	LCS DWM121AC	68	64	66	76	82	83	00
06	LCSD DWM121AD	67	62	67	76	84	83	00

SURROGATES

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

QC LIMITS

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

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B270000

WO #: DWM121AC

BATCH: 1058102

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	50.4	67	10 - 131	
2-Chlorophenol	75.0	56.7	76	19 - 124	
1,4-Dichlorobenzene	50.0	37.2	74	28 - 110	
1,2,4-Trichlorobenzene	50.0	37.7	75	31 - 110	
4-Chloro-3-methylphenol	75.0	54.6	73	29 - 124	
N-Nitrosodi-n-propylamine	50.0	36.0	72	30 - 115	
Acenaphthene	50.0	38.7	77	39 - 118	
4-Nitrophenol	75.0	50.8	68	19 - 144	
2,4-Dinitrotoluene	50.0	36.3	73	47 - 131	
Pentachlorophenol	75.0	52.1	69	10 - 140	
Pyrene	50.0	40.5	81	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

677 268

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B270000

WO #: DWM121AD

BATCH: 1058102

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	51.4	69	10 - 131	
2-Chlorophenol	75.0	58.2	78	19 - 124	
1,4-Dichlorobenzene	50.0	38.5	77	28 - 110	
N-Nitrosodi-n-propylamine	50.0	35.9	72	30 - 115	
1,2,4-Trichlorobenzene	50.0	38.8	78	31 - 110	
4-Chloro-3-methylphenol	75.0	54.2	72	29 - 124	
Acenaphthene	50.0	39.2	78	39 - 118	
4-Nitrophenol	75.0	50.3	67	19 - 144	
2,4-Dinitrotoluene	50.0	36.3	73	47 - 131	
Pentachlorophenol	75.0	49.0	65	10 - 140	
Pyrene	50.0	41.1	82	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

DWM121AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: F0228050.

Lot Number: C1B230148

Date Analyzed: 02/28/01

Time Analyzed: 21:31

Matrix: WATER

Date Extracted: 02/26/01

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/1053/IDW/001	DWJJM1AC	F0228054.	02/28/01	23:44
02	DF/24-A/1053/IDW/002	DWJJ31AN	F0228055.	03/01/01	00:18
03	DF/24-A/1053/IDW/003	DWJKC1AN	F0228056.	03/01/01	00:51
04	CHECK SAMPLE	DWM121AC C	F0228051.	02/28/01	22:05
05	DUPLICATE CHECK	DWM121AD L	F0228052.	02/28/01	22:38
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30					

COMMENTS:

5B **677 270**
 SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Lab File ID: F0226DF2

DFTPP Injection Date: 02/26/01

Instrument ID: 722

DFTPP Injection Time: 1046

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

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F02260C2	02/26/01	1104
02	SSTD020	SSTD020	F02260C3	02/26/01	1147
03	SSTD080	SSTD080	F02260C4	02/26/01	1221
04	SSTD120	SSTD120	F02260C5	02/26/01	1254
05	SSTD160	SSTD160	F02260C6	02/26/01	1328
06					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

677 271

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.

015030148

Lab File ID: F0228DFN

DFTPP Injection Date: 02/28/01

Instrument ID: 722

DFTPP Injection Time: 2008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	3.82
441	Present, but less than mass 443	10.2
442	40.0 - 100.0% of mass 198	62.8
443	17.0 - 23.0% of mass 442	12.0 (19.2)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	F02280CN	02/28/01	2058
02	INTRA-LAB BL	DWM121AA	F0228050	02/28/01	2131
03	INTRA-LAB CH	DWM121AC	F0228051	02/28/01	2205
04	INTRA-LAB CH	DWM121AD	F0228052	02/28/01	2238
05	DF/24-B/1053	DWJJM1AC	F0228054	02/28/01	2344
06	DF/24-A/1053	DWJJ31AN	F0228055	03/01/01	0018
07	DF/24-A/1053	DWJKC1AN	F0228056	03/01/01	0051
08					
09					
10					
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13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

677 272

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C18230148

Lab File ID (Standard): F02280CN

Date Analyzed: 02/28/01

Instrument ID: 722

Time Analyzed: 2058

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	172771	5.17	637392	6.73	351161	9.81
UPPER LIMIT	345542	5.67	1274784	7.23	702322	10.31
LOWER LIMIT	86386	4.67	318696	6.23	175581	9.31
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	213418	5.18	805500	6.74	459257	9.82
02 INTRA-LAB CH	191146	5.18	702702	6.74	413112	9.82
03 INTRA-LAB CH	185425	5.18	666365	6.74	395935	9.82
04 DF/24-B/1053	188601	5.19	722748	6.76	2017*	10.00
05 DF/24-A/1053	183814	5.18	690066	6.75	168697*	9.83
06 DF/24-A/1053	196688	5.18	714670	6.74	426533	9.84
07						
08						
09						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

677 273

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1823048

Lab File ID (Standard): F02280CN

Date Analyzed: 02/28/01

Instrument ID: 722

Time Analyzed: 2058

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	640090	13.13	709036	19.79	629475	23.16
UPPER LIMIT	1280180	13.63	1418072	20.29	1258950	23.66
LOWER LIMIT	320045	12.63	354518	19.29	314738	22.66
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	816712	13.14	810252	19.79	736159	23.17
02 INTRA-LAB CH	759229	13.14	816442	19.80	750406	23.17
03 INTRA-LAB CH	738875	13.14	782979	19.80	707525	23.17
04 DF/24-B/1053	775793	13.16	555909	19.84		
05 DF/24-A/1053	818218	13.17	1144952	19.84		
06 DF/24-A/1053	821455	13.17	1195887	19.84	1323643*	23.22
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22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

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GC/MS SEMIVOLATILE
SAMPLE DATA

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

Matrix: (soil/water) WATER Lab Sample ID: C1B230148 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 02/23/01
Work Order: DWJMJAC Date Extracted: 02/26/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

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	380	
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJMIAC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	130	
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	6.4	J
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

FORM I

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJM1AC

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-B/1053/IDW/001

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

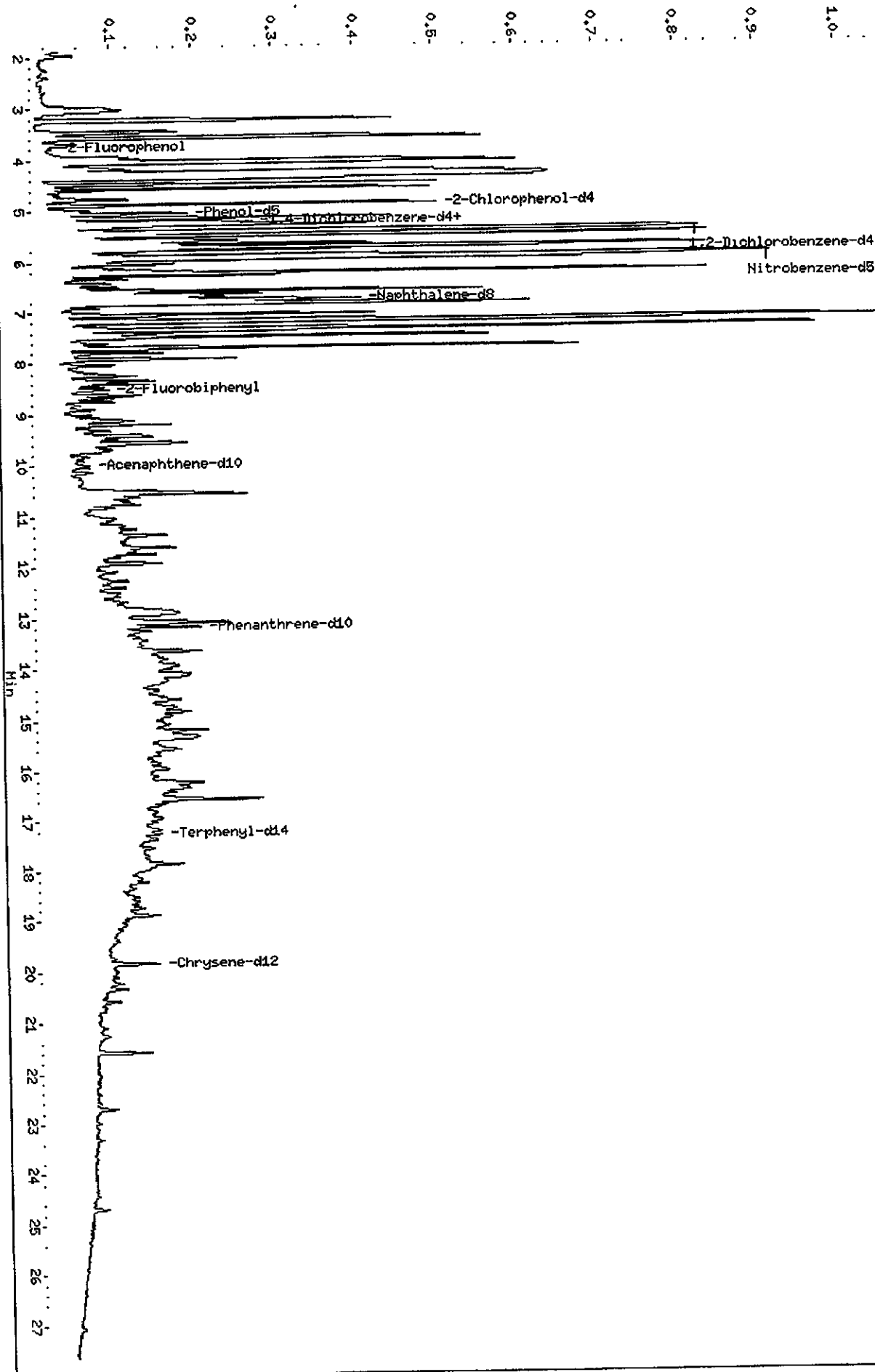
677 273

Y (x10⁷)

Data File: \\QPIITP002\chem\722.1\022801n.b\F0228054.D
 Date: 28-FEB-2004 23:44
 Client ID: DF/24-B/1053/IDM/00
 Sample Info: C18230148-001 2/26/01 h2o (1058102)
 Volume Injected (uL): 2.0
 Column phase: HPS-HS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPIITP002\chem\722.1\022801n.b\F0228054.D



Data File: \\QPITPA02\d\chem\722.i\022801n.b\F0228054.D
Report Date: 02-Mar-2001 12:33

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228054.D
Lab Smp Id: DWJJM1AC Client Smp ID: DF/24-B/1053/IDW/00
Inj Date : 28-FEB-2001 23:44
Operator : 007062 Inst ID: 722.i
Smp Info : C1B230148-001 2/26/01 h2o (1058102)
Misc Info : dwjjmlac,022801n.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.189	5.173	(1.000)	188601	40.0000	(Q)	
* 2 Naphthalene-d8	136	6.755	6.733	(1.000)	722748	40.0000		
* 3 Acenaphthene-d10	164	9.997	9.805	(1.000)	2017	40.0000	(Q)	
* 4 Phenanthrene-d10	188	13.160	13.133	(1.000)	775793	40.0000		
* 5 Chrysene-d12	240	19.837	19.794	(1.000)	555909	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.			

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Data File: \\QPITPA02\d\chem\722.i\022801n.b\F0228054.D
Report Date: 02-Mar-2001 12:33

Page 2

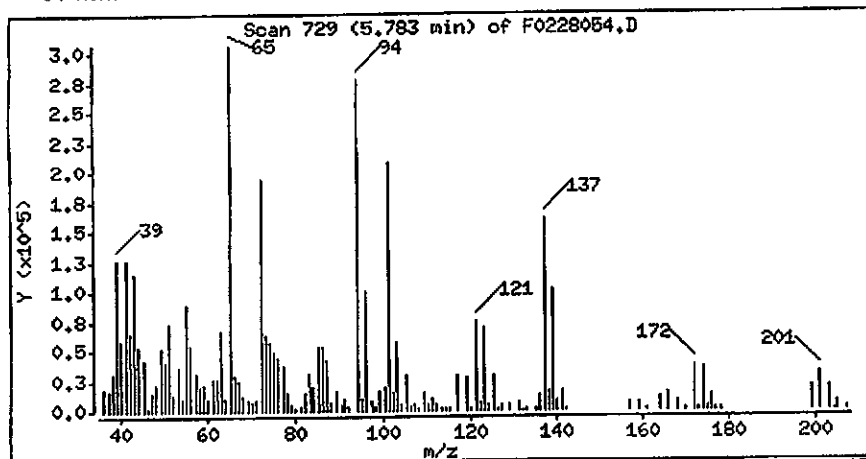
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						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146	5.211	5.189	(1.004)	11372	1.65956	0(830-aQ) <i>< (10)</i>
28 1,2-Dichlorobenzene	146				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	5.782	5.750	(1.114)	34598	12.8079	6.40(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	6.600	6.557	(0.977)	19382	4.04988	2.02(aQ) <i>2.02(aQ) / (10)</i>
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	10.617	10.590	(1.062)	3022	163.185	81-6(aQ) <i>< (10)</i>
92 2-Naphthylamine	143	10.558	10.558	(1.056)	61701	1270.91	635(aQ)
93 Diethylphthalate	149	10.948	10.921	(1.095)	16527	259.636	130(A)
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204	11.028	11.001	(1.103)	24028	766.420	393(AQ)
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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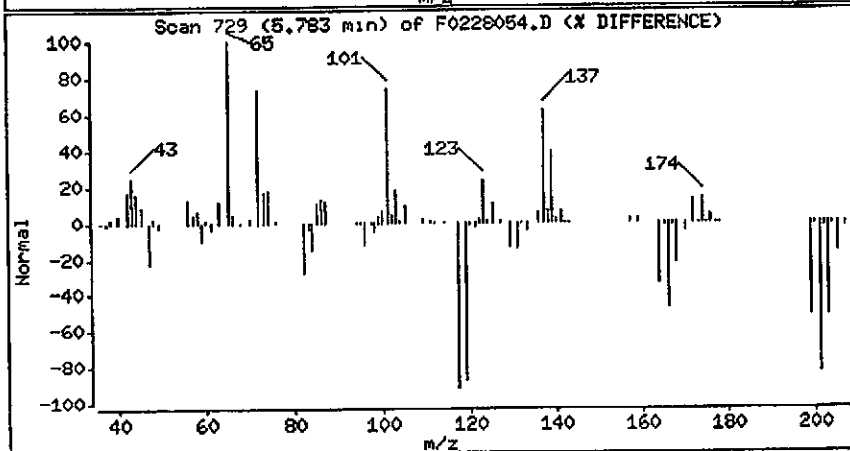
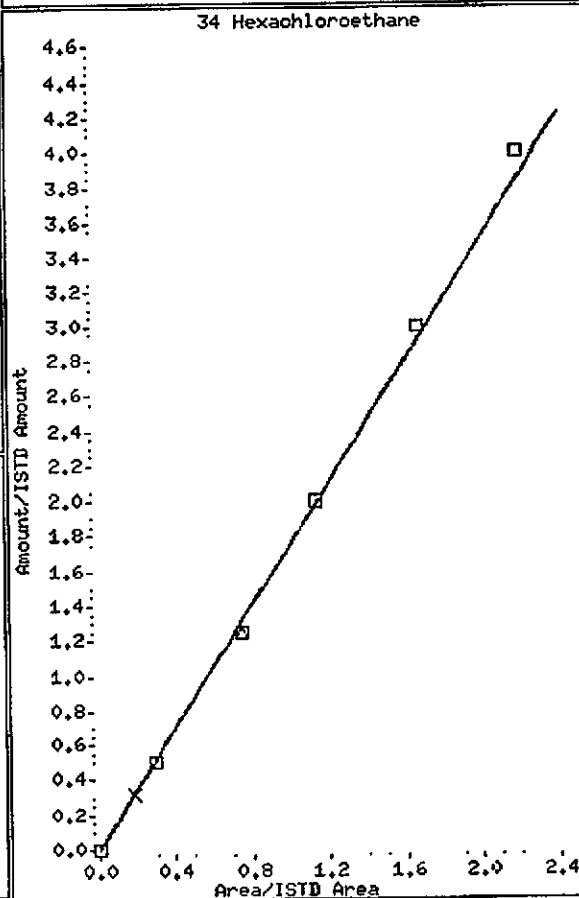
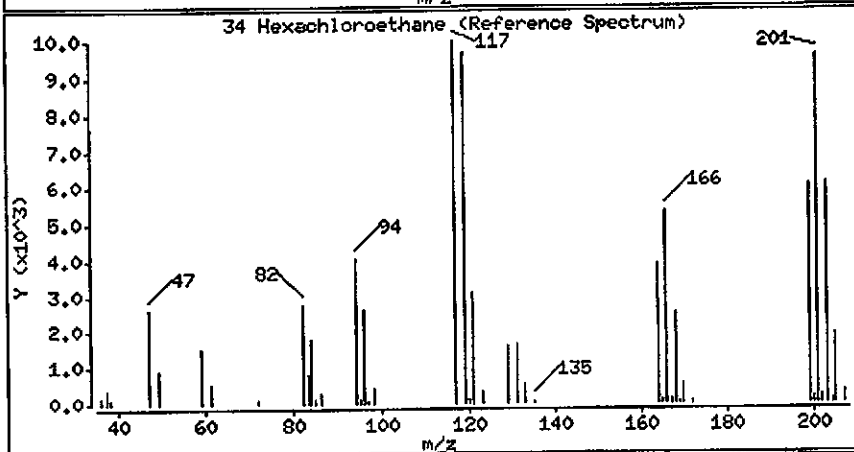
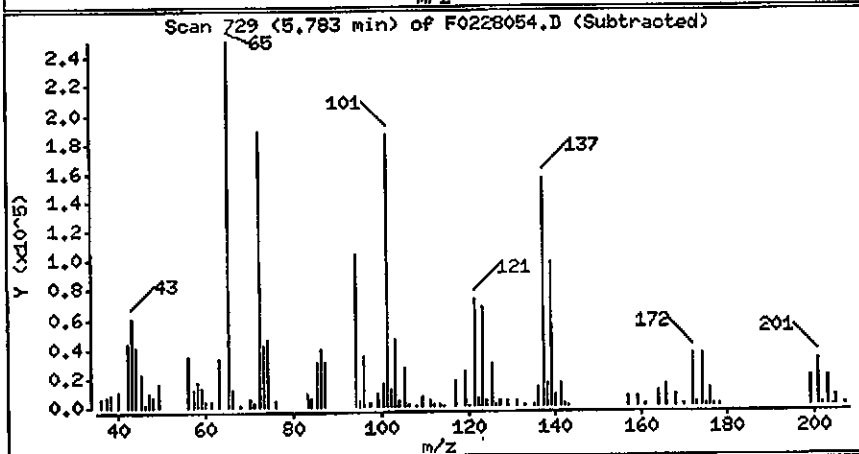
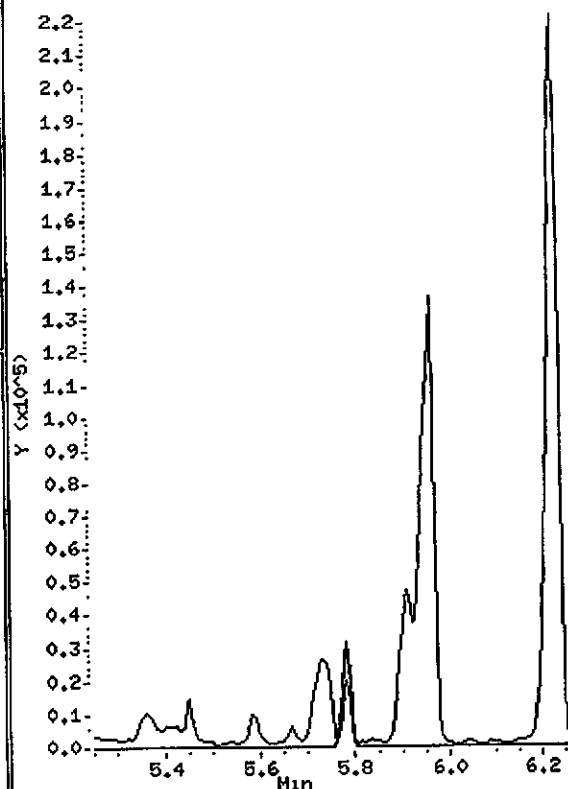
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
106 4-Bromophenyl-phenylether	248				Compound Not Detected		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound 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 Benzdine	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	20.227	20.200	(1.020)	57619	6.46491	3.22 (a) CINDL
140 Di-n-octylphthalate	149	21.825	21.664	(1.000)	2270		tar notable to B calculated 6th 15. MIA
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	5.910	5.835	(0.875)	602782	87.1826	43.6 (Q)
\$ 155 2-Fluorobiphenyl	172	8.512	8.496	(0.851)	34709	588.989	294 (AR)
\$ 156 Terphenyl-d14	244	17.247	17.214	(0.869)	154647	14.2595	7.13 (a)
\$ 157 Phenol-d5	99	5.040	4.847	(0.971)	22749	2.80548	1.40 (aQR)
\$ 158 2-Fluorophenol	112	3.763	3.827	(0.725)	12193	1.98589	0.993 (aQR)
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected		
\$ 186 2-Chlorophenol-d4	132	4.879	4.965	(0.940)	11122	1.82612	0.913 (aQR)
\$ 187 1,2-Dichlorobenzene-d4	152	5.408	5.381	(1.042)	69178	17.6105	8.80 (aQ)

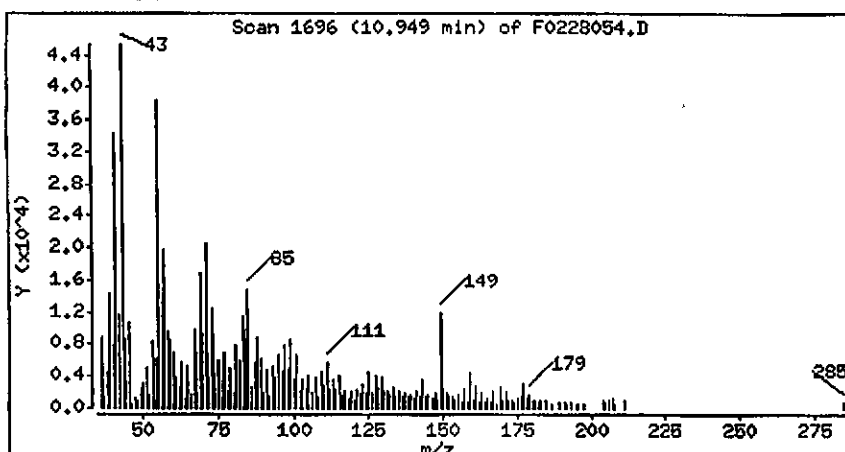
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

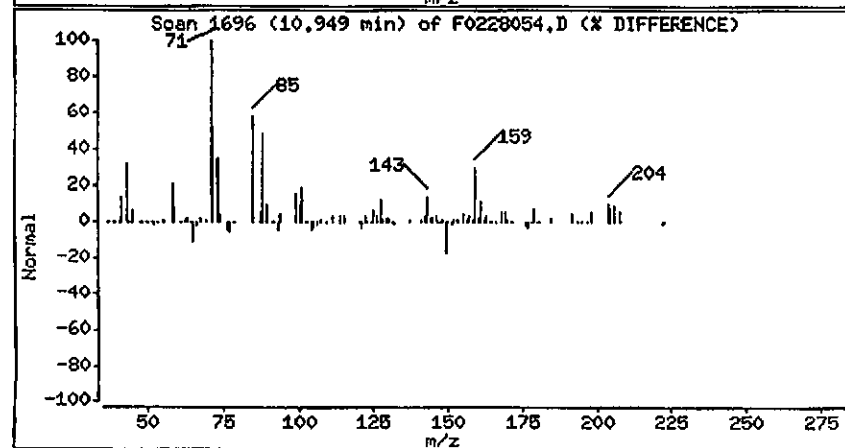
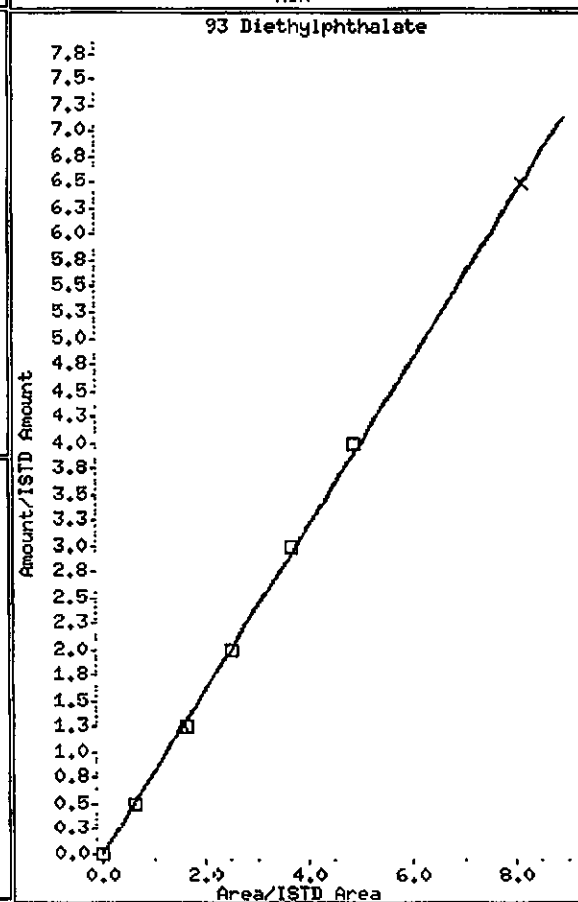
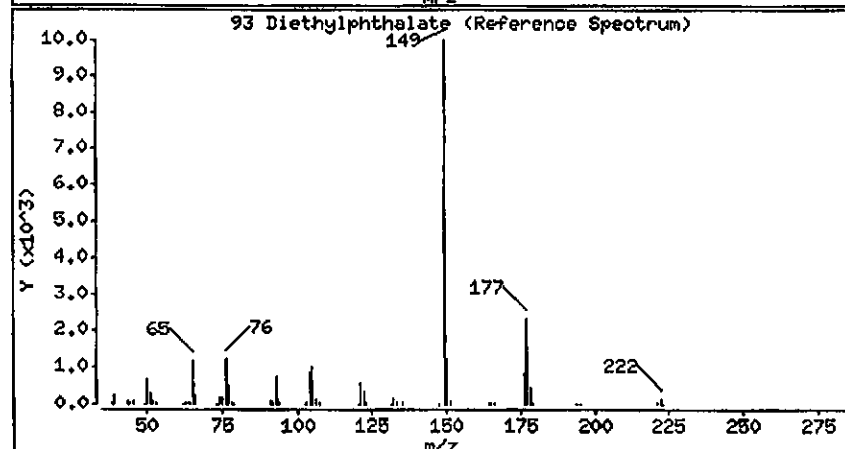
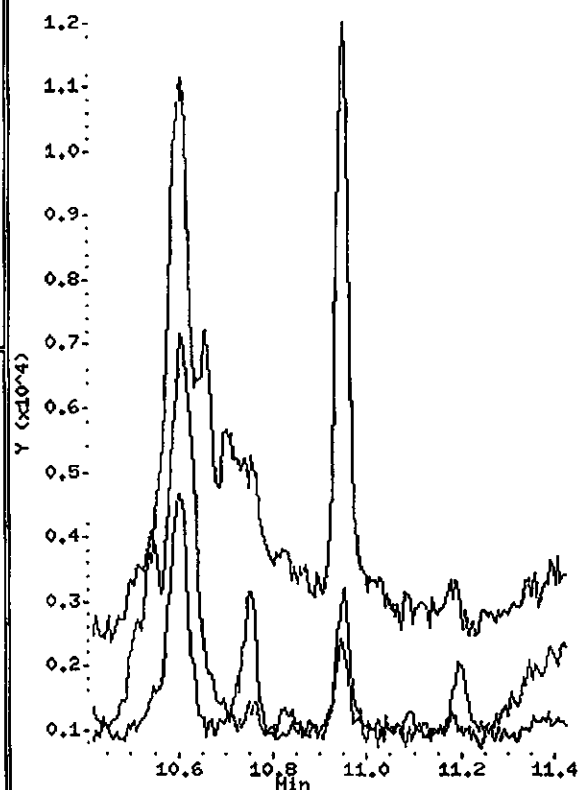
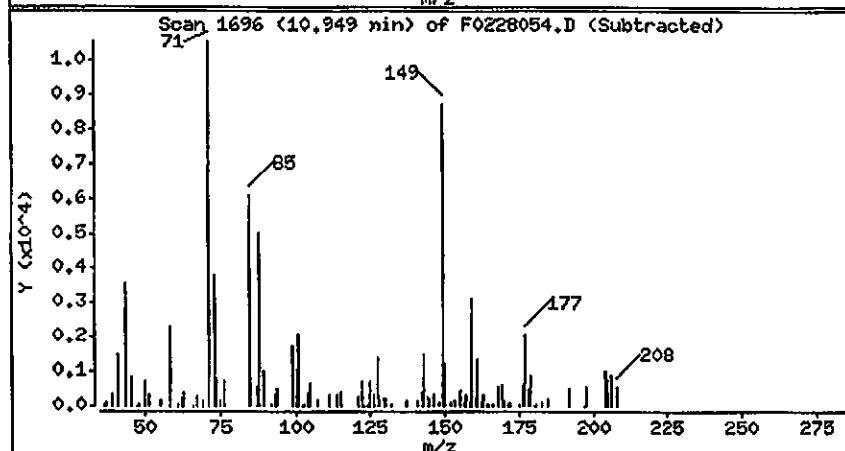


Mass 117.00
Mass 200.60
Mass 199.00



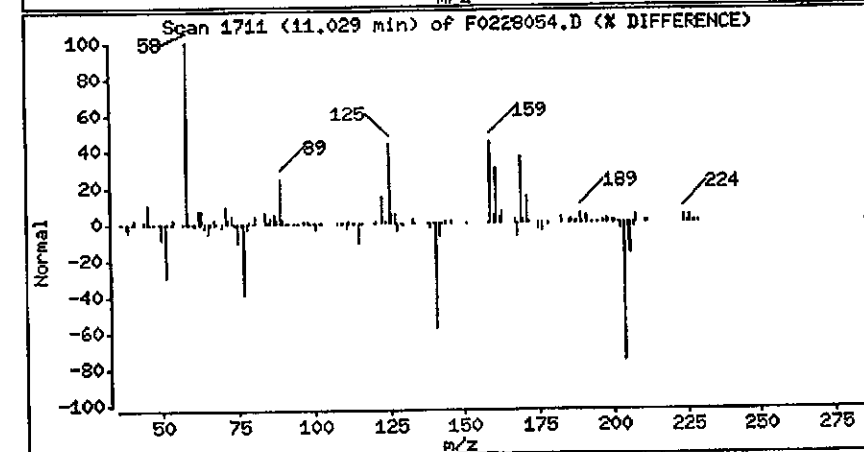
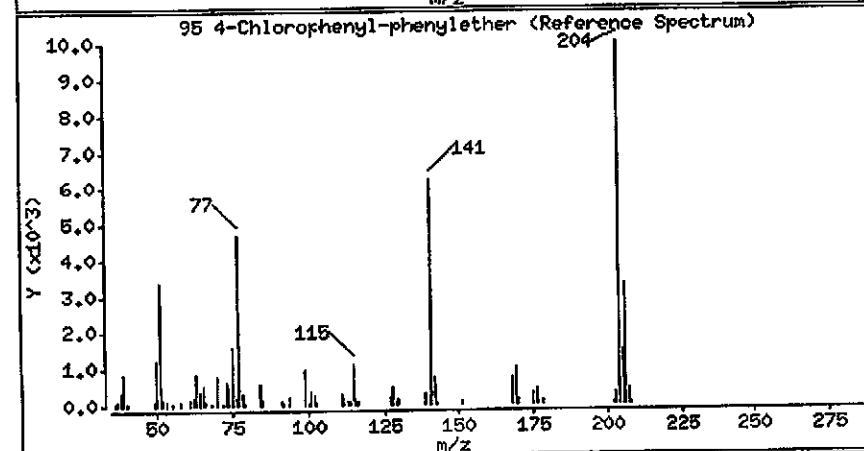
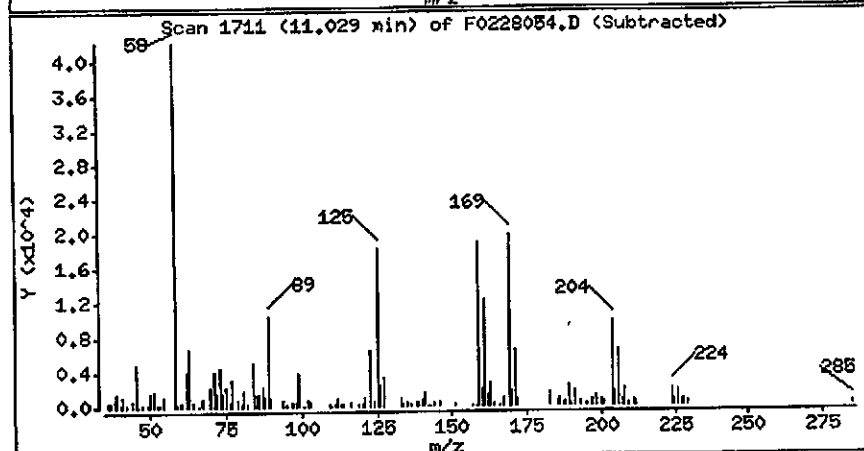
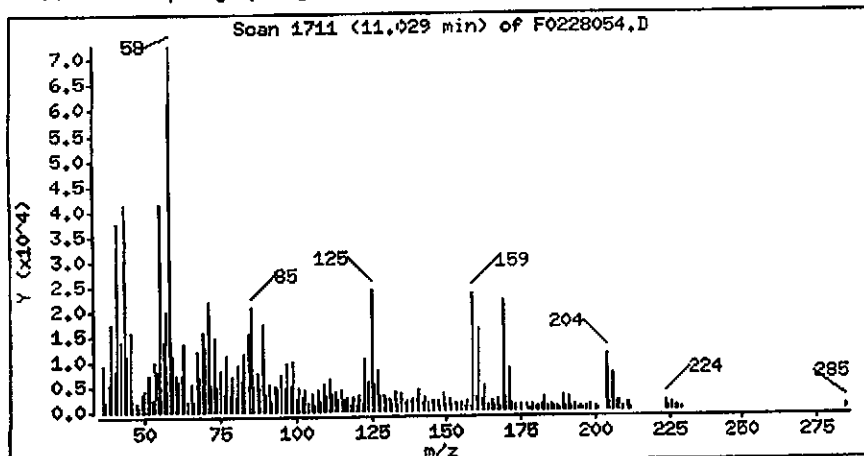


Mass 149.00
Mass 177.00
Mass 150.00



677 284

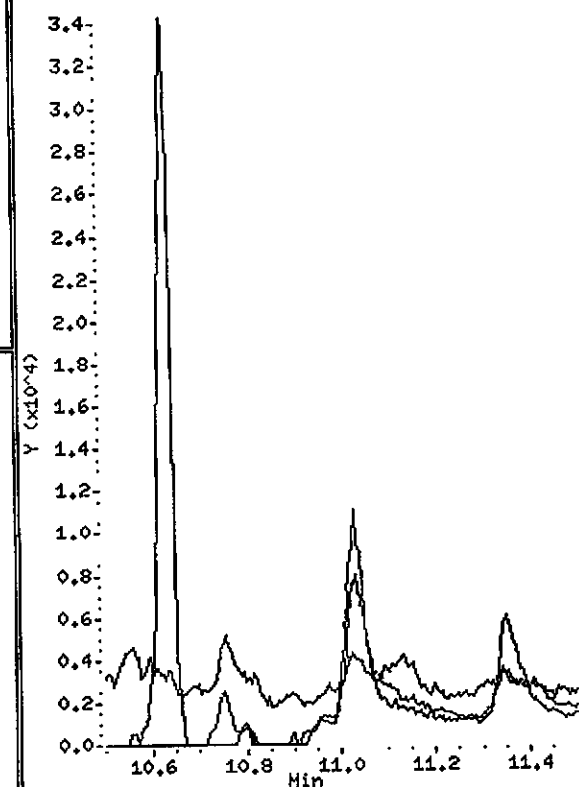
95 4-Chlorophenyl-phenylether



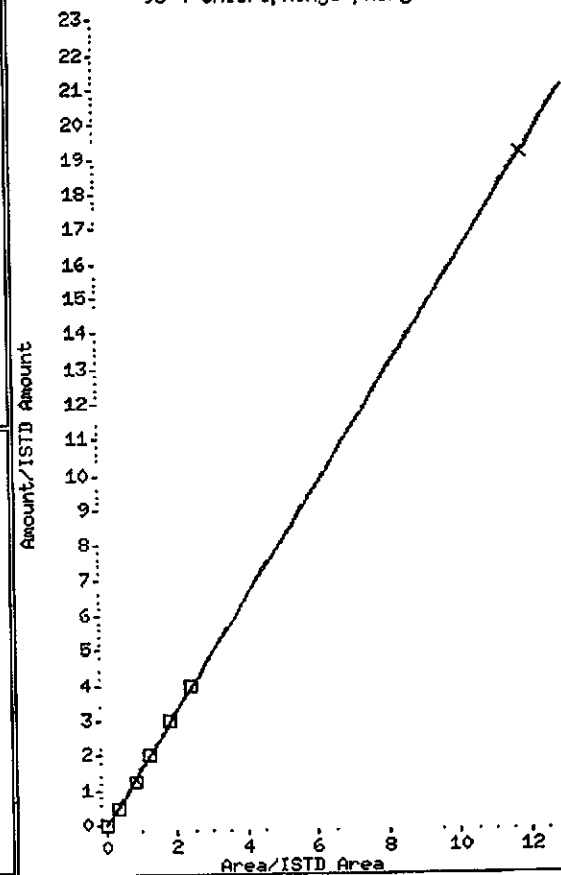
Mass 204.00

Mass 206.00

Mass 141.00



95 4-Chlorophenyl-phenylether



Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	19	
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	8.7	J
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

FORM I

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/002

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

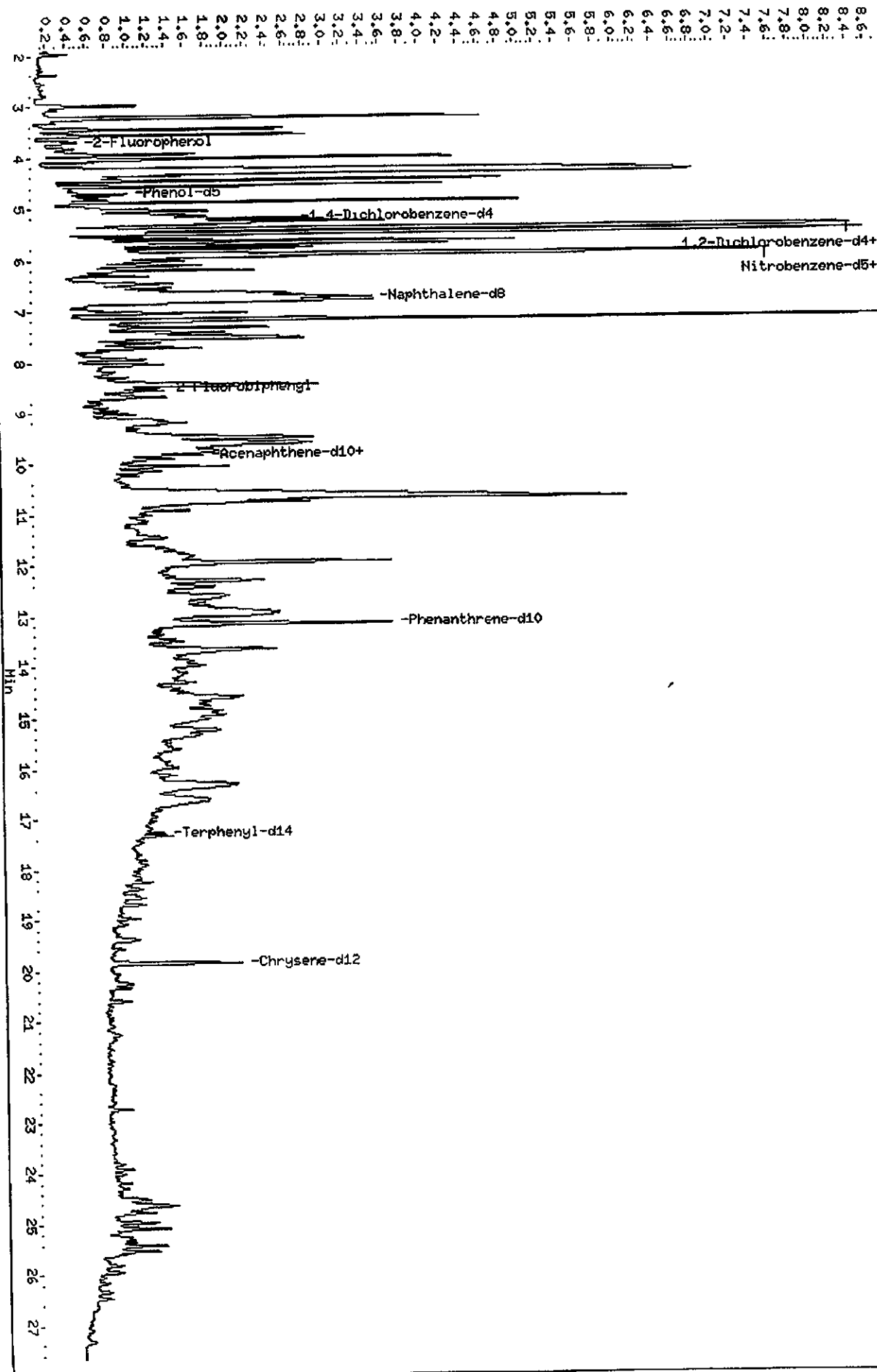
677 288

Y (x10⁶)

Data File: \\QPI1P002\chem\722.1\022801n.b\F0228055.D
 Date: 01-MAR-2001 00:18
 Client ID: DF/24-A/1053/IDM/00
 Sample Info: CIB230148-002 2/26/01 h2o (1058102)
 Volume Injected (uL): 2.0
 Column phase: HP5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPI1P002\chem\722.1\022801n.b\F0228055.D



677 289

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228055.D
Lab Smp Id: DWJJ31AN Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 01-MAR-2001 00:18
Operator : 007062 Inst ID: 722.i
Smp Info : C1B230148-002 2/26/01 h2o (1058102)
Misc Info : dwjj31an,022801n.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

AB
3/2/01

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 (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.184	5.173	(1.000)	183814	40.0000	
* 2 Naphthalene-d8	136	6.749	6.733	(1.000)	690066	40.0000	
* 3 Acenaphthene-d10	164	9.826	9.805	(1.000)	168697	40.0000	
* 4 Phenanthrene-d10	188	13.170	13.133	(1.000)	818218	40.0000	
* 5 Chrysene-d12	240	19.843	19.794	(1.000)	1144952	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.		

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	5.766	5.750	(1.112)	10618	4 03306	2.02(a) < 100
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	6.605	6.557	(0.979)	15101	3.30481	1.65(a) < 100
49 Benzoic Acid	122	6.813	6.455	(1.009)	1310110	472 374	2367(a)
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127	6.835	6.861	(1.013)	246625	37.4895	18.7 (Q)
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	8.394	8.357	(0.854)	3563	2.42281	1.21(a) < 100
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	9.842	9.874	(1.002)	5653	1.27234	0.636(a) < 100
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	10.964	10.921	(1.116)	92241	17 3258	8.66(a)
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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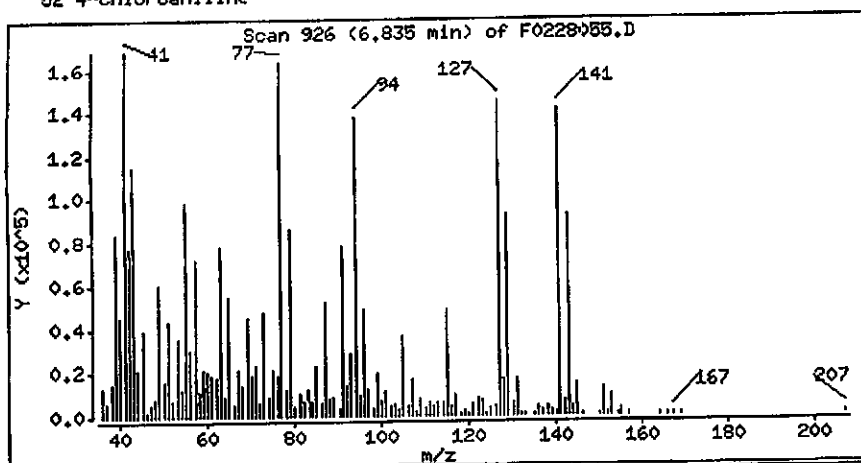
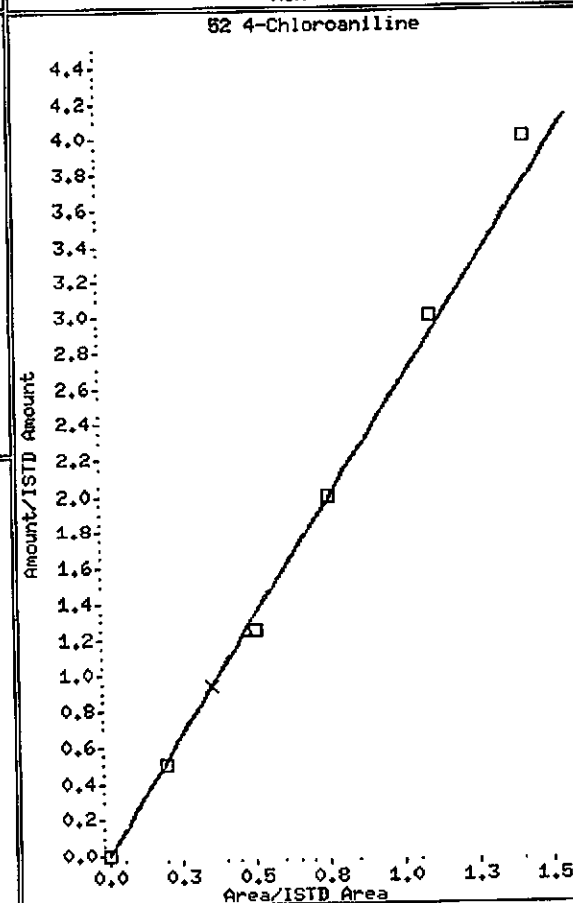
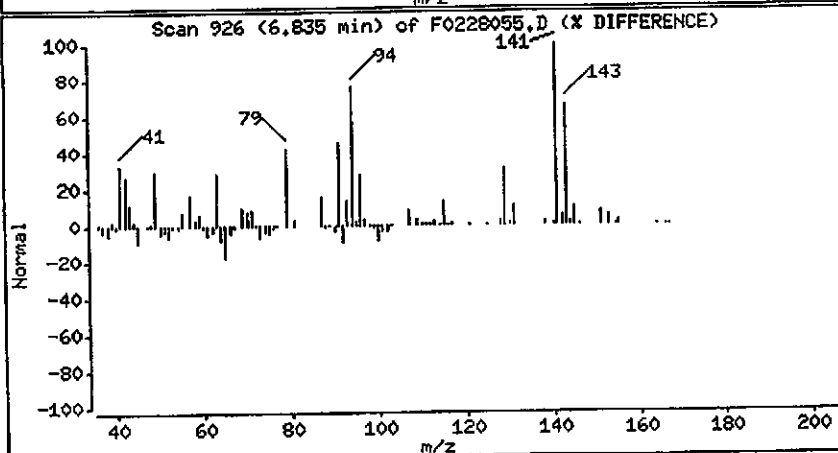
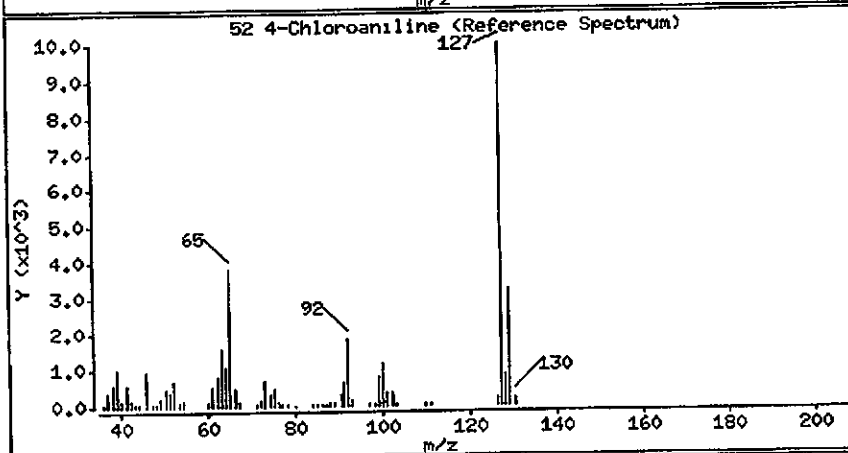
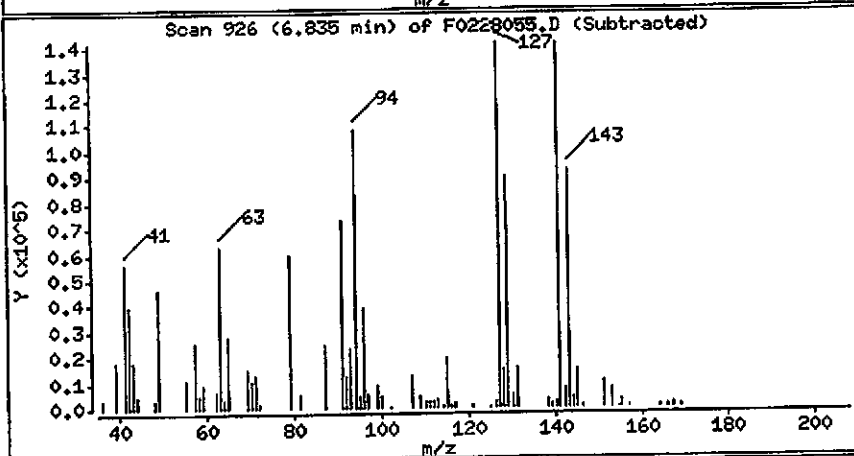
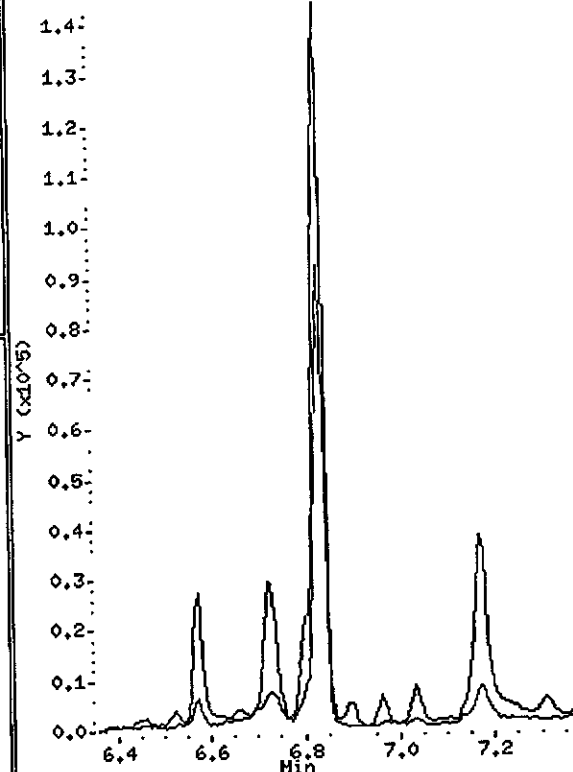
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound 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	20.227	20.200	(1.019)	80395	4.37968	2.19(a)
140 Di-n-octylphthalate	149	21.707	21.664	(1.000)	6726		(a)
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	5.868	5.835	(0.869)	475253	71.9931	36.0
\$ 155 2-Fluorobiphenyl	172	8.512	8.496	(0.866)	175161	35.5386	17.8
\$ 156 Terphenyl-d14	244	17.252	17.214	(0.869)	202528	9.06701	4.53(a)
\$ 157 Phenol-d5	99				Compound Not Detected.		
\$ 158 2-Fluorophenol	112	3.704	3.827	(0.715)	9181	1.53426	0.767(aR)
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected.		
\$ 186 2-Chlorophenol-d4	132				Compound Not Detected.		
\$ 187 1,2-Dichlorobenzene-d4	152	5.414	5.381	(1.044)	73837	19.2860	9.64(aQ)

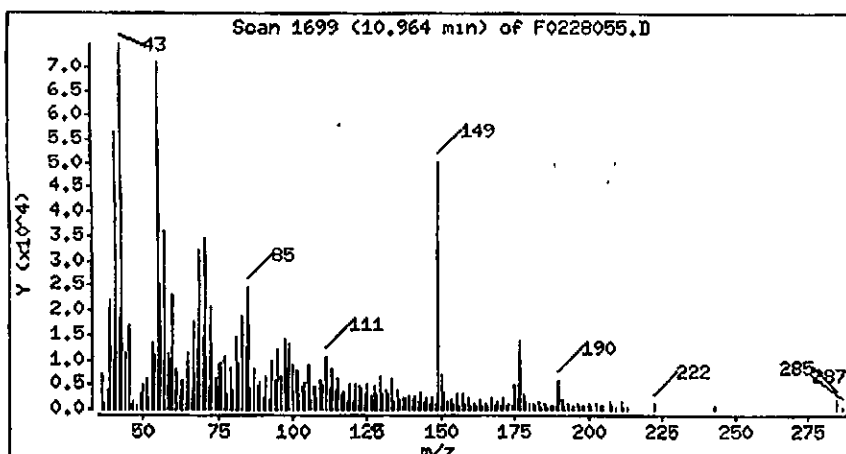
2.19(a) *notable to
be calculated
with I.S.
min*

QC Flag Legend

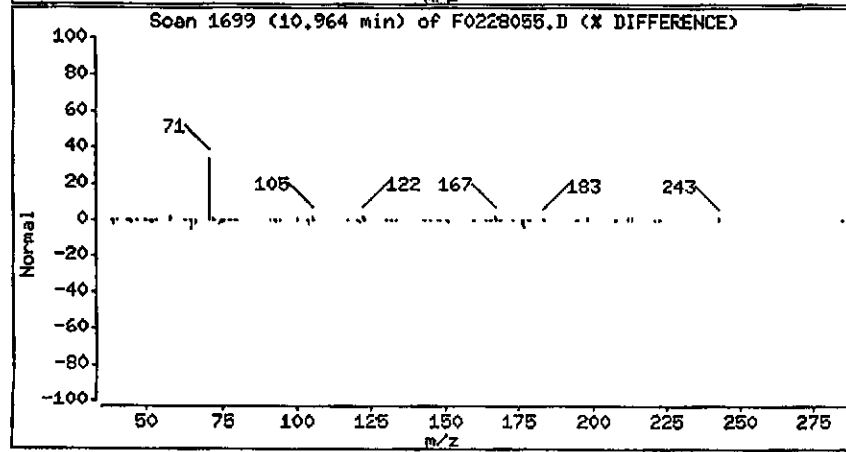
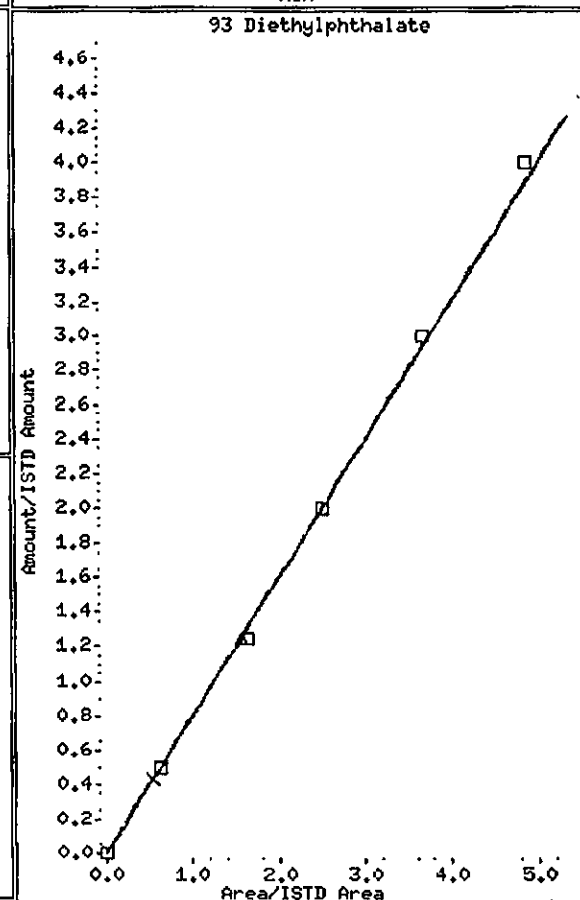
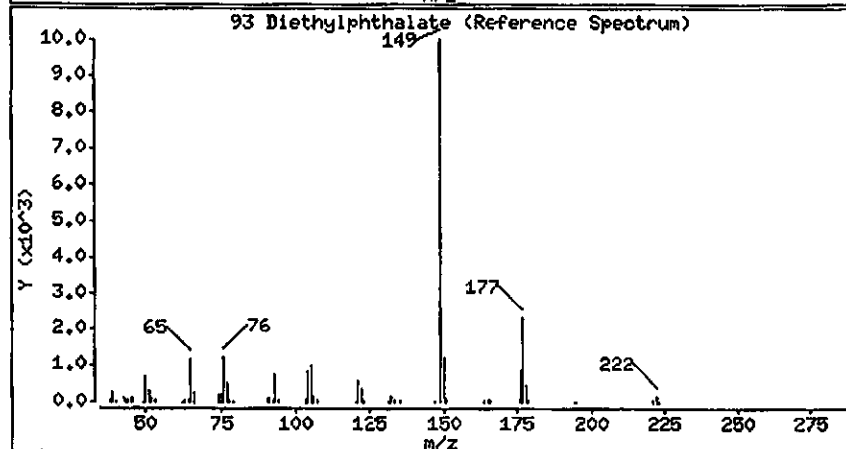
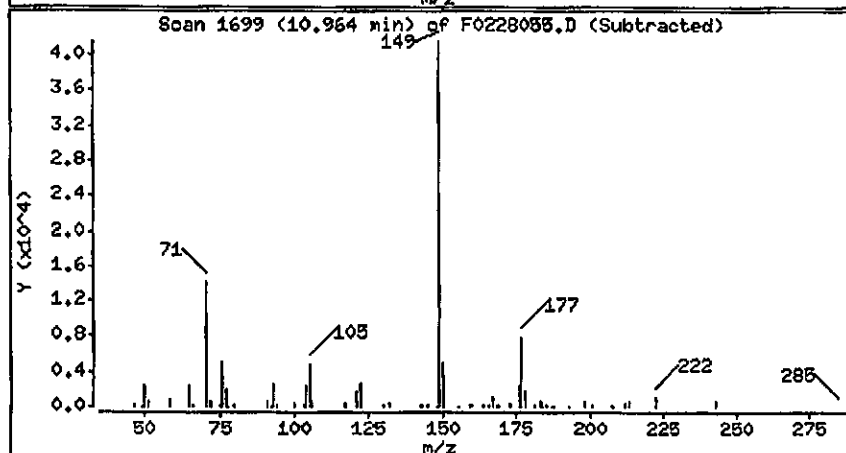
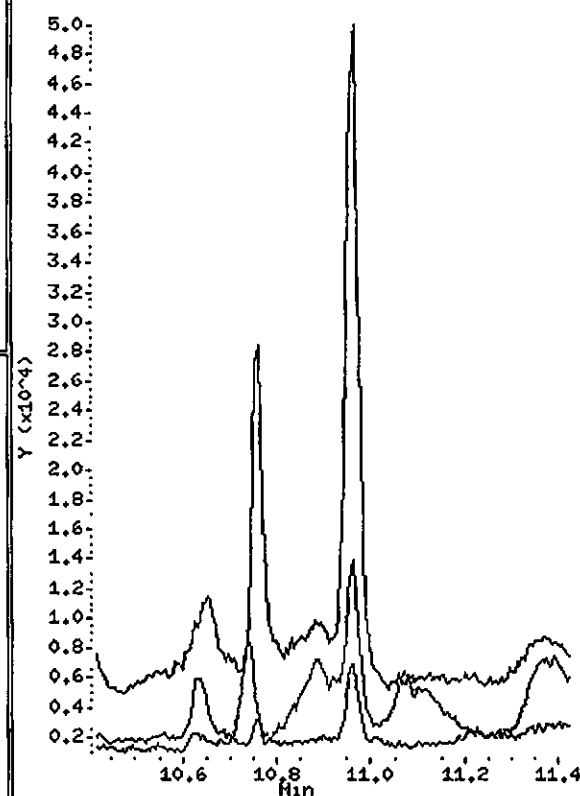
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

52 4-Chloroaniline

Mass 127.00
Mass 129.00



Mass 149.00
Mass 177.00
Mass 150.00



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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKCIAN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	35	
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	13	

FORM I

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKCIAN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-66-2	Diethyl phthalate	5.1	J
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	5.5	J
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

677 296

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKCLAN

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 03/01/01

Moisture %: NA

QC Batch: 1058102

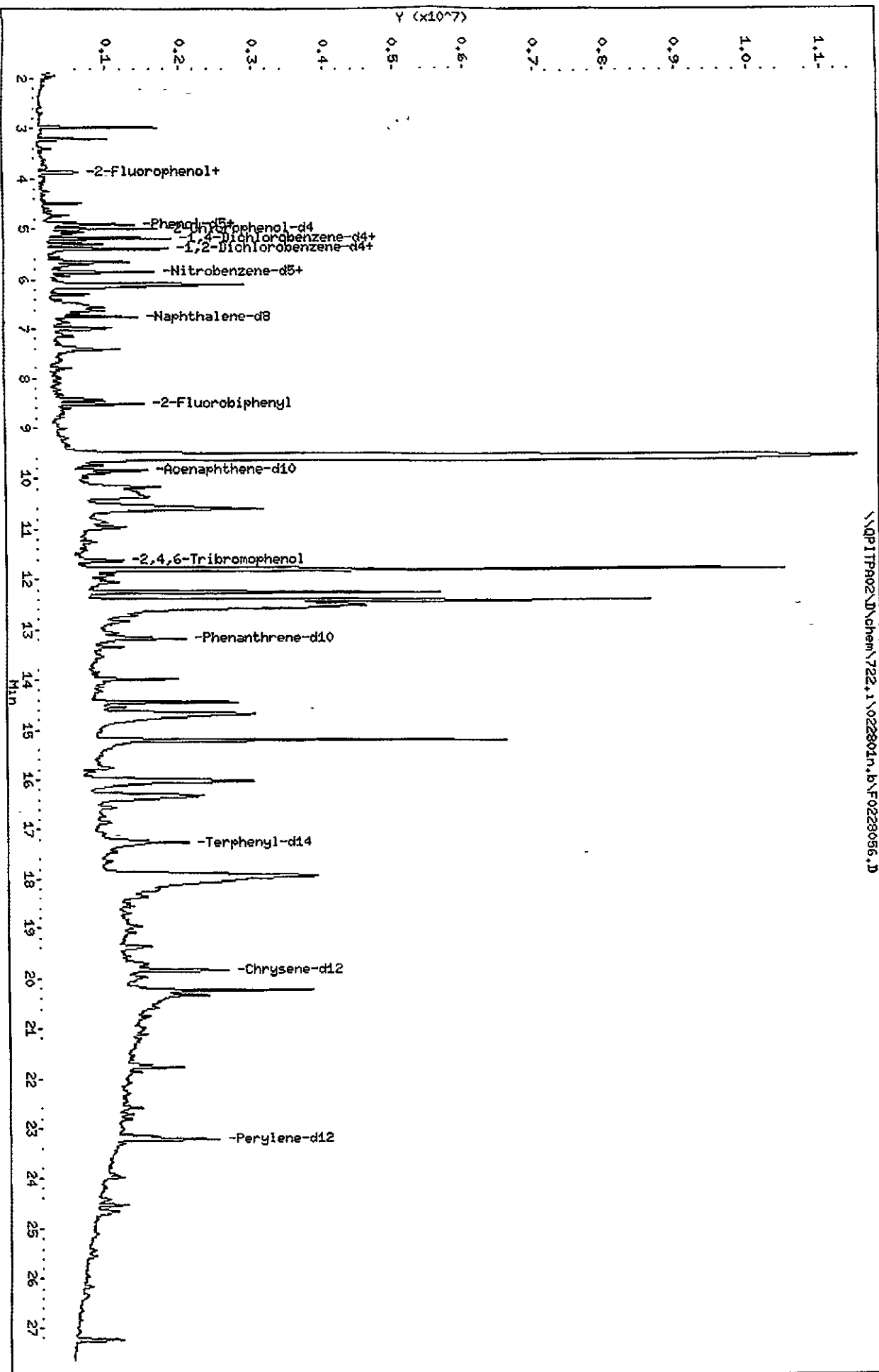
Client Sample Id: DF/24-A/1053/IDW/003

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

Data File: \\QP1TPA02.D\\chem\\722.1\\022801n.b\\F0228056.D
 Date: 01-MAR-2001 00:51
 Client ID: DF/24-A/1053/10M/00
 Sample Info: C1B230148-003 2/26/01 H2O (1058102)
 Volume Injected (uL): 2.0
 Column phase: HPS-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25



677 293

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228056.D
Lab Smp Id: DWJKC1AN Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 01-MAR-2001 00:51
Operator : 007062 Inst ID: 722.i
Smp Info : C1B230148-003 2/26/01 h2o (1058102)
Misc Info : dwjkc1an,022801n.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\d\chem\722.i\022801n.b\8270b.m
Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten signature
3/1/01

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	5.178	5.173	(1.000)	196688	40.0000	(Q)
* 2 Naphthalene-d8		136	6.743	6.733	(1.000)	714670	40.0000	
* 3 Acenaphthene-d10		164	9.836	9.805	(1.000)	426533	40.0000	
* 4 Phenanthrene-d10		188	13.170	13.133	(1.000)	821455	40.0000	
* 5 Chrysene-d12		240	19.842	19.794	(1.000)	1195887	40.0000	
* 6 Perylene-d12		264	23.218	23.155	(1.000)	1323643	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	4.916	4.858	(0.949)	51587	6.04936	2.02 (ug/L) <i>Handwritten mark</i>
23 bis(2-Chloroethyl)ether		93				Compound Not Detected.		
24 2-Chlorophenol		128				Compound Not Detected		

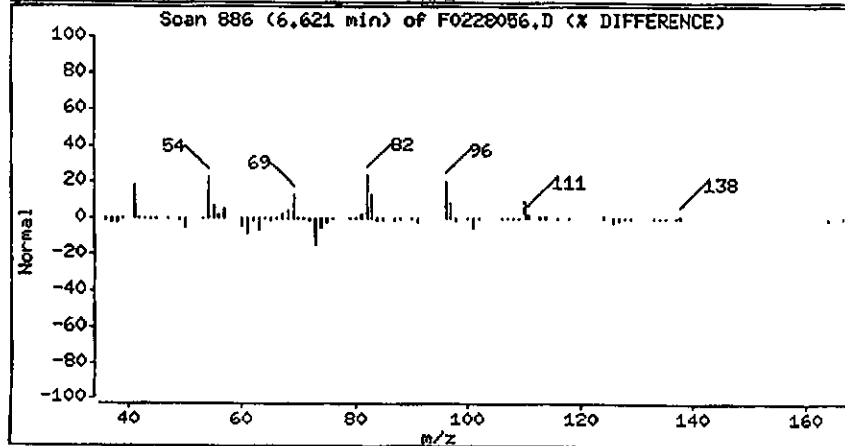
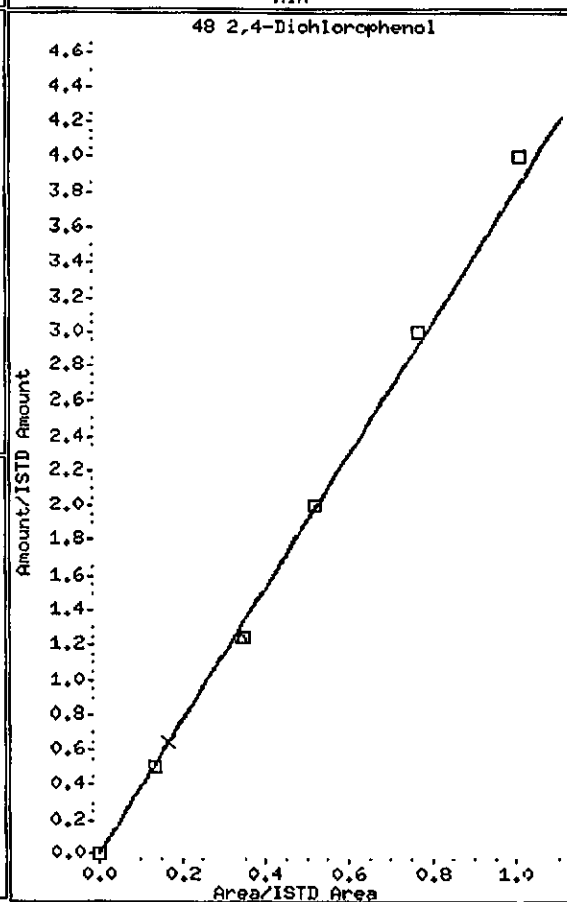
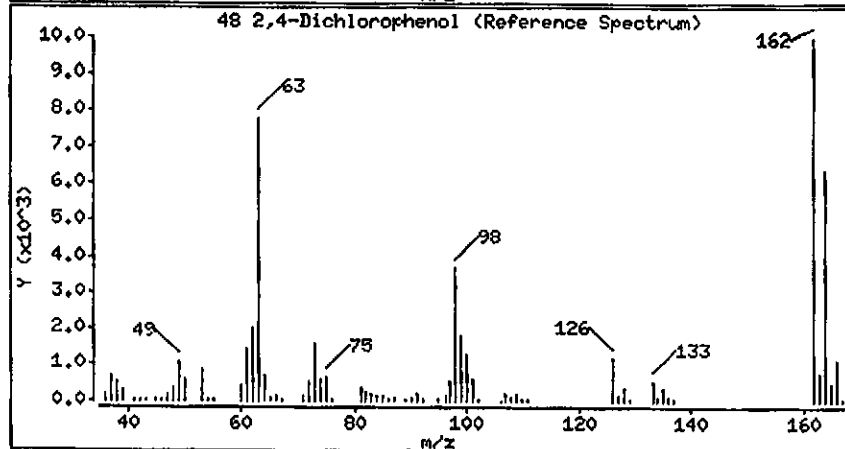
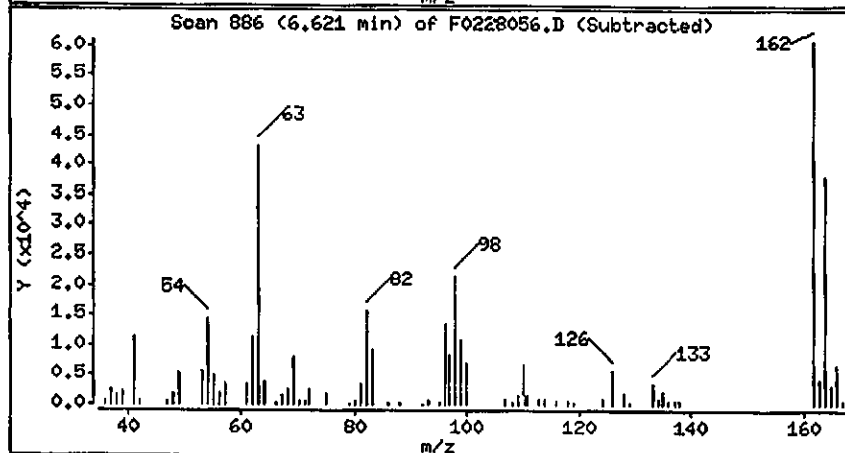
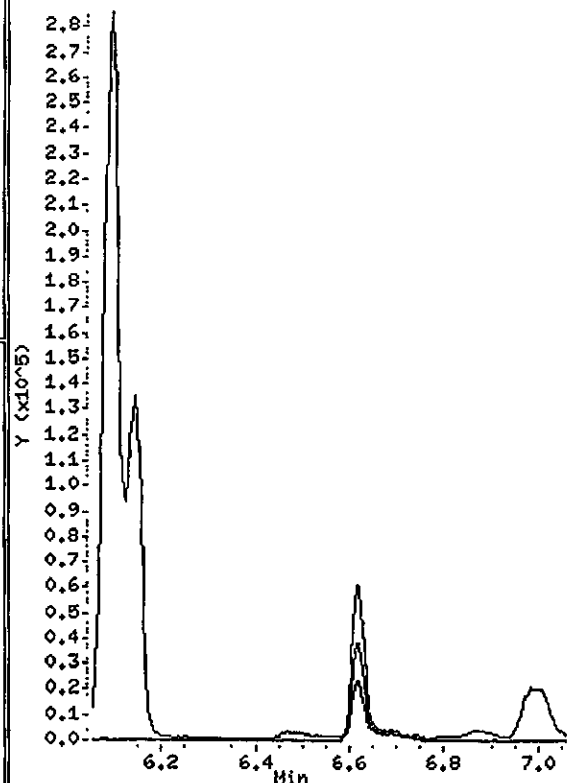
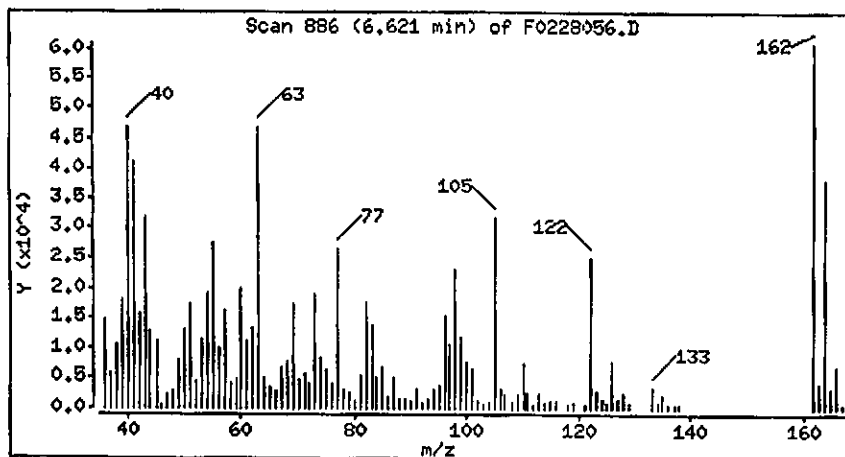
677 299

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	5.376	5.355	(1.038)	209635	42.5308	21.3 (a) <i>MA</i>
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	6.620	6.557	(0.982)	121783	25.7343	<i>22.9 ol</i>
49 Benzoic Acid	122	6.588	6.455	(0.977)	281312	97.9381	<i>22.9 ol</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	8.399	8.357	(0.854)	23532	6.32874	<i>2.107 KOL</i>
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	10.948	10.921	(1.113)	136269	10.1233	5.06 (a)
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.		

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	20.238	20.200	(1.020)	1338611	69.8176	34.9
140 Di-n-octylphthalate	149	21.712	21.664	(0.935)	373015	10.9718	5.48 (a)
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	5.851	5.835	(0.868)	518031	75.7716	37.9
\$ 155 2-Fluorobiphenyl	172	8.512	8.496	(0.865)	666333	53.4699	26.7
\$ 156 Terphenyl-d14	244	17.251	17.214	(0.869)	612381	26.2481	13.1
\$ 157 Phenol-d5	99	4.906	4.847	(0.947)	587306	69.4505	34.7
\$ 158 2-Fluorophenol	112	3.875	3.827	(0.748)	463177	72.3364	36.2
\$ 159 2,4,6-Tribromophenol	330	11.621	11.557	(0.882)	161520	76.3832	38.2
\$ 186 2-Chlorophenol-d4	132	4.996	4.965	(0.965)	648300	102.068	51.0
\$ 187 1,2-Dichlorobenzene-d4	152	5.392	5.381	(1.041)	259843	63.4280	31.7

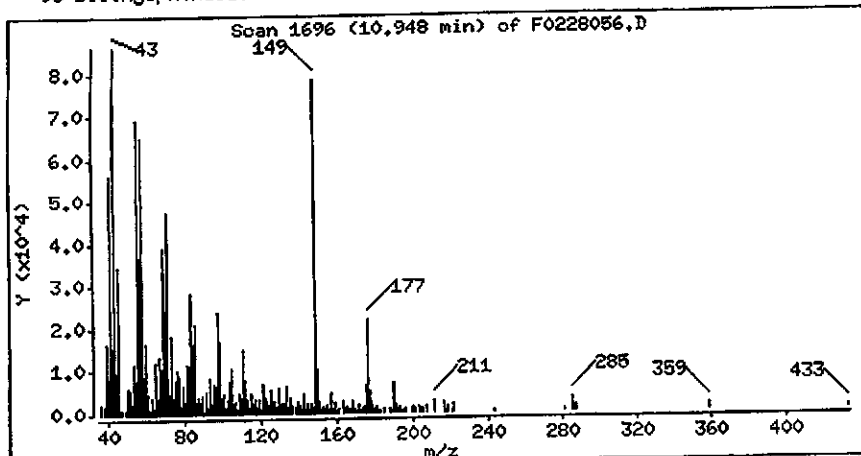
QC Flag Legend

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

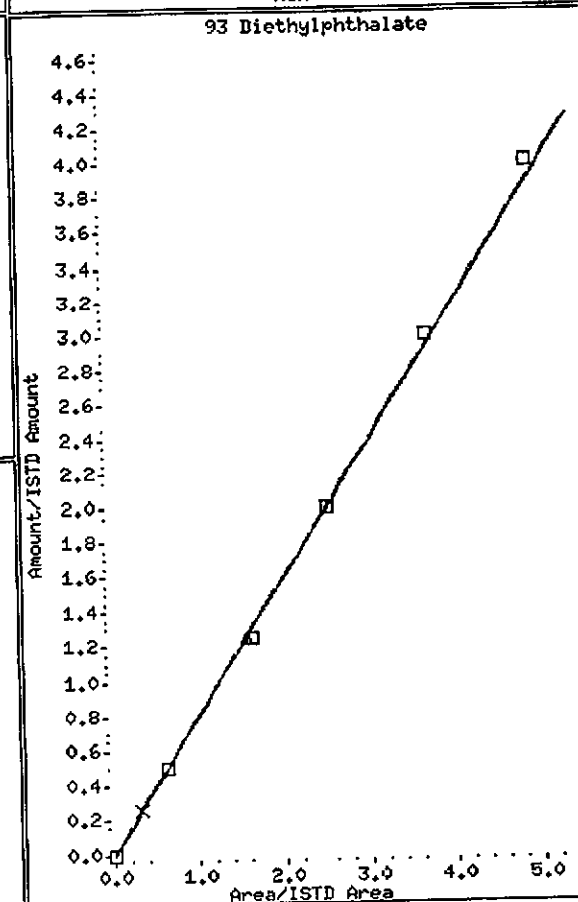
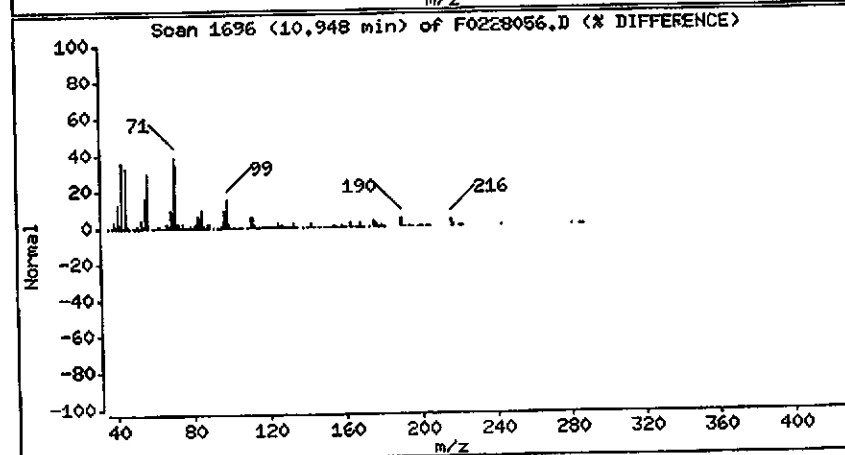
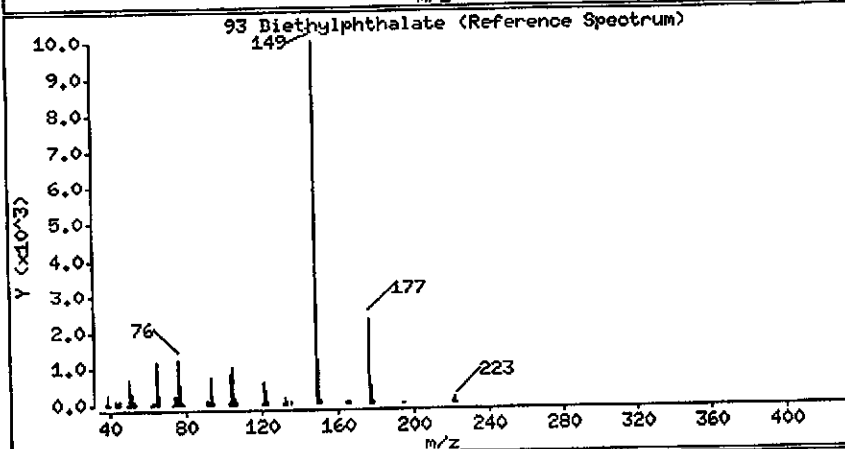
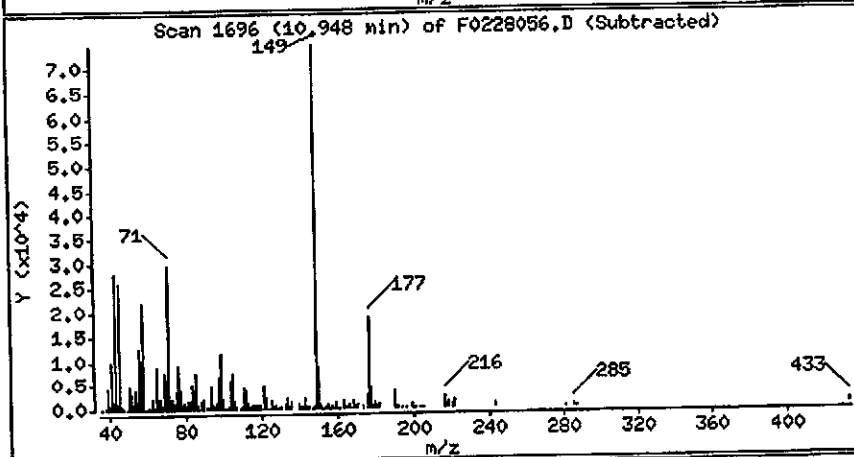
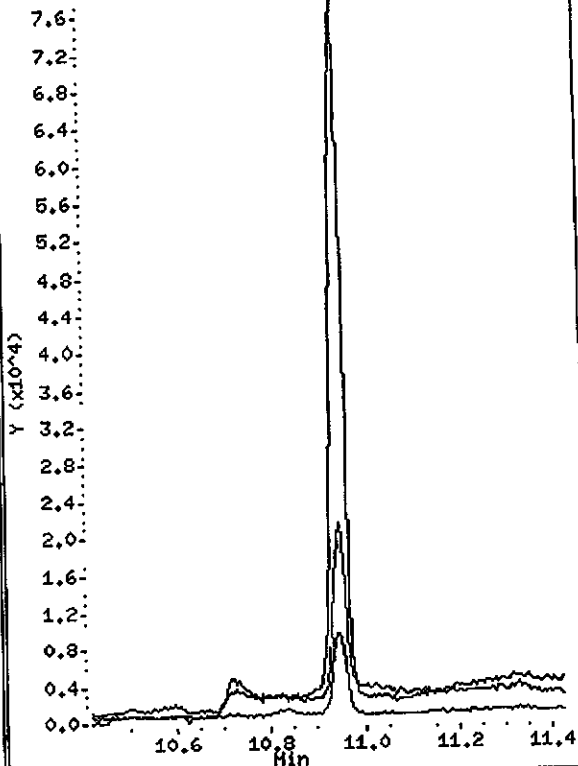


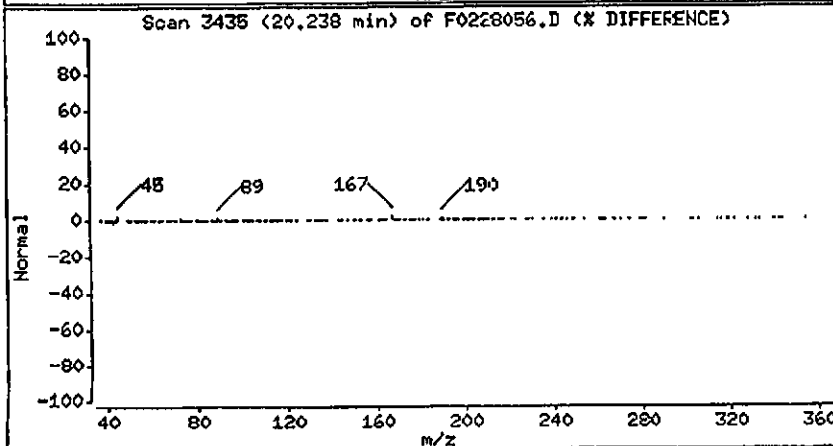
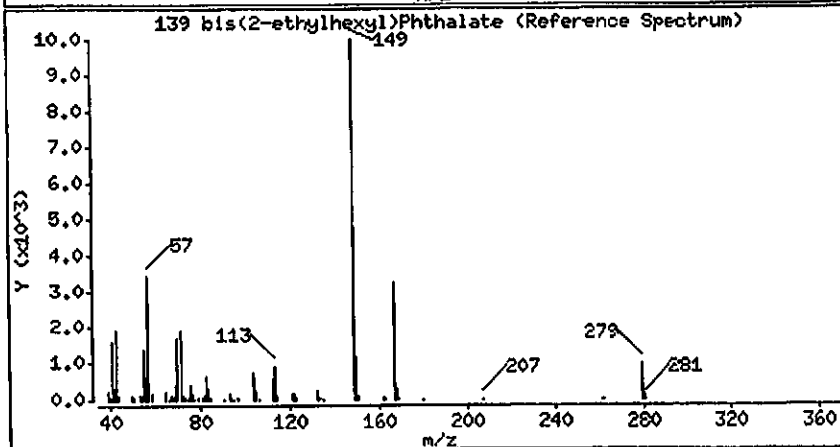
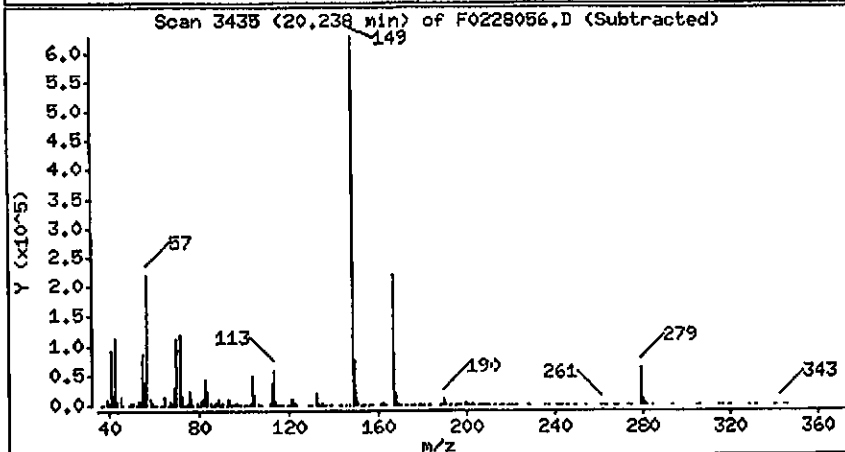
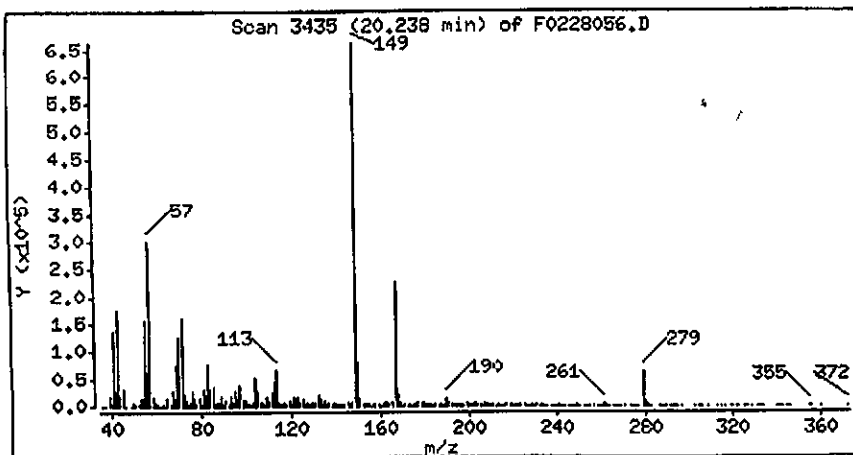
677 302

93 Diethylphthalate

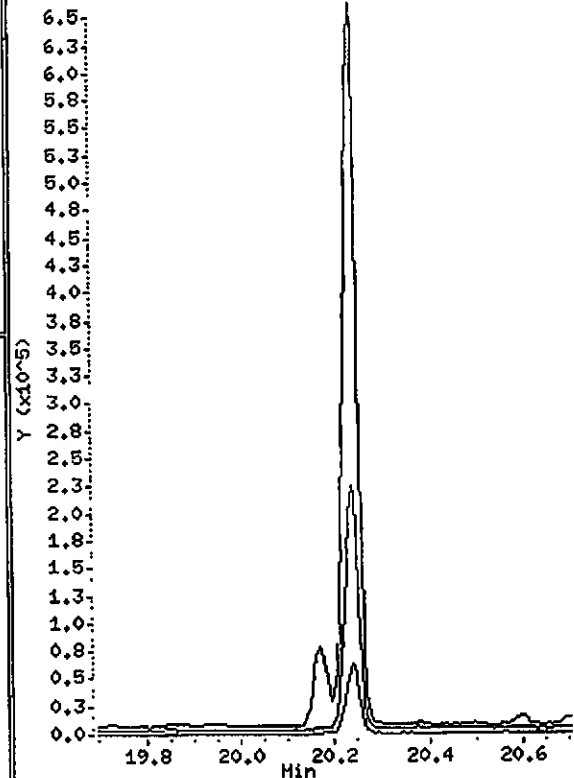


Mass 149.00
Mass 177.00
Mass 150.00

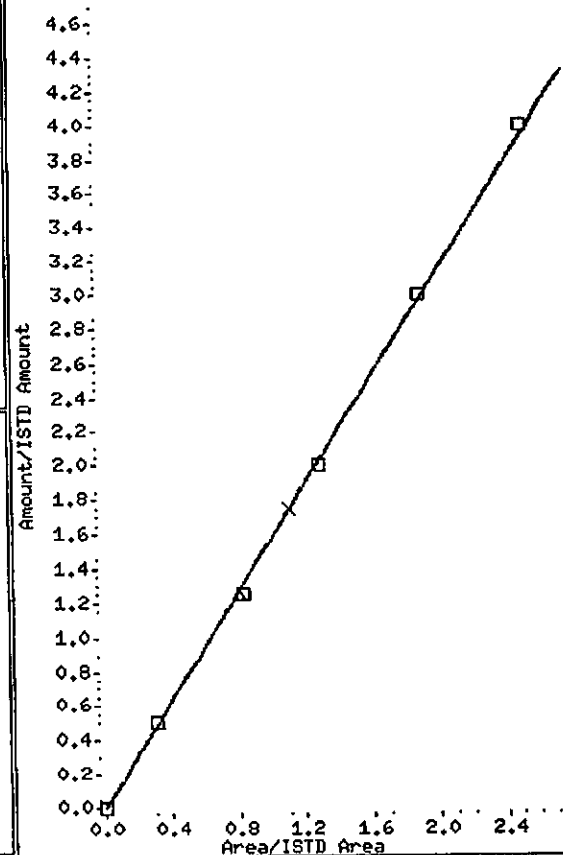




Mass 149.00
Mass 167.00
Mass 279.00

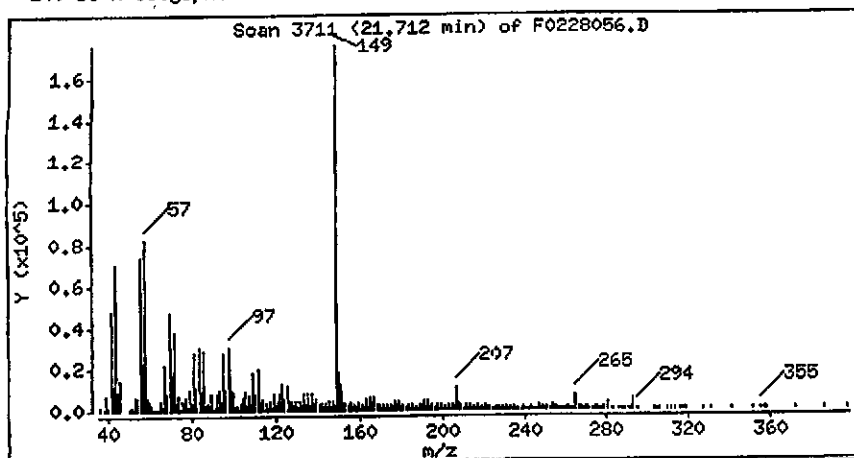


139 bis(2-ethylhexyl)Phthalate

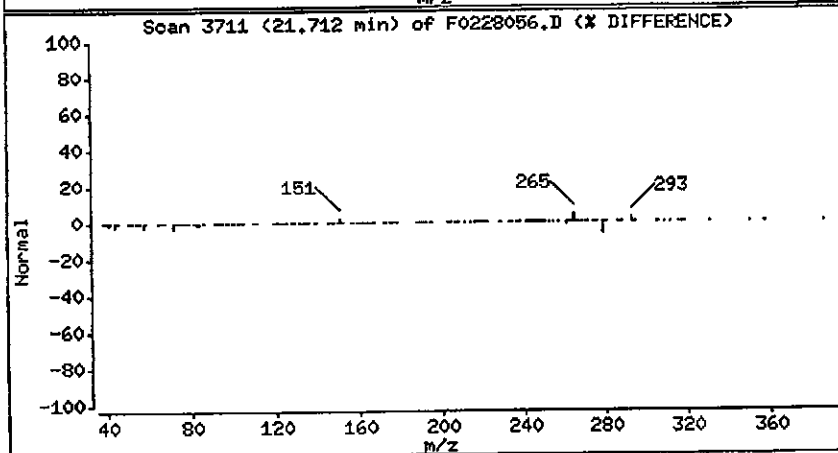
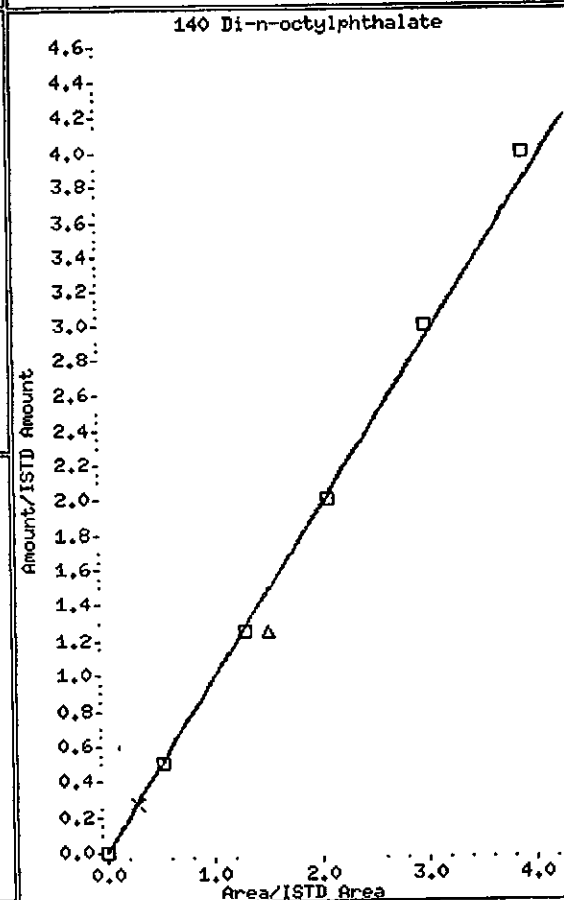
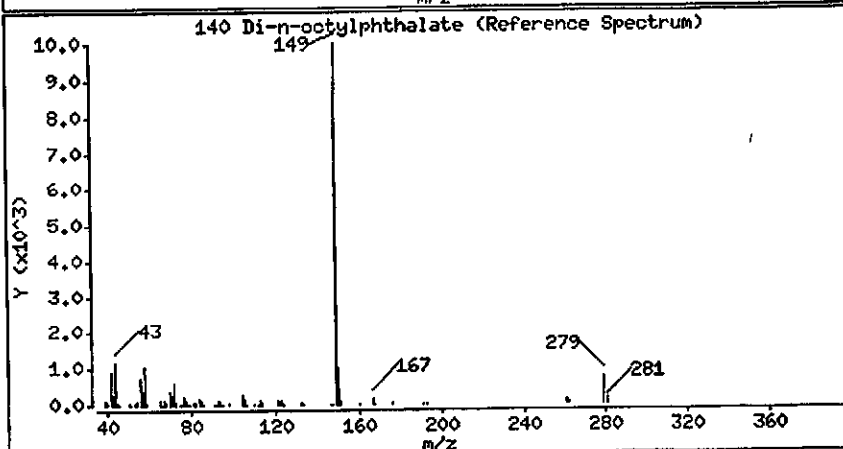
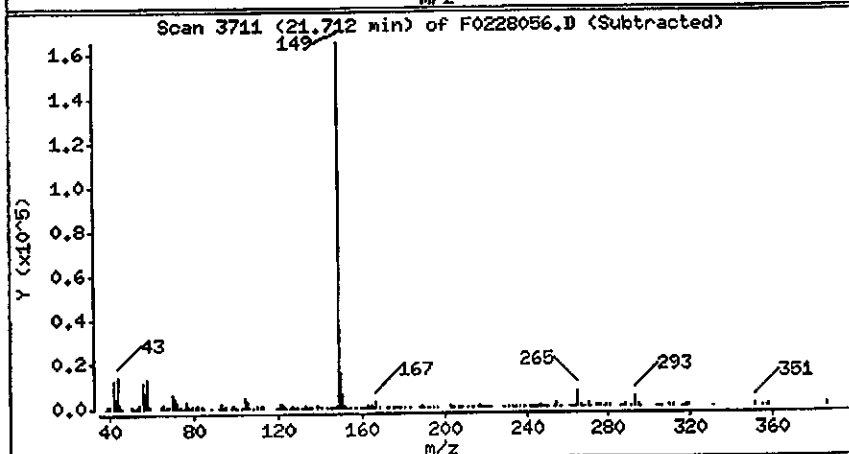
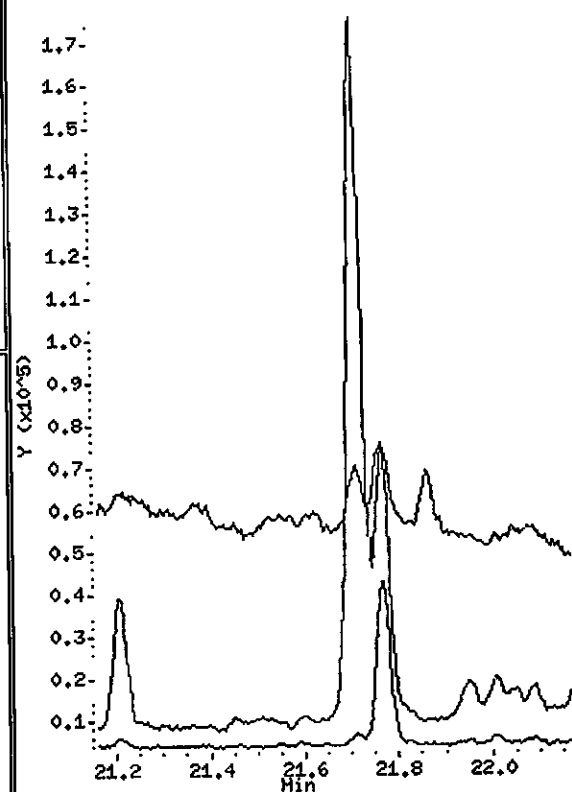


677 304

140 Di-n-octylphthalate



Mass 149.00
Mass 167.00
Mass 43.00



677 305

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

677 307

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

Min $\overline{\text{RRF}}$ 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

677 303

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

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

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

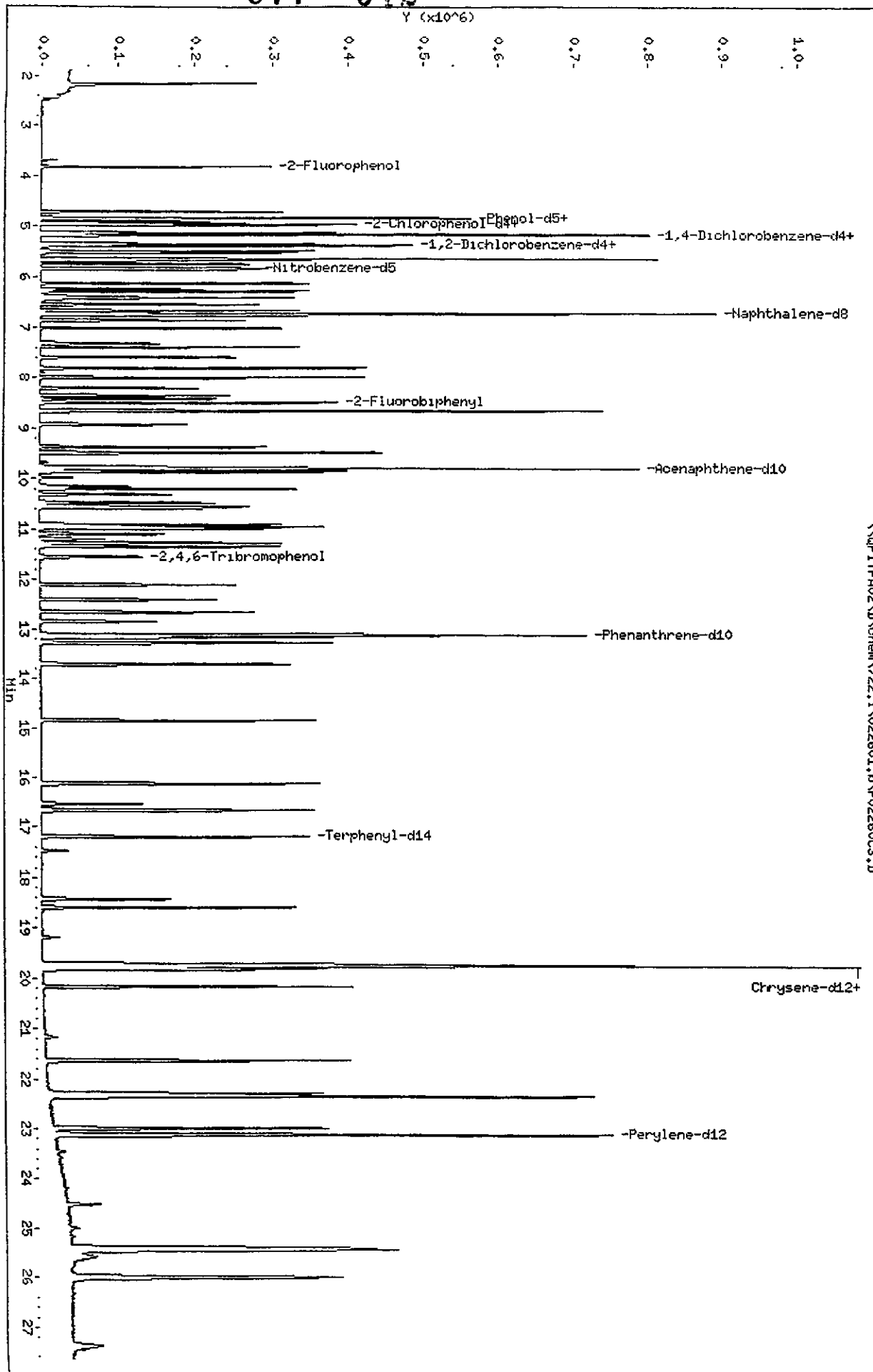
677 311

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

677 312



Data File: \\NPITPA02\Nchem\722.1\022601.b\F0226003.D
 Date : 28-FEB-2001 11:47
 Client ID:
 Sample Info: SST020 (10ppb) 77-11-01
 Volume Injected (ul): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

677 313

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

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

Handwritten:
2/26/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.168	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	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(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		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	=====	=====	=====	=====	=====	(NG)	(NG)
137 Chrysene	228	19.816	19.816	(1.003)	344651	20.0000	20.0
139 bis (2-ethylhexyl) Phthalate	149	20.163	20.163	(1.021)	222670	20.0000	20.0
140 Di-n-octylphthalate	149	21.627	21.627	(0.936)	380517	20.0000	20.0
141 Benzo (b) fluoranthene	252	22.295	22.295	(0.964)	393680	20.0000	20.0
142 Benzo (k) fluoranthene	252	22.348	22.348	(0.967)	407664	20.0000	20.0
143 7,12-dimethylbenz [a] anthracen	256	22.348	22.348	(0.967)	184012	20.0000	20.0
146 Benzo (a) pyrene	252	22.989	22.989	(0.994)	373516	20.0000	20.0
149 Indeno (1,2,3-cd) pyrene	276	25.393	25.393	(1.098)	576142	20.0000	20.0
150 Dibenz (a,h) anthracene	278	25.447	25.447	(1.101)	470672	20.0000	20.0
151 Benzo (g,h,i) perylene	276	25.997	25.997	(1.125)	520722	20.0000	20.0
\$ 154 Nitrobenzene-d5	82	5.836	5.836	(0.867)	116584	20.0000	20.0
\$ 155 2-Fluorobiphenyl	172	8.491	8.491	(0.866)	207791	20.0000	20.0
\$ 156 Terphenyl-d14	244	17.188	17.188	(0.870)	288932	20.0000	20.0
\$ 157 Phenol-d5	99	4.837	4.837	(0.936)	136355	20.0000	20.0
\$ 158 2-Fluorophenol	112	3.822	3.822	(0.740)	102029	20.0000	20.0
\$ 159 2,4,6-Tribromophenol	330	11.541	11.541	(0.880)	31483	20.0000	20.0
\$ 186 2-Chlorophenol-d4	132	4.960	4.960	(0.960)	102068	20.0000	20.0
\$ 187 1,2-Dichlorobenzene-d4	152	5.382	5.382	(1.041)	68046	20.0000	20.0

QC Flag Legend

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

Data File Name. F02260C3.D

677 316

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

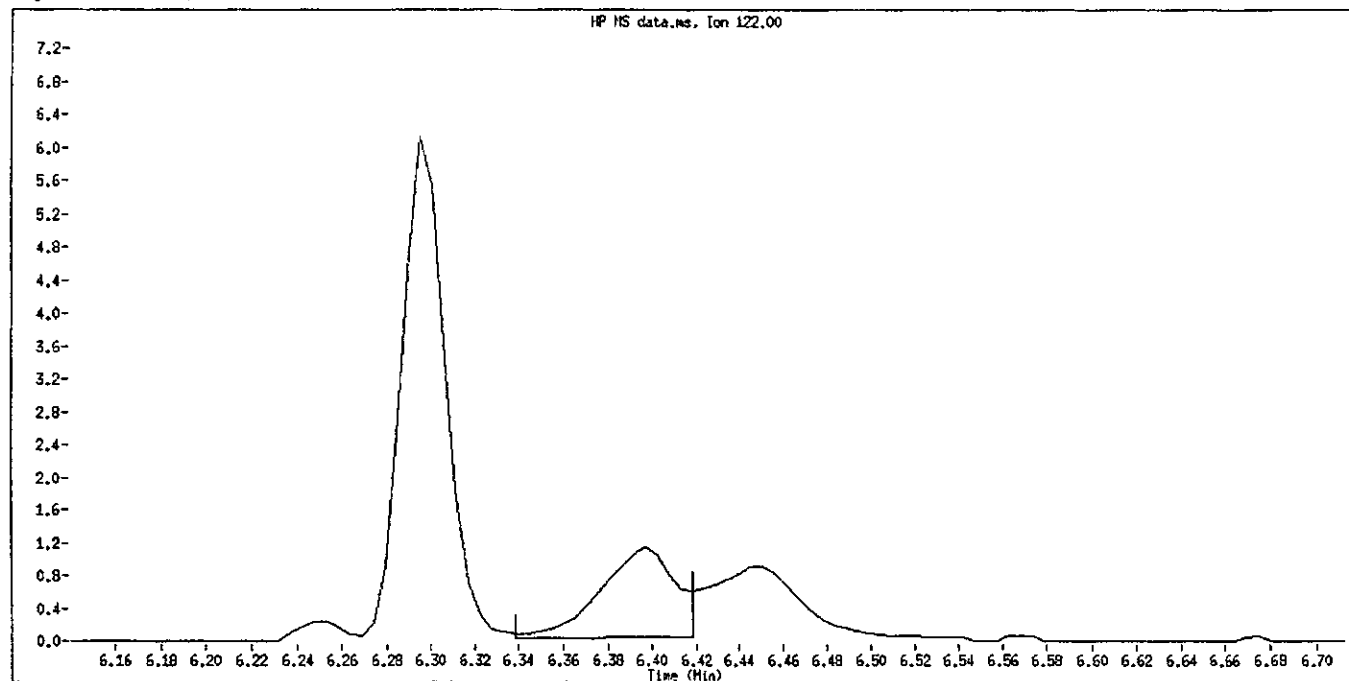
Instrument ID: 722.1

Client ID. SST0020

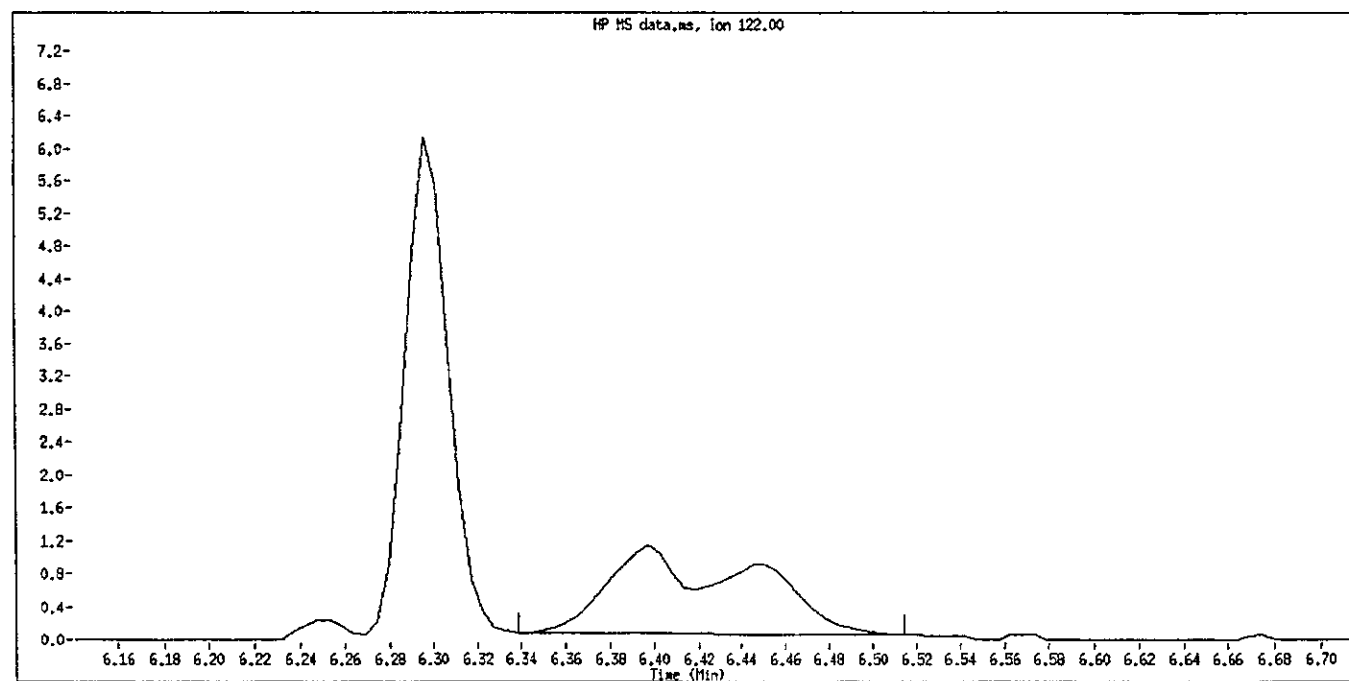
Compound Name. Benzoic Acid

CAS #: 65-85-0

Report Date. 02/26/2001



Original Integration



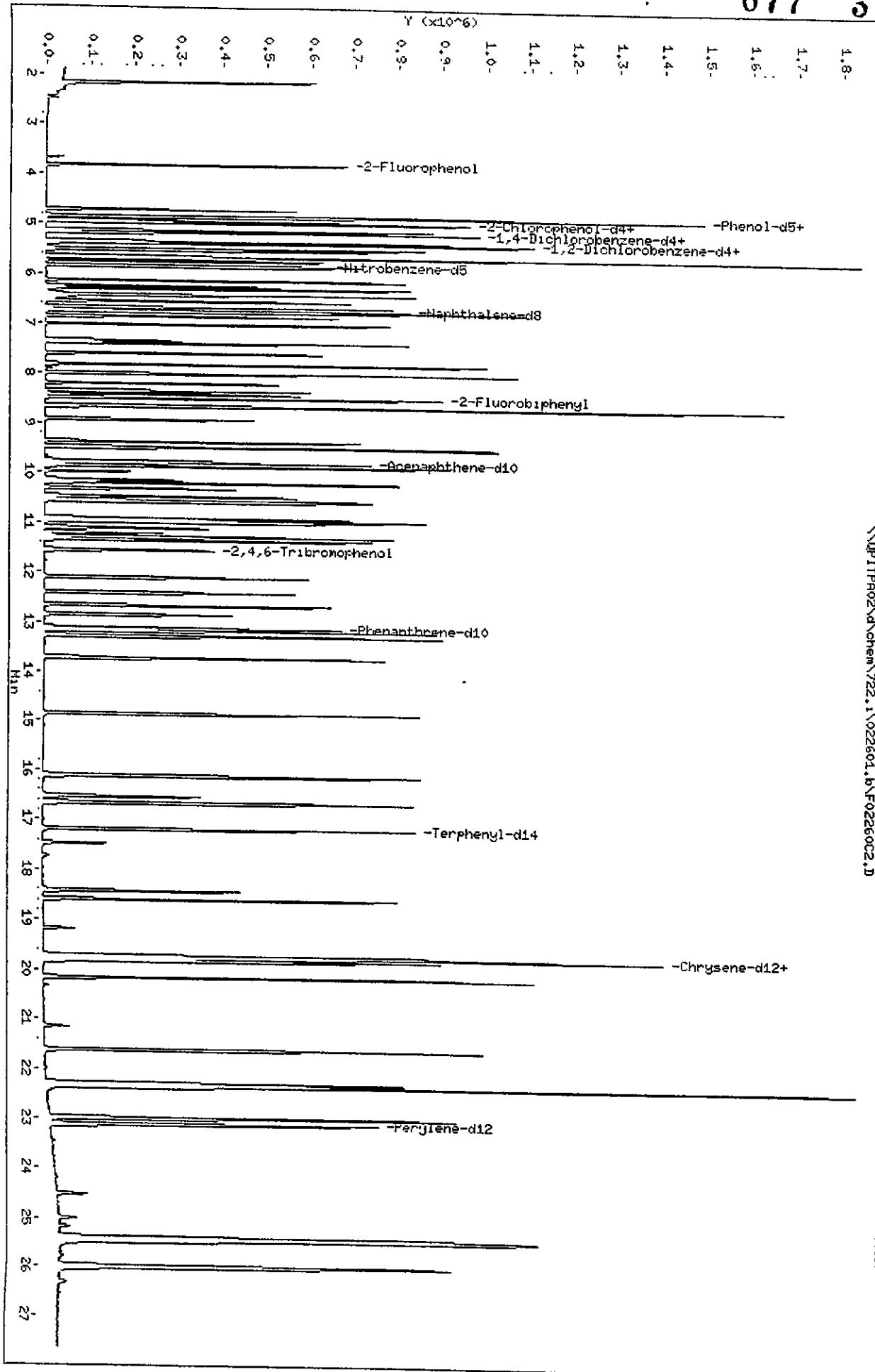
Manual Integration

Manually Integrated By: BungardF

Manual Integration Reason: Unknown

Data File: \\NPITPA02\chem\722.1\022601.b\F02260C2.D
Date : 26-FEB-2004 14:04
Client ID: SST0050
Sample Info: SST0050 (25ppb) 77-13-14
Column phase: Hp5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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			RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS							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	
52 4-Chloroaniline	127			6.859	6.859	(1.019)	277647	50.0000	(Q)
56 Hexachlorobutadiene	225			7.014	7.014	(1.042)	135942	50.0000	
59 4-Chloro-3-Methylphenol	107			7.596	7.596	(1.129)	217748	50.0000	
62 2-Methylnaphthalene	142			7.810	7.810	(1.160)	460178	50.0000	
205 1-Methylnaphthalene	142			7.992	7.992	(1.187)	491009	50.0000	
64 Hexachlorocyclopentadiene	237			8.200	8.200	(0.837)	144706	50.0000	(Q)
66 2,4,6-Trichlorophenol	196			8.350	8.350	(0.852)	141203	50.0000	
67 2,4,5-Trichlorophenol	196			8.419	8.419	(0.859)	148651	50.0000	
70 2-Chloronaphthalene	162			8.665	8.665	(0.884)	425560	50.0000	
73 2-Nitroaniline	65			8.927	8.927	(0.911)	165918	50.0000	
76 Dimethylphthalate	163			9.370	9.370	(0.956)	506040	50.0000	
78 2,6-Dinitrotoluene	165			9.498	9.498	(0.969)	114396	50.0000	
79 Acenaphthylene	152			9.482	9.482	(0.968)	660325	50.0000	(Q)
81 3-Nitroaniline	138			9.765	9.765	(0.997)	132514	50.0000	
82 Acenaphthene	153			9.867	9.867	(1.007)	434603	50.0000	
83 2,4-Dinitrophenol	184			9.974	9.974	(1.018)	49923	50.0000	
85 4-Nitrophenol	109			10.150	10.150	(1.036)	80494	50.0000	
86 Dibenzofuran	168			10.203	10.203	(1.041)	627155	50.0000	
87 2,4-Dinitrotoluene	165			10.316	10.316	(1.053)	156554	50.0000	
91 2,3,5,6-Tetrachlorophenol	232			10.476	10.476	(1.069)	154974	50.0000	
88 2,3,4,6-Tetrachlorophenol	232			10.577	10.577	(1.080)	151361	50.0000	
92 2-Naphthylamine	143			10.551	10.551	(1.077)	455291	50.0000	
93 Diethylphthalate	149			10.914	10.914	(1.114)	516498	50.0000	
94 Fluorene	166			10.957	10.957	(1.118)	514482	50.0000	
95 4-Chlorophenyl-phenylether	204			10.989	10.989	(1.122)	253084	50.0000	
96 4-Nitroaniline	138			11.106	11.106	(1.134)	133905	50.0000	
98 4,6-Dinitro-2-methylphenol	198			11.208	11.208	(0.854)	79874	50.0000	
99 N-Nitrosodiphenylamine	169			11.282	11.282	(0.860)	406055	50.0000	
100 1,2-Diphenylhydrazine	77			11.347	11.347	(0.865)	599672	50.0000	
106 4-Bromophenyl-phenylether	248			12.105	12.105	(0.923)	148556	50.0000	
107 Hexachlorobenzene	284			12.410	12.410	(0.946)	154700	50.0000	
111 Pentachlorophenol	266			12.848	12.848	(0.979)	105691	50.0000	(Q)
115 Phenanthrene	178			13.174	13.174	(1.004)	767561	50.0000	
116 Anthracene	178			13.280	13.280	(1.012)	785154	50.0000	
119 Carbazole	167			13.718	13.718	(1.046)	729620	50.0000	(Q)
120 Di-n-Butylphthalate	149			14.856	14.856	(1.132)	884643	50.0000	
123 Fluoranthene	202			16.117	16.117	(1.228)	849025	50.0000	
124 Benzidine	184			16.534	16.534	(0.837)	334902	50.0000	
125 Pyrene	202			16.662	16.662	(0.843)	877990	50.0000	
131 Butylbenzylphthalate	149			18.596	18.596	(0.941)	402952	50.0000	
135 3,3'-Dichlorobenzidine	252			19.760	19.760	(1.000)	356464	50.0000	
136 Benzo(a)Anthracene	228			19.718	19.718	(0.998)	867173	50.0000	

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	(Q)
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]anthracen	256	22.362	22.362	(0.967)	509547	50.0000	
146 Benzo(a)pyrene	252	22.998	22.998	(0.995)	968784	50.0000	
149 Indeno(1,2,3-cd)pyrene	276	25.412	25.412	(1.099)	1476997	50.0000	
150 Dibenz(a,h)anthracene	278	25.455	25.455	(1.101)	1215150	50.0000	
151 Benzo(g,h,i)perylene	276	26.016	26.016	(1.125)	1321669	50.0000	
\$ 154 Nitrobenzene-d5	82	5.839	5.839	(0.867)	274058	50.0000	
\$ 155 2-Fluorobiphenyl	172	8.494	8.494	(0.867)	481200	50.0000	
\$ 156 Terphenyl-d14	244	17.191	17.191	(0.870)	684045	50.0000	
\$ 157 Phenol-d5	99	4.845	4.845	(0.936)	323718	50.0000	
\$ 158 2-Fluorophenol	112	3.836	3.836	(0.741)	243801	50.0000	
\$ 159 2,4,6-Tribromophenol	330	11.550	11.550	(0.880)	81003	50.0000	
\$ 186 2-Chlorophenol-d4	132	4.968	4.968	(0.960)	241771	50.0000	
\$ 187 1,2-Dichlorobenzene-d4	152	5.385	5.385	(1.040)	152211	50.0000	

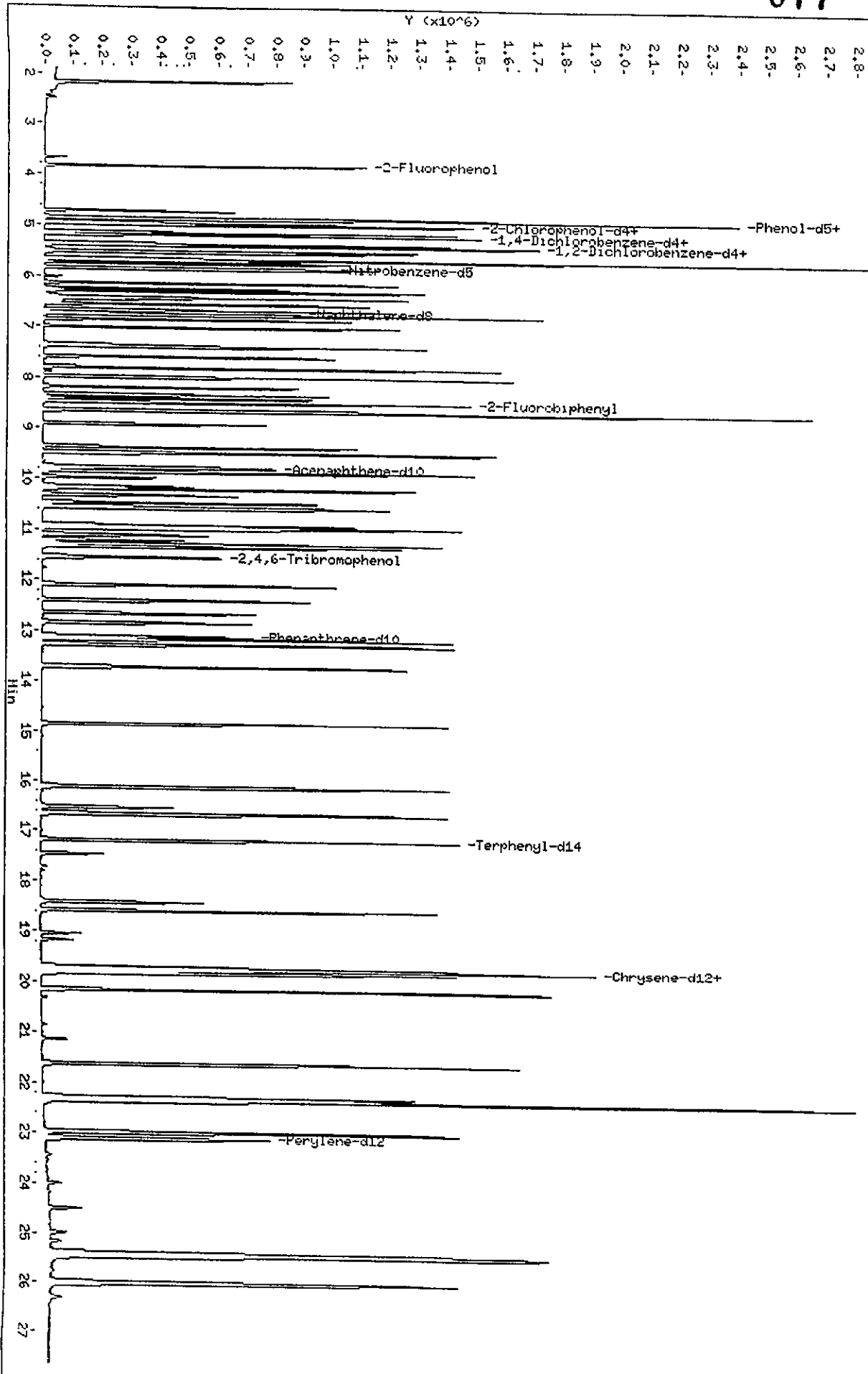
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\NPITP02\Jchem\722.1\022601.b\F02260C4.D
 Date: 26-FEB-2004 12:24
 Client ID:
 Sample Info: STD080 (40ppb) 77-11-03
 Volume Injected (uL): 2.0
 Column phase: Hp5-115

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\NPITP02\Jchem\722.1\022601.b\F02260C4.D



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Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C4.D
 Report Date: 26-Feb-2001 12:52

Page 1

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:
 2/26/01

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		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

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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)	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

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Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C4.D
Report Date: 26-Feb-2001 12:52

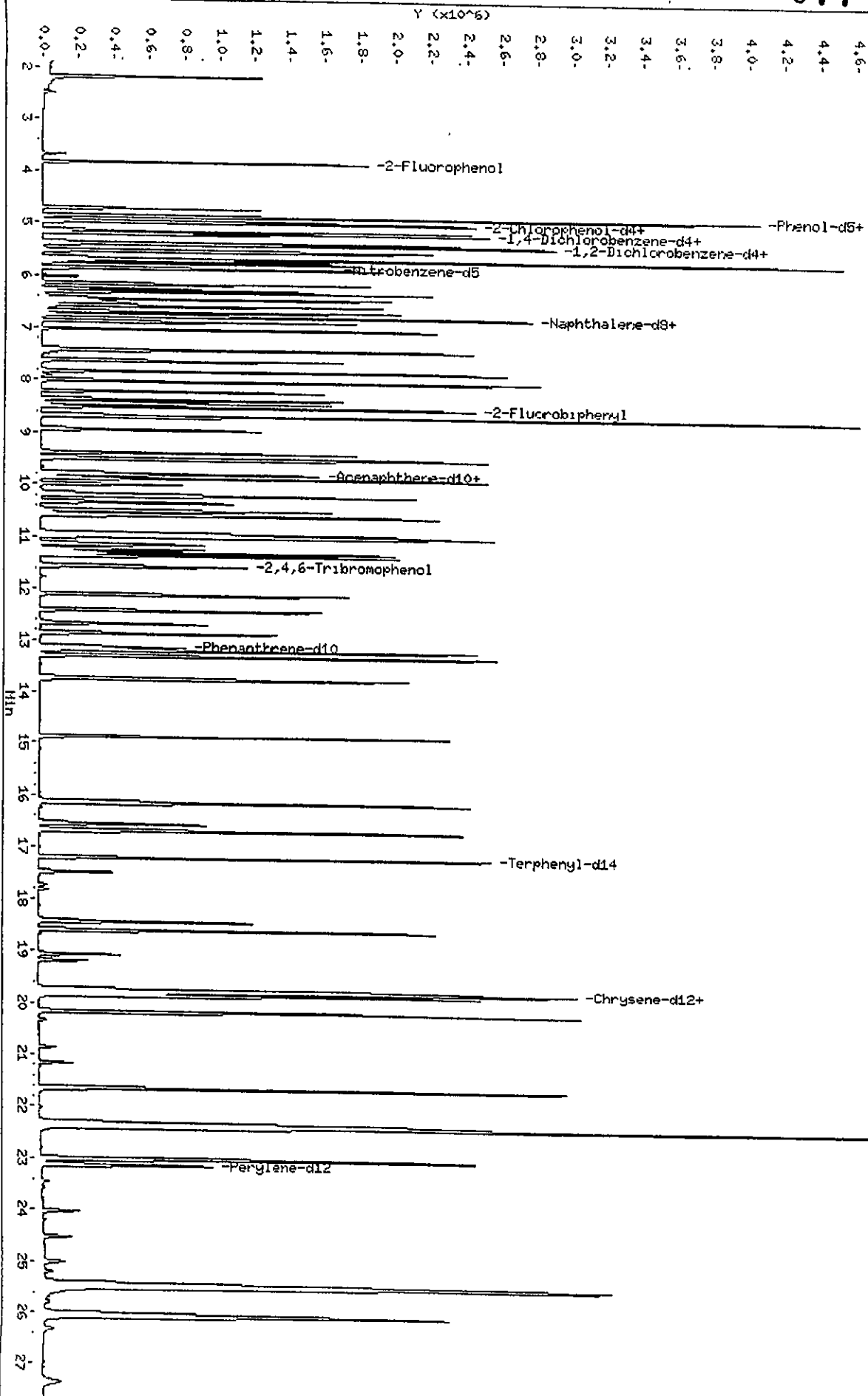
Page 3

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	19.821	19.821	(1.004)	1343408	80.0000	78.4
139 bis (2-ethylhexyl) Phthalate	149	20.157	20.157	(1.021)	952858	80.0000	82.1
140 Di-n-octylphthalate	149	21.626	21.626	(0.936)	1620215	80.0000	79.2
141 Benzo(b) fluoranthene	252	22.294	22.294	(0.965)	1523074	80.0000	75.4
142 Benzo(k) fluoranthene	252	22.353	22.353	(0.967)	1730770	80.0000	79.1
143 7,12-dimethylbenz[a]anthracen	256	22.358	22.358	(0.968)	810073	80.0000	80.6
146 Benzo(a)pyrene	252	22.989	22.989	(0.995)	1560198	80.0000	78.5
149 Indeno(1,2,3-cd)pyrene	276	25.409	25.409	(1.100)	2381188	80.0000	78.1
150 Dibenz(a,h)anthracene	278	25.457	25.457	(1.102)	1961018	80.0000	78.4
151 Benzo(g,h,i)perylene	276	26.012	26.012	(1.126)	2137725	80.0000	77.8
\$ 154 Nitrobenzene-d5	82	5.835	5.835	(0.867)	446529	80.0000	78.8
\$ 155 2-Fluorobiphenyl	172	8.485	8.485	(0.867)	788381	80.0000	78.1
\$ 156 Terphenyl-d14	244	17.176	17.176	(0.870)	1142621	80.0000	78.9
\$ 157 Phenol-d5	99	4.847	4.847	(0.938)	504758	80.0000	78.2
\$ 158 2-Fluorophenol	112	3.826	3.826	(0.741)	382896	80.0000	78.8
\$ 159 2,4,6-Tribromophenol	330	11.541	11.541	(0.880)	132622	80.0000	81.2
\$ 186 2-Chlorophenol-d4	132	4.964	4.964	(0.961)	379900	80.0000	78.4
\$ 187 1,2-Dichlorobenzene-d4	152	5.381	5.381	(1.041)	245866	80.0000	77.2

Data File: \\QPI1P002\chem\722.1\022601.b\F0226005.D
 Date: 26-FEB-2001 12:54
 Client ID:
 Sample Info: SST120 (60ppb) 77-11-04
 Volume Injected (uL): 2.0
 Column phase: HP5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPI1P002\chem\722.1\022601.b\F0226005.D



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	ON-COL
						(NG)	(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

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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	6.437	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

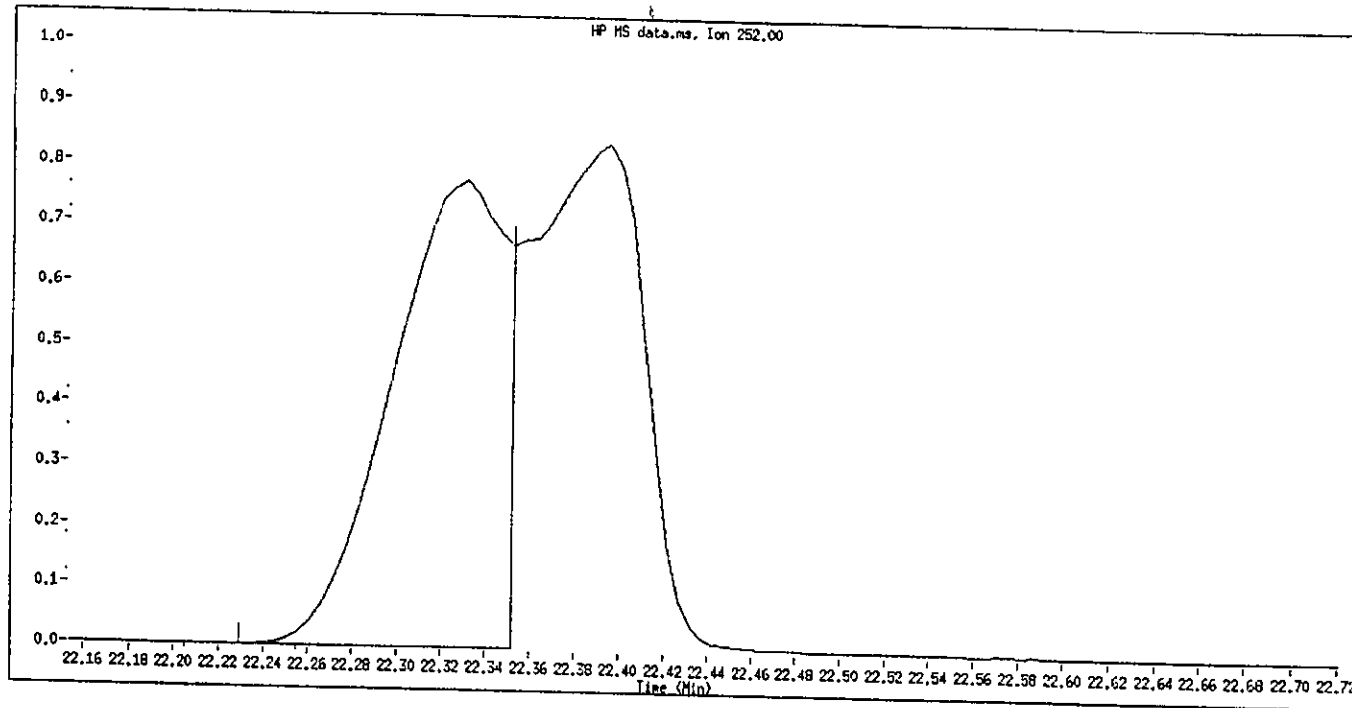
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	19.841	19.841	(1.004)	2331928	120.000	114
139 bis(2-ethylhexyl)Phthalate	149	20.172	20.172	(1.020)	1680740	120.000	118
140 Di-n-octylphthalate	149	21.641	21.641	(0.936)	2853335	120.000	116
141 Benzo(b)fluoranthene	252	22.330	22.330	(0.965)	2811600	120.000	117
142 Benzo(k)fluoranthene	252	22.394	22.394	(0.968)	3030488	120.000	115 (M)
143 7,12-dimethylbenz[a]anthracen	256	22.389	22.389	(0.968)	1515335	120.000	120
146 Benzo(a)pyrene	252	23.019	23.019	(0.995)	2771152	120.000	114
149 Indeno(1,2,3-cd)pyrene	276	25.450	25.450	(1.100)	4276184	120.000	115
150 Dibenz(a,h)anthracene	278	25.498	25.498	(1.102)	3510904	120.000	115
151 Benzo(g,h,i)perylene	276	26.064	26.064	(1.127)	3792404	120.000	114
\$ 154 Nitrobenzene-d5	82	5.850	5.850	(0.868)	773904	120.000	116
\$ 155 2-Fluorobiphenyl	172	8.499	8.499	(0.867)	1339799	120.000	112
\$ 156 Terphenyl-d14	244	17.196	17.196	(0.870)	2011078	120.000	116
\$ 157 Phenol-d5	99	4.861	4.861	(0.939)	866785	120.000	114
\$ 158 2-Fluorophenol	112	3.836	3.836	(0.741)	659782	120.000	115
\$ 159 2,4,6-Tribromophenol	330	11.560	11.560	(0.881)	241363	120.000	120
\$ 186 2-Chlorophenol-d4	132	4.973	4.973	(0.961)	652627	120.000	114
\$ 187 1,2-Dichlorobenzene-d4	152	5.390	5.390	(1.041)	417337	120.000	113

QC Flag Legend

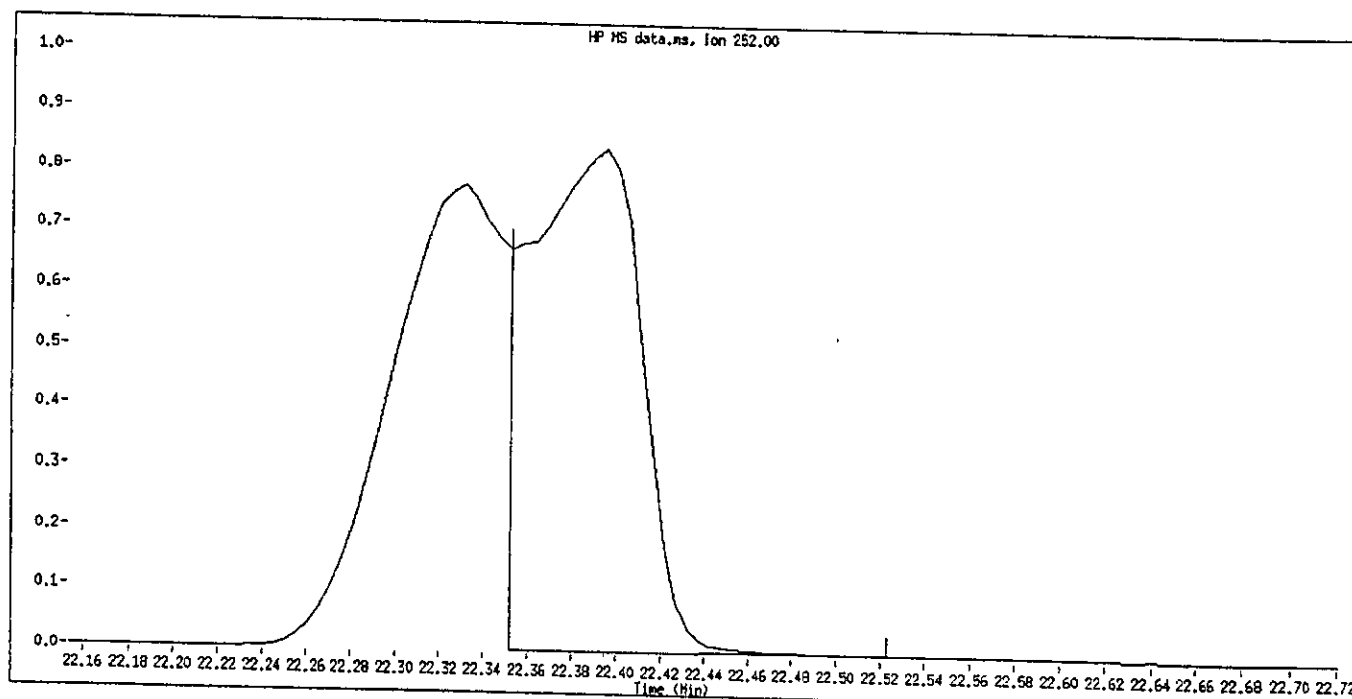
M - Compound response manually integrated.

Data File Name. F02260C5.D
Inj Date and Time 26-FEB-2001 12:54
Instrument ID. 722.1
Client ID. SSTD120
Compound Name. Benzo(k)fluoranthene
CAS # 207-08-9
Report Date 02/26/2001

677 329



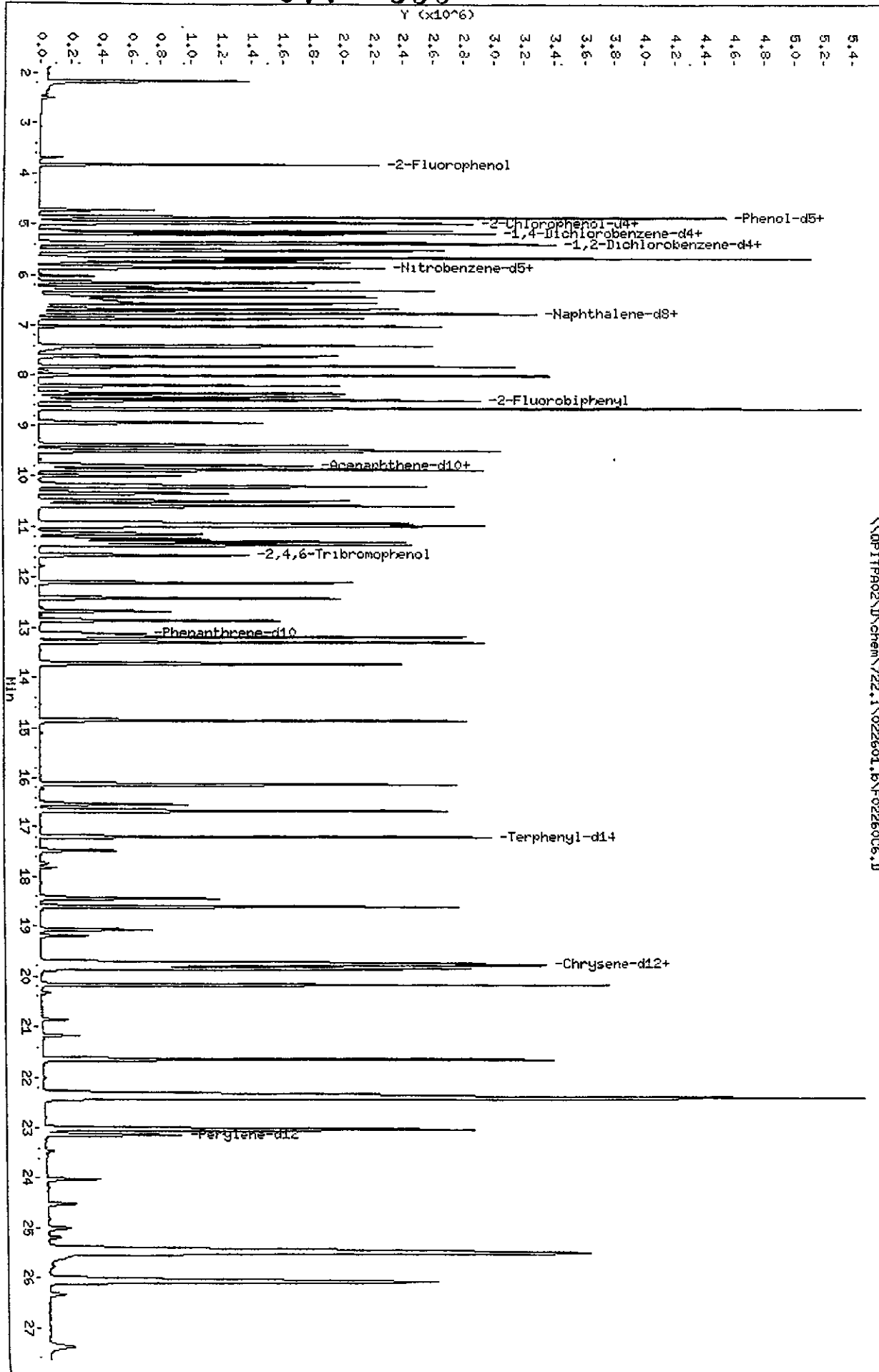
Original Integration



Manual Integration

Manually Integrated By BungardF
Manual Integration Reason: Unknown

677 330



Data File: \\OPITPA02\chem\722.1\022601.b\F0226006.D
 Date: 26-FEB-2001 13:28
 Client ID:
 Sample Info: SSTID67 (80ppb) 77-11-05
 Volume Injected (ul): 2.0
 Column phase: HP5-15

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\OPITPA02\chem\722.1\022601.b\F0226006.D

677 331

STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 26-FEB-2001 13:28
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD160 (80ppb) 77-11-05
Misc Info : sstd160,022601.b,8270b.m,2-root.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 14:01 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

2/26/01

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (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	254	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	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(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

677 333

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	****	**	*****	*****	*****	*****	*****
137 Chrysene	228	19.849	19.849	(1.004)	2768687	160.000	153
139 bis(2-ethylhexyl)Phthalate	149	20.175	20.175	(1.020)	1983992	160.000	157
140 Di-n-octylphthalate	149	21.644	21.644	(0.936)	3371189	160.000	153
141 Benzo(b)fluoranthene	252	22.338	22.338	(0.966)	3906188	160.000	175 (A)
142 Benzo(k)fluoranthene	252	22.403	22.403	(0.969)	3055594	160.000	133 (M)
143 7,12-dimethylbenz[a]anthracen	256	22.397	22.397	(0.968)	1862271	160.000	163 (A)
146 Benzo(a)pyrene	252	23.028	23.028	(0.996)	3308324	160.000	153
149 Indeno(1,2,3-cd)pyrene	276	25.458	25.458	(1.101)	5134111	160.000	154
150 Dibenz(a,h)anthracene	278	25.506	25.506	(1.103)	4211488	160.000	154
151 Benzo(g,h,i)perylene	276	26.073	26.073	(1.127)	4536388	160.000	153
\$ 154 Nitrobenzene-d5	82	5.853	5.853	(0.868)	918797	160.000	154
\$ 155 2-Fluorobiphenyl	172	8.502	8.502	(0.867)	1586225	160.000	152
\$ 156 Terphenyl-d14	244	17.199	17.199	(0.870)	2368865	160.000	154
\$ 157 Phenol-d5	99	4.864	4.864	(0.939)	1032308	160.000	152
\$ 158 2-Fluorophenol	112	3.839	3.839	(0.741)	790682	160.000	154
\$ 159 2,4,6-Tribromophenol	330	11.563	11.563	(0.881)	291119	160.000	162 (A)
\$ 186 2-Chlorophenol-d4	132	4.977	4.977	(0.961)	779636	160.000	153
\$ 187 1,2-Dichlorobenzene-d4	152	5.393	5.393	(1.041)	500757	160.000	152

QC Flag Legend

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

Data File Name: F02260C6.D

Inj. Date and Time 26-FEB-2001 13:28

Instrument ID: 722.1

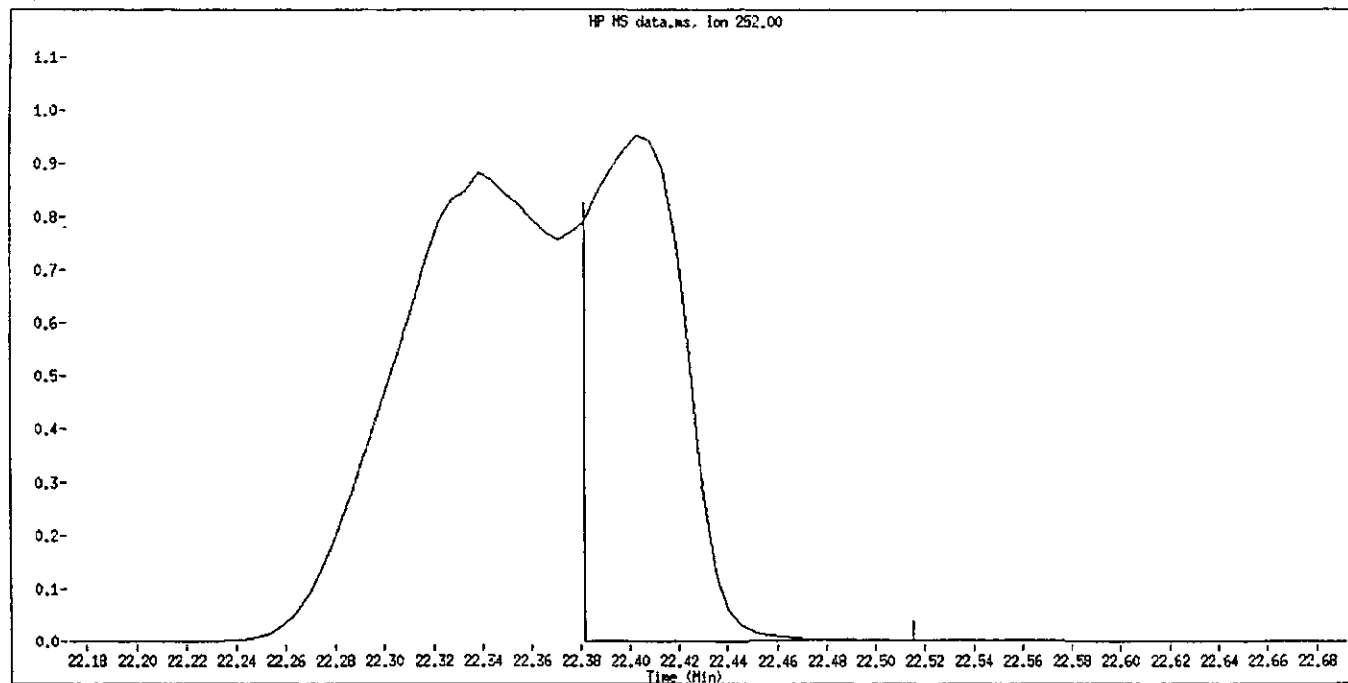
Client ID SSTD160

Compound Name: Benzo(k)fluoranthene

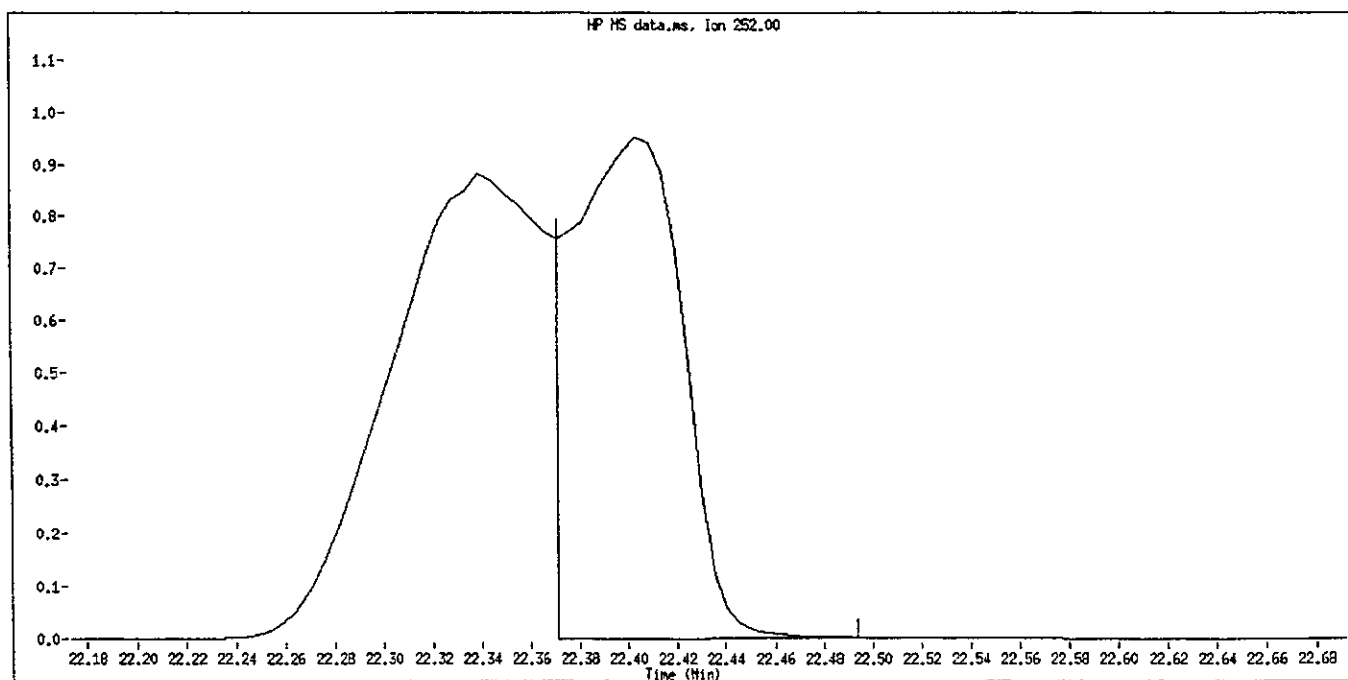
CAS #: 207-08-9

Report Date 02/26/2001

677 334



Original Integration



Manual Integration

Manually Integrated By BungardF

Manual Integration Reason Unknown

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

677 335

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1823048

Instrument ID: 722

Calibration Date: 02/28/01 Time: 2058

Lab File ID: F02280CN

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	1.757	0.01	1.3	20.0
bis(2-Chloroethyl) ether	1.345	1.330	0.01	1.1	50.0
2-Chlorophenol	1.274	1.307	0.01	2.6	50.0
1,3-Dichlorobenzene	1.428	1.502	0.01	5.2	50.0
1,4-Dichlorobenzene	1.453	1.544	0.01	6.3	20.0
1,2-Dichlorobenzene	1.344	1.418	0.01	5.5	50.0
2-Methylphenol	1.188	1.159	0.01	2.4	50.0
2,2'-oxybis(1-Chloropropane)	2.366	2.465	0.01	4.2	50.0
4-Methylphenol	1.262	1.263	0.01	0.1	50.0
Hexachloroethane	0.573	0.599	0.01	4.5	50.0
Nitrobenzene	0.404	0.433	0.01	7.2	50.0
Isophorone	0.644	0.660	0.01	2.5	50.0
2-Nitrophenol	0.181	0.192	0.01	6.1	20.0
2,4-Dimethylphenol	0.341	0.345	0.01	1.2	50.0
bis(2-Chloroethoxy) methane	0.401	0.412	0.01	2.7	50.0
N-Nitroso-di-n-propylamine	1.080	1.048	0.05	3.0	50.0
2,4-Dichlorophenol	0.265	0.276	0.01	4.2	20.0
1,2,4-Trichlorobenzene	0.297	0.317	0.01	6.7	50.0
Naphthalene	0.947	1.010	0.01	6.6	50.0
4-Chloroaniline	0.381	0.386	0.01	1.3	50.0
Hexachlorobutadiene	0.192	0.200	0.01	4.2	20.0
4-Chloro-3-Methylphenol	0.304	0.287	0.01	5.6	20.0
2-Methylnaphthalene	0.639	0.670	0.01	4.8	50.0
Hexachlorocyclopentadiene	0.359	0.395	0.05	10.0	50.0
2,4,6-Trichlorophenol	0.349	0.352	0.01	0.8	20.0
2,4,5-Trichlorophenol	0.371	0.374	0.01	0.8	50.0
2-Chloronaphthalene	1.036	1.118	0.01	7.9	50.0
2-Nitroaniline	0.408	0.413	0.01	1.2	50.0
Dimethylphthalate	1.233	1.236	0.01	0.2	50.0
Acenaphthylene	1.597	1.690	0.01	5.8	50.0
2,6-Dinitrotoluene	0.284	0.290	0.01	2.1	50.0
3-Nitroaniline	0.324	0.314	0.01	3.1	50.0
Acenaphthene	1.053	1.104	0.01	4.8	20.0
2,4-Dinitrophenol	0.147	0.160	0.05	8.8	50.0
4-Nitrophenol	0.200	0.184	0.05	8.0	50.0
Dibenzofuran	1.517	1.597	0.01	5.3	50.0
2,4-Dinitrotoluene	0.392	0.386	0.01	1.5	50.0

677 336

FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C18230148

Instrument ID: 722

Calibration Date: 02/28/01 Time: 2058

Lab File ID: F02280CN

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	1.262	0.01	0.0	50.0
4-Chlorophenyl-phenylether	0.622	0.640	0.01	2.9	50.0
Fluorene	1.256	1.304	0.01	3.8	50.0
4-Nitroaniline	0.334	0.313	0.01	6.3	50.0
4,6-Dinitro-2-methylphenol	0.112	0.126	0.01	12.5	50.0
N-Nitrosodiphenylamine	0.493	0.545	0.01	10.5	20.0
4-Bromophenyl-phenylether	0.192	0.202	0.01	5.2	50.0
Hexachlorobenzene	0.199	0.205	0.01	3.0	50.0
Pentachlorophenol	0.138	0.124	0.05	10.1	20.0
Phenanthrene	0.971	1.020	0.01	5.0	50.0
Anthracene	0.993	1.056	0.01	6.3	50.0
Carbazole	0.925	0.942	0.01	1.8	50.0
Di-n-Butylphthalate	1.111	1.169	0.01	5.2	50.0
Fluoranthene	1.084	1.125	0.01	3.8	20.0
Pyrene	0.982	1.040	0.01	5.9	50.0
Butylbenzylphthalate	0.457	0.478	0.01	4.6	50.0
3,3'-Dichlorobenzidine	0.402	0.392	0.01	2.5	50.0
Benzo (a) Anthracene	0.976	1.001	0.01	2.6	50.0
Chrysene	0.920	0.952	0.01	3.5	50.0
bis(2-ethylhexyl) Phthalate	0.641	0.651	0.01	1.6	50.0
Di-n-octylphthalate	1.027	1.215	0.01	18.3	20.0
Benzo (b) fluoranthene	1.041	1.108	0.01	6.4	50.0
Benzo (k) fluoranthene	1.069	1.252	0.01	17.1	50.0
Benzo (a) pyrene	1.009	1.065	0.01	5.6	20.0
Indeno (1,2,3-cd) pyrene	1.551	1.301	0.01	16.1	50.0
Dibenz (a,h) anthracene	1.273	1.089	0.01	14.4	50.0
Benzo (g,h,i) perylene	1.386	1.115	0.01	19.6	50.0
Pyridine	1.254	1.167	0.01	6.9	50.0
N-Nitrosodimethylamine	0.778	0.681	0.01	12.5	50.0
Aniline	1.896	1.974	0.01	4.1	50.0
Benzyl Alcohol	1.002	1.000	0.01	0.2	50.0
Benzoic Acid	0.161	0.160	0.01	0.6	50.0
2,3,4,6-Tetrachlorophenol	0.367	0.360	0.01	1.9	50.0
2,3,5,6-Tetrachlorophenol	0.381	0.368	0.01	3.4	50.0
1,2-Diphenylhydrazine	0.749	0.828	0.01	10.5	50.0
Benzidine	0.334	0.302	0.01	9.6	50.0
Methyl methanesulfonate	0.128	0.101	0.01	21.1	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract: 677 337

Lab Code:

Case No.:

SAS No.:

SDG No.:

CI/2230148

Instrument ID: 722

Calibration Date: 02/28/01 Time: 2058

Lab File ID: F02280CN

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	0.999	0.01	3.7	50.0
7,12-dimethylbenz [a] anthrace	0.533	0.636	0.01	19.3	50.0
1-Methylnaphthalene	0.667	0.700	0.01	4.9	50.0
Nitrobenzene-d5	0.383	0.410	0.01	7.0	50.0
2-Fluorobiphenyl	1.169	1.241	0.01	6.2	50.0
Terphenyl-d14	0.780	0.809	0.01	3.7	50.0
Phenol-d5	1.720	1.765	0.01	2.6	50.0
2-Fluorophenol	1.302	1.407	0.01	8.1	50.0
2,4,6-Tribromophenol	0.103	0.105	0.01	1.9	50.0
2-Chlorophenol-d4	1.292	1.365	0.01	5.6	50.0
1,2-Dichlorobenzene-d4	0.833	0.871	0.01	4.6	50.0

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F02280CN.D
Analysis Type: NONE

Injection Date: 28-FEB-2001 20:58
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\022801n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
67 N-Nitrosodimethylamine	50.0000	43.7743	12.5	50.0
66 Pyridine	50.0000	46.5379	6.9	50.0
87 Methyl methanesulfonate	50.0000	39.6099	20.8	50.0
185 2-Fluorophenol	50.0000	54.0421	8.1	50.0
184 Phenol-d5	50.0000	51.3104	2.6	50.0
1 Phenol	50.0000	50.6472	1.3	20.0
68 Aniline	50.0000	52.0379	4.1	50.0
2 bis(2-Chloroethyl)ether	50.0000	49.4387	1.1	50.0
187 2-Chlorophenol-d4	50.0000	52.8549	5.7	50.0
3 2-Chlorophenol	50.0000	51.2602	2.5	50.0
4 1,3-Dichlorobenzene	50.0000	52.5729	5.1	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	53.1037	6.2	20.0
69 Benzyl Alcohol	50.0000	49.8590	0.3	50.0
188 1,2-Dichlorobenzene-d4	50.0000	52.2574	4.5	50.0
6 1,2-Dichlorobenzene	50.0000	52.7429	5.5	50.0
7 2-Methylphenol	50.0000	48.7954	2.4	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	52.0880	4.2	50.0
9 4-Methylphenol	50.0000	50.0525	0.1	50.0
18 N-Nitroso-di-n-propylamine	50.0000	48.5108	3.0	50.0
12 Hexachloroethane	50.0000	52.3202	4.6	50.0
181 Nitrobenzene-d5	50.0000	53.5320	7.1	50.0
13 Nitrobenzene	50.0000	53.5176	7.0	50.0
14 Isophorone	50.0000	51.2175	2.4	50.0
15 2-Nitrophenol	50.0000	52.9510	5.9	20.0
16 2,4-Dimethylphenol	50.0000	50.6766	1.4	50.0
17 bis(2-Chloroethoxy)methane	50.0000	51.4465	2.9	50.0
71 Benzoic Acid	50.0000	49.7467	0.5	50.0
18 2,4-Dichlorophenol	50.0000	52.1697	4.3	20.0
19 1,2,4-Trichlorobenzene	50.0000	53.3046	6.6	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	53.3328	6.7	50.0
21 4-Chloroaniline	50.0000	50.6678	1.3	50.0
22 Hexachlorobutadiene	50.0000	51.9843	4.0	20.0
23 4-Chloro-3-Methylphenol	50.0000	47.1394	5.7	20.0
24 2-Methylnaphthalene	50.0000	52.4307	4.9	50.0
205 1-Methylnaphthalene	50.0000	52.4420	4.9	50.0
25 Hexachlorocyclopentadiene	50.0000	55.0091	10.0	50.0
26 2,4,6-Trichlorophenol	50.0000	50.4896	1.0	20.0

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F02280CN.D
Analysis Type: NONE

Injection Date: 28-FEB-2001 20:58
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\022801n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	50.3573	0.7	50.0
182 2-Fluorobiphenyl	50.0000	53.0956	6.2	50.0
28 2-Chloronaphthalene	50.0000	53.9498	7.9	50.0
29 2-Nitroaniline	50.0000	50.6314	1.3	50.0
30 Dimethylphthalate	50.0000	50.1098	0.2	50.0
31 Acenaphthylene	50.0000	52.8986	5.8	50.0
32 2,6-Dinitrotoluene	50.0000	51.0516	2.1	50.0
33 3-Nitroaniline	50.0000	48.4987	3.0	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	52.3770	4.8	20.0
35 2,4-Dinitrophenol	50.0000	54.6176	9.2	50.0
36 4-Nitrophenol	50.0000	45.8299	8.3	50.0
37 Dibenzofuran	50.0000	52.6202	5.2	50.0
38 2,4-Dinitrotoluene	50.0000	49.1703	1.7	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	48.3027	3.4	50.0
114 2-Naphthylamine	50.0000	51.8865	3.8	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	49.0552	1.9	50.0
39 Diethylphthalate	50.0000	49.9810	0.0	50.0
41 Fluorene	50.0000	51.9041	3.8	50.0
40 4-Chlorophenyl-phenylether	50.0000	51.4624	2.9	50.0
42 4-Nitroaniline	50.0000	46.8754	6.2	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	56.3089	12.6	50.0
44 N-Nitrosodiphenylamine	50.0000	55.1765	10.4	20.0
78 1,2-Diphenylhydrazine	50.0000	55.2602	10.5	50.0
186 2,4,6-Tribromophenol	50.0000	51.1122	2.2	50.0
45 4-Bromophenyl-phenylether	50.0000	52.5709	5.1	50.0
46 Hexachlorobenzene	50.0000	51.4783	3.0	50.0
47 Pentachlorophenol	50.0000	45.1270	9.7	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	52.4822	5.0	50.0
49 Anthracene	50.0000	53.1956	6.4	50.0
50 Carbazole	50.0000	50.9405	1.9	50.0
51 Di-n-Butylphthalate	50.0000	52.5975	5.2	50.0
52 Fluoranthene	50.0000	51.8815	3.8	20.0
79 Benzidine	50.0000	45.1831	9.6	50.0
53 Pyrene	50.0000	52.9423	5.9	50.0
183 Terphenyl-d14	50.0000	51.8166	3.6	50.0
54 Butylbenzylphthalate	50.0000	52.3290	4.7	50.0
56 Benzo(a)Anthracene	50.0000	51.2685	2.5	50.0

Data File: \\QPITPA02\d\chem\722.i\022801n.b\F02280CN.D
Report Date: 02/28/2001

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

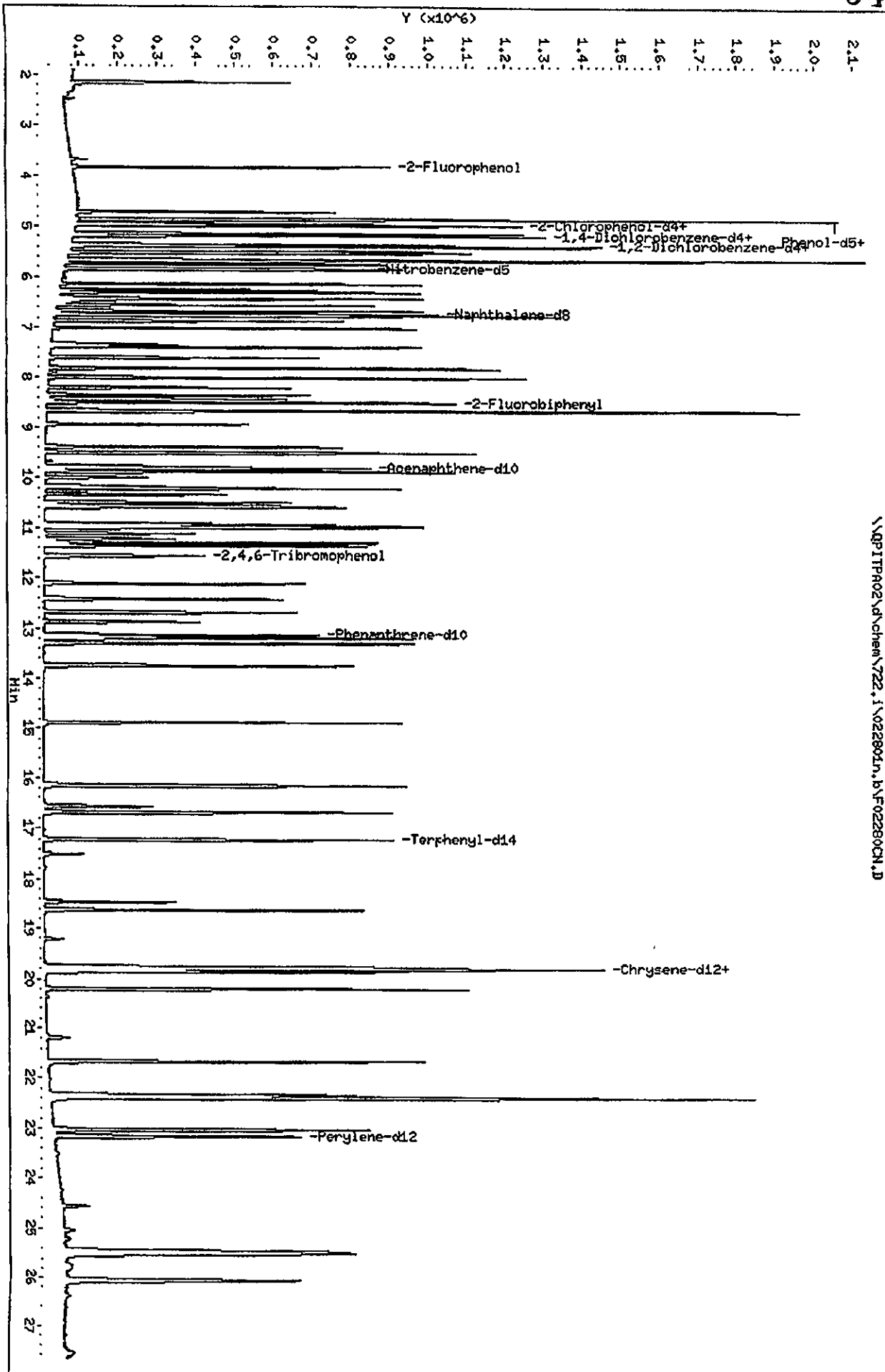
Instrument ID: 722.i
Lab File ID: F02280CN.D
Analysis Type: NONE

Injection Date: 28-FEB-2001 20:58
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\022801n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
55 3,3'-Dichlorobenzidine	50.0000	48.8546	2.3	50.0
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
57 Chrysene	50.0000	51.7517	3.5	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	50.7414	1.5	50.0
59 Di-n-octylphthalate	50.0000	59.1374	18.3	20.0
60 Benzo(b)fluoranthene	50.0000	53.2504	6.5	50.0
61 Benzo(k)fluoranthene	50.0000	58.5599	17.1	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	59.6339	19.3	50.0
62 Benzo(a)pyrene	50.0000	52.7745	5.5	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	41.9504	16.1	50.0
64 Dibenzo(a,h)anthracene	50.0000	42.7842	14.4	50.0
65 Benzo(g,h,i)perylene	50.0000	40.2268	19.5	50.0

Data File: \NPITPA02\chem\722.i\022801n.b\F02280CH.D
 Date : 28-FEB-2001 20:58
 Client ID: SST0050
 Sample Info: SST0050 (25ppb) 77-13-14
 Column Phase: Hp5-MS

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



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F02280CN.D
 Lab Smp Id: sstd050 Client Smp ID: SST050
 Inj Date : 28-FEB-2001 20:58
 Operator : 007062 Inst ID: 722.i
 Smp Info : SST050 (25ppb) 77-13-14
 Misc Info : sstd050,022801n.b,8270b.m,2-root.sub,2,2
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
 Meth Date : 28-Feb-2001 21:20 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: PITPC083

*ind
2/28/01*

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.173	5.173	(1.000)	172771	40.0000	
* 2 Naphthalene-d8	136	6.733	6.733	(1.000)	637392	40.0000	
* 3 Acenaphthene-d10	164	9.805	9.805	(1.000)	351161	40.0000	
* 4 Phenanthrene-d10	188	13.133	13.133	(1.000)	640090	40.0000	
* 5 Chrysene-d12	240	19.794	19.794	(1.000)	709036	40.0000	
* 6 Perylene-d12	264	23.155	23.155	(1.000)	629475	40.0000	
10 N-Nitrosodimethylamine	74	2.133	2.133	(0.412)	147090	50.0000	43.8
9 Pyridine	79	2.133	2.133	(0.412)	252040	50.0000	46.5
16 Methyl methanesulfonate	80	3.672	3.672	(0.710)	21902	50.0000	39.6
21 Aniline	93	4.863	4.863	(0.940)	426226	50.0000	52.0
22 Phenol	94	4.858	4.858	(0.939)	379384	50.0000	50.6
23 bis(2-Chloroethyl) ether	93	4.933	4.933	(0.954)	287253	50.0000	49.4
24 2-Chlorophenol	128	4.981	4.981	(0.963)	282202	50.0000	51.3
26 1,3-Dichlorobenzene	146	5.130	5.130	(0.992)	324308	50.0000	52.6
27 1,4-Dichlorobenzene	146	5.189	5.189	(1.003)	333346	50.0000	53.1
28 1,2-Dichlorobenzene	146	5.397	5.397	(1.043)	306276	50.0000	52.7
29 Benzyl Alcohol	108	5.355	5.355	(1.035)	215872	50.0000	49.8
30 2-Methylphenol	108	5.504	5.504	(1.064)	250250	50.0000	48.8
31 2,2'-oxybis(1-Chloropropane)	45	5.526	5.526	(1.068)	532326	50.0000	52.1
32 N-Nitroso-di-n-propylamine	70	5.691	5.691	(1.100)	226244	50.0000	48.5
192 4-Methylphenol	108	5.664	5.664	(1.095)	272791	50.0000	50.0
34 Hexachloroethane	117	5.750	5.750	(1.112)	129470	50.0000	52.3
35 Nitrobenzene	77	5.857	5.857	(0.870)	344768	50.0000	53.5
41 Isophorone	82	6.140	6.140	(0.912)	525937	50.0000	51.2
42 2-Nitrophenol	139	6.252	6.252	(0.929)	153025	50.0000	53.0
43 2,4-Dimethylphenol	107	6.300	6.300	(0.936)	275162	50.0000	50.7

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Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	6.428	6.428	(0.955)	328413	50.0000	51.4
48 2,4-Dichlorophenol	162	6.557	6.557	(0.974)	220188	50.0000	52.2
49 Benzoic Acid	122	6.455	6.455	(0.959)	127439	50.0000	49.7
50 1,2,4-Trichlorobenzene	180	6.674	6.674	(0.991)	252384	50.0000	53.3
51 Naphthalene	128	6.760	6.760	(1.004)	804660	50.0000	53.3
52 4-Chloroaniline	127	6.861	6.861	(1.019)	307876	50.0000	50.7
56 Hexachlorobutadiene	225	7.016	7.016	(1.042)	159090	50.0000	52.0
59 4-Chloro-3-Methylphenol	107	7.604	7.604	(1.129)	228482	50.0000	47.1
62 2-Methylnaphthalene	142	7.812	7.812	(1.160)	533924	50.0000	52.4
205 1-Methylnaphthalene	142	7.999	7.999	(1.188)	557416	50.0000	52.4
64 Hexachlorocyclopentadiene	237	8.202	8.202	(0.837)	173488	50.0000	55.0
66 2,4,6-Trichlorophenol	196	8.357	8.357	(0.852)	154560	50.0000	50.5
67 2,4,5-Trichlorophenol	196	8.426	8.426	(0.859)	164060	50.0000	50.4
70 2-Chloronaphthalene	162	8.672	8.672	(0.884)	490531	50.0000	53.9
73 2-Nitroaniline	65	8.934	8.934	(0.911)	181204	50.0000	50.6
76 Dimethylphthalate	163	9.377	9.377	(0.956)	542402	50.0000	50.1
78 2,6-Dinitrotoluene	165	9.505	9.505	(0.969)	127082	50.0000	51.0
79 Acenaphthylene	152	9.489	9.489	(0.968)	741911	50.0000	52.9
81 3-Nitroaniline	138	9.773	9.773	(0.997)	137965	50.0000	48.5
82 Acenaphthene	153	9.874	9.874	(1.007)	484413	50.0000	52.4
83 2,4-Dinitrophenol	184	9.992	9.992	(1.019)	70483	50.0000	54.6
85 4-Nitrophenol	109	10.168	10.168	(1.037)	80558	50.0000	45.8
86 Dibenzofuran	168	10.211	10.211	(1.041)	700947	50.0000	52.6
87 2,4-Dinitrotoluene	165	10.328	10.328	(1.053)	169347	50.0000	49.2
91 2,3,5,6-Tetrachlorophenol	232	10.488	10.488	(1.070)	161374	50.0000	48.3
88 2,3,4,6-Tetrachlorophenol	232	10.590	10.590	(1.080)	158161	50.0000	49.0
92 2-Naphthylamine	143	10.558	10.558	(1.077)	438562	50.0000	51.9
93 Diethylphthalate	149	10.921	10.921	(1.114)	553904	50.0000	50.0
94 Fluorene	166	10.964	10.964	(1.118)	572435	50.0000	51.9
95 4-Chlorophenyl-phenylether	204	11.001	11.001	(1.122)	280893	50.0000	51.5
96 4-Nitroaniline	138	11.119	11.119	(1.134)	137317	50.0000	46.9
98 4,6-Dinitro-2-methylphenol	198	11.226	11.226	(0.855)	101079	50.0000	56.3
99 N-Nitrosodiphenylamine	169	11.295	11.295	(0.860)	435785	50.0000	55.2
100 1,2-Diphenylhydrazine	77	11.354	11.354	(0.865)	662315	50.0000	55.3
106 4-Bromophenyl-phenylether	248	12.118	12.118	(0.923)	161622	50.0000	52.6
107 Hexachlorobenzene	284	12.422	12.422	(0.946)	164015	50.0000	51.5
111 Pentachlorophenol	266	12.866	12.866	(0.980)	99549	50.0000	45.1
115 Phenanthrene	178	13.191	13.191	(1.004)	815758	50.0000	52.5
116 Anthracene	178	13.298	13.298	(1.013)	844889	50.0000	53.2
119 Carbazole	167	13.736	13.736	(1.046)	753829	50.0000	50.9
120 Di-n-Butylphthalate	149	14.874	14.874	(1.133)	935626	50.0000	52.6
123 Fluoranthene	202	16.140	16.140	(1.229)	900376	50.0000	51.9
124 Benzidine	184	16.557	16.557	(0.836)	267497	50.0000	45.2
125 Pyrene	202	16.685	16.685	(0.843)	921903	50.0000	52.9
131 Butylbenzylphthalate	149	18.624	18.624	(0.941)	423694	50.0000	52.3
135 3,3'-Dichlorobenzidine	252	19.794	19.794	(1.000)	347822	50.0000	48.8
136 Benzo(a)Anthracene	228	19.752	19.752	(0.998)	886839	50.0000	51.3

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Data File: \\QPITPA02\d\chem\722.i\022801n.b\F02280CN.D
 Report Date: 28-Feb-2001 21:31

Page 3

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (NG)	ON-COL (NG)
-----	----		==	-----	-----	-----	-----	-----
137 Chrysene	228		19.858	19.858	(1.003)	844270	50.0000	51.8
139 bis(2-ethylhexyl)Phthalate	149		20.200	20.200	(1.021)	576807	50.0000	50.7
140 Di-n-octylphthalate	149		21.664	21.664	(0.936)	956129	50.0000	59.1
141 Benzo(b)fluoranthene	252		22.337	22.337	(0.965)	872200	50.0000	53.2
142 Benzo(k)fluoranthene	252		22.396	22.396	(0.967)	985099	50.0000	58.6
143 7,12-dimethylbenz(a)anthracen	256		22.396	22.396	(0.967)	500665	50.0000	59.6
146 Benzo(a)pyrene	252		23.032	23.032	(0.995)	837880	50.0000	52.8
149 Indeno(1,2,3-cd)pyrene	276		25.457	25.457	(1.099)	1023962	50.0000	42.0
150 Dibenz(a,h)anthracene	278		25.500	25.500	(1.101)	857264	50.0000	42.8
151 Benzo(g,h,i)perylene	276		26.061	26.061	(1.125)	877379	50.0000	40.2
\$ 154 Nitrobenzene-d5	82		5.835	5.835	(0.867)	326410	50.0000	53.5
\$ 155 2-Fluorobiphenyl	172		8.496	8.496	(0.867)	544746	50.0000	53.1
\$ 156 Terphenyl-d14	244		17.214	17.214	(0.870)	716756	50.0000	51.8
\$ 157 Phenol-d5	99		4.847	4.847	(0.937)	381143	50.0000	51.3
\$ 158 2-Fluorophenol	112		3.827	3.827	(0.740)	303959	50.0000	54.0
\$ 159 2,4,6-Tribromophenol	330		11.557	11.557	(0.880)	84219	50.0000	51.1
\$ 186 2-Chlorophenol-d4	132		4.965	4.965	(0.960)	294894	50.0000	52.8
\$ 187 1,2-Dichlorobenzene-d4	152		5.381	5.381	(1.040)	188049	50.0000	52.2

677 345

GC/MS SEMIVOLATILE
QC DATA

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Instrument: 722.i

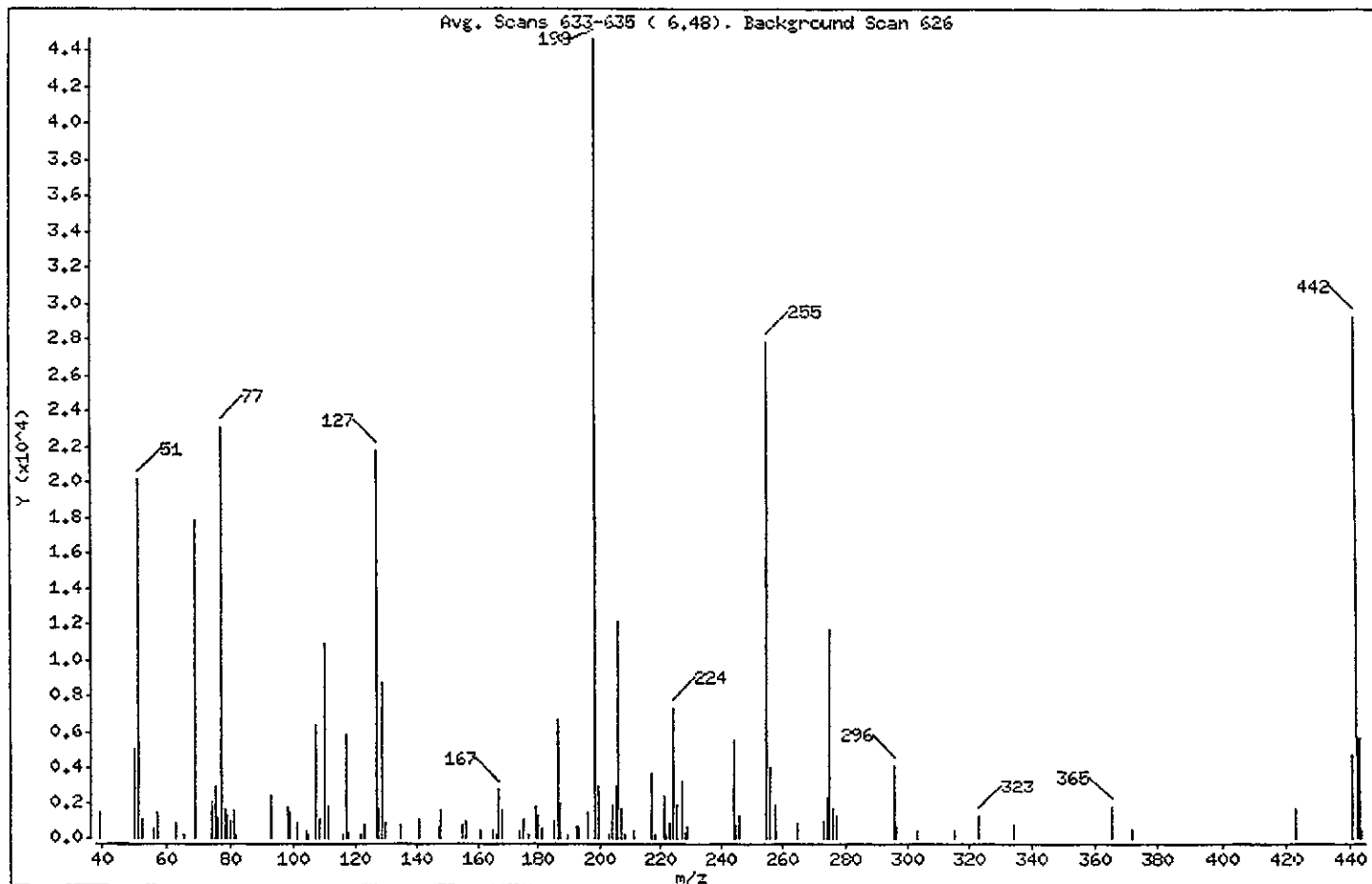
Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	26.09
365	Greater than 1.00% of mass 198	3.79
441	Present, but less than mass 443	10.57
442	40.00 - 100.00% of mass 198	65.60
443	17.00 - 23.00% of mass 442	12.63 (10.25)

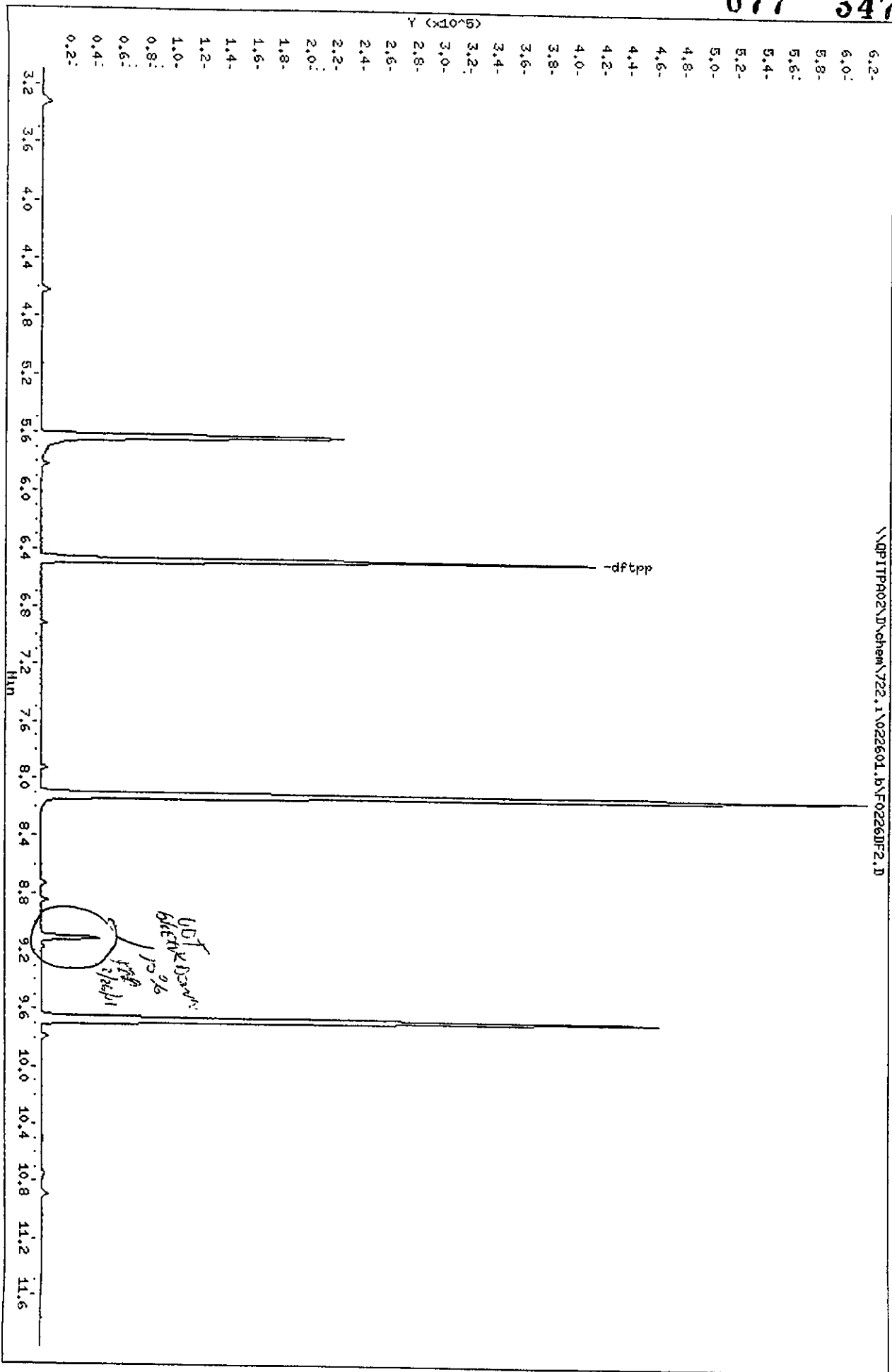
Date File: \\QIPITP002\chem\722.1\022601.b\F02260F2.D
 Date : 26-FEB-2001 10:46
 Client ID: DFTFP02
 Sample Info: DFTFP050 (25ppb) 77/06/09

Instrument: 722.i

Operator: 007062
 Column diameter: 2.00

Column phase:

\\QIPITP002\chem\722.1\022601.b\F02260F2.D



Data File: \\QPITPA02\ID\chem\722.1\022601.b\F0226DF2.D

Page 4

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Instrument: 722.i

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

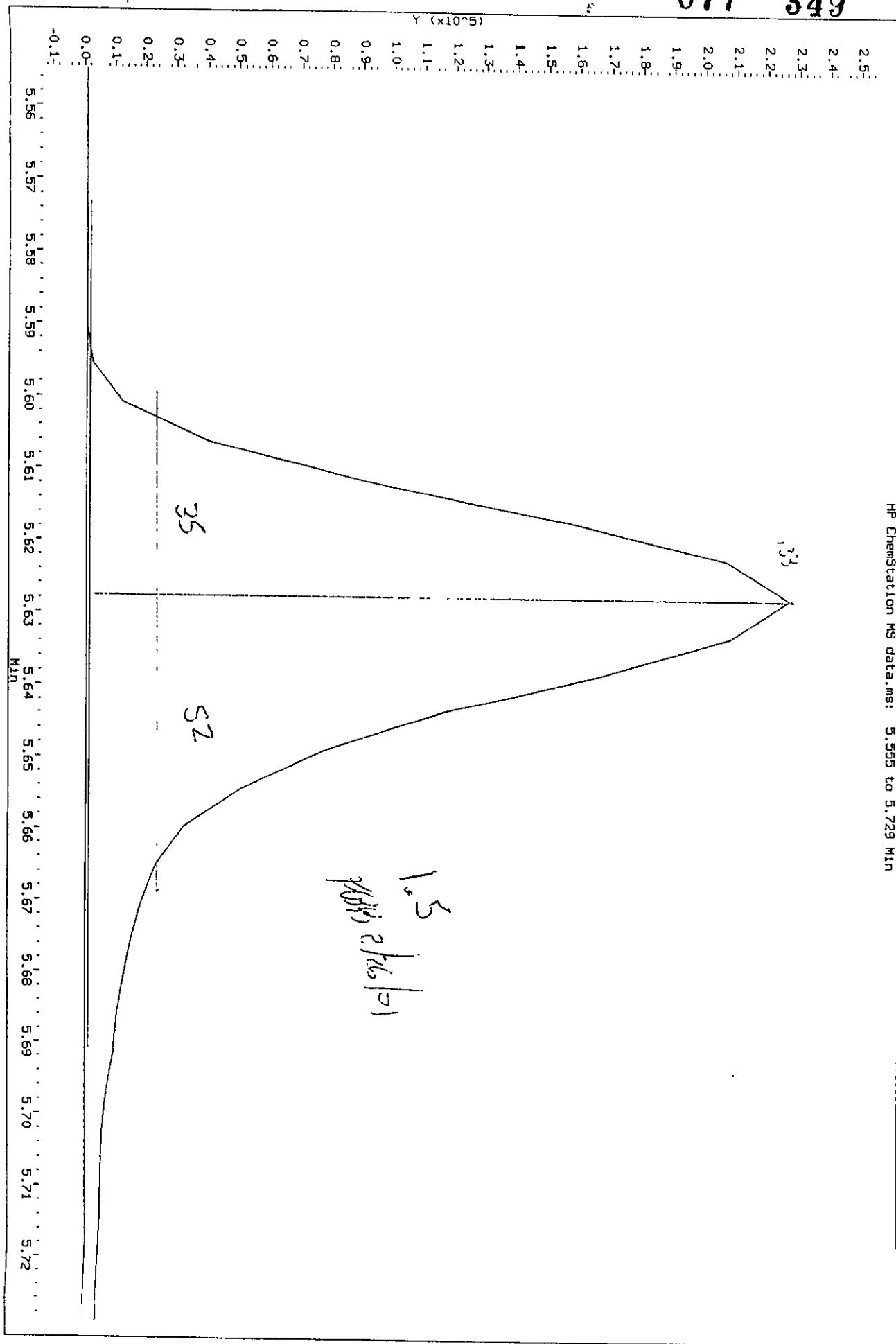
Location of Maximum: 198.00

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	253.00	1898
57.00	1414	123.00	741	193.00	629	265.00	795
63.00	927	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		

Data File: \QIPITPA02\chem\722.1\022601.b\F02260F2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

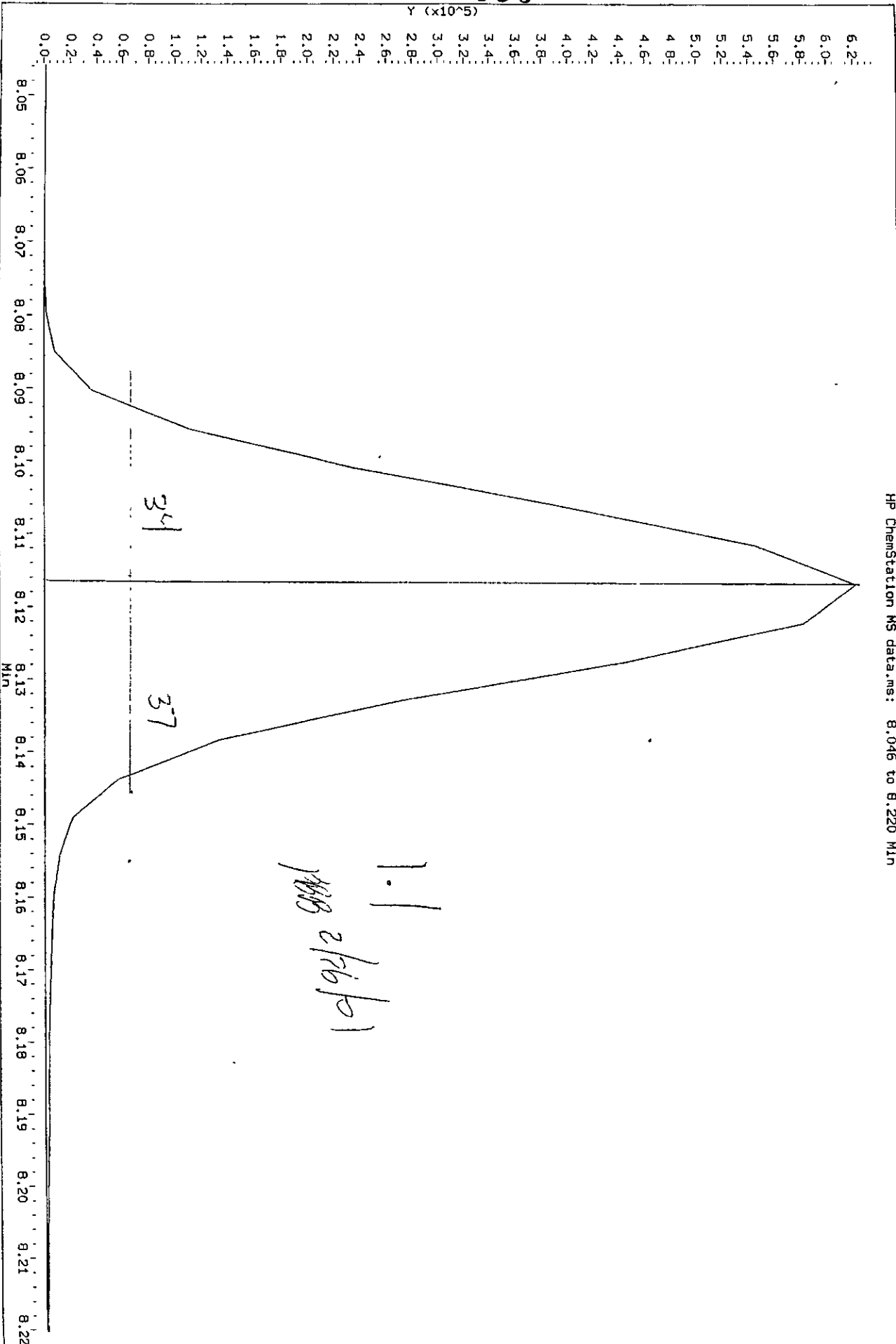
677 349



677 350

Data File: \\QIPITPA02\chem\722.1\022601.b\F0226DF2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 8.046 to 8.220 Min



Date : 28-FEB-2001 20:08

Client ID: DFTPP02

Instrument: 722.i

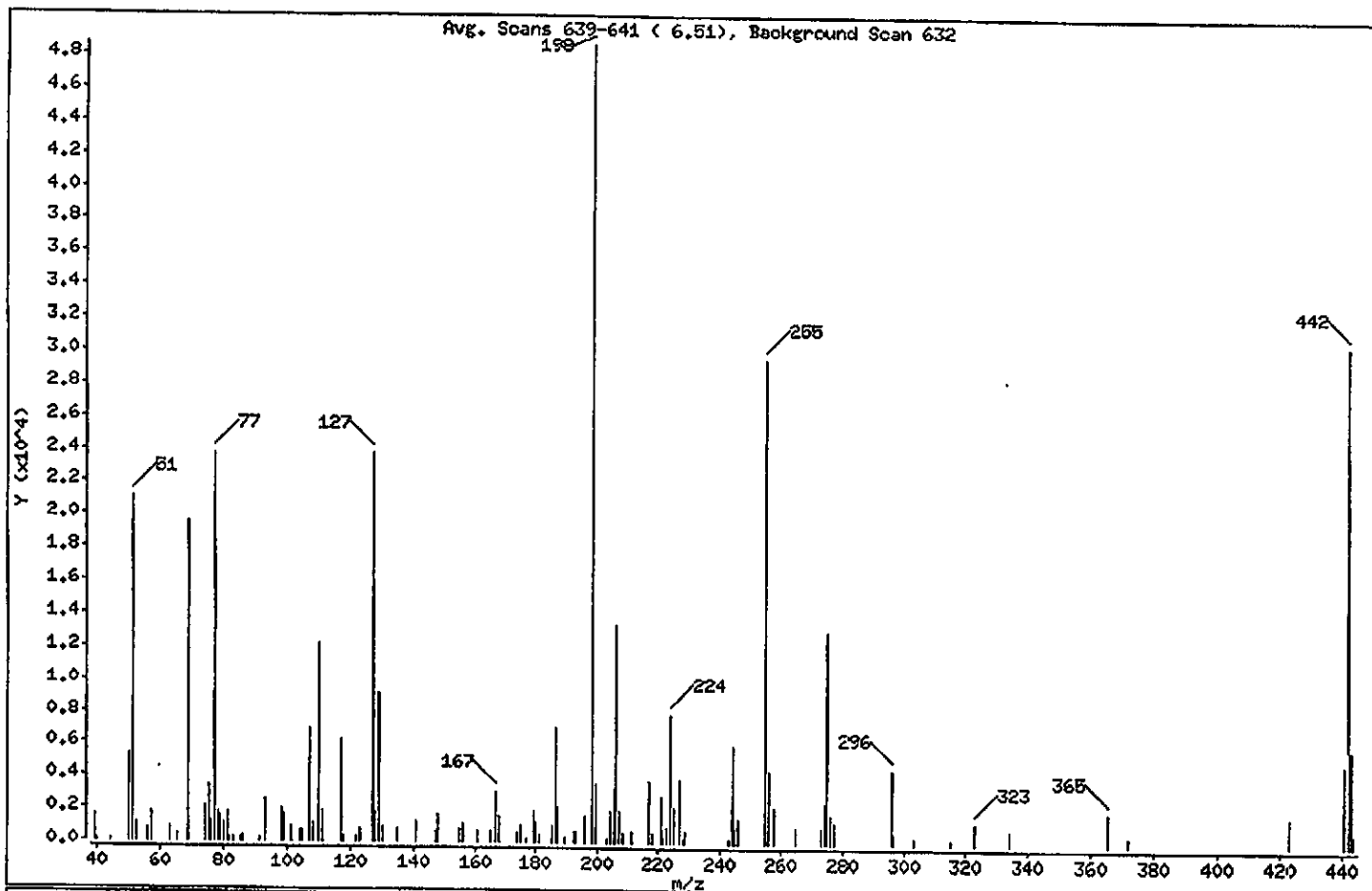
Sample Info: DFTPP050 (25ppb) 77/06/09

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	43.19
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.32
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.84
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	26.65
365	Greater than 1.00% of mass 198	3.82
441	Present, but less than mass 443	10.23
442	40.00 - 100.00% of mass 198	62.83
443	17.00 - 23.00% of mass 442	12.05 (19.18)

677 352

Data File: \\QPITPA02\J\chem\722.i\022801n.b\F0228DFN.D

Page 4

Date : 28-FEB-2001 20:08

Client ID: DFTPP02

Instrument: 722.i

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

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0228DFN.D

Spectrum: Avg. Scans 639-641 (6.51), Background Scan 632

Location of Maximum: 198.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1614	104.00	623	180.00	1271	243.00	201
40.00	103	105.00	626	181.00	396	244.00	5929
44.00	166	107.00	6944	185.00	984	245.00	923
50.00	5324	108.00	1084	186.00	7031	246.00	1439
51.00	21024	110.00	12145	187.00	2081	255.00	29568
52.00	1107	111.00	1864	189.00	346	256.00	4338
56.00	737	117.00	6298	192.00	634	258.00	2096
57.00	1750	118.00	368	193.00	701	265.00	906
63.00	889	122.00	379	196.00	1527	273.00	891
65.00	394	123.00	796	198.00	48680	274.00	2398
69.00	19624	127.00	23776	199.00	3428	275.00	12971
74.00	2114	128.00	1797	203.00	182	276.00	1680
75.00	3315	129.00	9112	204.00	1924	277.00	1261
76.00	1197	130.00	876	205.00	3209	296.00	4473
77.00	23688	135.00	794	206.00	13357	297.00	608
78.00	1792	141.00	1222	207.00	1957	303.00	355
79.00	1514	147.00	710	208.00	598	315.00	214
80.00	1154	148.00	1717	211.00	623	323.00	1203
81.00	1806	155.00	779	217.00	3667	334.00	772
82.00	194	156.00	1080	218.00	570	365.00	1861
83.00	184	161.00	629	221.00	2847	372.00	411
85.00	187	165.00	631	222.00	385	423.00	1640
86.00	364	167.00	2974	223.00	857	441.00	4979
91.00	176	168.00	1598	224.00	7817	442.00	30594
93.00	2850	174.00	573	225.00	2095	443.00	5865
98.00	1975	175.00	974	227.00	3754	444.00	617
99.00	1703	177.00	212	228.00	200		
101.00	915	179.00	1944	229.00	703		

677 353

Data File: \\QPITPA02\Unchem\722.1\022801n.b\F022801FN.D
Date: 28-FEB-2001 20:08
Client ID: DFTPP02
Sample Info: DFTPP050 (259pb) 77/06/09

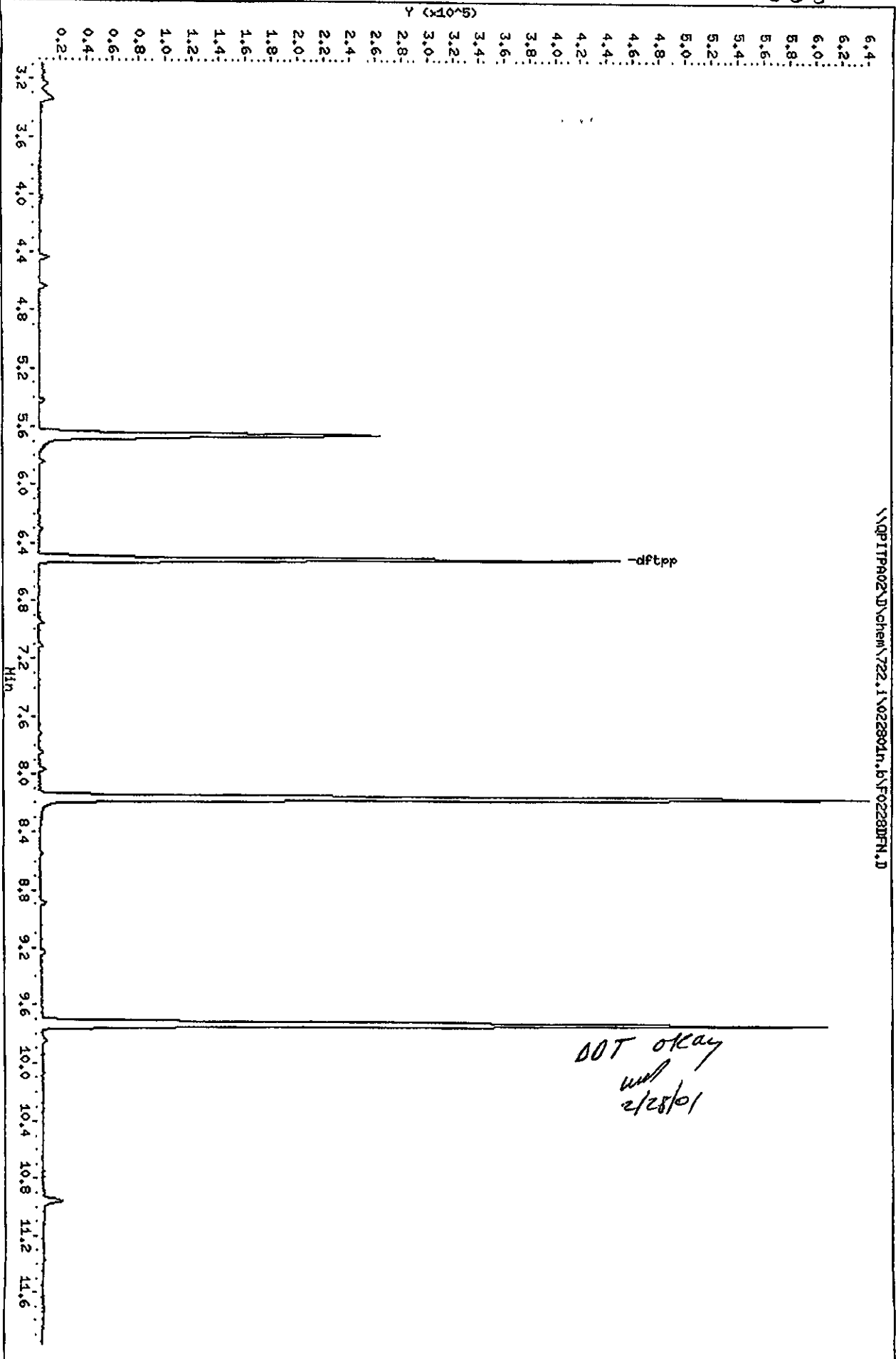
Instrument: 722.1

Operator: 007062

Column diameter: 2.00

Column phase:

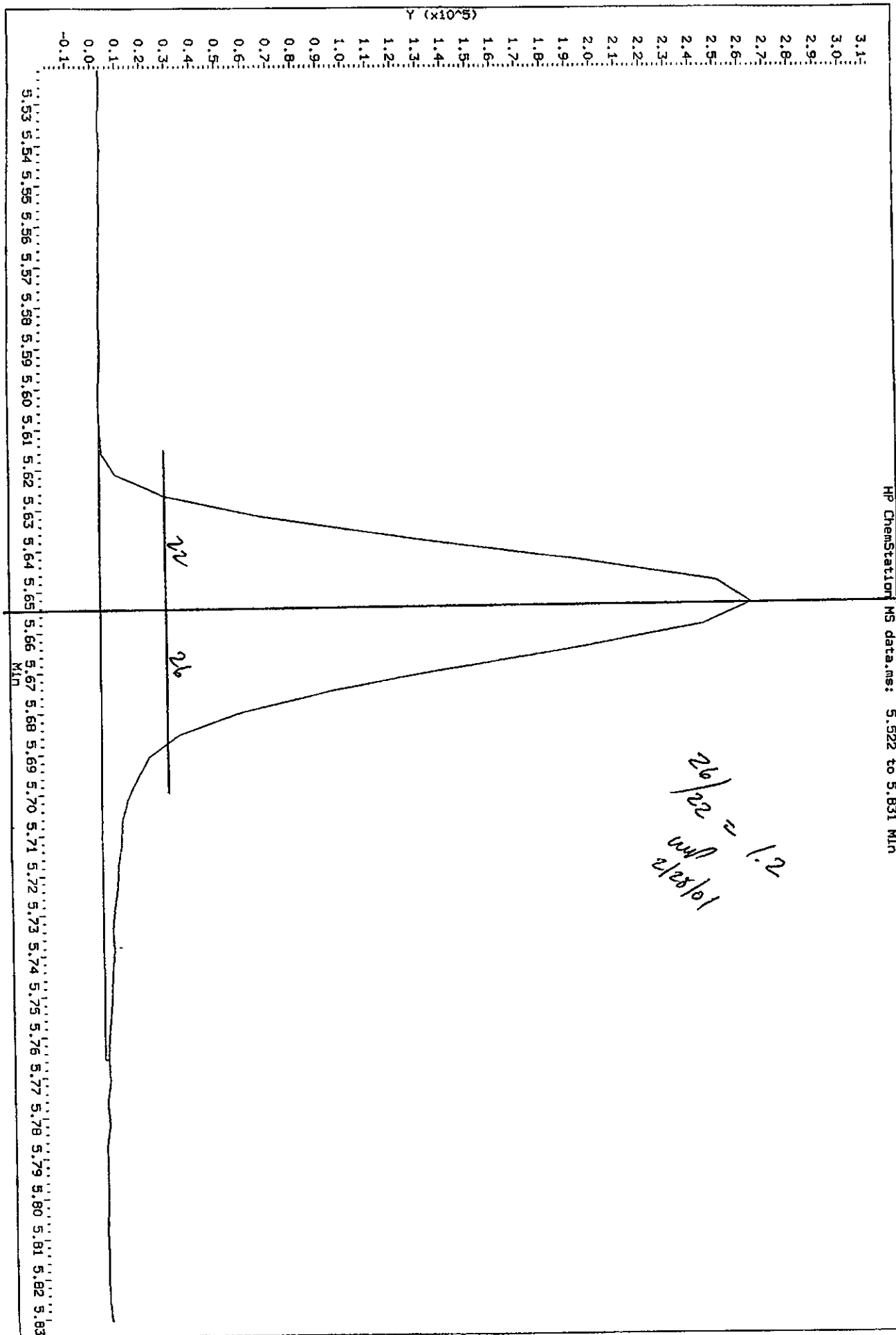
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677 354

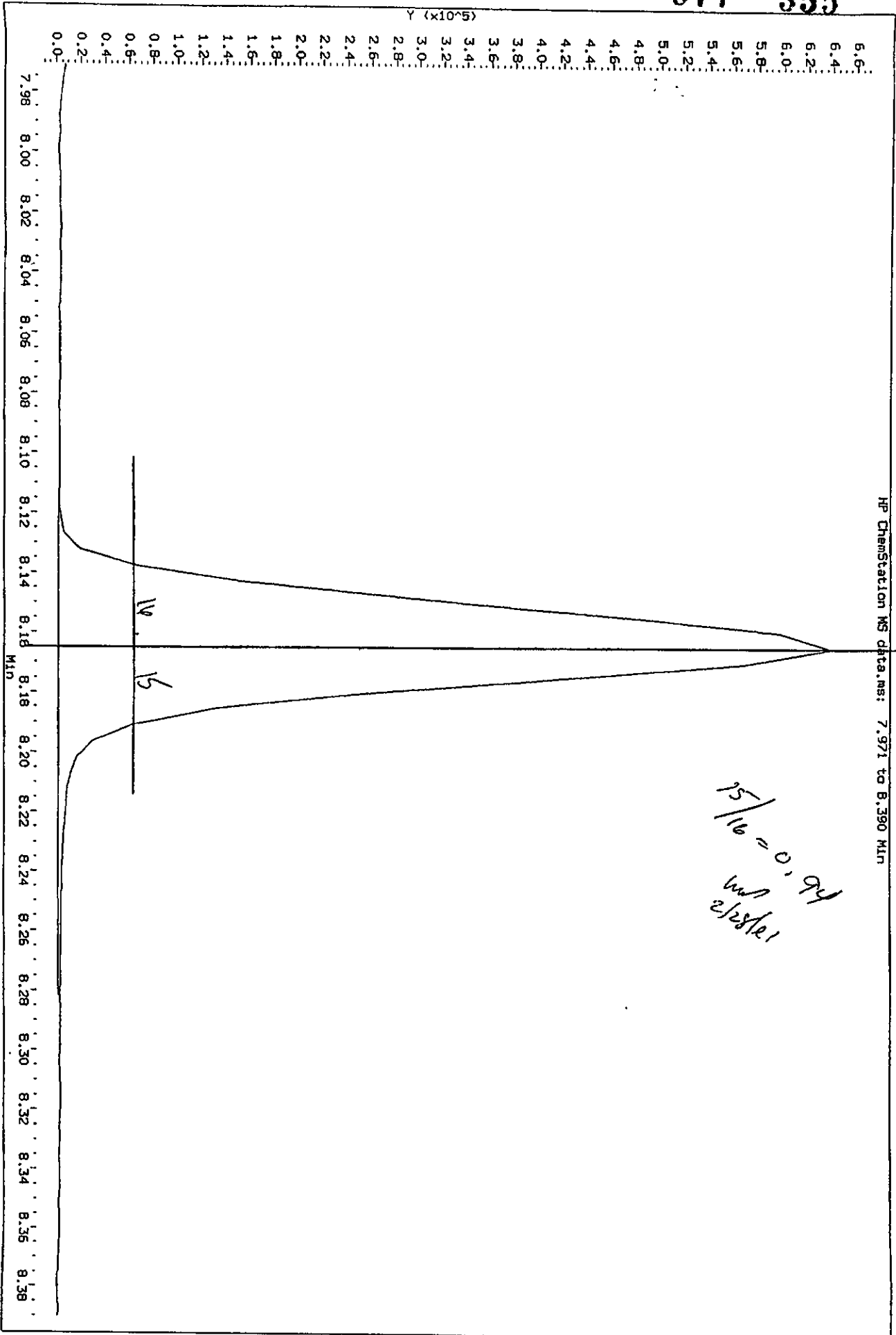
Data File: \\QPIPP02\chem\722.1\022801n.b\F0228DFN.D
 Injection Date: 28-FEB-2001 20:08
 Instrument: 722.1
 Client Sample ID: DFIPP02

HP ChemStation MS data.ms: 5.522 to 5.831 Min



677 355

Data File: \\DFITPA02\chem\722_1\022801n.b\F022801N.D
 Injection Date: 28-FEB-2001 20:08
 Instrument: 722.1
 Client Sample ID: DFITP02



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

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: C1B270000 102
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 02/22/01
Work Order: DWM121AA Date Extracted: 02/26/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1058102

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

677 358

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AA

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

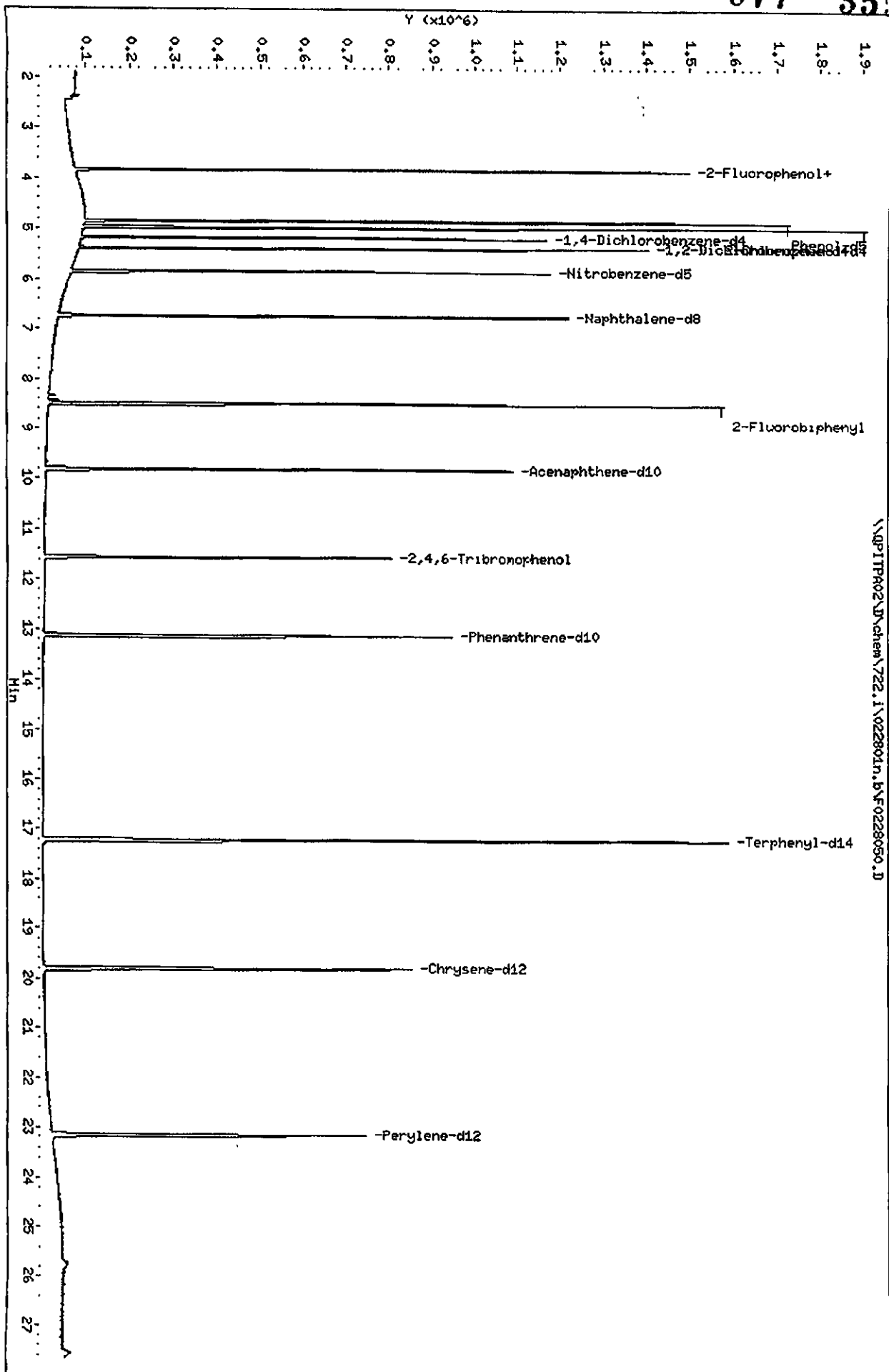
QC Batch: 1058102

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
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: \AQITPA02\chem\722.1\022801n.b\F0228050.D
 Date : 28-FEB-2001 21:31
 Client ID: INTRA-LAB BLANK
 Sample Info: CIB20250-BLK 2/26/01 h2o (1058102)
 Volume Injected (uL): 2.0
 Column Phase: Hp5-MS

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



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228050.D
 Lab Smp Id: DWM121AA Client Smp ID: INTRA-LAB BLANK
 Inj Date : 28-FEB-2001 21:31
 Operator : 007062 Inst ID: 722.i
 Smp Info : C1B220250-BLK 2/26/01 h2o (1058102)
 Misc Info : dwm121aa,022801n.b,8270b.m,2-root.sub
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
 Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 3 QC Sample: METHOD BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

100B
3/01/01

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.178	5.173	(1.000)	213418	40.0000	(Q)
* 2 Naphthalene-d8	136	6.738	6.733	(1.000)	805500	40.0000	
* 3 Acenaphthene-d10	164	9.815	9.805	(1.000)	459257	40.0000	
* 4 Phenanthrene-d10	188	13.143	13.133	(1.000)	816712	40.0000	
* 5 Chrysene-d12	240	19.794	19.794	(1.000)	810252	40.0000	
* 6 Perylene-d12	264	23.165	23.155	(1.000)	736159	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						
27 1,4-Dichlorobenzene	146						
28 1,2-Dichlorobenzene	146						
29 Benzyl Alcohol	108						
30 2-Methylphenol	108						
31 2,2'-oxybis(1-Chloropropane)	45						
32 N-Nitroso-di-n-propylamine	70						
192 4-Methylphenol	108						
34 Hexachloroethane	117						
35 Nitrobenzene	77						
41 Isophorone	82						
42 2-Nitrophenol	139						
43 2,4-Dimethylphenol	107						
44 bis(2-Chloroethoxy)methane	93						
48 2,4-Dichlorophenol	162						
49 Benzoic Acid	122						
50 1,2,4-Trichlorobenzene	180						
51 Naphthalene	128						
52 4-Chloroaniline	127						
56 Hexachlorobutadiene	224						
59 4-Chloro-3-Methylphenol	107						
62 2-Methylnaphthalene	142						
205 1-Methylnaphthalene	142						
64 Hexachlorocyclopentadiene	236						
66 2,4,6-Trichlorophenol	196						
67 2,4,5-Trichlorophenol	196						
70 2-Chloronaphthalene	162						
73 2-Nitroaniline	65						
76 Dimethylphthalate	163						
78 2,6-Dinitrotoluene	165						
79 Acenaphthylene	152						
81 3-Nitroaniline	138						
82 Acenaphthene	153						
83 2,4-Dinitrophenol	184						
85 4-Nitrophenol	109						
86 Dibenzofuran	168						
87 2,4-Dinitrotoluene	165						
91 2,3,5,6-Tetrachlorophenol	232						
88 2,3,4,6-Tetrachlorophenol	232						
92 2-Naphthylamine	143						
93 Diethylphthalate	149						
94 Fluorene	166						
95 4-Chlorophenyl-phenylether	204						
96 4-Nitroaniline	138						
98 4,6-Dinitro-2-methylphenol	198						
99 N-Nitrosodiphenylamine	169						
100 1,2-Diphenylhydrazine	77						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	----	--	-----	-----	-----	-----	-----
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl) Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b) fluoranthene	252				Compound Not Detected.		
142 Benzo(k) fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.841	5.835	(0.867)	479342	62.2066	31.1
\$ 155 2-Fluorobiphenyl	172	8.501	8.496	(0.866)	818306	60.9861	30.5
\$ 156 Terphenyl-d14	244	17.225	17.214	(0.870)	1257229	79.5354	39.8
\$ 157 Phenol-d5	99	4.847	4.847	(0.936)	703694	76.6905	38.3
\$ 158 2-Fluorophenol	112	3.832	3.827	(0.740)	536790	77.2611	38.6
\$ 159 2,4,6-Tribromophenol	330	11.567	11.557	(0.880)	172252	81.9314	41.0
\$ 186 2-Chlorophenol-d4	132	4.970	4.965	(0.960)	598284	86.8094	43.4
\$ 187 1,2-Dichlorobenzene-d4	152	5.386	5.381	(1.040)	250694	56.3976	28.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1B270000 102
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

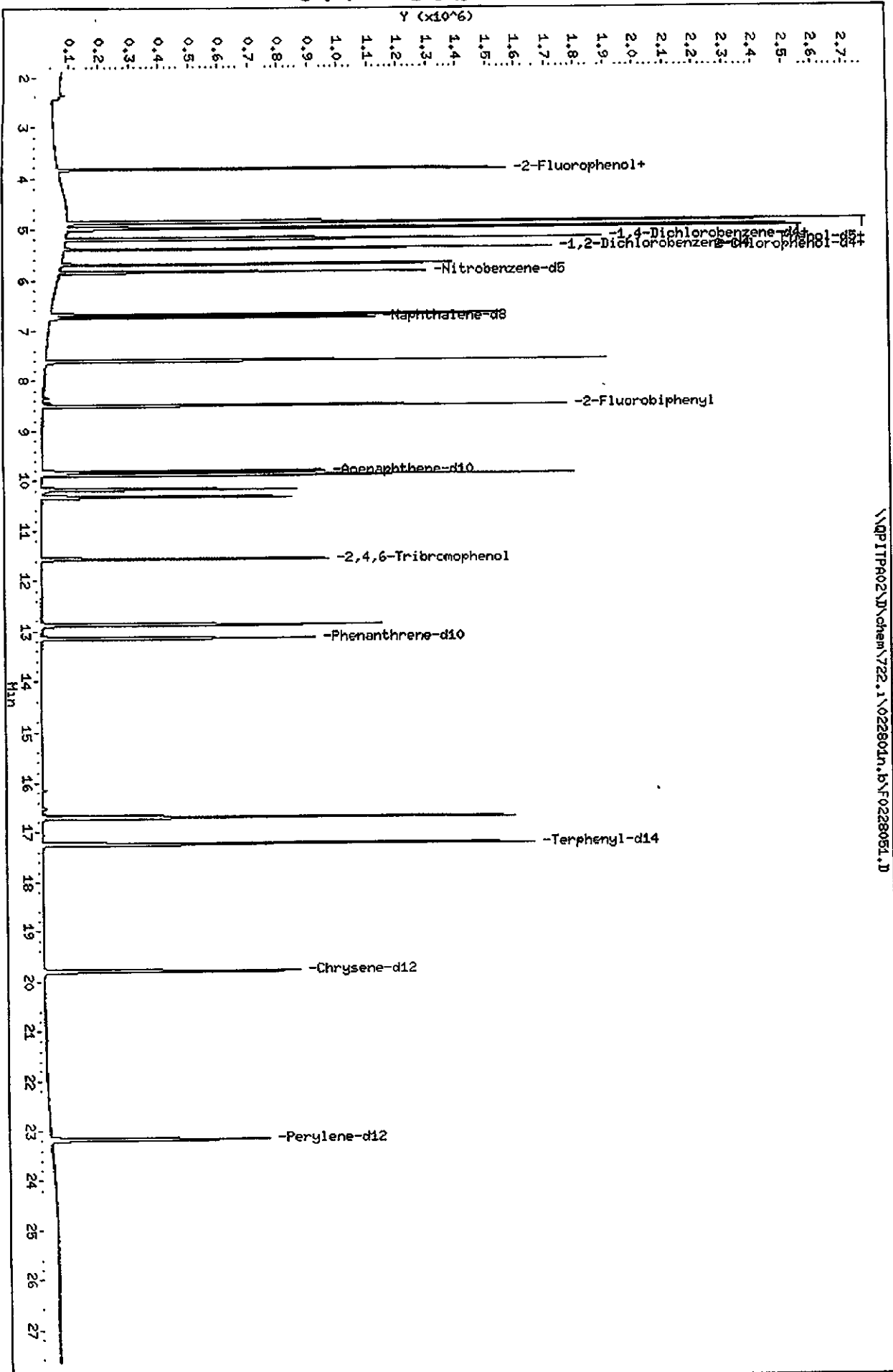
Sample WT/Vol: 1000 / mL Date Received: 02/22/01
Work Order: DWM121AC Date Extracted: 02/26/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1058102

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	38.7	
59-50-7	4-Chloro-3-methylphenol	54.6	
95-57-8	2-Chlorophenol	56.7	
106-46-7	1,4-Dichlorobenzene	37.2	
121-14-2	2,4-Dinitrotoluene	36.3	
100-02-7	4-Nitrophenol	50.8	
621-64-7	N-Nitrosodi-n-propylamine	36.0	
87-86-5	Pentachlorophenol	52.1	
108-95-2	Phenol	50.4	
129-00-0	Pyrene	40.5	
120-82-1	1,2,4-Trichlorobenzene	37.7	

677 364



Data File: \NPITPA02\chem\722.1\022801n.b\0228051.D
 Date : 28-FEB-2001 22:05
 Client ID: INTRA-LAB CHECK
 Sample Info: CAB20250-LCS 2/26/01 h2o (1058102)
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

\NPITPA02\chem\722.1\022801n.b\0228051.D

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

677 365

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228051.D
Lab Smp Id: DWM121AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 28-FEB-2001 22:05
Operator : 007062 Inst ID: 722.i
Smp Info : C1B220250-LCS 2/26/01 h2o (1058102)
Misc Info : dwm121ac,022801n.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 4 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten signature
3/7/01

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	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(NG)	(ug/L)	RT	EXP RT	REL RT	RESPONSE
*****	----	-----	-----	----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	40.0000		5.179	5.173 (1.000)		191146
* 2 Naphthalene-d8	136	40.0000		6.739	6.733 (1.000)		702702
* 3 Acenaphthene-d10	164	40.0000		9.816	9.805 (1.000)		413112
* 4 Phenanthrene-d10	188	40.0000		13.144	13.133 (1.000)		759229
* 5 Chrysene-d12	240	40.0000		19.800	19.794 (1.000)		816442
* 6 Perylene-d12	264	40.0000		23.166	23.155 (1.000)		750406
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	100.893	50.4 (Q)	4.869	4.858 (0.940)		836143
23 bis(2-Chloroethyl)ether	93			Compound Not Detected.			
24 2-Chlorophenol	128	113.322	56.7	4.986	4.981 (0.963)		690219
26 1,3-Dichlorobenzene	146			Compound Not Detected			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.195	5.189	(1.003)	517265	74.4814	37.2
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	5.692	5.691	(1.099)	371043	71.9103	36.0
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	6.680	6.674	(0.991)	393908	75.4628	37.7
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	7.604	7.604	(1.128)	583977	109.286	54.6
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	9.885	9.874	(1.007)	842096	77.3971	38.7
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109	10.179	10.168	(1.037)	209923	101.517	50.8(Q)
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165	10.339	10.328	(1.053)	293939	72.5473	36.3
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.		

677 367

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(NG)	(ug/L)
*****	****	**	*****	*****	*****	*****	*****	
107 Hexachlorobenzene	283	Compound Not Detected.						
111 Pentachlorophenol	266	12.877	12.866	(0.980)	272903	104.298	52.1	
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 Benzdine	184	Compound Not Detected.						
125 Pyrene	202	16.702	16.685	(0.844)	1623263	80.9560	40.5	
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	5.841	5.835	(0.867)	554520	82.4902	41.2	
\$ 155 2-Fluorobiphenyl	172	8.502	8.496	(0.866)	911305	75.5034	37.8	
\$ 156 Terphenyl-d14	244	17.231	17.214	(0.870)	1325289	83.2054	41.6	
\$ 157 Phenol-d5	99	4.858	4.847	(0.938)	815455	99.2255	49.6	
\$ 158 2-Fluorophenol	112	3.833	3.827	(0.740)	632981	101.722	50.9	
\$ 159 2,4,6-Tribromophenol	330	11.568	11.557	(0.880)	187846	96.1135	48.0	
\$ 186 2-Chlorophenol-d4	132	4.970	4.965	(0.960)	708302	114.748	57.4	
\$ 187 1,2-Dichlorobenzene-d4	152	5.387	5.381	(1.040)	295731	74.2813	37.1	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

677 368

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B270000 102

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 02/22/01

Work Order: DWM121AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1058102

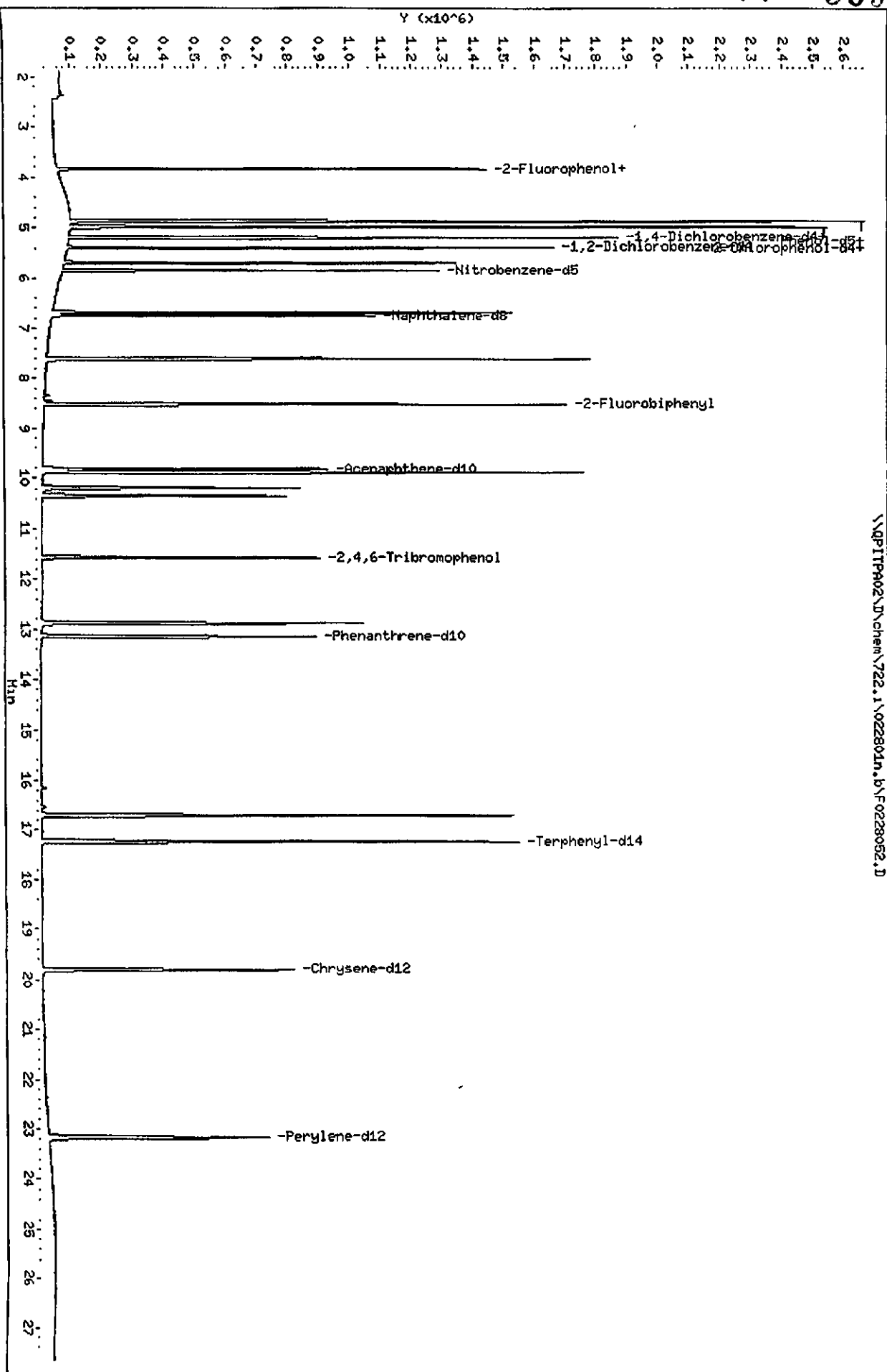
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	39.2	Q
59-50-7	4-Chloro-3-methylphenol	54.2	
95-57-8	2-Chlorophenol	58.2	
106-46-7	1,4-Dichlorobenzene	38.5	
121-14-2	2,4-Dinitrotoluene	36.3	
100-02-7	4-Nitrophenol	50.3	
621-64-7	N-Nitrosodi-n-propylamine	35.9	
87-86-5	Pentachlorophenol	49.0	
108-95-2	Phenol	51.4	
129-00-0	Pyrene	41.1	
120-82-1	1,2,4-Trichlorobenzene	38.8	

FORM I

Data File: \\GP1TPA02\N\chem\722.1\022801n.b\F0228052.D
 Date : 28-FEB-2004 22:38
 Client ID: INTRA-LAB CHECK
 Sample Info: C1B220250-LCSD 2/26/01 h2o (1058102)
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022801n.b\F0228052.D
 Lab Smp Id: DWM121AD Client Smp ID: INTRA-LAB CHECK
 Inj Date : 28-FEB-2001 22:38
 Operator : 007062 Inst ID: 722.i
 Smp Info : C1B220250-LCSD 2/26/01 h2o (1058102)
 Misc Info : dwm121ad,022801n.b,8270b.m,2-root.sub
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022801n.b\8270b.m
 Meth Date : 28-Feb-2001 21:20 tapsvc Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 5 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.179	5.173	(1.000)	185425	40.0000		
* 2 Naphthalene-d8	136	6.739	6.733	(1.000)	666365	40.0000		
* 3 Acenaphthene-d10	164	9.816	9.805	(1.000)	395935	40.0000		
* 4 Phenanthrene-d10	188	13.144	13.133	(1.000)	738875	40.0000		
* 5 Chrysene-d12	240	19.800	19.794	(1.000)	782979	40.0000		
* 6 Perylene-d12	264	23.166	23.155	(1.000)	707525	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	4.869	4.858	(0.940)	825814	102.721	51.4 (Q)	
23 bis(2-Chloroethyl)ether	93				Compound Not Detected			
24 2-Chlorophenol	128	4.992	4.981	(0.964)	688424	116.514	58.2	
26 1,3-Dichlorobenzene	146				Compound Not Detected			

Compounds	QUANT SIG MASS	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
-----	----	--	-----	-----	-----	-----	-----
27 1,4-Dichlorobenzene	146	5.195	5.189	(1.003)	518342	76.9393	38.5
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	5.692	5.691	(1.099)	359849	71.8926	35.9
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	6.680	6.674	(0.991)	384204	77.6174	38.8
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	7.604	7.604	(1.128)	548935	108.330	54.2
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	9.885	9.874	(1.007)	818362	78.4788	39.2
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	10.179	10.168	(1.037)	199219	100.520	50.3(Q)
86 Dibenzofuran	168	Compound Not Detected					
87 2,4-Dinitrotoluene	165	10.339	10.328	(1.053)	282170	72.6639	36.3
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	12.877	12.866	{0.980}	249555	98 0021	49.0
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	16 696	16.685	{0.843}	1580492	82 1916	41.1
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	5.847	5.835	{0.868}	535794	84 0509	42.0
\$ 155 2-Fluorobiphenyl	172	8 502	8.496	{0.866}	874398	75.5886	37.8
\$ 156 Terphenyl-d14	244	17.231	17.214	{0.870}	1264812	82.8022	41.4
\$ 157 Phenol-d5	99	4.858	4.847	{0.938}	797756	100.067	50.0
\$ 158 2-Fluorophenol	112	3.833	3.827	{0.740}	610311	101.105	50.6
\$ 159 2,4,6-Tribromophenol	330	11 568	11 557	{0.880}	177596	93.3722	46.7
\$ 186 2-Chlorophenol-d4	132	4.970	4.965	{0.960}	697251	116 442	58.2
\$ 187 1,2-Dichlorobenzene-d4	152	5 387	5 381	{1.040}	291146	75 3859	37.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.

677 373

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

STL - Pittsburgh
Logbook ID: OP44

677 374

printed on: 31-Jan-01 12:57:56 PM

Instrument Name: GC/MS Instrument #1

677 375

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

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

Operator: 007062

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

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

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	F0226DF1	DFTPPS	DFTPP050 (25ppb) 77-06-09
2)	Sample	2	F0226SC1	SIMPAH	SSTD4.0 (2.0ppb) 77-14-3
3)	Sample	3	F0226001	SIMPAH	C1B140249-BLK x10 2/21/01 Soil (
4)	Sample	4	F0226002	SIMPAH	C1B150278-004 x20 2/21/01 Soil (
5)	Sample	5	F0226003	SIMPAH	C1B150284-005D x10 2/21/01 Soil
6)	Sample	6	F0226004	SIMPAH	C1B150278-004 x40 2/21/01 Soil (
7)	Sample	(10.56) 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

677 376

Sequence File: D:\HPCHEM\1\SEQUENCE\022801n.S

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

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\022801n.b\

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

8270
2/28/01(N)
VUP

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	2008/1	F0228DFN	DFTPP	DFTPP050 (25ppb) 77/06/09
2)	Sample	2	F02280CN	72EARLY	SSTD050 (25ppb) 77-13-14
3)	Sample	3	F0228050	72EARLY	C1B220250-BLK 2/26/01 h2o (10581
4)	Sample	4	F0228051	72EARLY	C1B220250-LCS 2/26/01 h2o (10581
5)	Sample	5	F0228052	72EARLY	C1B220250-LCSD 2/26/01 h2o (1058
6)	Sample	6	F0228053	72EARLY	C1B220250-001 2/26/01 h2o (10581
7)	Sample	7	F0228054	72EARLY	C1B230148-001 2/26/01 h2o (10581
8)	Sample	8	F0228055	72EARLY	C1B230148-002 2/26/01 h2o (10581
9)	Sample	9	F0228056	72EARLY	C1B230148-003 2/26/01 h2o (10581
10)	Sample	10	F0228057	72EARLY	C1B210202-006 2/26/01 x2 Soil (1
11)	Sample	11	F0228058	72EARLY	C1B210192-002 2/26/01 Soil (105
12)	Sample	12	F0228059	72EARLY	C1B210192-003 2/26/01 Soil (105
13)	Sample	13	F0228060	72EARLY	C1B210202-001 x20 2/26/01 Soil (
14)	Sample	14	F0228061	72EARLY	C1B210202-007 x20 2/26/01 Soil (
15)	Sample	15	F0228062	72EARLY	C1B210202-003 x20 2/26/01 Soil (
16)	Sample	16	F0228063	72EARLY	C1B210202-001S x20 2/26/01 Soil
17)	Sample	17	F0228064	72EARLY	C1B210202-001D x20 2/26/01 Soil
18)	Sample	18	F0228065	72EARLY	C1B210202-002 x20 2/26/01 Soil (
19)	Sample	19	F0228066	72EARLY	C1B210202-005 x500 2/26/01 Soil
20)	Sample	20	F0228067	72EARLY	C1B210202-006 x1000 2/26/01 Soil
21)	Sample	21	F0228068	72EARLY	C1B230255-003 x2000 2/26/01 Soil
22)	Sample	22	F0228069	72EARLY	C1B230255-005 x2000 2/26/01 Soil
23)	Sample	100	F02280B1	72EARLY	Clean out
24)	Sample	100	F02280B2	72EARLY	Clean out
25)	Sample	100	F02280B3	72EARLY	Clean out
26)	Sample	100	F02280B4	72EARLY	Clean out
27)	Sample	100	F02280B5	72EARLY	Clean out

Bytes Needed: 1350000 Space on drive D: 1023932928

Sequence Verification Done!

LWES/1111

REQUESTED BY: TROUTB

METHOD QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
2D CLP1	DWHLG-1-AC	___	315990	399411	I-49-QL	C1B220250	001		WATER	0	13 1
3A	DWJJM-1-AC	___	315987	399411	I-49-QL	C1B230148	001		WATER	0	13 1
3A	DWJJ3-1-AN	___	315988	399411	I-49-QL	C1B230148	002		WATER	0	13 1
3A	DWJKC-1-AN	___	315989	399411	I-49-QL	C1B230148	003		WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Dumped empty Jars

[Signature]
B Trout

[Signature]
B Trout

2/26/2001 02:20
2/26/2001 13:10

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

677 378

PESTICIDE DATA

677 379

PESTICIDE
QC SUMMARY

2E
WATER PESTICIDE SURROGATE RECOVERY

677 380

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

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/1053	0*	130	100	110			1
02	DF/24-A/1053	0*	45	97	99			1
03	DF/24-A/1053	79	80	97	103			0
04	PBLK7555	99	99	106	106			0
05	LCS7555	101	102	100	101			0
06	LCD7555	101	99	102	102			0
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

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

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

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWMV51AC

BATCH: 1057555

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aldrin	0.250	0.238	95	62 - 120	
Dieldrin	0.500	0.512	102	68 - 130	
Endrin	0.500	0.502	100	46 - 137	
4,4'-DDT	0.500	0.502	100	60 - 140	
gamma-BHC (Lindane)	0.250	0.248	99	49 - 137	
Heptachlor	0.250	0.242	97	57 - 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

677 382

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B260000

WO #: DWMV51AD

BATCH: 1057555

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.250	100	49 - 137	
Heptachlor	0.250	0.242	97	57 - 124	
Aldrin	0.250	0.237	95	62 - 120	
Dieldrin	0.500	0.541	108	68 - 130	
Endrin	0.500	0.521	104	46 - 137	
4,4'-DDT	0.500	0.508	102	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name:		677 383	PBLK7555
		Contract:	
Lab Code:	Case No.:	SAS No.:	SDG No.: C1B230148
Lab Sample ID: DWMV51AA		Lab File ID: D-A2129	
Matrix (soil/water) WATER		Extraction: (SepF/Cont/Sonc) SW3510	
Sulfur Cleanup (Y/N) N		Date Extracted: 02/26/01	
Date Analyzed (1): 02/28/01		Date Analyzed (2): 02/28/01	
Time Analyzed (1): 2045		Time Analyzed (2): 2045	
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/1053	DWJJM1AD	02/28/01	02/28/01
02	DF/24-A/1053	DWJJ31AP	02/28/01	02/28/01
03	DF/24-A/1053	DWJKC1AP	02/28/01	02/28/01
04	LCS7555	DWMV51AC	02/28/01	02/28/01
05	LCD7555	DWMV51AD	02/28/01	02/28/01
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

677 384

PESTICIDE
SAMPLE DATA

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJMJ1AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-B/1053/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.14	
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.033	J P
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.063	
72-55-9	4,4'-DDE	0.017	J P
50-29-3	4,4'-DDT	0.033	J P
60-57-1	Dieldrin	0.0066	J P
959-98-8	Endosulfan I	0.020	J P
33213-65-9	Endosulfan II	0.037	J P
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.081	
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.055	P
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

677 386

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2126.d
 Report Date: 01-Mar-2001 09:30

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2126.d
 Lab Smp Id: DWJJM1AD Client Smp ID: DF/24-B/1053/IDW/00
 Inj Date : 28-FEB-2001 19:25
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWJJM1AD,1281-G.b,,PEST.sub,,
 Misc Info : 230148-1
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene						
6 alpha-BHC						
7 gamma-BHC (Lindane)						
10 beta-BHC						
8 Chlordane						
9 Heptachlor						
11 delta-BHC	10.800	10.786	0.014	27825	0.01843	0.1842
13 Aldrin						
17 Heptachlor epoxide	12.986	12.940	0.046	25287	0.01467	0.1467
18 gamma-Chlordane						
19 alpha-Chlordane	13.640	13.646	-0.006	21642	0.01107	0.1107
20 Endosulfan I	13.713	13.680	0.033	24662	0.01381	0.1380
22 4,4'-DDE	14.106	14.106	0.000	21562	0.01044	0.1044
23 Dieldrin	14.273	14.273	0.000	27067	0.01369	0.1369
26 Endrin						

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2126.d
 Report Date: 01-Mar-2001 09:30

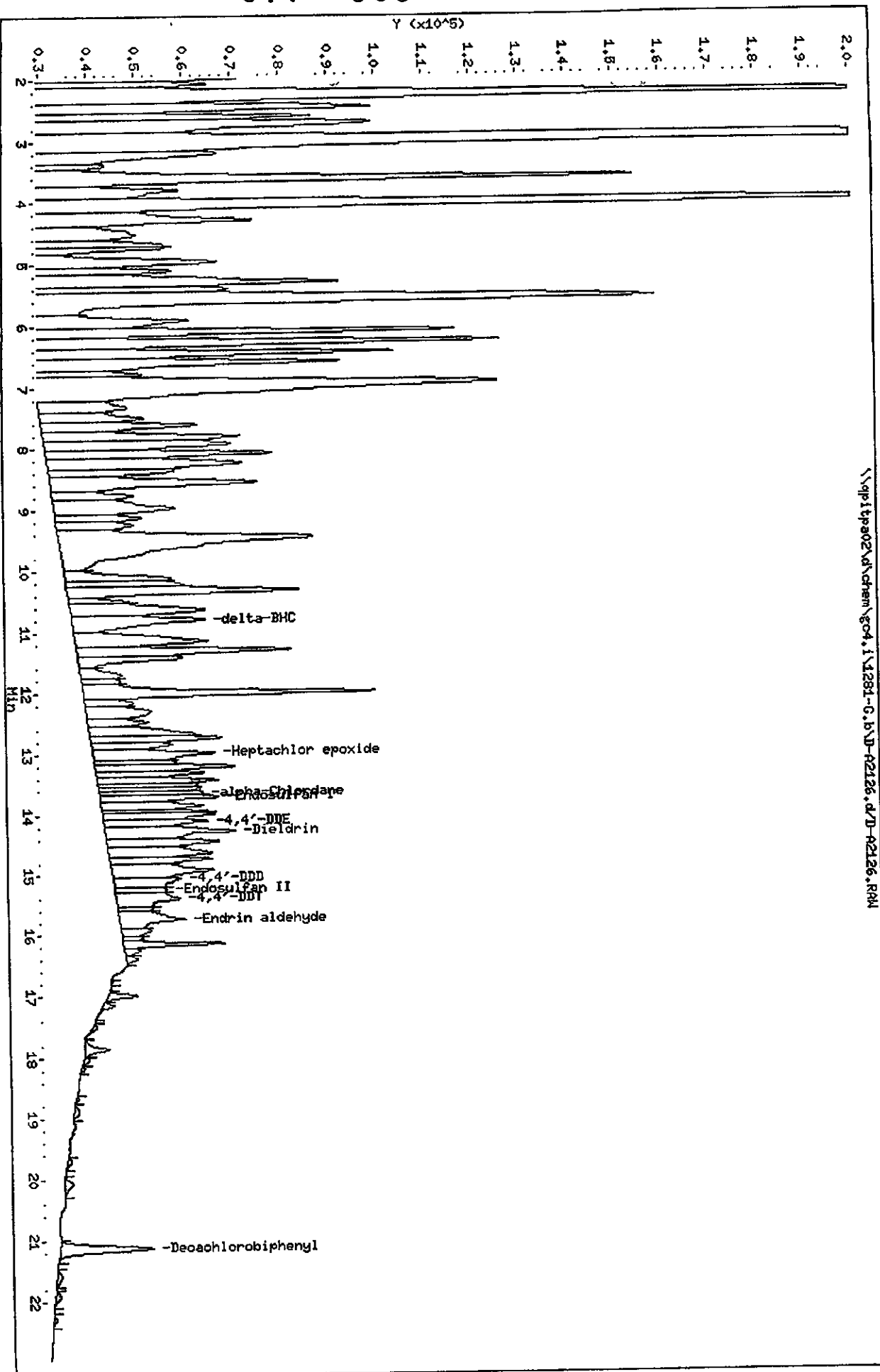
677 387

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.060	15.013	0.047	14047	0.00881	0.08812
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.233	15.200	0.033	10772	0.00600	0.06001
32 4,4'-DDT	15.400	15.446	-0.046	13184	0.00803	0.08029
33 Endrin aldehyde	15.740	15.700	0.040	13790	0.00977	0.09773
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	19389	0.02003	0.2003

677 383

Data File: \\pittpa02\chem\gc04.1\1281-G.b\B-A2126.d
 Date: 28-FEB-2001 13:25
 Client ID: DF/24-B/1053/IDM/00
 Sample Info: DMJHRAD,1281-G.b,,PEST,sub,,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2126.d
 Report Date: 01-Mar-2001 09:01

677 389

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2126.d
 Lab Smp Id: DWJJM1AD Client Smp ID: DF/24-B/1053/IDW/00
 Inj Date : 28-FEB-2001 19:25
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWJJM1AD,1281-G.b,,PEST.sub,,,
 Misc Info : 230148-1
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.460	5.473	-0.013	25691	0.02593	0.2592
6 alpha-BHC	Compound Not Detected					
7 gamma-BHC (Lindane)	Compound Not Detected.					
10 beta-BHC	12.293	12.260	0.033	4485	0.00585	0.05845
8 Chlordane	9.786	9.826	-0.040	15259	0.16770	1.677
9 Heptachlor	10.406	10.413	-0.007	7301	0.00613	0.06133
11 delta-BHC	12.853	12.833	0.020	20998	0.01387	0.1387
13 Aldrin	Compound Not Detected					
17 Heptachlor epoxide	13.206	13.240	-0.034	8253	0.00551	0.05506
18 gamma-Chlordane	13.846	13.880	-0.034	4775	0.00295	0.02954(a)
19 alpha-Chlordane	14.020	13.986	0.034	5324	0.00329	0.03291(a)
20 Endosulfan I	13.793	13.786	0.007	2987	0.00200	0.02000(a)
22 4,4'-DDE	14.093	14.126	-0.033	2662	0.00168	0.01681(a)
23 Dieldrin	14.413	14.386	0.027	1065	<0.0	0.006617(a)
26 Endrin	14.740	14.713	0.027	8011	0.00592	0.05917

677 390

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2126.d
 Report Date: 01-Mar-2001 09:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.293	15.286	0.007	7626	0.00630	0.06301
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.400	15.413	-0.013	5183	0.00365	0.03654 (a)
32 4,4'-DDT	15.566	15.546	0.020	4105	0.00327	0.03268 (a)
33 Endrin aldehyde	16.093	16.113	-0.020	6278	0.00814	0.08137
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	20.040	20.046	-0.006	20498	0.02194	0.2194

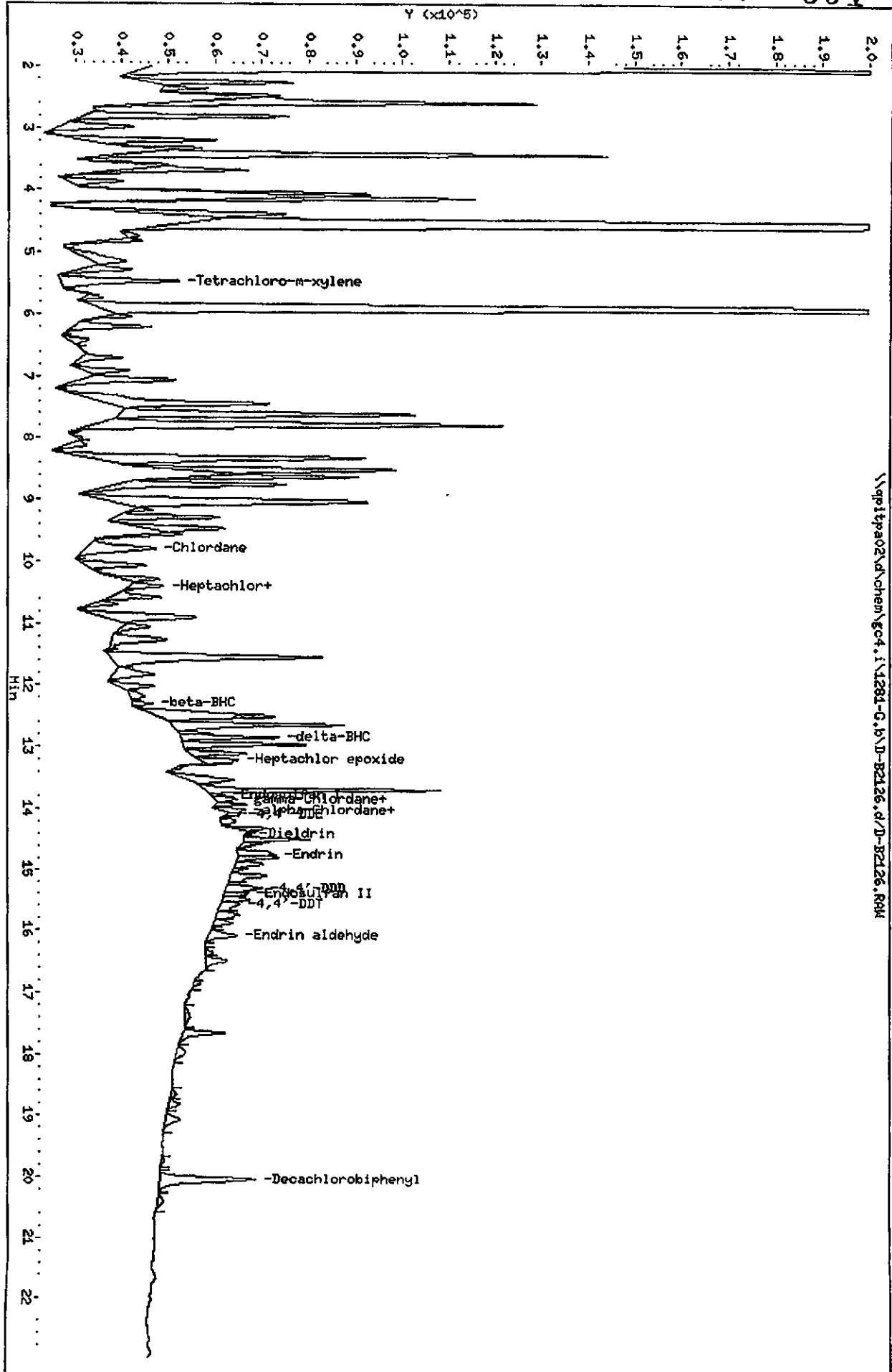
QC Flag Legend

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

677 391

Data File: \\pittpa02\chem\gc4.1\1281-G.b\D-B2126.d
 Date : 28-FEB-2001 19:25
 Client ID: DF/24-B/1053/IM/00
 Sample Info: IMJMHAD,1281-G.b,,PEST.sub,,,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

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



677 392

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-B/1 053/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWJJM1AD

Date(s) Analyzed: 02/28/01 02/28/01

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		
delta-BHC	1	10.80	10.74	10.84	0.1842	
	2	12.85	12.78	12.88	0.1387	32.8
Heptachlor epoxide	1	12.99	12.89	12.99	0.1467	
	2	13.21	13.19	13.29	0.05506	166.4
Endosulfan I	1	13.71	13.63	13.73	0.1380	
	2	13.79	13.74	13.84	0.02000	590.0
Dieldrin	1	14.27	14.22	14.32	0.1369	
	2	14.41	14.34	14.44	0.006617	999.9
4,4'-DDE	1	14.11	14.06	14.16	0.1044	
	2	14.09	14.08	14.18	0.01681	521.0
Endosulfan II	1	15.23	15.15	15.25	0.06001	
	2	15.40	15.36	15.46	0.03654	64.2
4,4'-DDD	1	15.06	14.96	15.06	0.08812	
	2	15.29	15.24	15.34	0.06301	39.8
4,4'-DDT	1	15.40	15.40	15.50	0.08029	
	2	15.57	15.50	15.60	0.03268	145.7

10A 677 393

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

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

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWUJMLAD

Date(s) Analyzed: 02/28/01 02/28/01

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	15.74	15.65	15.75	0.09773	
	2	16.09	16.06	16.16	0.08137	20.1
alpha-Chlordane	1	13.64	13.60	13.70	0.1107	
	2	14.02	13.94	14.04	0.03291	236.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

677 394

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AP

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-A/1053/IDW/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.049	J P
319-86-8	delta-BHC	0.075	P
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	
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.029	J P
60-57-1	Dieldrin	0.045	J P
959-98-8	Endosulfan I	0.017	J P
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	0.037	J P
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.051	P
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2127.d
Report Date: 01-Mar-2001 09:30

677 395

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2127.d
Lab Smp Id: DWJJ31AP Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 28-FEB-2001 19:52
Operator : 010139 Inst ID: gc4.i
Smp Info : DWJJ31AP,1281-G.b,,PEST.sub,,,
Misc Info : 230148-2
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

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

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene						
6 alpha-BHC						
7 gamma-BHC (Lindane)						
10 beta-BHC	9.773	9.820	-0.047	4242	0.00494	0.04941 (a)
8 Chlordane						
9 Heptachlor						
11 delta-BHC	10.806	10.786	0.020	11290	0.00748	0.07476
13 Aldrin						
17 Heptachlor epoxide	12.980	12.940	0.040	8793	0.00510	0.05100
18 gamma-Chlordane						
19 alpha-Chlordane						
20 Endosulfan I	13.720	13.680	0.040	13466	0.00754	0.07538
22 4,4'-DDE	14.106	14.106	0.000	5070	0.00245	0.02454 (a)
23 Dieldrin	14.260	14.273	-0.013	8863	0.00448	0.04483 (a)
26 Endrin						

677 396

Data File: \\gpitpa02\d\chem\gc4.i\1281-G.b\D-A2127.d
Report Date: 01-Mar-2001 09:30

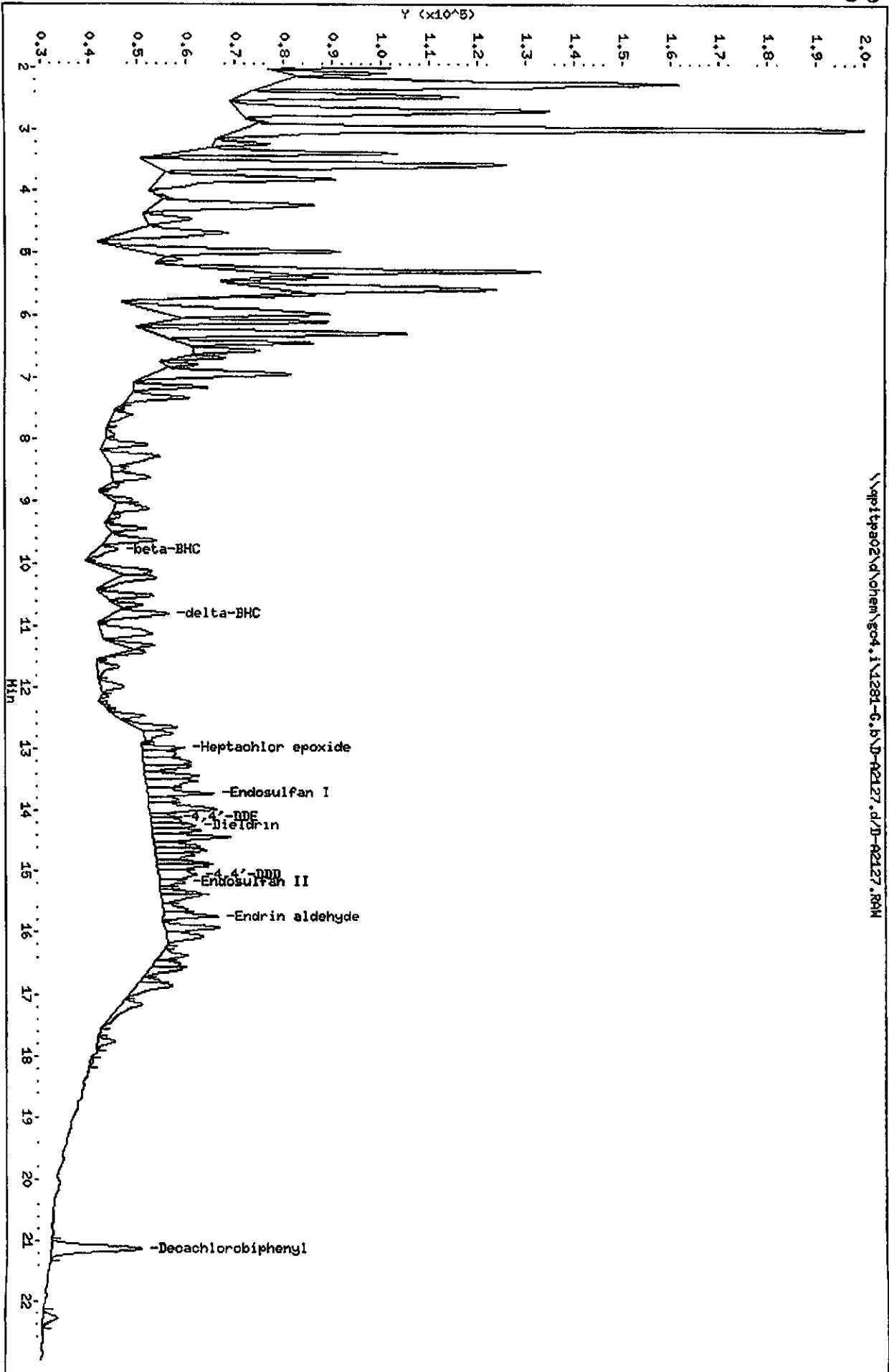
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.053	15.013	0.040	8018	0.00503	0.05030
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.173	15.200	-0.027	5303	0.00295	0.02954(a)
32 4,4'-DDT	Compound Not Detected.					
33 Endrin aldehyde	15.740	15.700	0.040	11342	0.00804	0.08038
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	18732	0.01935	0.1935

QC Flag Legend

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

Data File: \\pptp02\chem\g04.i\1281-G.b\D-02127.d
Date: 28-FEB-2001 19:52
Client ID: DF/24-A/1053/IDM/00
Sample Info: IMJ331AP, 1281-G.b, PEST, sub,,
Volume Injected (ul): 1.0
Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2127.d
 Report Date: 01-Mar-2001 09:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2127.d
 Lab Smp Id: DWJJ31AP Client Smp ID: DF/24-A/1053/IDW/00
 Inj Date : 28-FEB-2001 19:52
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWJJ31AP,1281-G.b,,PEST.sub,,
 Misc Info : 230148-2
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.466	5.473	-0.007	8900	0.00898	0.08981
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	Compound Not Detected.					
10 beta-BHC	12.300	12.260	0.040	7950	0.01036	0.1036
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.420	10.413	0.007	3794	0.00319	0.03187(a)
11 delta-BHC	12.853	12.833	0.020	18030	0.01191	0.1191
13 Aldrin	11.400	11.353	0.047	1729	0.00153	0.01525(a)
17 Heptachlor epoxide	13.240	13.240	0.000	16409	0.01095	0.1095
18 gamma-Chlordane	Compound Not Detected.					
19 alpha-Chlordane	14.033	13.986	0.047	3314	0.00205	0.02048(a)
20 Endosulfan I	13.800	13.786	0.014	2489	0.00167	0.01667(a)
22 4,4'-DDE	Compound Not Detected.					
23 Dieldrin	14.373	14.386	-0.013	10720	0.00666	0.06660
26 Endrin	14.713	14.713	0.000	11143	0.00823	0.08231

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
-----	--	-----	-----	-----	-----	-----
29 4,4'-DDD	15.306	15.286	0.020	6476	0.00535	0.05351
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.580	15.546	0.034	3668	0.00292	0.02920(a)
33 Endrin aldehyde	16.113	16.113	0.000	2838	0.00368	0.03678(a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	16.613	16.593	0.020	1703	0.00261	0.02613(a)
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	20.040	20.046	-0.006	18450	0.01975	0.1975

QC Flag Legend

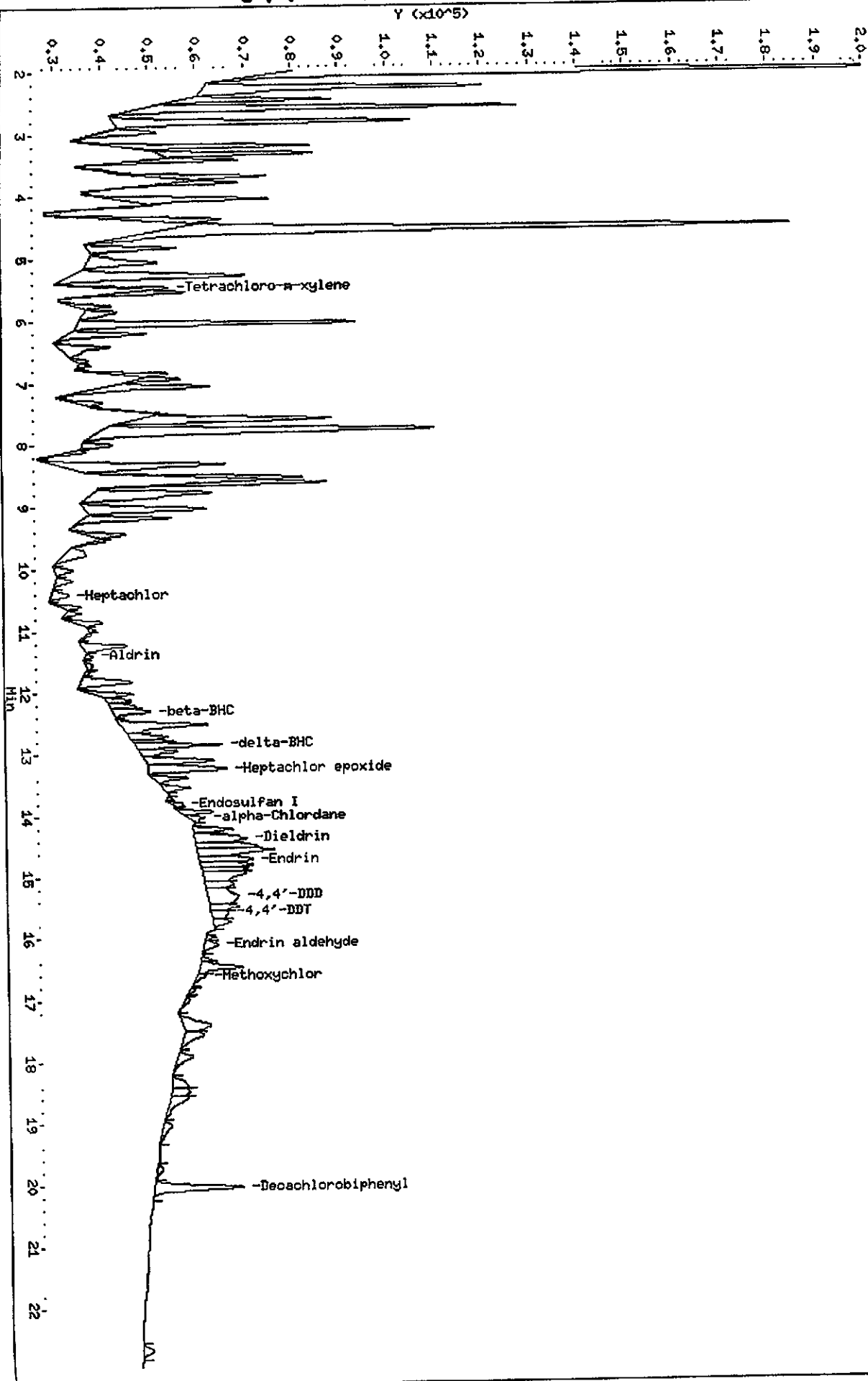
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

677 400

Data File: \\qpi1tpa02\chem\g04.1\1281-G.b\B2127.d
 Date : 28-FEB-2001 19:52
 Client ID: DF/24-A/1053/IDM/00
 Sample Info: DMJ31AP,1281-G.b,,PEST,sub,,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

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

\\qpi1tpa02\chem\g04.1\1281-G.b\B2127.d\B2127.R04



10A 677 401

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-A/1
053/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWJJ31AP

Date(s) Analyzed: 02/28/01 02/28/01

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	9.77	9.77	9.87	0.04941	
	2	12.30	12.21	12.31	0.1036	109.7
delta-BHC	1	10.81	10.74	10.84	0.07476	
	2	12.85	12.78	12.88	0.1191	59.3
Heptachlor epoxide	1	12.98	12.89	12.99	0.05100	
	2	13.24	13.19	13.29	0.1095	114.7
Endosulfan I	1	13.72	13.63	13.73	0.07538	
	2	13.80	13.74	13.84	0.01667	352.2
Dieldrin	1	14.26	14.22	14.32	0.04483	
	2	14.37	14.34	14.44	0.06660	48.6
4,4'-DDD	1	15.05	14.96	15.06	0.05030	
	2	15.31	15.24	15.34	0.05351	6.4
Endrin aldehyde	1	15.74	15.65	15.75	0.08038	
	2	16.11	16.06	16.16	0.03678	118.5
	1					
	2					

677 492

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKCIAP

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DF/24-A/1053/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.0060	J P
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	0.018	J P
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.011	J P
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	0.0079	J P
72-43-5	Methoxychlor	0.036	J P
8001-35-2	Toxaphene	2.0	U

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2128.d
Report Date: 01-Mar-2001 09:31

677 403

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2128.d
Lab Smp Id: DWJKC1AP Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 28-FEB-2001 20:18
Operator : 010139 Inst ID: gc4.i
Smp Info : DWJKC1AP,1281-G.b,,PEST.sub,,,
Misc Info : 230148-3
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

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

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.226	5.233	-0.007	21857	0.01578	0.1578
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)				Compound Not Detected.		
10 beta-BHC	9.786	9.820	-0.034	516	<0.0	0.006010(a)
8 Chlordane				Compound Not Detected.		
9 Heptachlor				Compound Not Detected.		
11 delta-BHC				Compound Not Detected.		
13 Aldrin				Compound Not Detected.		
17 Heptachlor epoxide	12.980	12.940	0.040	1362	0.00079	0.007899(a)
18 gamma-Chlordane				Compound Not Detected.		
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I				Compound Not Detected.		
22 4,4'-DDE	14.073	14.106	-0.033	8396	0.00406	0.04064(a)
23 Dieldrin	14.266	14.273	-0.007	3522	0.00178	0.01781(a)
26 Endrin				Compound Not Detected.		

677 404

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2128.d
 Report Date: 01-Mar-2001 09:31

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	15.733	15.700	0.033	15826	0.01122	0.1122
34 Endosulfan sulfate	15.940	15.986	-0.046	13272	0.01021	0.1021
35 Methoxychlor	17.100	17.100	0.000	87727	0.12490	1.249
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	18734	0.01935	0.1935

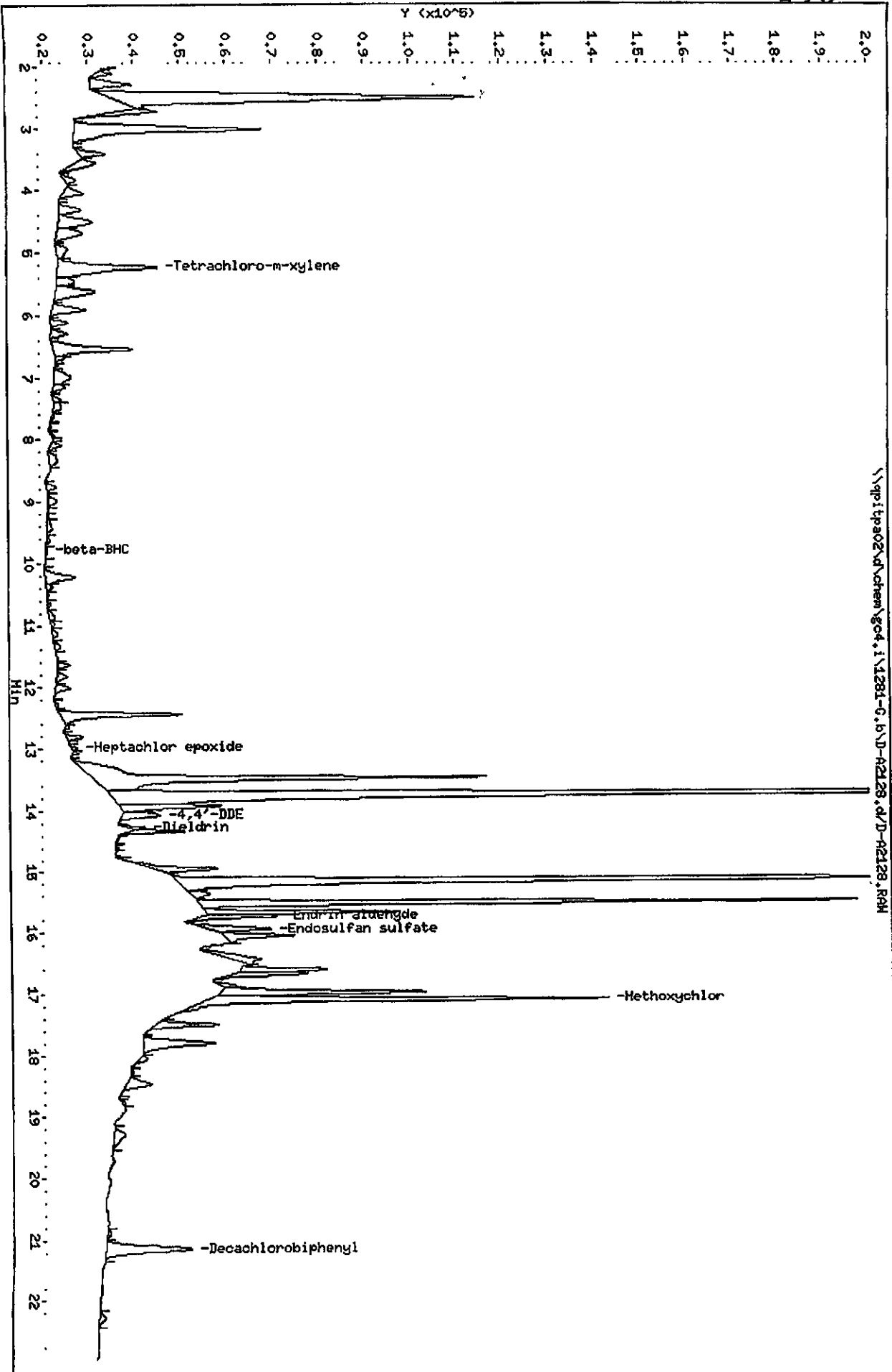
QC Flag Legend

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

677 405

Data File: \\q:\p202\chem\gc4.i\1281-G.b.D-A2128.d
 Date: 28-FEB-2001 20:18
 Client ID: IF/24-A/1053/IDM/00
 Sample Info: DMKCIAP,1281-G.b.,PEST,sub,,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2128.d
 Report Date: 01-Mar-2001 09:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2128.d
 Lab Smp Id: DWJKC1AP Client Smp ID: DF/24-A/1053/IDW/00
 Inj Date : 28-FEB-2001 20:18
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWJKC1AP,1281-G.b,,PEST.sub,,
 Misc Info : 230148-3
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
§ 2 Tetrachloro-m-xylene	5.473	5.473	0.000	15909	0.01605	0.1605
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)				Compound Not Detected.		
10 beta-BHC	12.273	12.260	0.013	833	0.00109	0.01086 (a)
8 Chlordane				Compound Not Detected.		
9 Heptachlor	10.433	10.413	0.020	1314	0.00110	0.01104 (a)
11 delta-BHC	12.860	12.833	0.027	911	<0.0	0.005018 (a)
13 Aldrin				Compound Not Detected.		
17 Heptachlor epoxide	13.266	13.240	0.026	2295	0.00153	0.01531 (a)
18 gamma-Chlordane	13.880	13.880	0.000	13305	0.00823	0.08231
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I				Compound Not Detected.		
22 4,4'-DDE				Compound Not Detected.		
23 Dieldrin	14.360	14.386	-0.026	57980	0.03602	0.3602
26 Endrin	14.686	14.713	-0.027	3787	0.00280	0.02797 (a)
29 4,4'-DDD				Compound Not Detected.		

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
*****	==	*****	*****	*****	*****	*****
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.380	15.413	-0.033	101791	0.07177	0.7177
32 4,4'-DDT	15.593	15.546	0.047	1989	0.00158	0.01583(a)
33 Endrin aldehyde	Compound Not Detected.					
34 Endosulfan sulfate	16.766	16.720	0.046	944	0.00107	0.01070(a)
35 Methoxychlor	16.620	16.593	0.027	2318	0.00356	0.03557(a)
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	20.040	20.046	-0.006	19336	0.02069	0.2069

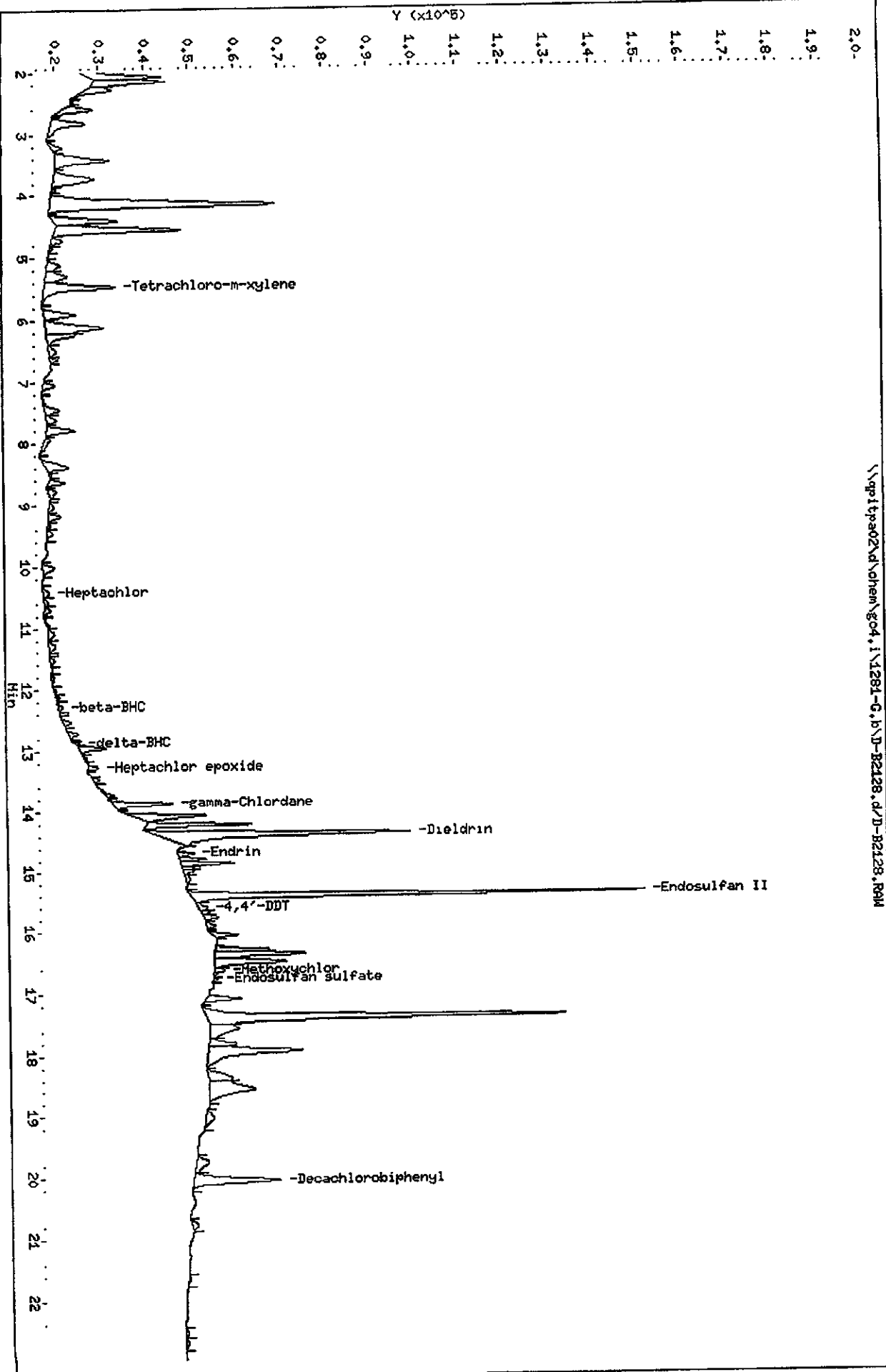
QC Flag Legend

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

677 498

Data File: \\ppitpa02\chem\gc4.i\1281-G.b\B2128.d
Date: 28-FEB-2001 20:18
Client ID: DF/24-0/1083/IDM/00
Sample Info: DMKCLAP,1281-G.b,,PEST,sub,,
Volume Injected (uL): 1.0
Column phase: RTX-1701

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



10A 677 409

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-A/1
053/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWJKC1AP

Date(s) Analyzed: 02/28/01 02/28/01

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	9.79	9.77	9.87	0.006010	
	2	12.27	12.21	12.31	0.01086	80.7
Heptachlor epoxide	1	12.98	12.89	12.99	0.007899	
	2	13.27	13.19	13.29	0.01531	93.8
Dieldrin	1	14.27	14.22	14.32	0.01781	
	2	14.36	14.34	14.44	0.3602	999.9
Endosulfan sulfate	1	15.94	15.94	16.04	0.1021	
	2	16.77	16.67	16.77	0.01070	854.2
Methoxychlor	1	17.10	17.05	17.15	1.249	
	2	16.62	16.54	16.64	0.03557	999.9
	1					
	2					
	1					
	2					
	1					
	2					

677 410

PESTICIDE
CALIBRATION DATA

Report Date : 28-Feb-2001 08:46

60
58904A
RTX-SD

677 411

STL-Pittsburgh

COMPOUND LISTING

Method file : \\gpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Quant Method : ESTD Target Version : 4.04
Last Update : 28-Feb-2001 08:46 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	5.233	5.183-5.283	1.38e+006
6 alpha-BHC	7.400	7.350-7.450	1.73e+006
7 gamma-BHC (Lindane)	8.853	8.803-8.903	1.64e+006
8 Chlordane	9.207	9.157-9.257	4.12e+004
	9.867	9.817-9.917	5.73e+004
	13.353	13.303-13.403	1.93e+005
	13.640	13.590-13.690	2.15e+005
9 Heptachlor	9.867	9.817-9.917	1.36e+006
10 beta-BHC	9.820	9.770-9.870	8.59e+005
11 delta-BHC	10.787	10.737-10.837	1.51e+006
13 Aldrin	11.080	11.030-11.130	1.31e+006
17 Heptachlor epoxide	12.940	12.890-12.990	1.72e+006
18 gamma-Chlordane	13.353	13.303-13.403	1.89e+006
19 alpha-Chlordane	13.647	13.597-13.697	1.95e+006
20 Endosulfan I	13.680	13.630-13.730	1.79e+006
22 4,4'-DDE	14.107	14.057-14.157	2.07e+006
23 Dieldrin	14.273	14.223-14.323	1.98e+006
26 Endrin	14.807	14.757-14.857	1.74e+006
29 4,4'-DDD	15.013	14.963-15.063	1.59e+006
30 Toxaphene	15.067	15.017-15.117	3.53e+004
	15.240	15.190-15.290	4.47e+004
	15.600	15.550-15.650	3.07e+004
	16.640	16.590-16.690	2.47e+004
31 Endosulfan II	15.200	15.150-15.250	1.80e+006

677 412

6D
JBADAA
RT-SD

Report Date : 28-Feb-2001 08:46

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m

Compound	RT	RT Window	RF
32 4,4'-DDT	15.447	15.397-15.497	1.64e+006
33 Endrin aldehyde	15.700	15.650-15.750	1.41e+006
34 Endosulfan sulfate	15.987	15.937-16.037	1.30e+006
35 Methoxychlor	17.100	17.050-17.150	7.02e+005
37 Endrin ketone	17.433	17.383-17.483	1.41e+006
\$ 38 Decachlorobiphenyl	21.147	21.097-21.197	9.68e+005

Report Date : 28-Feb-2001 08:46

6E
58904A
RTX-50

677 413

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2001 16:38
End Cal Date : 27-FEB-2001 21:28
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Cal Date : 28-Feb-2001 08:46 matkol
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2072.d
Level 2: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2073.d
Level 3: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2074.d
Level 4: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2075.d
Level 5: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2076.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 alpha-BHC	1291600	1562400	1752800	1943900	2113870	1732914	18.562
7 gamma-BHC (Lindane)	1322600	1524300	1670640	1791400	1907100	1643208	13.920
8 Chlordane(1)	+++++	+++++	41248	+++++	+++++	41248	0.000
(2)	+++++	+++++	57256	+++++	+++++	57256	0.000
(3)	+++++	+++++	192804	+++++	+++++	192804	0.000
(4)	+++++	+++++	215092	+++++	+++++	215092	0.000
9 Heptachlor	1281800	1330800	1317360	1395560	1490620	1363228	6.033
10 beta-BHC	825200	898900	867920	879260	821470	858550	3.964
11 delta-BHC	1169600	1383600	1561400	1731580	1704690	1510174	15.582
13 Aldrin	1136600	1243900	1317000	1436620	1427030	1312230	9.654
17 Heptachlor epoxide	1558400	1691300	1752520	1832320	1786420	1724192	6.147
18 gamma-Chlordane	1756400	1899600	1920360	1978660	1917000	1894404	4.365
19 alpha-Chlordane	1813600	1979000	1992560	2036520	1949030	1954142	4.331
20 Endosulfan I	1625600	1742500	1757280	1865340	1941480	1786440	6.793
22 4,4'-DDE	1811400	2020700	2118760	2226700	2150740	2065660	7.756
23 Dieldrin	1700000	1860800	1974360	2116680	2233320	1977032	10.593
26 Endrin	1517200	1636000	1727560	1879820	1939330	1739982	9.950
29 4,4'-DDD	1384800	1499600	1600360	1695300	1790390	1594090	9.995
30 Toxaphene(1)	+++++	+++++	35296	+++++	+++++	35296	0.000
(2)	+++++	+++++	44729	+++++	+++++	44729	0.000
(3)	+++++	+++++	30668	+++++	+++++	30668	0.000
(4)	+++++	+++++	24700	+++++	+++++	24700	0.000
31 Endosulfan II	1604800	1813100	1743320	1920000	1894460	1795136	7.084
32 4,4'-DDT	1506200	1576400	1617080	1713580	1796510	1641954	6.968
33 Endrin aldehyde	1340000	1484700	1423920	1427100	1379190	1410982	3.867
34 Endosulfan sulfate	1133200	1283400	1311480	1391320	1377640	1299408	7.942

677 414

6E
58704A
RTX-SD

Report Date : 28-Feb-2001 08:46

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2001 16:38
 End Cal Date : 27-FEB-2001 21:28
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Cal Date : 28-Feb-2001 08:46 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	688700	712800	699040	702680	708725	702389	1.326
37 Endrin ketone	1249200	1395500	1448200	1497320	1462170	1410478	6.899
\$ 2 Tetrachloro-m-xylene	1331800	1518400	1188360	1403440	1482790	1384958	9.497
\$ 38 Decachlorobiphenyl	1004600	1013100	953960	944760	924190	968122	4.011

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

677 415

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): 02/27/01 02/27/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 02/27/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1612

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.81	14.76	14.86	0.02454	0.02500	-1.8
4,4'-DDT	15.45	15.40	15.50	0.02453	0.02500	-1.9

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

Endrin % breakdown (1): ~~6.21~~

Combined % breakdown (1): ~~6.21~~

4.9

4.9

um
3/1/01

677 416

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): 02/27/01 02/27/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 02/27/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 2247

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.81	14.76	14.86	0.02341	0.02500	-6.4
4,4'-DDT	15.44	15.40	15.50	0.02429	0.02500	-2.8

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

Endrin % breakdown (1): ~~9.46~~Combined % breakdown (1): ~~9.46~~ 7.6

7.6

lm
3/1/01

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

677 417

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): 02/27/01 02/27/01
 EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 02/28/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 1859

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.80	14.76	14.86	0.02297	0.02500	-8.1
4,4'-DDT	15.44	15.40	15.50	0.02444	0.02500	-2.2

4,4'-DDT % breakdown (1): ~~0.81~~ 1.0 Endrin % breakdown (1): ~~11.05~~
 Combined % breakdown (1): ~~11.86~~ 9.9 8.9

um
3/1/01

677 418

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2123.d
 Report Date: 01-Mar-2001 09:20

7E
 58909A
 RTK 50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 18:06
 Lab File ID: D-A2123.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	%D	MAX
2 Tetrachloro-m-xylene	1384958	1395000	0.000	0.7	15.0
6 alpha-BHC	1732914	1753520	0.010	1.2	15.0
7 gamma-BHC (Lindane)	1643208	1681150	0.010	2.3	15.0
9 Heptachlor	1363228	1344640	0.010	-1.4	15.0
20 Endosulfan I	1786440	1774320	0.010	-0.7	15.0
23 Dieldrin	1977032	2004680	0.010	1.4	15.0
26 Endrin	1739982	1715760	0.010	-1.4	15.0
29 4,4'-DDD	1594090	1578880	0.010	-1.0	15.0
32 4,4'-DDT	1641954	1612320	0.010	-1.8	15.0
35 Methoxychlor	702389	695280	0.010	-1.0	15.0
38 Decachlorobiphenyl	968122	952600	0.010	-1.6	15.0

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2124.d
Report Date: 01-Mar-2001 09:20

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RTX-SD

STL-Pittsburgh

677 419

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 18:33
Lab File ID: D-A2124.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
Analysis Type: Init. Cal. Times: 16:38 21:28
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	MAX
13 Aldrin	1312230	1356640	0.010	3.4 15.0
10 beta-BHC	858550	901440	0.010	5.0 15.0
11 delta-BHC	1510174	1636080	0.010	8.3 15.0
17 Heptachlor epoxide	1724192	1784760	0.010	3.5 15.0
18 gamma-Chlordane	1894404	1941320	0.010	2.5 15.0
19 alpha-Chlordane	1954142	2015720	0.010	3.2 15.0
22 4,4'-DDE	2065660	2103800	0.010	1.8 15.0
31 Endosulfan II	1795136	1732240	0.010	-3.5 15.0
33 Endrin aldehyde	1410982	1392200	0.010	-1.3 15.0
34 Endosulfan sulfate	1299408	1398880	0.010	7.7 15.0
37 Endrin ketone	1410478	1452000	0.010	2.9 15.0

677 420

7C

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2132.d
 Report Date: 01-Mar-2001 09:22

5804A
 RTx 50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 22:04
 Lab File ID: D-A2132.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
\$ 2 Tetrachloro-m-xylene	1384958	1523080	0.000	10.0
6 alpha-BHC	1732914	1866400	0.010	7.7
7 gamma-BHC (Lindane)	1643208	1759200	0.010	7.1
9 Heptachlor	1363228	1383600	0.010	1.5
20 Endosulfan I	1786440	1830720	0.010	2.5
23 Dieldrin	1977032	2039680	0.010	3.2
26 Endrin	1739982	1705320	0.010	-2.0
29 4,4'-DDD	1594090	1631760	0.010	2.4
32 4,4'-DDT	1641954	1642680	0.010	0.0
35 Methoxychlor	702389	721300	0.010	2.7
\$ 38 Decachlorobiphenyl	968122	975160	0.010	0.7

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2133.d
 Report Date: 01-Mar-2001 09:22

72
 58904A
 RTx-50

STL-Pittsburgh

677 421

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 22:30
 Lab File ID: D-A2133.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m

COMPOUND	RRF	RFD	MIN	MAX
-----	-----	-----	-----	-----
13 Aldrin	1312230	1371360	0.010	4.5
10 beta-BHC	858550	907480	0.010	5.7
11 delta-BHC	1510174	1652360	0.010	9.4
17 Heptachlor epoxide	1724192	1804440	0.010	4.7
18 gamma-Chlordane	1894404	1969080	0.010	3.9
19 alpha-Chlordane	1954142	2033040	0.010	4.0
22 4,4'-DDE	2065660	2163680	0.010	4.7
31 Endosulfan II	1795136	1754280	0.010	-2.3
33 Endrin aldehyde	1410982	1395200	0.010	-1.1
34 Endosulfan sulfate	1299408	1454720	0.010	12.0
37 Endrin ketone	1410478	1480520	0.010	5.0

677 422

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

GC Column: RTX-50

ID: 0.53 (mm) Init. Calib. Date(s): 02/27/01 02/27/01

Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 5.23			DCB: 21.15		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	EVALB	02/27/01	1612	5.24	21.14
02	MEDTOX	02/27/01	1638	5.24	21.15
03	MEDCHLOR	02/27/01	1704	5.23	21.15
04	LOWA	02/27/01	1731	5.24	21.15
05	MLOWA	02/27/01	1757	5.21	21.14
06	MEDA	02/27/01	1824	5.23	21.15
07	MHIGHA	02/27/01	1850	5.23	21.14
08	HIGHA	02/27/01	1917	5.21	21.14
09	LOWB	02/27/01	1943		
10	MLOWB	02/27/01	2009		
11	MEDB	02/27/01	2036		
12	MHIGHB	02/27/01	2102		
13	HIGHB	02/27/01	2128		
14	2ND A	02/27/01	2155	5.23	21.15
15	2ND B	02/27/01	2221		
16	EVALB	02/27/01	2247	5.23	21.14
17	MEDA	02/28/01	1806	5.22	21.13
18	MEDB	02/28/01	1833		
19	EVALB	02/28/01	1859	5.21	21.13
20	DF/24-B/1053	02/28/01	1925		21.13
21	DF/24-A/1053	02/28/01	1952		21.13
22	DF/24-A/1053	02/28/01	2018	5.23	21.13
23	PBLK7555	02/28/01	2045	5.21	21.13
24	LCS7555	02/28/01	2111	5.21	21.13
25	LCD7555	02/28/01	2137	5.21	21.13
26	MEDA	02/28/01	2204	5.21	21.13
27	MEDB	02/28/01	2230		
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\1281-G.b\D-A2064.d
Report Date: 28-Feb-2001 09:05

677 423

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2064.d
Lab Smp Id: EVALB
Inj Date : 27-FEB-2001 16:12
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.240	5.233	0.007	25590	0.01848	0.01848(R)
22 4,4'-DDE	Compound Not Detected					
26 Endrin	14.806	14.806	0.000	42698	0.02454	0.02454
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.446	15.446	0.000	40279	0.02453	0.02453
33 Endrin aldehyde	15.700	15.700	0.000	1233	<0.0	0.0008738
37 Endrin ketone	17.433	17.433	0.000	957	<0.0	0.0006785
\$ 38 Decachlorobiphenyl	21.140	21.146	-0.006	19107	0.01974	0.01974(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

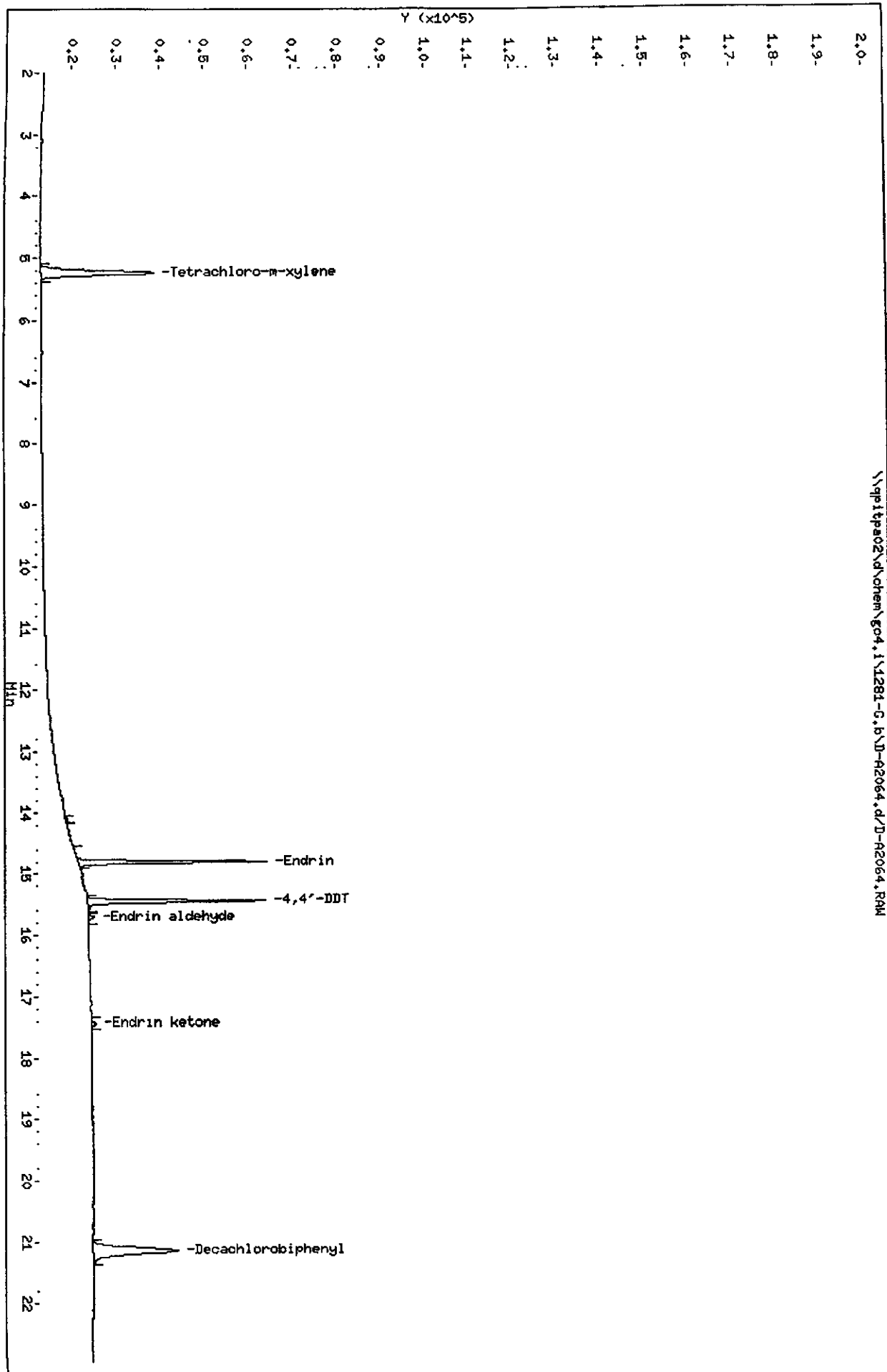
DDT=0

Endrin=4.9

677 424

Data File: \\p1tpa02\chem\g04.1\1281-G.b\D-A2064.d
 Date : 27-FEB-2001 16:12
 Client ID:
 Sample Info: EWL.B.1281-G.b, EWL.BR.sub, 3,1
 Column phase: RTX-60

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2065.d
Report Date: 28-Feb-2001 09:05

677 425

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2065.d
Lab Smp Id: MEDTOX
Inj Date : 27-FEB-2001 16:38
Operator : 010139
Smp Info : MEDTOX,1281-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol
Cal Date : 27-FEB-2001 16:38
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-A2065.d

Calibration Sample, Level: 3

Compound Sublist: 1-TOX.sub

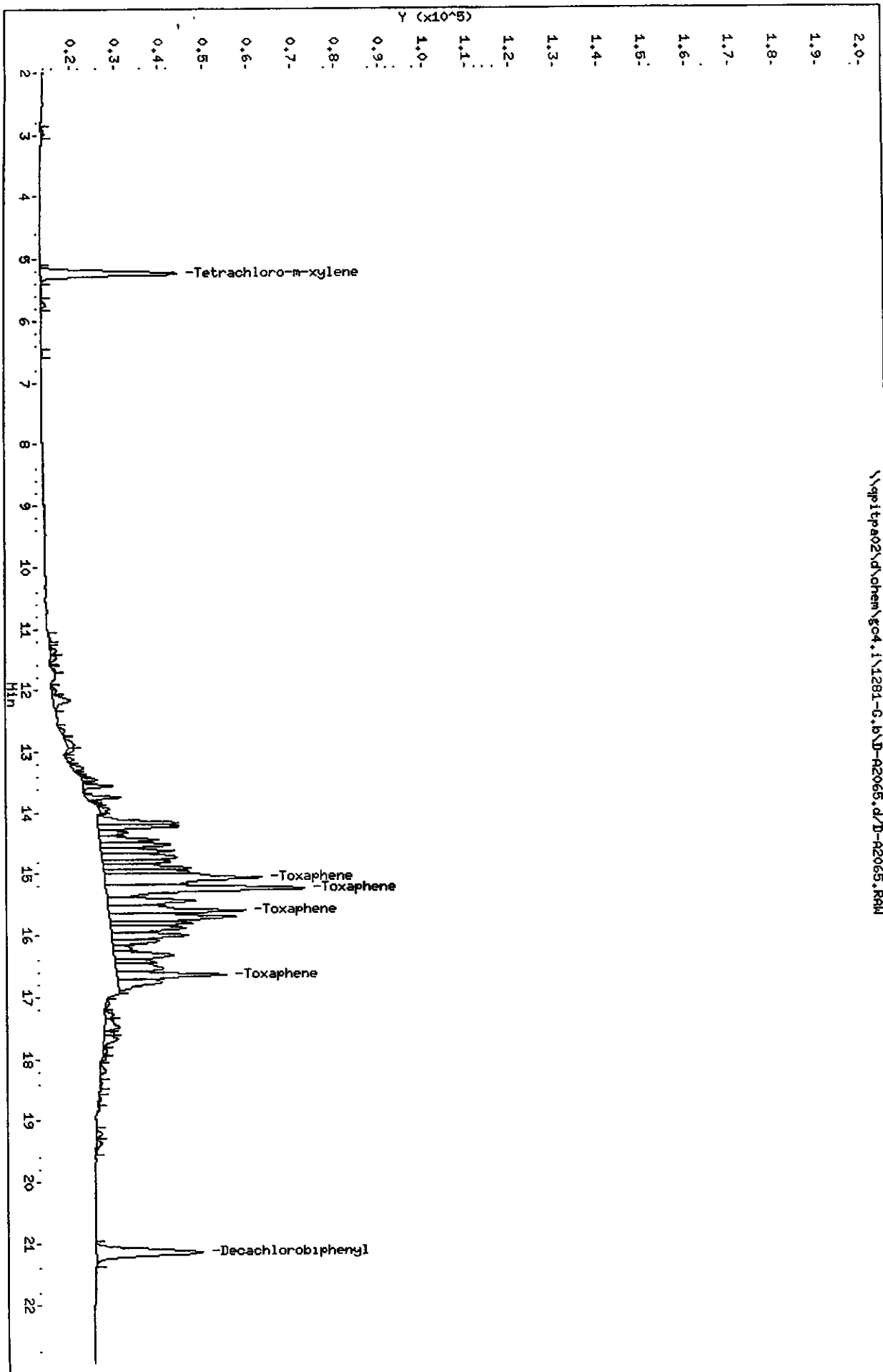
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
30 Toxaphene	15.066	15.066	0.000	35296	1.00000	1.000
\$ 2 Tetrachloro-m-xylene	5.240	5.233	0.007	30859	0.02500	0.02500
\$ 38 Decachlorobiphenyl	21.146	21.146	0.000	24075	0.02500	0.02500

677 426

Data File: \\qpltpa02\chem\gc4.1\1281-G.b\D-A2065.d
 Date: 27-FEB-2001 16:38
 Client ID:
 Sample Info: HEDTOX, 1281-G.b, 1-TOX, sub, 1, 3
 Column phase: RTX-50

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

\\qpltpa02\chem\gc4.1\1281-G.b\D-A2065.d\D-A2065.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2066.d
Report Date: 28-Feb-2001 09:05

677 427

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2066.d
Lab Smp Id: MEDCHLOR
Inj Date : 27-FEB-2001 17:04
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDCHLOR,1281-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-102-9
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC044

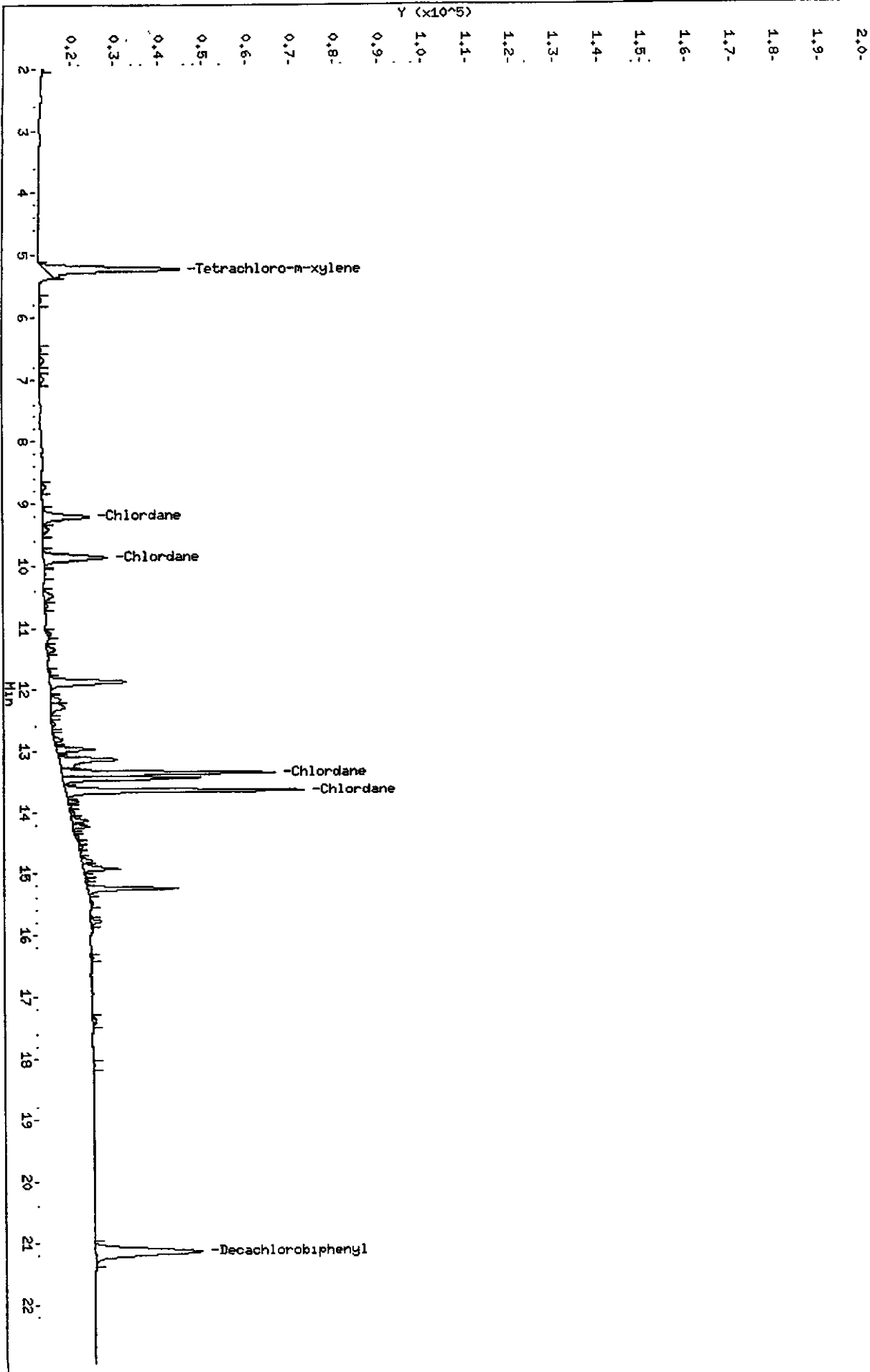
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
8 Chlordane	9.206	9 206	0 000	10312	0 25000	0.2500
\$ 2 Tetrachloro-m-xylene	5.233	5 233	0 000	29709	0.02500	0.02500
\$ 38 Decachlorobiphenyl	21.146	21 146	0.000	23849	0 02500	0 02500

677 428

Data File: \\pp1tpa02\chem\gc4.1\1281-G.b\D-A2066.d
 Date: 27-FEB-2001 17:04
 Client ID:
 Sample Info: MEDCHLOR,1281-G.b,2-CHLD,sub,1,3
 Column phase: RTX-50

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

\\pp1tpa02\chem\gc4.1\1281-G.b\D-A2066.d/D-A2066.RAW



Data File: \\gpitpa02\d\chem\gc4.i\1281-G.b\D-A2067.d
 Report Date: 28-Feb-2001 09:06

677 429

STL-Pittsburgh

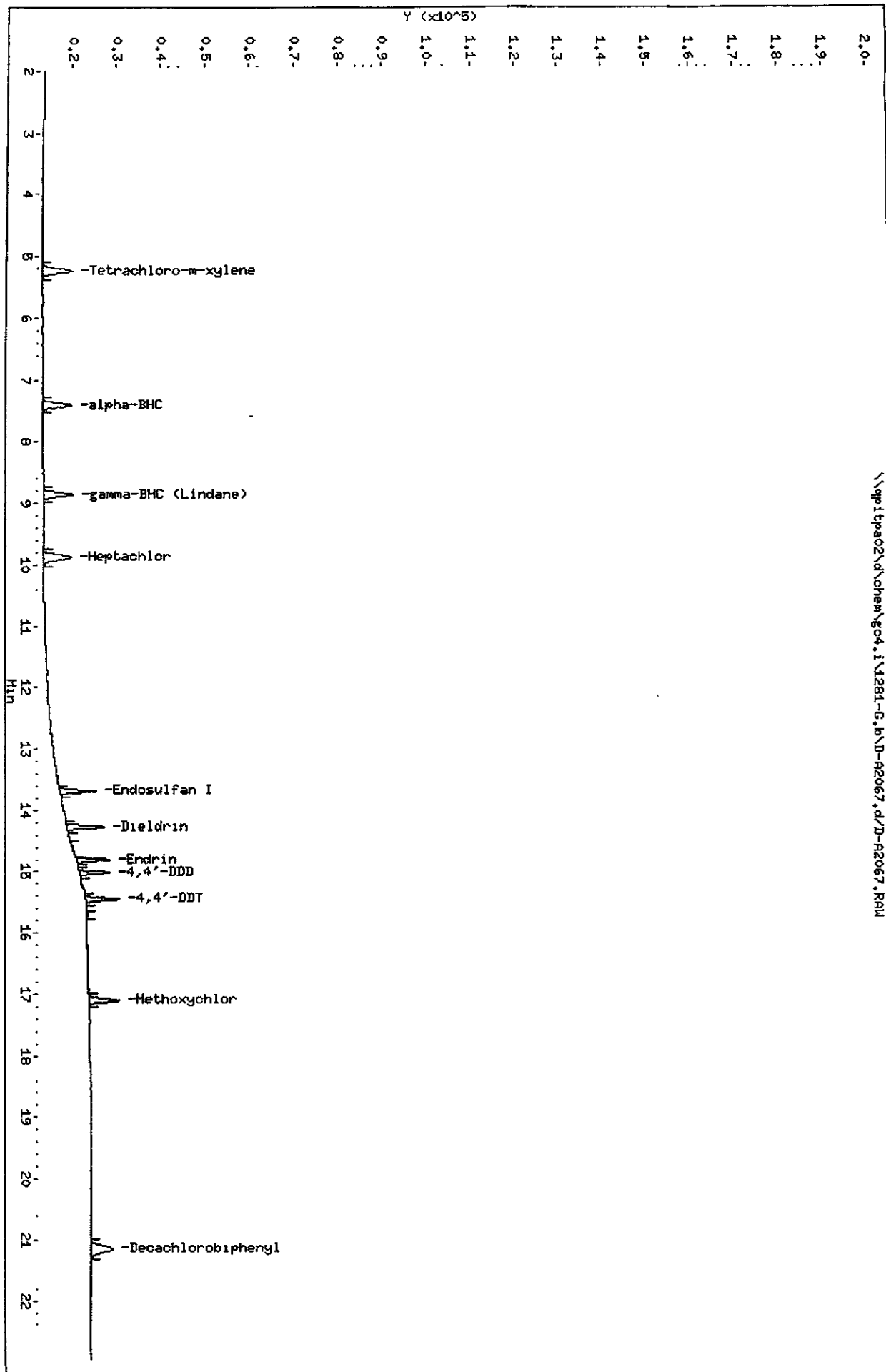
Data file : \\gpitpa02\d\chem\gc4.i\1281-G.b\D-A2067.d
 Lab Smp Id: LOWA
 Inj Date : 27-FEB-2001 17:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWA,1281-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-100-6
 Comment : 8081 analysis
 Method : \\gpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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	5.240	5.233	0 007	6659	0.00500	0 005284
6 alpha-BHC	7.406	7.400	0 006	6458	0.00500	0.004242
7 gamma-BHC (Lindane)	8.853	8.853	0.000	6613	0.00500	0.004419
9 Heptachlor	9.873	9.866	0.007	6409	0.00500	0.004932
20 Endosulfan I	13.680	13 680	0 000	8128	0.00500	0.004805
23 Dieldrin	14.273	14.273	0 000	8500	0.00500	0.004627
26 Endrin	14.806	14.806	0.000	7586	0.00500	0.004676
29 4,4'-DDD	15.013	15.013	0 000	6924	0.00500	0.004639
32 4,4'-DDT	15 446	15 446	0.000	7531	0.00500	0.004822
35 Methoxychlor	17.100	17.100	0 000	6887	0.01000	0 009925
\$ 38 Decachlorobiphenyl	21 146	21 146	0 000	5023	0 00500	0.005129

677 430

Data File: \\spitpa02\chem\gc4.1\1281-G.b.D-A2067.d
 Date : 27-FEB-2001 17:31
 Client ID:
 Sample Info: LOMR,1281-G.b,3-INDA,sub,1,1
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2068.d
Report Date: 28-Feb-2001 09:06

677 431

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2068.d
Lab Smp Id: MLOWA
Inj Date : 27-FEB-2001 17:57
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWA,1281-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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

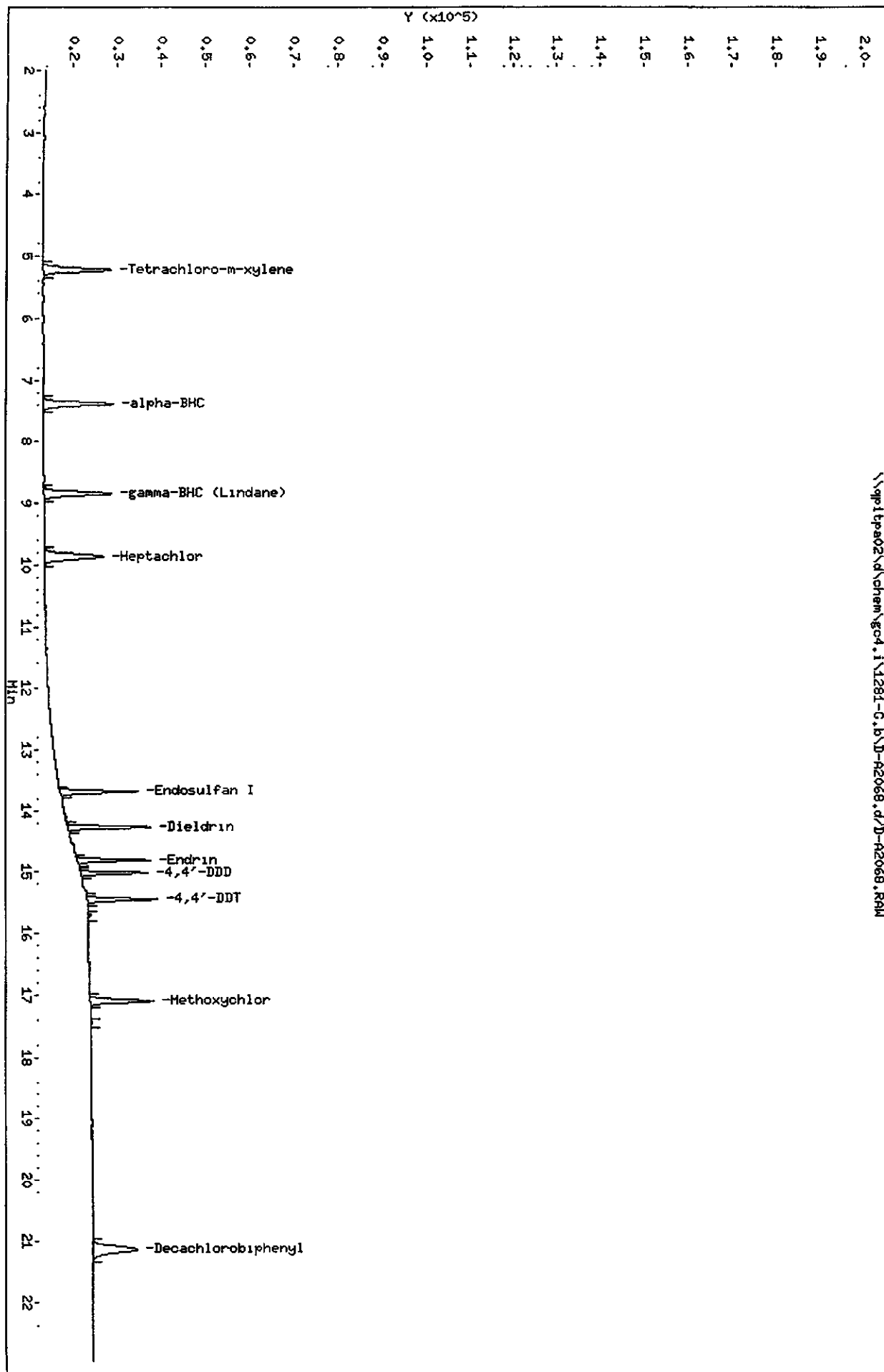
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.213	5.233	-0.020	15184	0.01000	0.01128
6 alpha-BHC	7.393	7.400	-0.007	15624	0.01000	0.01017
7 gamma-BHC (Lindane)	8.846	8.853	-0.007	15243	0.01000	0.01012
9 Heptachlor	9.860	9.866	-0.006	13308	0.01000	0.01016
20 Endosulfan I	13.680	13.680	0.000	17425	0.01000	0.01020
23 Dieldrin	14.266	14.273	-0.007	18608	0.01000	0.01008
26 Endrin	14.800	14.806	-0.006	16360	0.01000	0.01006
29 4,4'-DDD	15.013	15.013	0.000	14996	0.01000	0.01003
32 4,4'-DDT	15.440	15.446	-0.006	15764	0.01000	0.01006
35 Methoxychlor	17.093	17.100	-0.007	14256	0.02000	0.02036
\$ 38 Decachlorobiphenyl	21.140	21.146	-0.006	10131	0.01000	0.01023

677 432

Data File: \\qptpa02\chem\gc4.1\1281-G.b\D-A2068.d
 Date: 27-FEB-2001 17:57
 Client ID:
 Sample Info: HLMH,1281-G.b,3-IND,sub,1,2
 Column phase: RTX-50

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

\\qptpa02\chem\gc4.1\1281-G.b\D-A2068.d\D-A2068.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2069.d
Report Date: 28-Feb-2001 09:06

677 433

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2069.d
Lab Smp Id: MEDA
Inj Date : 27-FEB-2001 18:24
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,1281-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 18:24 Cal File: D-A2069.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

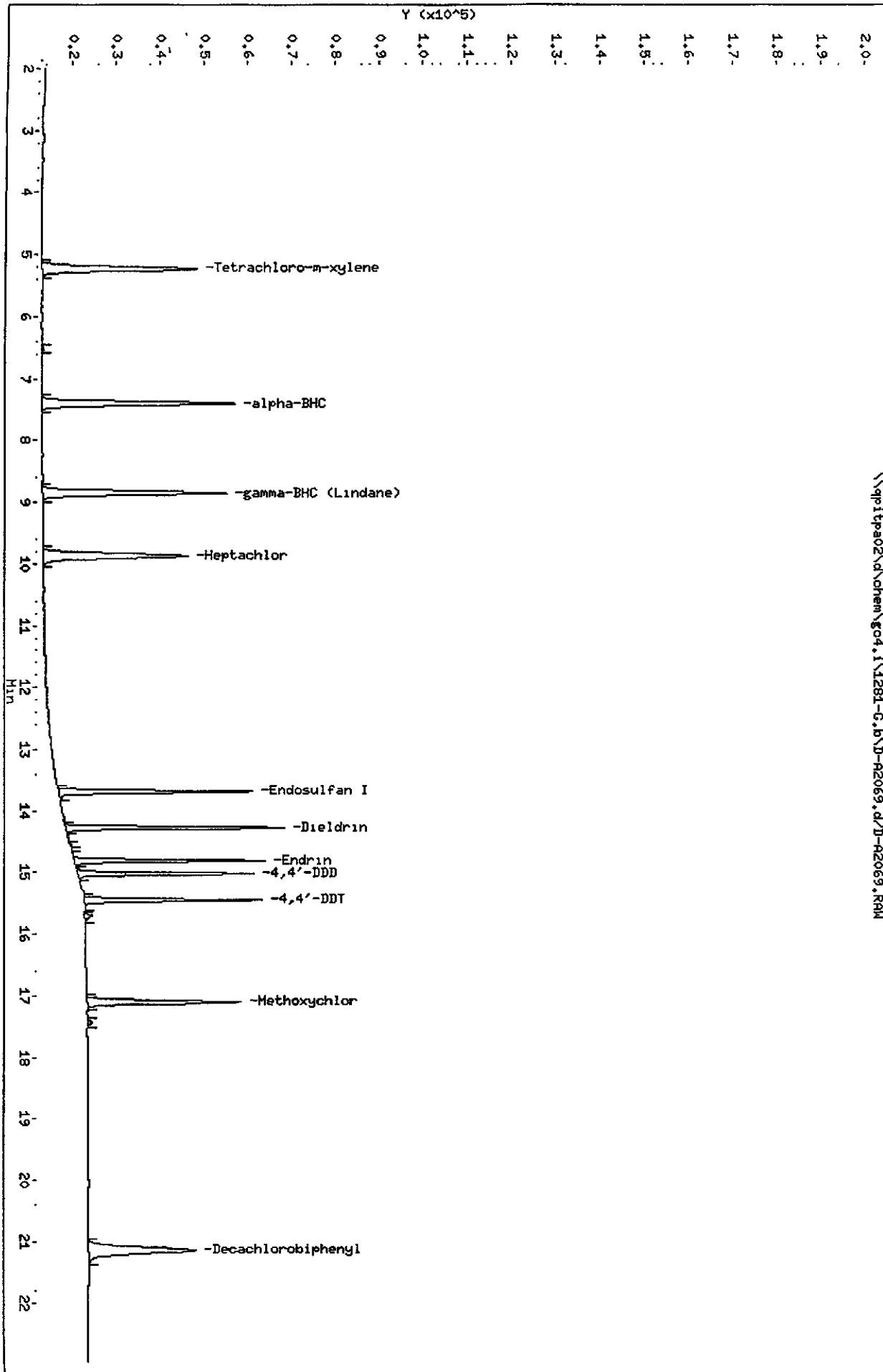
		AMOUNTS				
		RT	EXP RT	DLT RT	RESPONSE	CAL-AMT
						ON-COL
Compounds					(ng)	(ng)
-----		--	-----	-----	-----	-----
\$ 2	Tetrachloro-m-xylene	5.226	5.233	-0.007	35308	0.02500
6	alpha-BHC	7.400	7.400	0.000	43820	0.02500
7	gamma-BHC (Lindane)	8.853	8.853	0.000	41766	0.02500
9	Heptachlor	9.866	9.866	0.000	32934	0.02500
20	Endosulfan I	13.680	13.680	0.000	43932	0.02500
23	Dieldrin	14.273	14.273	0.000	49359	0.02500
26	Endrin	14.806	14.806	0.000	43189	0.02500
29	4,4'-DDD	15.013	15.013	0.000	40009	0.02500
32	4,4'-DDT	15.446	15.446	0.000	40427	0.02500
35	Methoxychlor	17.100	17.100	0.000	34952	0.05000
\$ 38	Decachlorobiphenyl	21.146	21.146	0.000	24230	0.02500

677 434

Data File: \\pittpa02\chem\gc4.1\1281-G,b\D-A2069.d
 Date : 27-FEB-2004 18:24
 Client ID:
 Sample Info: HEDA,1281-G,b,3-INDA,sub,1,3
 Column phase: RTX-50

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

\\pittpa02\chem\gc4.1\1281-G,b\D-A2069.d\D-A2069.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2070.d
 Report Date: 28-Feb-2001 09:06

677 435

STL-Pittsburgh

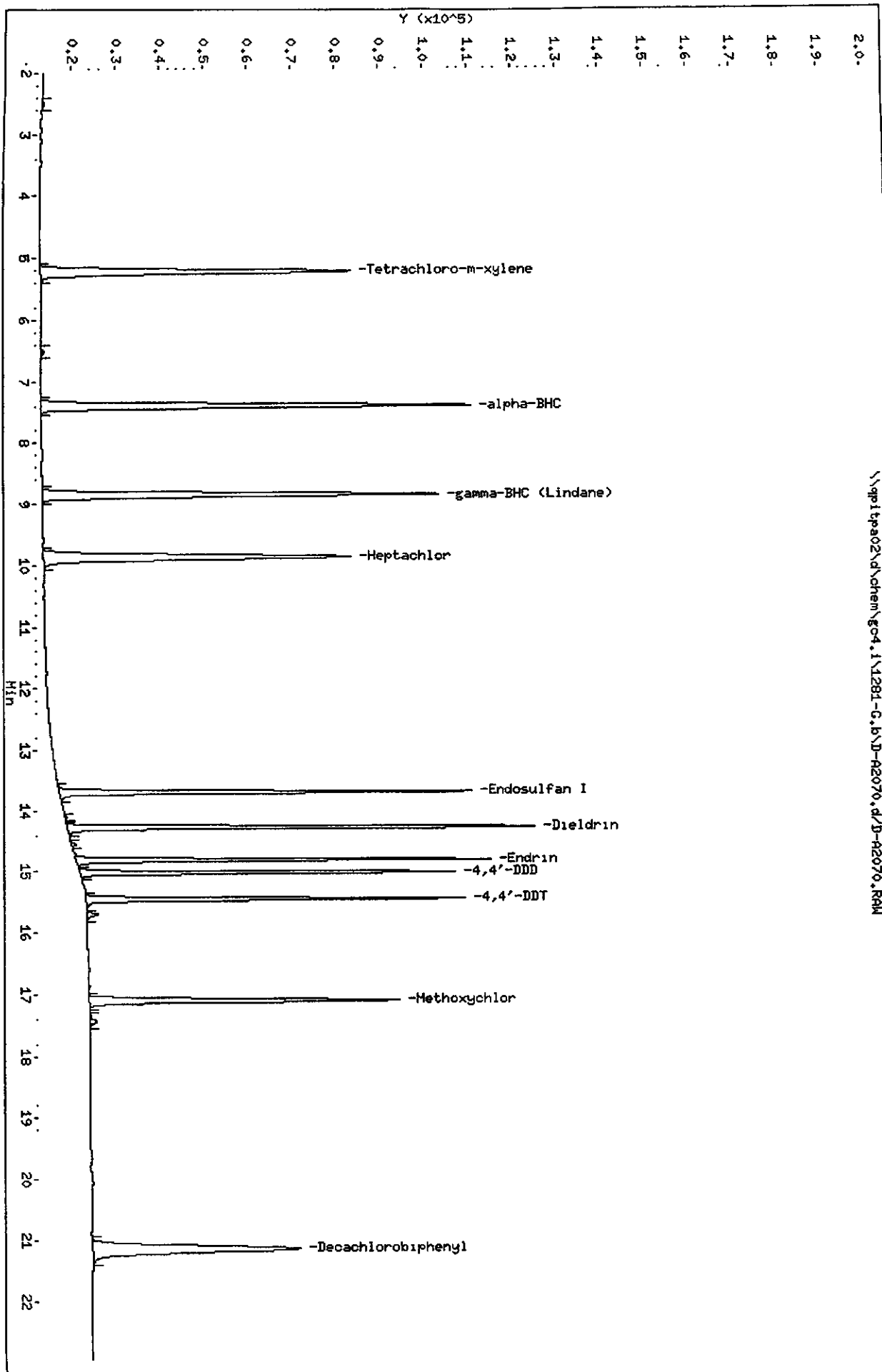
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 Lab Smp Id: MHIGHA
 Inj Date : 27-FEB-2001 18:50
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHA,1281-G.b,,3-INDA.sub,,1,4
 Misc Info : 190-100-9
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.226	5.233	-0.007	70172	0.05000	0.05158
6 alpha-BHC	7.400	7.400	0.000	97195	0.05000	0.05935
7 gamma-BHC (Lindane)	8.853	8.853	0.000	89570	0.05000	0.05679
9 Heptachlor	9.866	9.866	0.000	69778	0.05000	0.05241
20 Endosulfan I	13.680	13.680	0.000	93267	0.05000	0.05337
23 Dieldrin	14.273	14.273	0.000	105834	0.05000	0.05532
26 Endrin	14.806	14.806	0.000	93991	0.05000	0.05561
29 4,4'-DDD	15.013	15.013	0.000	84765	0.05000	0.05486
32 4,4'-DDT	15.440	15.446	-0.006	85679	0.05000	0.05344
35 Methoxychlor	17.093	17.100	-0.007	70268	0.10000	0.1003
\$ 38 Decachlorobiphenyl	21.140	21.146	-0.006	47238	0.05000	0.04825

677 436

Data File: \\ppltpa02\chem\gc4.1\1281-G.b\1D-A2070.d
 Date : 27-FEB-2001 18:50
 Client ID:
 Sample Info: NHIGHA,1281-G.b,,3-INDR,sub,,1,4
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2071.d
 Report Date: 28-Feb-2001 09:06

677 437

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2071.d
 Lab Smp Id: HIGHA
 Inj Date : 27-FEB-2001 19:17
 Operator : 010139
 Smp Info : HIGHA,1281-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-100-10
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 28-Feb-2001 08:56 matkol
 Cal Date : 27-FEB-2001 20:36
 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-A2074.d
 Calibration Sample, Level: 5
 Compound Sublist: 3-INDA.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.213	5.233	-0.020	148279	0.10000	0.1071(A)
6 alpha-BHC	7.393	7.400	-0.007	211387	0.10000	0.1220(A)
7 gamma-BHC (Lindane)	8.846	8.853	-0.007	190710	0.10000	0.1160(A)
9 Heptachlor	9.860	9.866	-0.006	149062	0.10000	0.1093(A)
20 Endosulfan I	13.680	13.680	0.000	194148	0.10000	0.1087(A)
23 Dieldrin	14.266	14.273	-0.007	223332	0.10000	0.1130(A)
26 Endrin	14.806	14.806	0.000	193933	0.10000	0.1114(A)
29 4,4'-DDD	15.013	15.013	0.000	179039	0.10000	0.1123(A)
32 4,4'-DDT	15.440	15.446	-0.006	179651	0.10000	0.1094(A)
35 Methoxychlor	17.093	17.100	-0.007	141745	0.20000	0.2018(A)
\$ 38 Decachlorobiphenyl	21.140	21.146	-0.006	92419	0.10000	0.09546

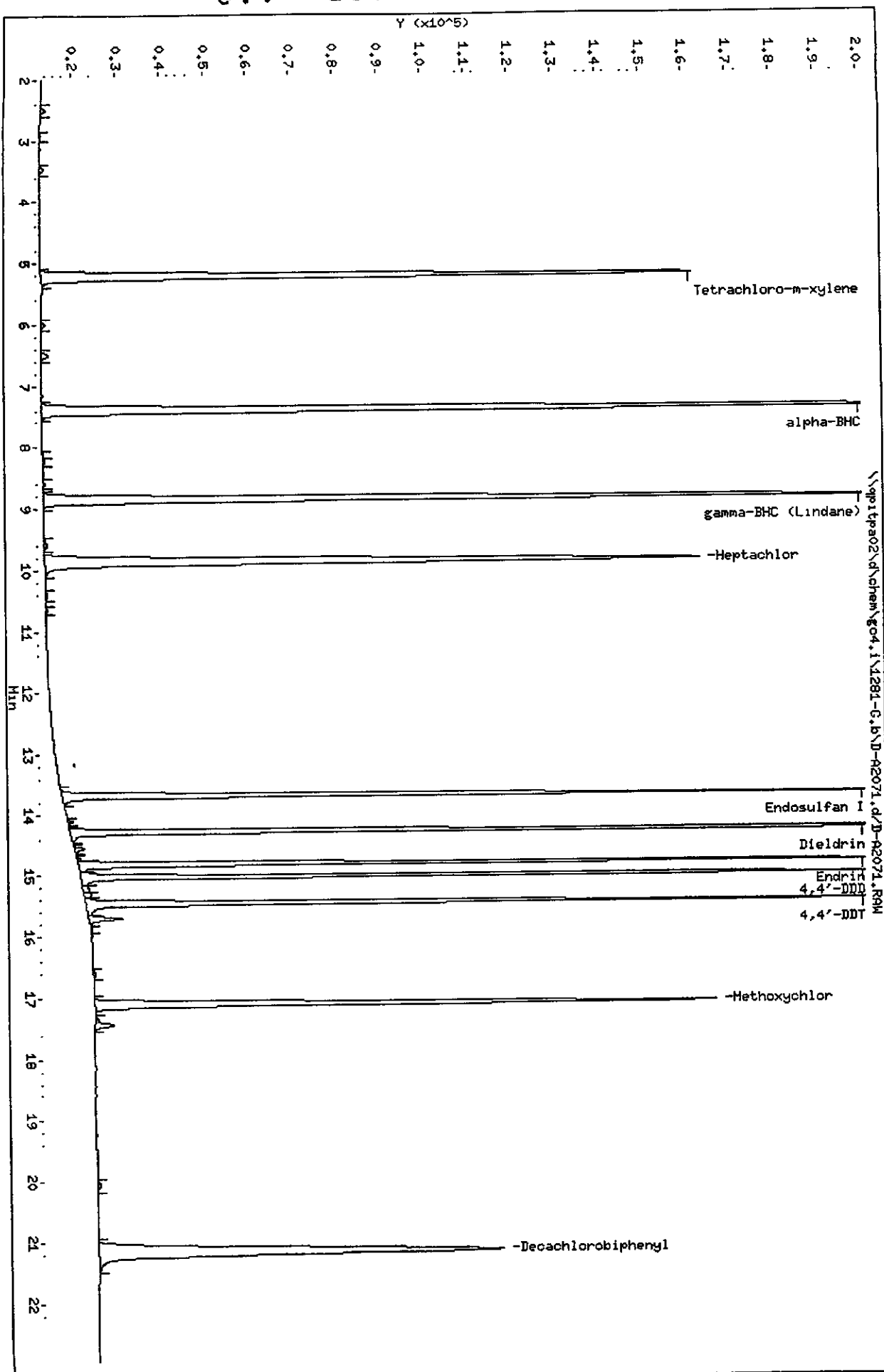
QC Flag Legend

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

677 433

Data File: \\qpltpa02\chem\gc4,1\1281-G.b\D-A2071.d
 Date: 27-FEB-2001 19:17
 Client ID:
 Sample Info: HIGH,1281-G.b,3-INDR,sub,1,5
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2072.d
Report Date: 28-Feb-2001 09:06

677 439

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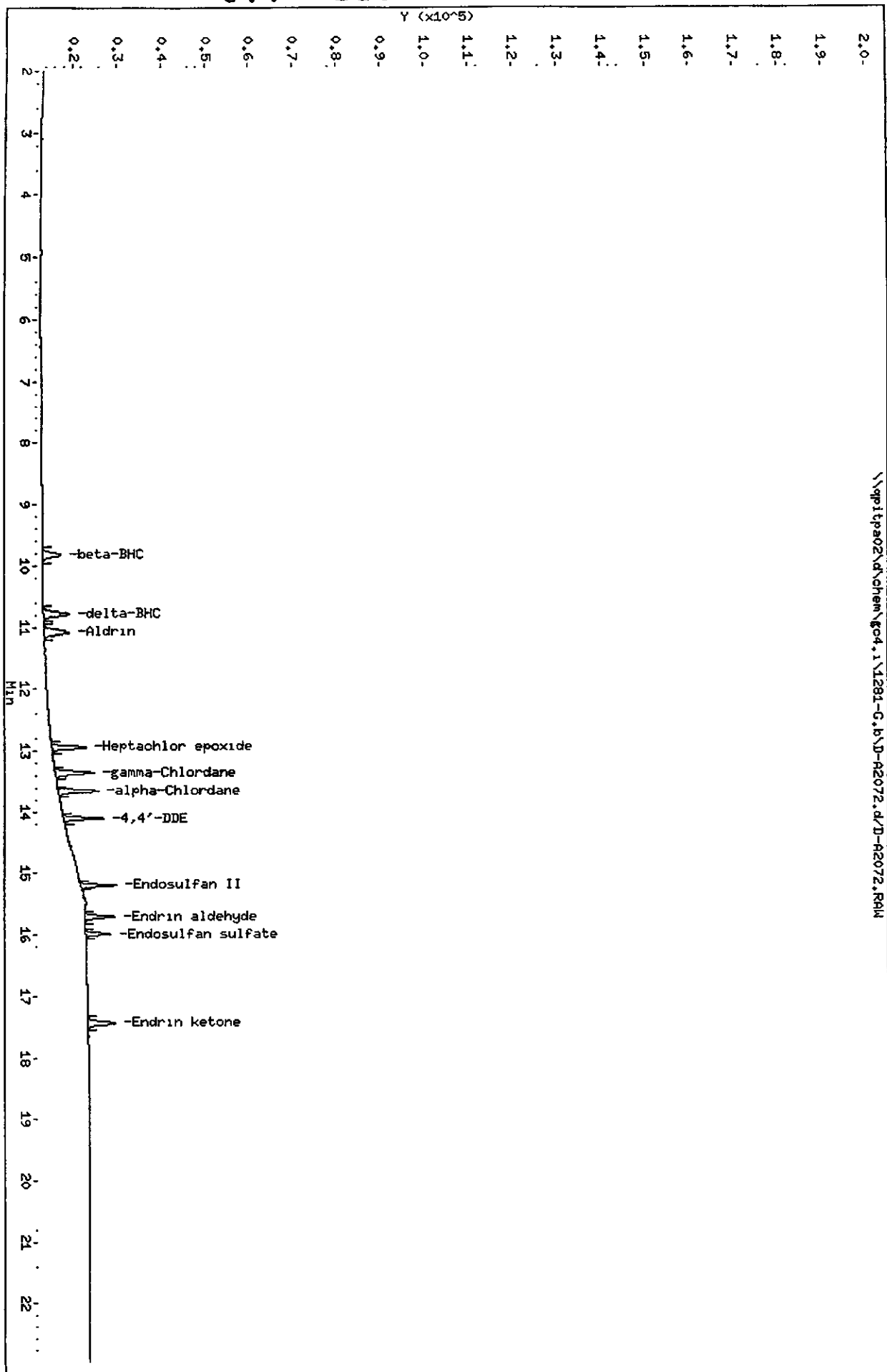
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Lab Smp Id: LOWB
Inj Date : 27-FEB-2001 19:43
Operator : 010139 Inst ID: gc4.i
Smp Info : LOWB,1281-G.b,,4-INDB.sub,,1,1
Misc Info : 190-100-12
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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	11.080	11.080	0.000	5683	0.00500	0.004632
10 beta-BHC	9.820	9.820	0.000	4126	0.00500	0.004874
11 delta-BHC	10.786	10.786	0.000	5848	0.00500	0.004283
17 Heptachlor epoxide	12.940	12.940	0.000	7792	0.00500	0.004707
18 gamma-Chlordane	13.353	13.353	0.000	8782	0.00500	0.004777
19 alpha-Chlordane	13.646	13.646	0.000	9068	0.00500	0.004765
22 4,4'-DDE	14.106	14.106	0.000	9057	0.00500	0.004609
31 Endosulfan II	15.200	15.200	0.000	8024	0.00500	0.004793
33 Endrin aldehyde	15.700	15.700	0.000	6700	0.00500	0.004848
34 Endosulfan sulfate	15.986	15.986	0.000	5666	0.00500	0.004635
37 Endrin ketone	17.433	17.433	0.000	6246	0.00500	0.004631

677 440

Data File: \\ppitpa02\chem\gc04.1\1281-G.b\1D-A2072.d
 Date: 27-FEB-2001 19:43
 Client ID:
 Sample Info: LOWB,1281-G,b,4-INDB.sub,1,1
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2073.d
Report Date: 28-Feb-2001 09:07

677 441

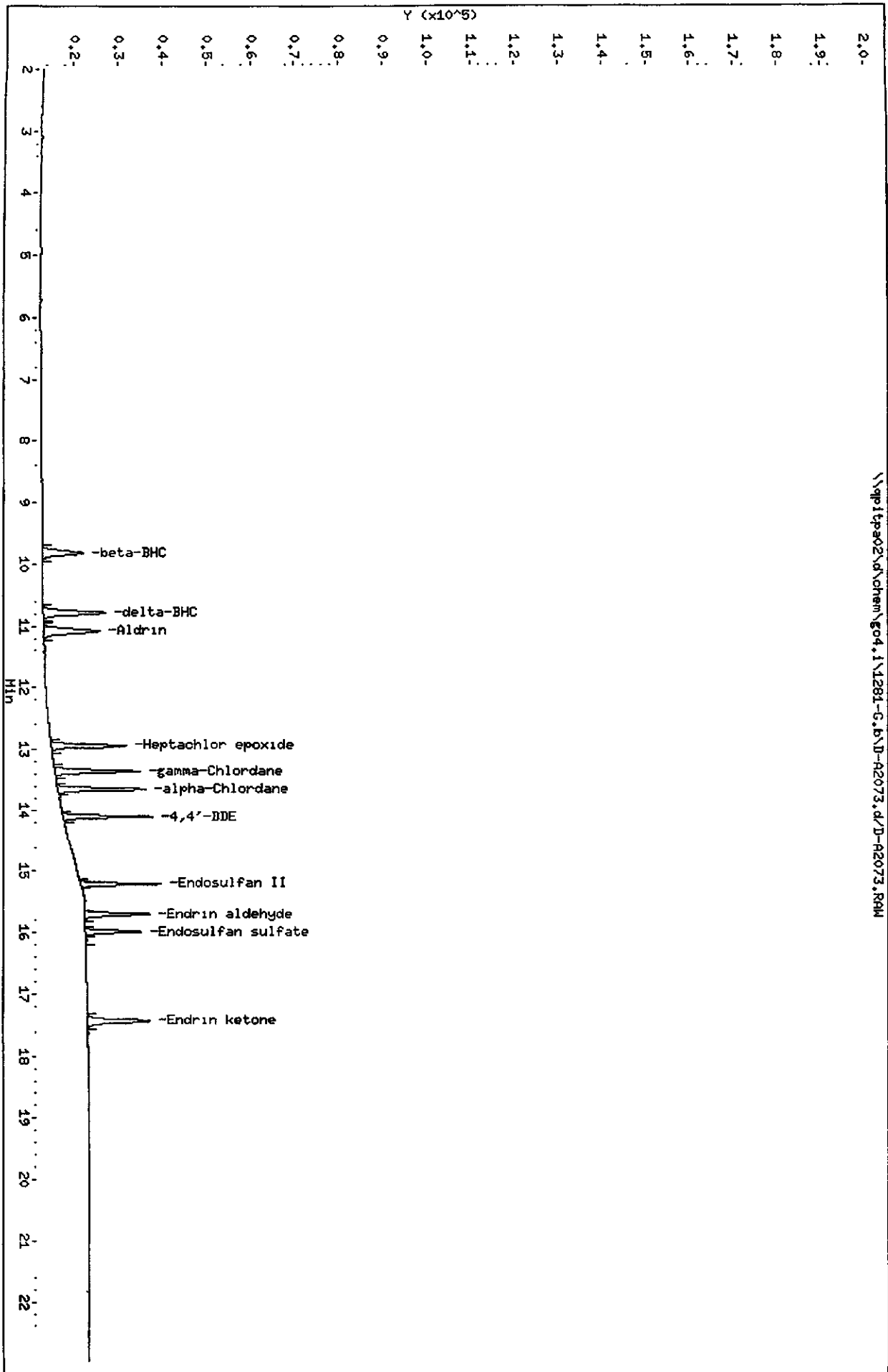
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2073.d
Lab Smp Id: MLOWB
Inj Date : 27-FEB-2001 20:09
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWB,1281-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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	11.086	11 080	0.006	12439	0.01000	0 01009
10 beta-BHC	9 820	9 820	0.000	8989	0.01000	0.01040
11 delta-BHC	10 786	10 786	0.000	13836	0.01000	0.01009
17 Heptachlor epoxide	12 940	12.940	0.000	16913	0.01000	0.01014
18 gamma-Chlordane	13 353	13 353	0.000	18996	0.01000	0.01022
19 alpha-Chlordane	13.646	13.646	0.000	19790	0.01000	0.01026
22 4,4'-DDE	14 106	14 106	0.000	20207	0.01000	0.01019
31 Endosulfan II	15 200	15 200	0.000	18131	0 01000	0.01054
33 Endrin aldehyde	15.700	15 700	0.000	14847	0.01000	0.01048
34 Endosulfan sulfate	15 986	15 986	0.000	12834	0.01000	0.01033
37 Endrin ketone	17.433	17 433	0.000	13955	0 01000	0 01023

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Data File: \\pp1tpa02\d\chem\gc04.1\1281-G.b\1D-A2073.d
Date : 27-FEB-2001 20:09
Client ID:
Sample Info: MLOMB,1281-G.b.,4-INDB.sub,1,2
Column Phase: RTX-50
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```
Instrument: gc4.1
Operator: 010139
Column diameter: 0.53
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Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2074.d
Report Date: 28-Feb-2001 09:07

677 443

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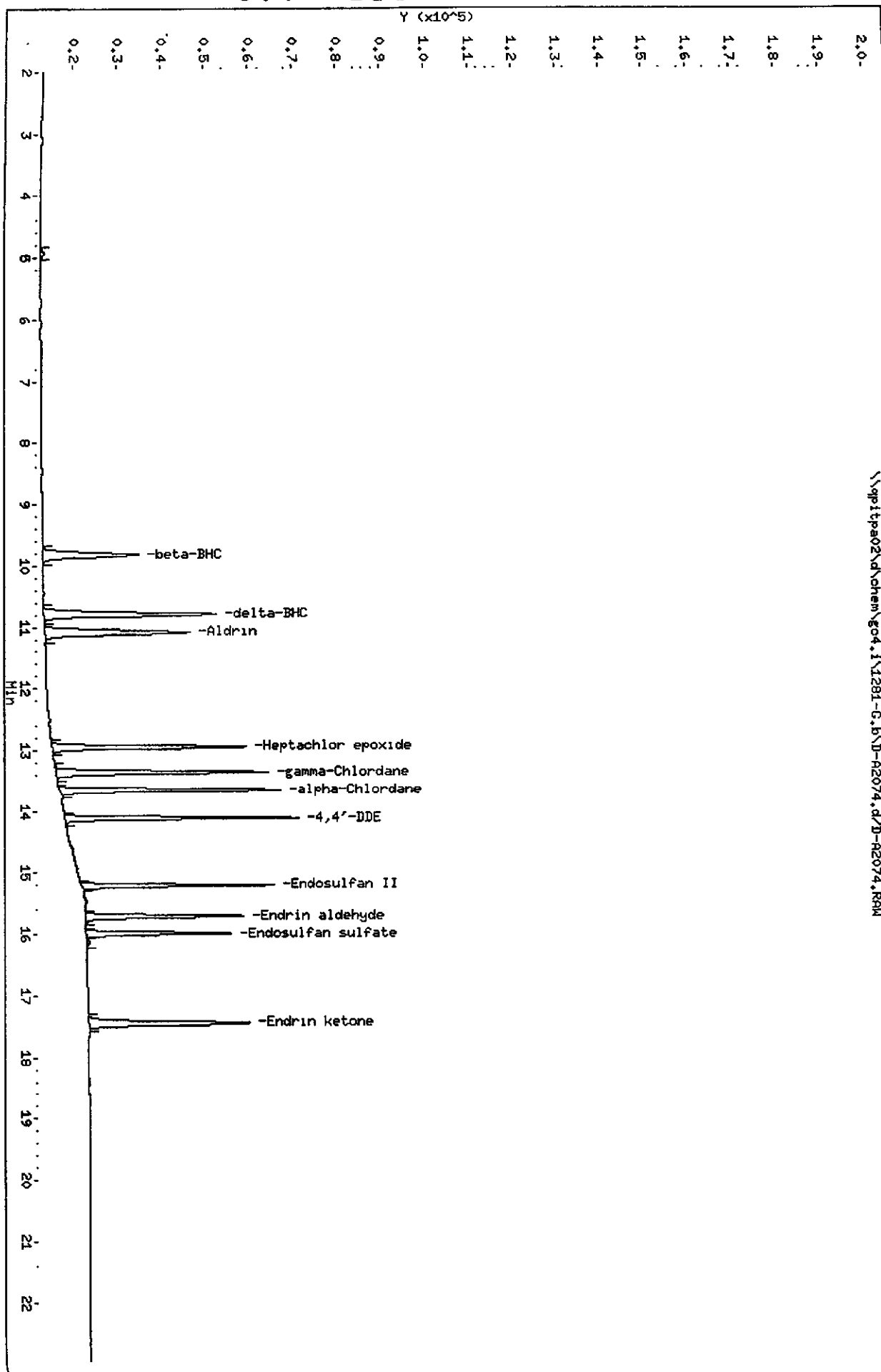
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Lab Smp Id: MEDB
Inj Date : 27-FEB-2001 20:36
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,1281-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 20:36 Cal File: D-A2074.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	11.080	11.080	0.000	32925	0.02500	0.02500
10 beta-BHC	9.820	9.820	0.000	21698	0.02500	0.02500
11 delta-BHC	10.786	10.786	0.000	39035	0.02500	0.02500
17 Heptachlor epoxide	12.940	12.940	0.000	43813	0.02500	0.02500
18 gamma-Chlordane	13.353	13.353	0.000	48009	0.02500	0.02500
19 alpha-Chlordane	13.646	13.646	0.000	49814	0.02500	0.02500
22 4,4'-DDE	14.106	14.106	0.000	52969	0.02500	0.02500
31 Endosulfan II	15.200	15.200	0.000	43583	0.02500	0.02500
33 Endrin aldehyde	15.700	15.700	0.000	35598	0.02500	0.02500
34 Endosulfan sulfate	15.986	15.986	0.000	32787	0.02500	0.02500
37 Endrin ketone	17.433	17.433	0.000	36205	0.02500	0.02500

677 444

Data File: \\qpltpa02\chem\gc04.1\1281-G.b\D-R2074.d
 Date : 27-FEB-2001 20:36
 Client ID:
 Sample Info: HEDB,1281-G.b,4-INDB,sub,1,3
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2075.d
Report Date: 28-Feb-2001 09:07

677 445

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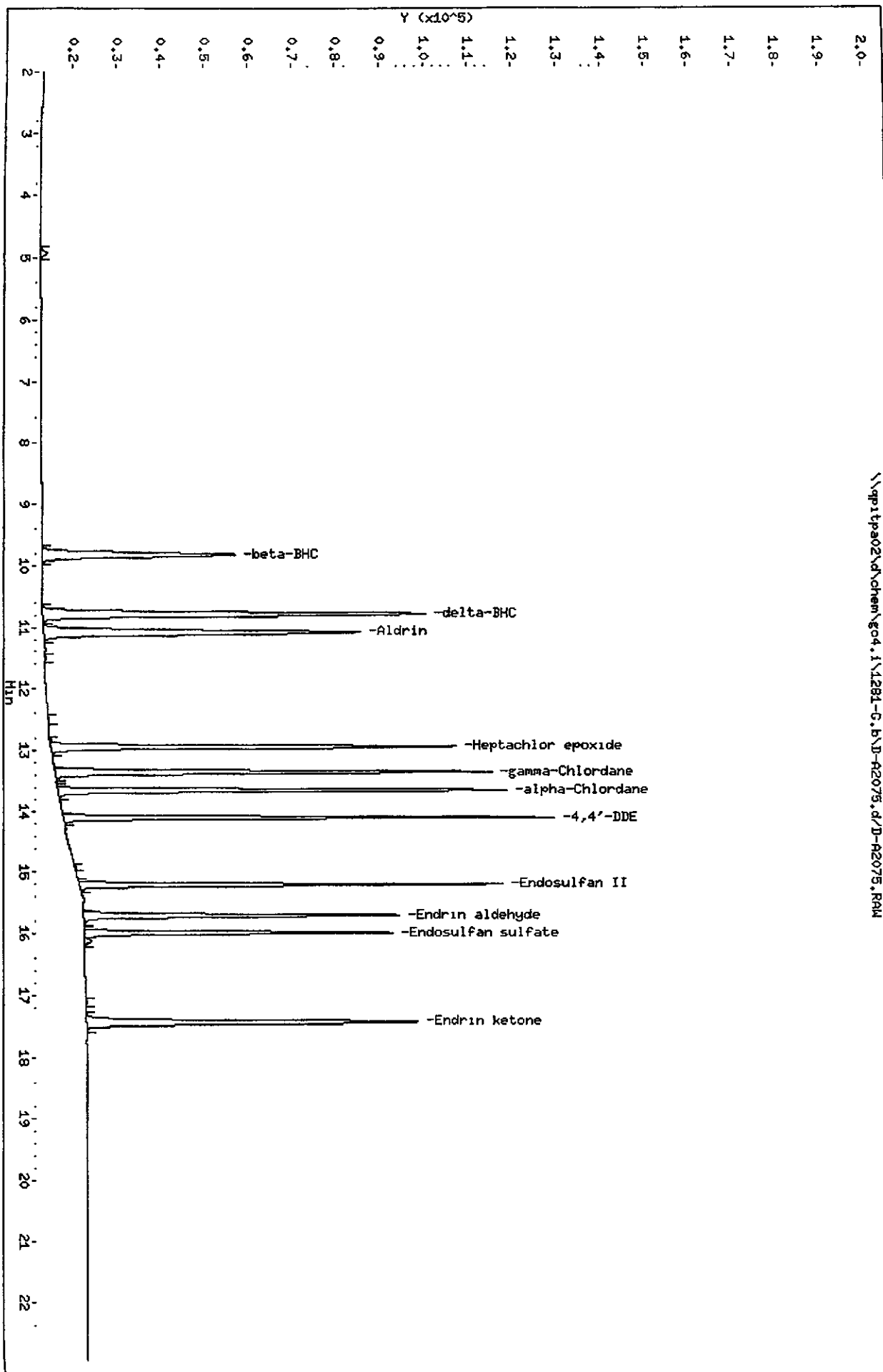
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Inj Date : 27-FEB-2001 21:02
Operator : 010139 Inst ID: gc4.i
Smp Info : MHIGHB,1281-G.b,,4-INDB.sub,,1,4
Misc Info : 190-101-1
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:02 Cal File: D-A2075.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
13 Aldrin	11.086	11.080	0.006	71831	0.05000	0 05596
10 beta-BHC	9.820	9.820	0.000	43963	0.05000	0 05066
11 delta-BHC	10.786	10.786	0.000	86579	0.05000	0.05924
17 Heptachlor epoxide	12 940	12.940	0 000	91616	0.05000	0.05362
18 gamma-Chlordane	13.353	13.353	0.000	98933	0.05000	0 05238
19 alpha-Chlordane	13 646	13.646	0.000	101826	0 05000	0.05207
22 4,4'-DDE	14.106	14.106	0.000	111335	0.05000	0.05446
31 Endosulfan II	15 200	15.200	0 000	96000	0.05000	0 05423
33 Endrin aldehyde	15.700	15.700	0 000	71355	0.05000	0.05029
34 Endosulfan sulfate	15.986	15.986	0 000	69566	0.05000	0 05435
37 Endrin ketone	17 433	17.433	0 000	74866	0.05000	0 05357

677 446

Data File: \\qpltpa02\chem\gc04.1\1281-G.b\D-A2075.d
 Date: 27-FEB-2001 21:02
 Client ID:
 Sample Info: HHIGHB,1281-G.b,4-INDB,sul,1,4
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2076.d
Report Date: 28-Feb-2001 09:07

677 447

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2076.d
Lab Smp Id: HIGHB
Inj Date : 27-FEB-2001 21:28
Operator : 010139 Inst ID: gc4.i
Smp Info : HIGHB,1281-G.b,,4-INDB.sub,,1,5
Misc Info : 190-101-2
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
13 Aldrin	11.080	11.080	0.000	142703	0.10000	0.1087(A)
10 beta-BHC	9.820	9.820	0.000	82147	0.10000	0.09568
11 delta-BHC	10.786	10.786	0.000	170469	0.10000	0.1129(A)
17 Heptachlor epoxide	12.940	12.940	0.000	178642	0.10000	0.1036(A)
18 gamma-Chlordane	13.353	13.353	0.000	191700	0.10000	0.1012(A)
19 alpha-Chlordane	13.646	13.646	0.000	194903	0.10000	0.09974
22 4,4'-DDE	14.106	14.106	0.000	215074	0.10000	0.1041(A)
31 Endosulfan II	15.200	15.200	0.000	189446	0.10000	0.1055(A)
33 Endrin aldehyde	15.700	15.700	0.000	137919	0.10000	0.09775
34 Endosulfan sulfate	15.986	15.986	0.000	137764	0.10000	0.1060(A)
37 Endrin ketone	17.433	17.433	0.000	146217	0.10000	0.1037(A)

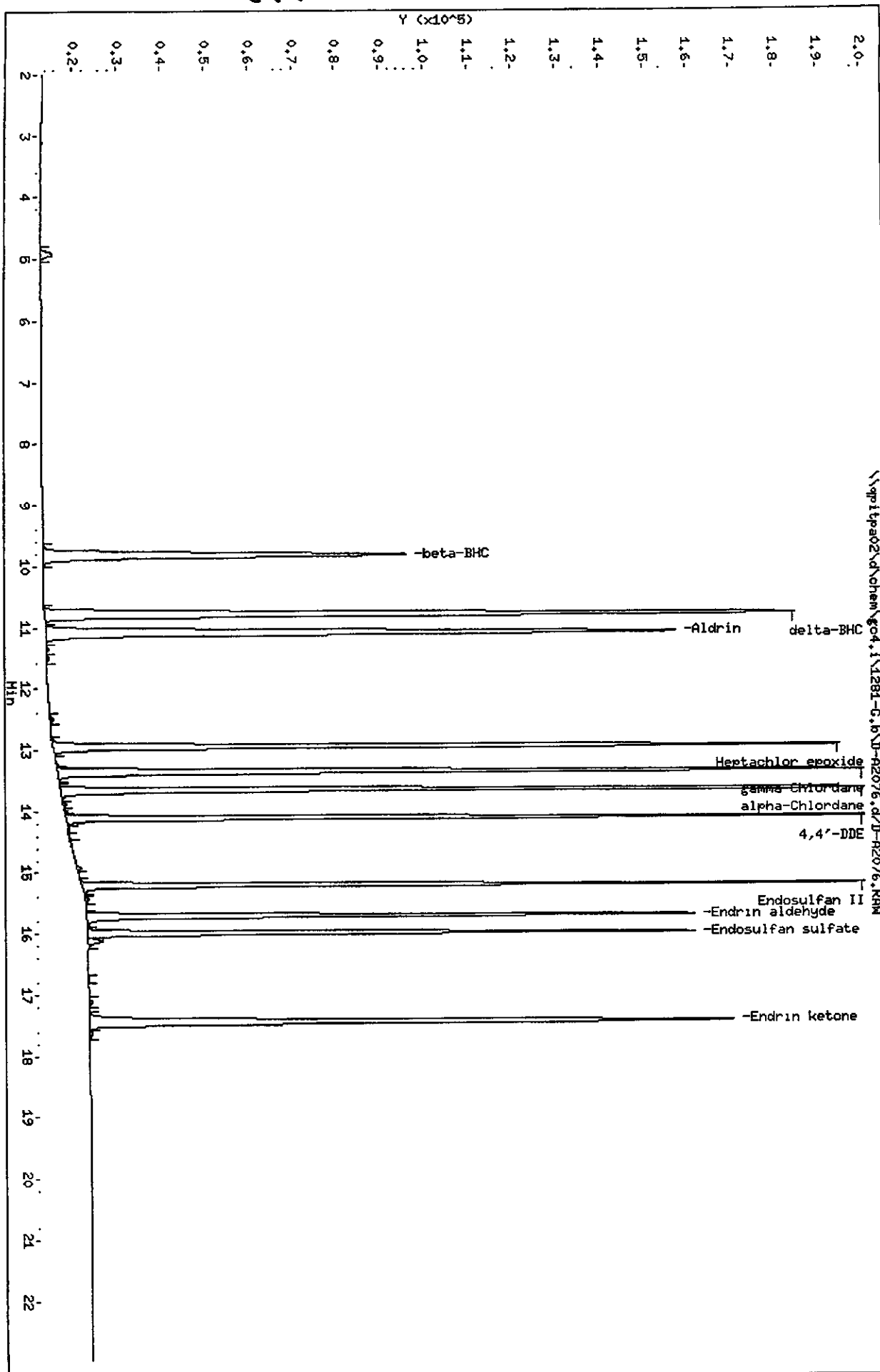
QC Flag Legend

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

677 448

Data File: \\ppitpa02\chem\gc4.1\1281-G.b\D-A2076.d
 Date : 27-FEB-2001 21:28
 Client ID:
 Sample Info: HIGHB,1281-G.b,,4-INDB,sub,,1.5
 Column Phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2077.d
 Report Date: 28-Feb-2001 09:07

677 449

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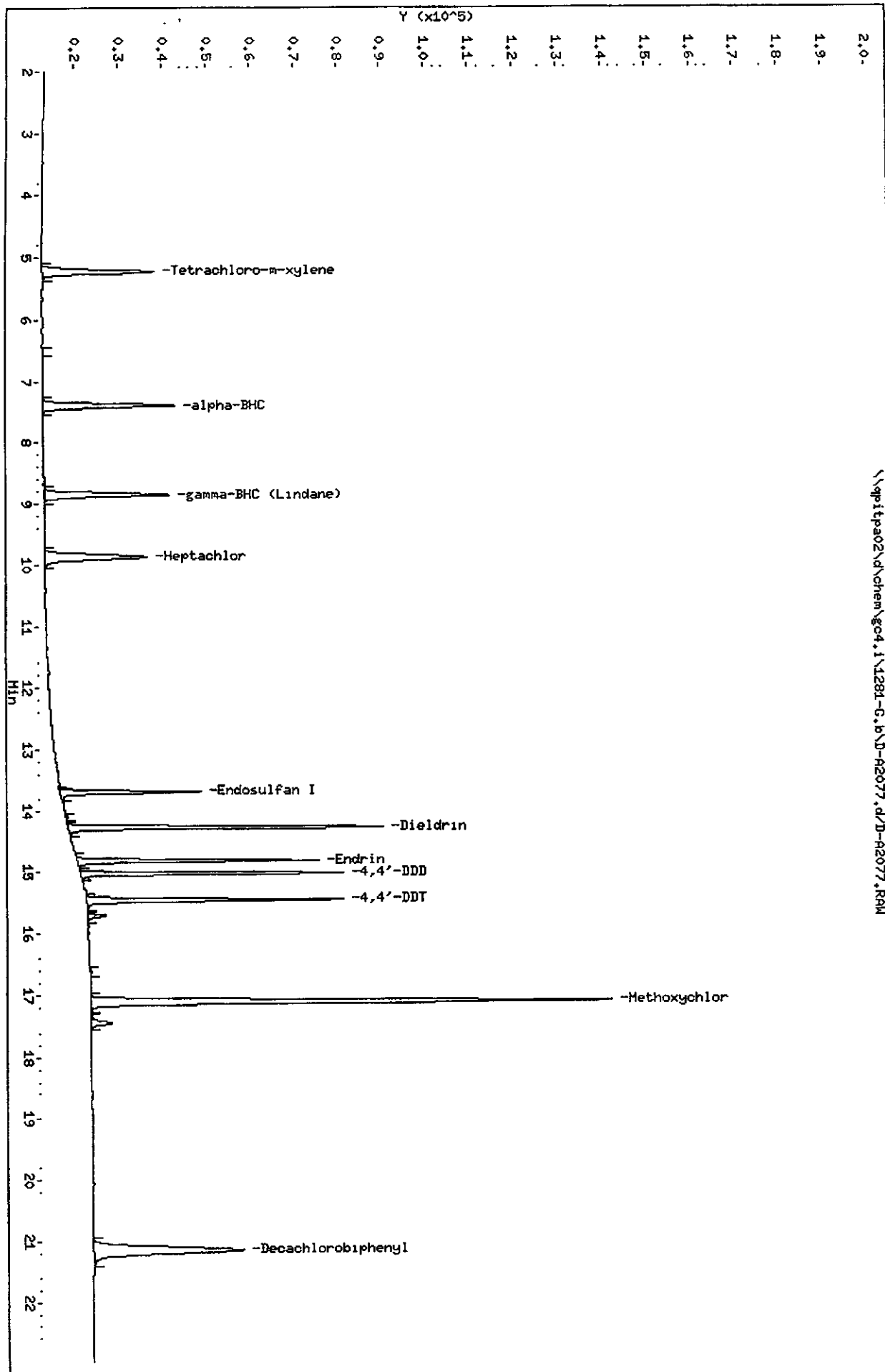
Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2077.d
 Lab Smp Id: 2ND A
 Inj Date : 27-FEB-2001 21:55
 Operator : 010139
 Smp Info : 2ND A,1281-G.b,,INDA.sub,,2,3
 Misc Info : 190-101-7
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 28-Feb-2001 08:56 matkol
 Cal Date : 27-FEB-2001 21:28
 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-A2076.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	5.226	5 233	-0.007	25361	0 02500	0.01831
6 alpha-BHC	7 400	7 400	0 000	29941	0.02500	0 01728
7 gamma-BHC (Lindane)	8 853	8 853	0 000	28469	0.02500	0 01732
9 Heptachlor	9 866	9 866	0 000	23354	0.02500	0.01713
20 Endosulfan I	13.680	13.680	0.000	31994	0 02500	0 01791
23 Dieldrin	14.273	14.273	0.000	71835	0 02500	0.03633
26 Endrin	14 806	14 806	0.000	54938	0 02500	0.03157
29 4,4'-DDD	15.013	15.013	0.000	59889	0 02500	0.03757
32 4,4'-DDT	15 446	15 446	0 000	58732	0.02500	0.03577
35 Methoxychlor	17.100	17 100	0 000	118184	0.05000	0.1683
\$ 38 Decachlorobiphenyl	21.146	21 146	0 000	34079	0.02500	0.03520

Data File: \\app1tp0202\chem\604.1\1281-G.b.D-02077.d
Date : 27-FEB-2001 21:55
Client ID:
Sample Info: 2ND A,1281-G,b,,IND0,sub,,2,3
Column phase: RTX-50

Instrument: 604.1
Operator: 010139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2078.d
Report Date: 28-Feb-2001 09:07

677 451

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2078.d
Lab Smp Id: 2ND B
Inj Date : 27-FEB-2001 22:21
Operator : 010139
Smp Info : 2ND B,1281-G.b,,INDB.sub,,2,3
Misc Info : 190-101-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol
Cal Date : 27-FEB-2001 21:28
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC044

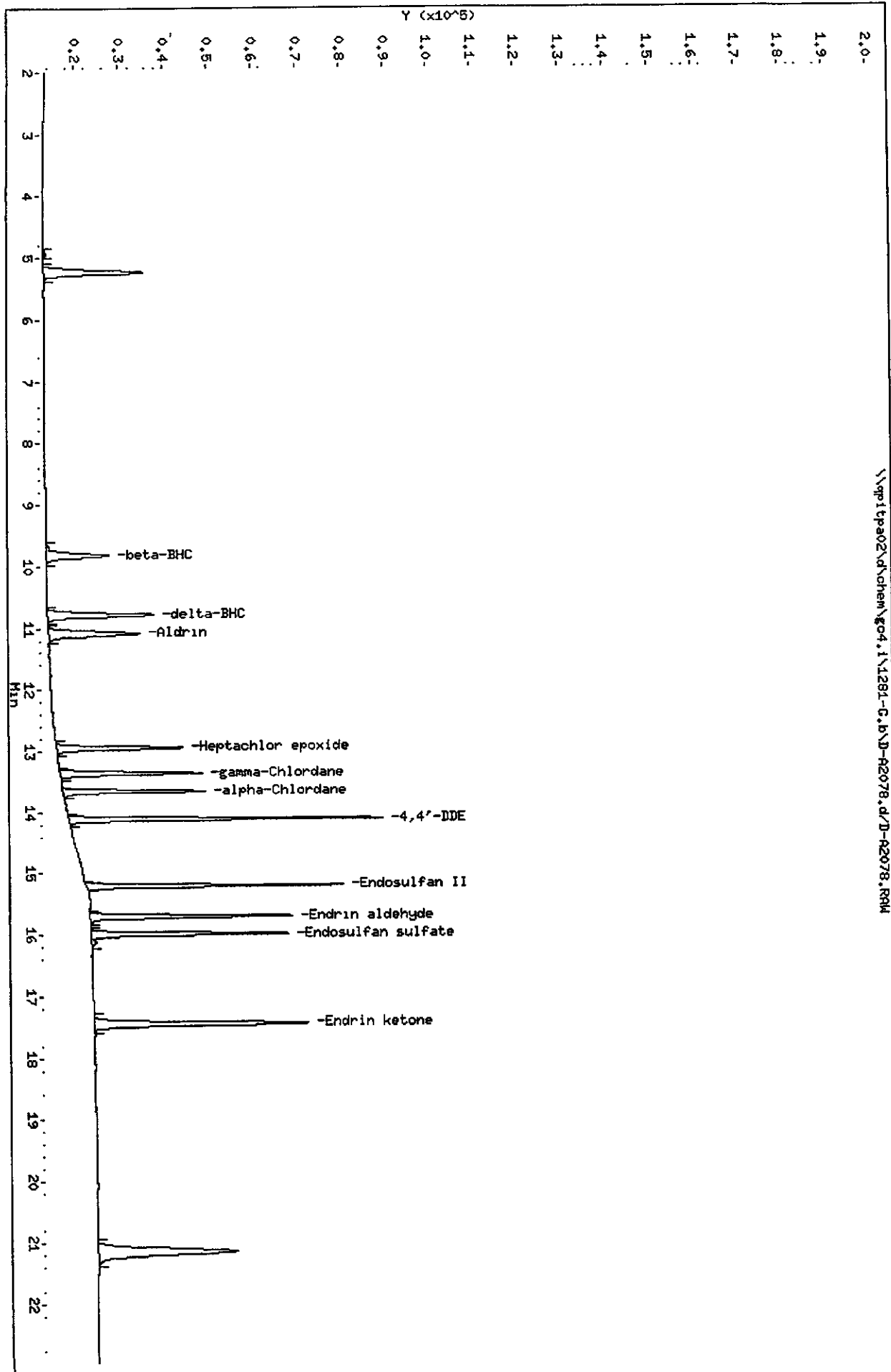
Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-A2076.d
Continuing Calibration Sample
Compound Sublist: INDB.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON- COL (ng)
*****	==	=====	=====	=====	=====	=====
13 Aldrin	11.080	11.080	0 000	20569	0.02500	0 01567
10 beta-BHC	9.820	9.820	0.000	14218	0 02500	0.01656
11 delta-BHC	10.786	10.786	0.000	24098	0.02500	0.01596
17 Heptachlor epoxide	12.940	12.940	0.000	28458	0.02500	0.01650
18 gamma-Chlordane	13.353	13 353	0.000	32103	0.02500	0.01695
19 alpha-Chlordane	13 646	13 646	0.000	32090	0.02500	0 01642
22 4,4'-DDE	14 106	14 106	0 000	71020	0.02500	0 03438
31 Endosulfan II	15 200	15 200	0 000	58060	0.02500	0 03234
33 Endrin aldehyde	15 700	15 700	0 000	45603	0.02500	0.03232
34 Endosulfan sulfate	15.986	15.986	0.000	44554	0 02500	0.03429
37 Endrin ketone	17.433	17.433	0.000	48388	0 02500	0.03431

677 452

Data File: \\ppitpa02\chem\gc4.1\1281-G.b.D-82078.d
 Date: 27-FEB-2001 22:24
 Client ID:
 Sample Info: 2ND B,1281-G.b.,INDB.sub,2,3
 Column Phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2079.d
Report Date: 28-Feb-2001 09:08

677 453

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2079.d
Lab Smp Id: EVALB
Inj Date : 27-FEB-2001 22:47
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 28-Feb-2001 08:56 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5 226	5 233	-0.007	26134	0.01887	0 01887 (R)
22 4,4'-DDE	Compound Not Detected					
26 Endrin	14 806	14 806	0 000	40731	0.02341	0 02341
29 4,4'-DDD	Compound Not Detected					
32 4,4'-DDT	15.440	15.446	-0.006	39882	0.02429	0.02429
33 Endrin aldehyde	15.700	15.700	0.000	2032	0.00144	0 001440
37 Endrin ketone	17.433	17.433	0.000	1305	<0 0	0.0009252
\$ 38 Decachlorobiphenyl	21.140	21 146	-0.006	19255	0 01989	0 01989 (R)

QC Flag Legend

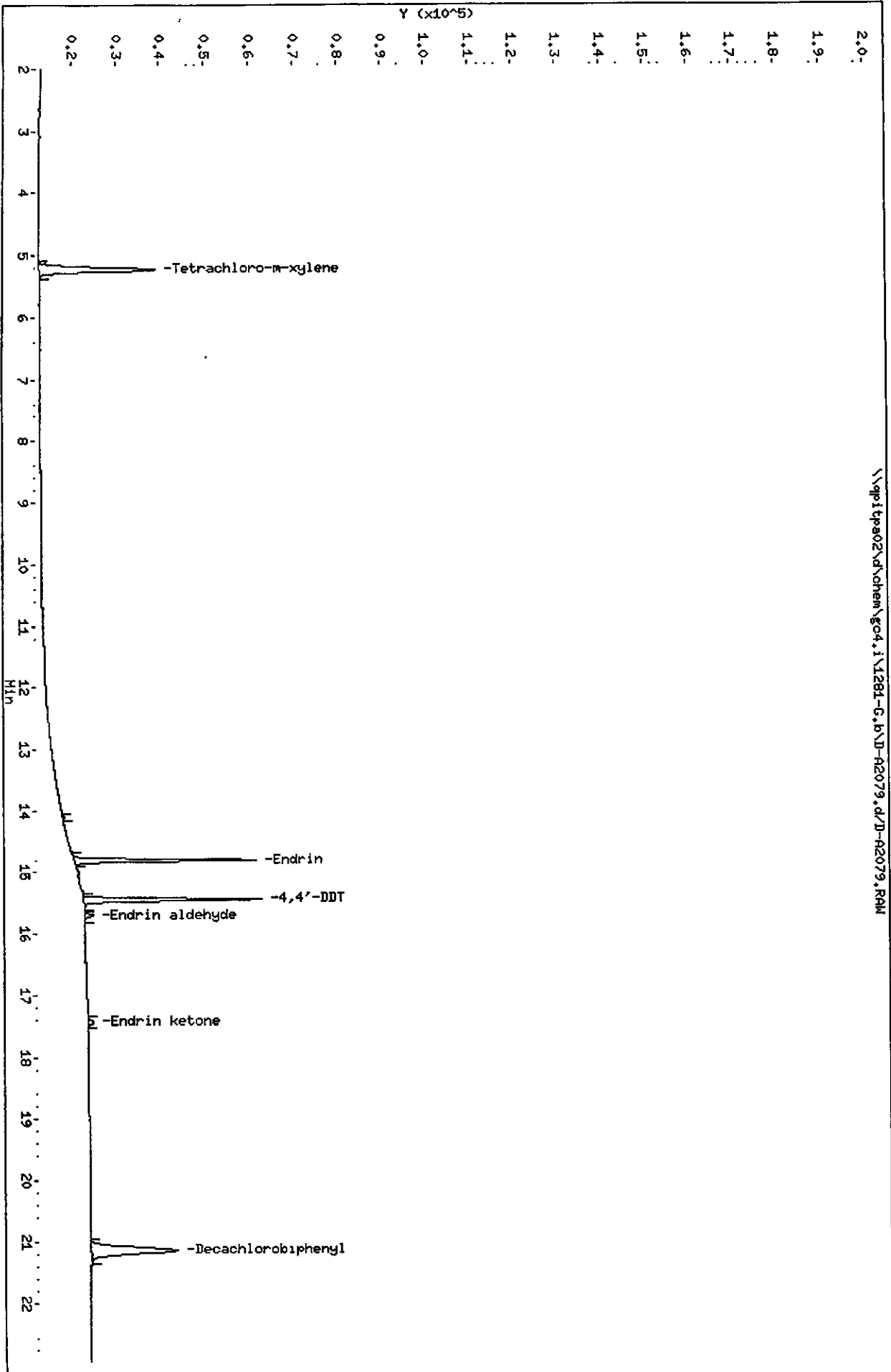
R - Spike/Surrogate failed recovery limits.

DDT=0
Endrin=7.6

677 454

Data File: \\pp1tpa02\chem\gc4.1\1281-G.b\D-A2079.d
 Date: 27-FEB-2001 22:47
 Client ID:
 Sample Info: EVALB,1281-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\1281-G.b\D-A2123.d
Report Date: 01-Mar-2001 09:30

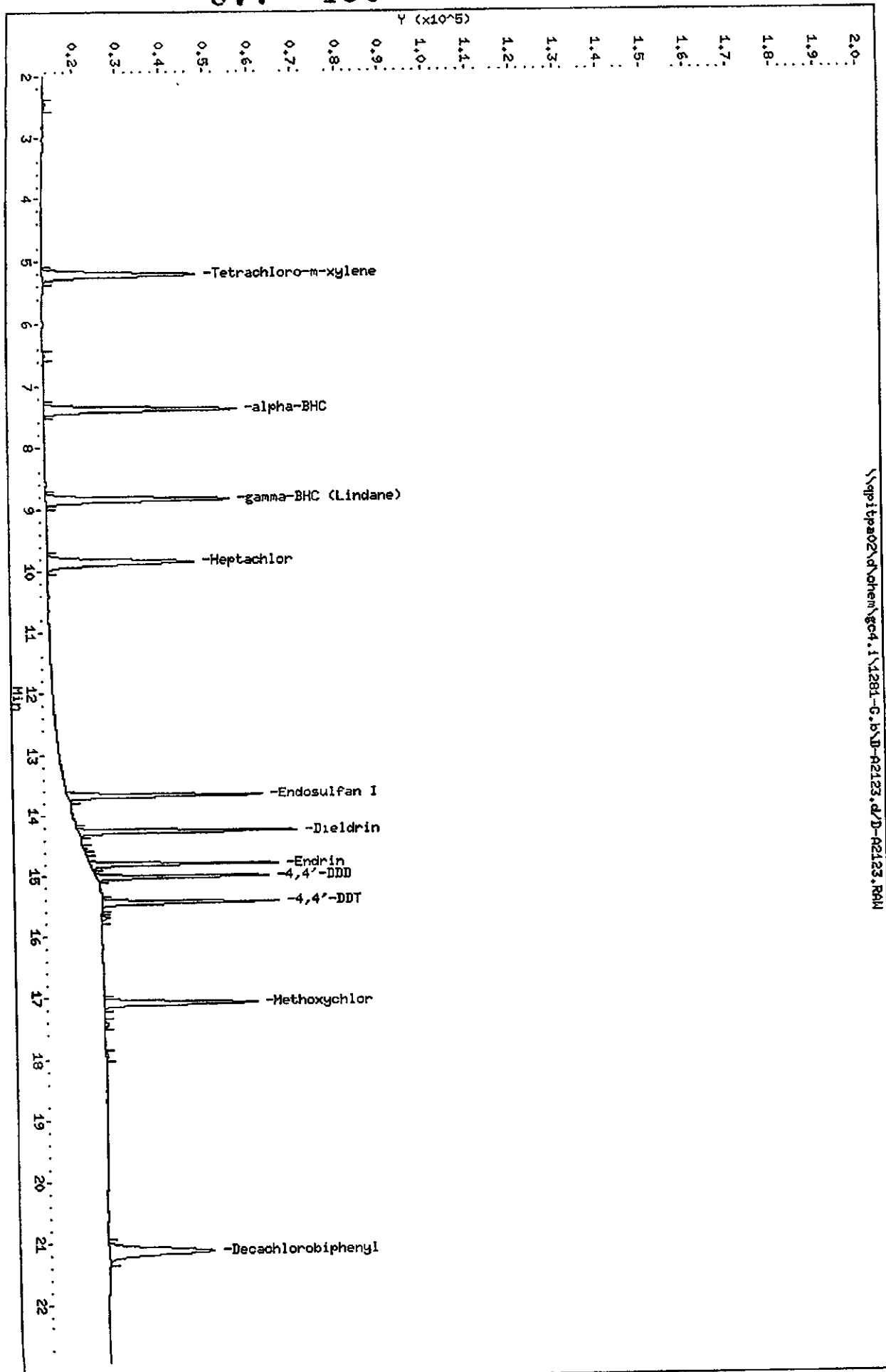
677 455

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2123.d
Lab Smp Id: MEDA
Inj Date : 28-FEB-2001 18:06
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,1281-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

AMOUNTS						
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
\$ 2 Tetrachloro-m-xylene	5.220	5.233	-0.013	34875	0.02500	0.02518
6 alpha-BHC	7.386	7.400	-0.014	43838	0.02500	0.02530
7 gamma-BHC (Lindane)	8.840	8.853	-0.013	42029	0.02500	0.02558
9 Heptachlor	9.853	9.866	-0.013	33616	0.02500	0.02466
20 Endosulfan I	13.673	13.680	-0.007	44358	0.02500	0.02483
23 Dieldrin	14.266	14.273	-0.007	50117	0.02500	0.02535
26 Endrin	14.800	14.806	-0.006	42894	0.02500	0.02465
29 4,4'-DDD	15.006	15.013	-0.007	39472	0.02500	0.02476
32 4,4'-DDT	15.440	15.446	-0.006	40308	0.02500	0.02455
35 Methoxychlor	17.093	17.100	-0.007	34764	0.05000	0.04949
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	23815	0.02500	0.02460

677 456



Data File: \\p1tpa02\chem\gc4.i\1281-G.b\D-02123.d
 Date : 28-FEB-2001 18:06
 Client ID:
 Sample Info: HEDA,1281-G.b,1INDA.sub,2,3
 Column phase: RTX-50

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

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2124.d
Report Date: 01-Mar-2001 09:30

677 457

STL-Pittsburgh

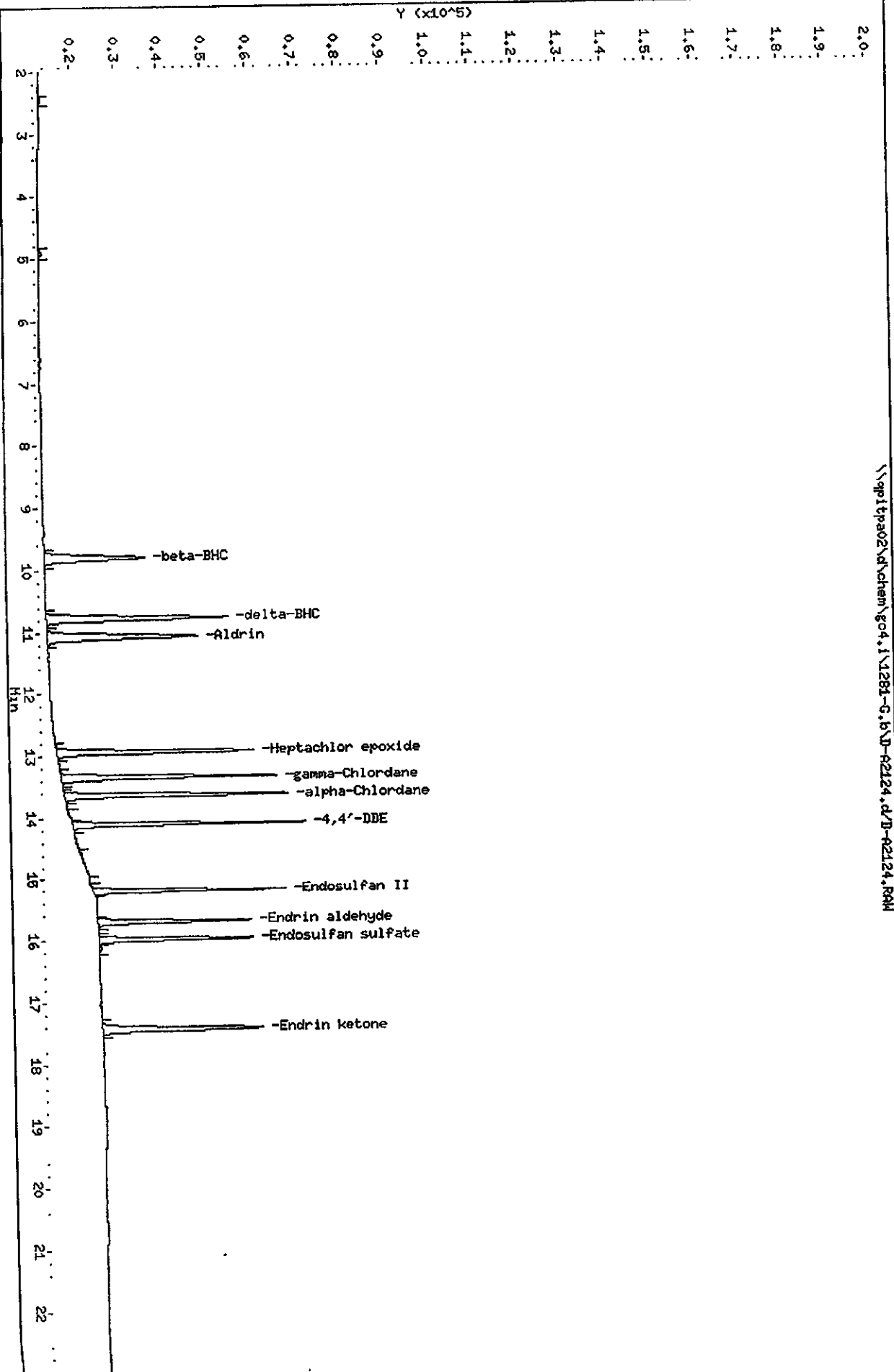
Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2124.d
Lab Smp Id: MEDB
Inj Date : 28-FEB-2001 18:33
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,1281-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	11.066	11.080	-0.014	33916	0.02500	0.02585
10 beta-BHC	9.806	9.820	-0.014	22536	0.02500	0.02625
11 delta-BHC	10.773	10.786	-0.013	40902	0.02500	0.02708
17 Heptachlor epoxide	12.933	12.940	-0.007	44619	0.02500	0.02588
18 gamma-Chlordane	13.346	13.353	-0.007	48533	0.02500	0.02562
19 alpha-Chlordane	13.640	13.646	-0.006	50393	0.02500	0.02579
22 4,4'-DDE	14.100	14.106	-0.006	52595	0.02500	0.02546
31 Endosulfan II	15.193	15.200	-0.007	43306	0.02500	0.02412
33 Endrin aldehyde	15.693	15.700	-0.007	34805	0.02500	0.02467
34 Endosulfan sulfate	15.980	15.986	-0.006	34972	0.02500	0.02691
37 Endrin ketone	17.433	17.433	0.000	36300	0.02500	0.02574

677 453

Data File: \\ppltpa02\chem\gc4.1\1281-G.b\D-02124.d
 Date: 28-FEB-2001 18:33
 Client ID:
 Sample Info: HEDB, 1281-G.b, INDB, sub, 2,3
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2125.d
Report Date: 01-Mar-2001 09:30

677 459

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2125.d
Lab Smp Id: EVALB
Inj Date : 28-FEB-2001 18:59
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.213	5.233	-0.020	27704	0.02000	0.02000 (R)
22 4,4'-DDE	14.100	14.106	-0.006	419	<0.0	0.0002028
26 Endrin	14.800	14.806	-0.006	39975	0.02297	0.02297
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.440	15.446	-0.006	40126	0.02444	0.02444
33 Endrin aldehyde	15.693	15.700	-0.007	2370	0.00168	0.001680
37 Endrin ketone	17.433	17.433	0.000	1527	0.00108	0.001083
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	18974	0.01960	0.01960 (R)

QC Flag Legend

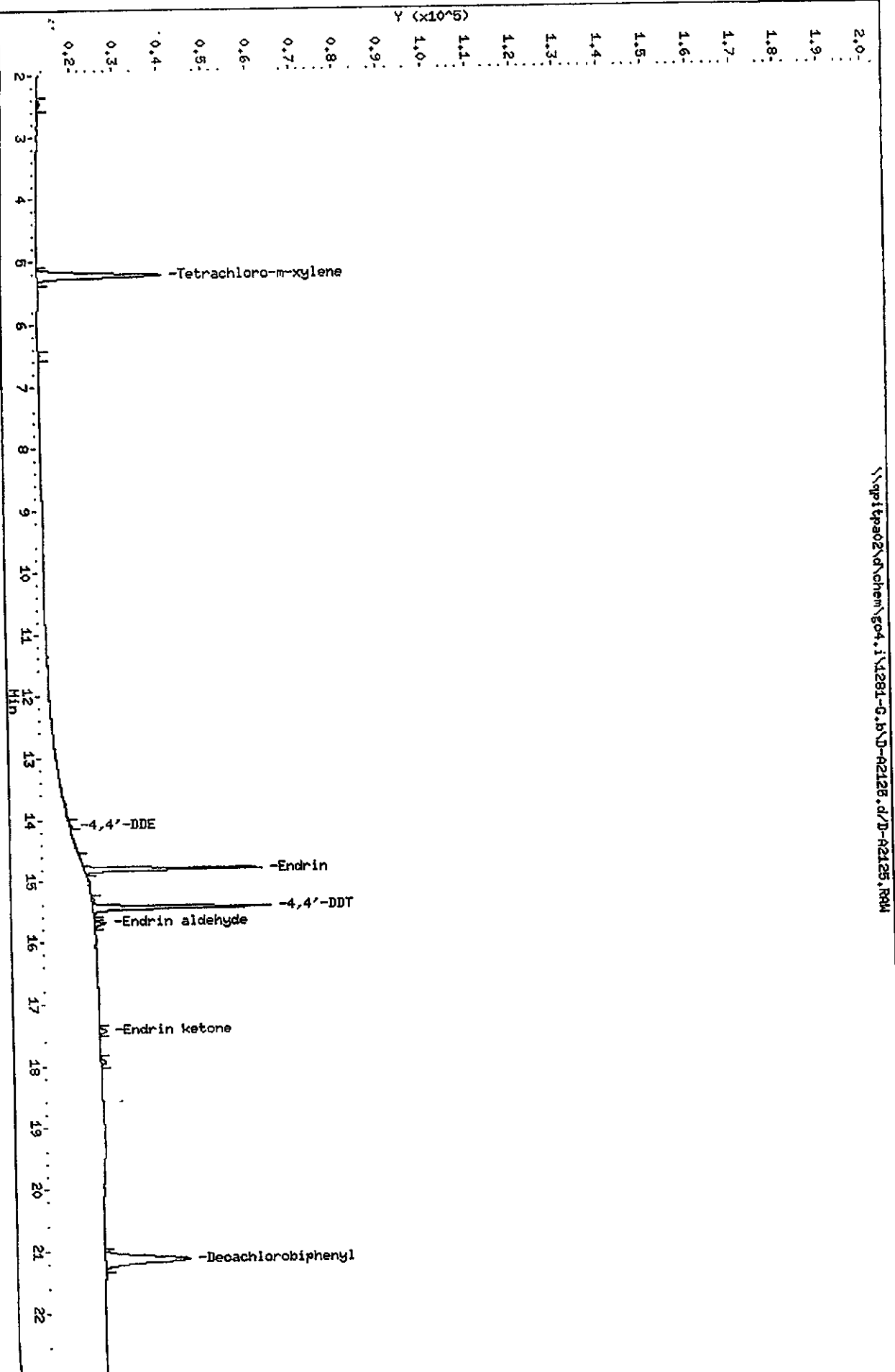
R - Spike/Surrogate failed recovery limits.

DDT=1.0
Endrin=8.9

Data File: \\vpitpa02\chem\gc04.i\1281-G.b\D-A2125.d
Date: 28-FEB-2001 18:59
Client ID:
Sample Info: EVALB,1281-G.b,EVALBR,sub,3,1
Column Phase: RTX-50

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

\\vpitpa02\chem\gc04.i\1281-G.b\D-A2125.d\D-A2125.RM



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2132.d
Report Date: 01-Mar-2001 09:31

677 461

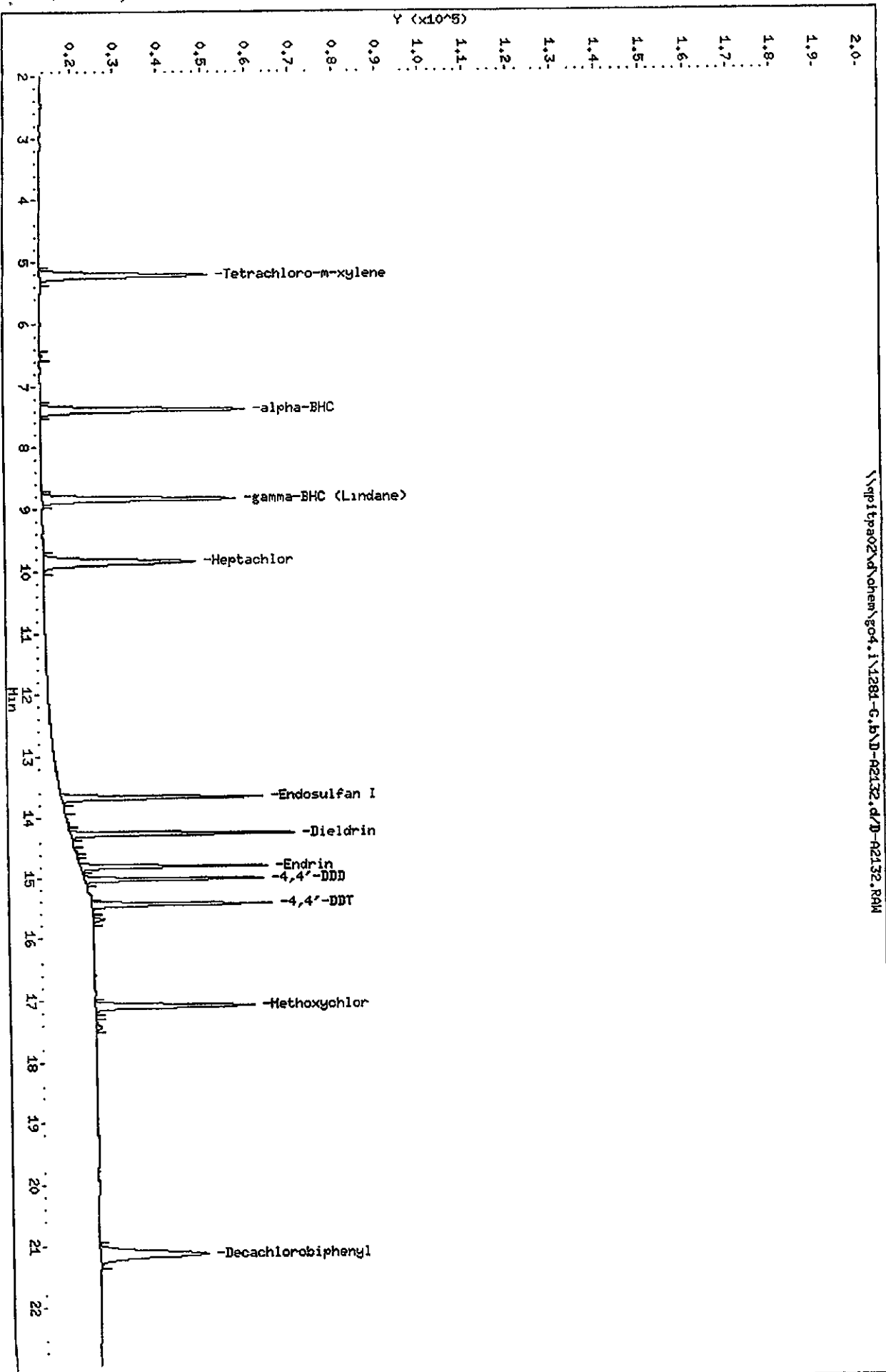
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2132.d
Lab Smp Id: MEDA
Inj Date : 28-FEB-2001 22:04
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,1281-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.213	5.233	-0.020	38077	0.02500	0.02749
6 alpha-BHC	7.386	7.400	-0.014	46660	0.02500	0.02692
7 gamma-BHC (Lindane)	8.840	8.853	-0.013	43980	0.02500	0.02676
9 Heptachlor	9.853	9.866	-0.013	34590	0.02500	0.02537
20 Endosulfan I	13.673	13.680	-0.007	45768	0.02500	0.02562
23 Dieldrin	14.266	14.273	-0.007	50992	0.02500	0.02579
26 Endrin	14.800	14.806	-0.006	42633	0.02500	0.02450
29 4,4'-DDD	15.006	15.013	-0.007	40794	0.02500	0.02559
32 4,4'-DDT	15.440	15.446	-0.006	41067	0.02500	0.02501
35 Methoxychlor	17.093	17.100	-0.007	36065	0.05000	0.05135
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	24379	0.02500	0.02518

Data File: \\ppitpa02\volchem\gc04.i\1281-G.b.D-02132.d
Date: 28-FEB-2001 22:04
Client ID:
Sample Info: HEDR, 1281-G.b., INDA, sub., 2,3
Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2133.d
 Report Date: 01-Mar-2001 09:32

STL-Pittsburgh

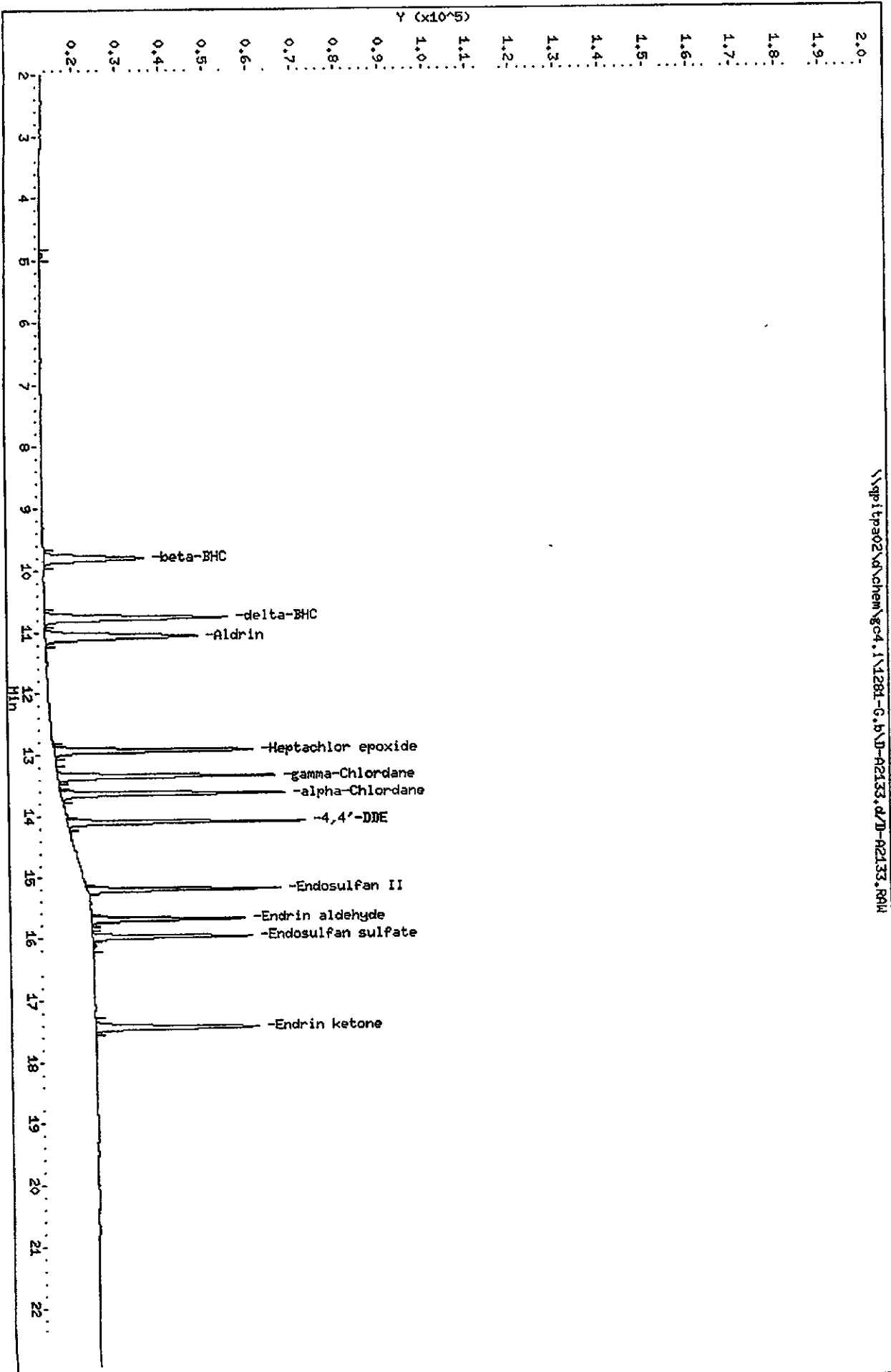
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 Lab Smp Id: MEDB
 Inj Date : 28-FEB-2001 22:30
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,1281-G.b,,INDB.sub,,2,3
 Misc Info : 190-100-14
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
13 Aldrin	11.066	11.080	-0.014	34284	0.02500	0.02613
10 beta-BHC	9.800	9.820	-0.020	22687	0.02500	0.02642
11 delta-BHC	10.766	10.786	-0.020	41309	0.02500	0.02735
17 Heptachlor epoxide	12.933	12.940	-0.007	45111	0.02500	0.02616
18 gamma-Chlordane	13.346	13.353	-0.007	49227	0.02500	0.02598
19 alpha-Chlordane	13.640	13.646	-0.006	50826	0.02500	0.02601
22 4,4'-DDE	14.100	14.106	-0.006	54092	0.02500	0.02619
31 Endosulfan II	15.193	15.200	-0.007	43857	0.02500	0.02443
33 Endrin aldehyde	15.693	15.700	-0.007	34880	0.02500	0.02472
34 Endosulfan sulfate	15.980	15.986	-0.006	36368	0.02500	0.02799
37 Endrin ketone	17.426	17.433	-0.007	37013	0.02500	0.02624

677 464

Data File: \\pp1tpa02\chem\gc4,1\1281-G.b\1D-A2133.d
 Date: 28-FEB-2001 22:30
 Client ID:
 Sample Info: HEDB, 1281-G.b, 1NDB, sub, 2,3
 Column phase: RTX-60

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



Report Date : 28-Feb-2001 09:37

60
589046
RT-1701

677 465

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Quant Method : ESTD Target Version : 4.04
Last Update : 28-Feb-2001 09:28 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
5 2 Tetrachloro-m-xylene	5.473	5.423-5.523	9.91e+005
6 alpha-BHC	8.233	8.183-8.283	1.23e+006
7 gamma-BHC (Lindane)	9.607	9.557-9.657	1.14e+006
8 Chlordane	9.827	9.777-9.877	3.31e+004
	10.413	10.363-10.463	4.88e+004
	13.880	13.830-13.930	1.64e+005
	14.000	13.950-14.050	1.68e+005
9 Heptachlor	10.413	10.363-10.463	1.19e+006
10 beta-BHC	12.260	12.210-12.310	7.67e+005
11 delta-BHC	12.833	12.783-12.883	1.51e+006
13 Aldrin	11.353	11.303-11.403	1.13e+006
17 Heptachlor epoxide	13.240	13.190-13.290	1.50e+006
18 gamma-Chlordane	13.880	13.830-13.930	1.62e+006
19 alpha-Chlordane	13.987	13.937-14.037	1.62e+006
20 Endosulfan I	13.787	13.737-13.837	1.49e+006
22 4,4'-DDE	14.127	14.077-14.177	1.58e+006
23 Dieldrin	14.387	14.337-14.437	1.61e+006
26 Endrin	14.713	14.663-14.763	1.35e+006
29 4,4'-DDD	15.287	15.237-15.337	1.21e+006
30 Toxaphene	15.400	15.350-15.450	2.28e+004
	15.507	15.457-15.557	1.97e+004
	15.840	15.790-15.890	1.93e+004
	16.660	16.610-16.710	2.29e+004
31 Endosulfan II	15.413	15.363-15.463	1.42e+006

677 466

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589046

Report Date : 28-Feb-2001 09:37

K_T-1701

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m

Compound	RT	RT Window	RF
32 4,4'-DDT	15.547	15.497-15.597	1.26e+006
33 Endrin aldehyde	16.113	16.063-16.163	7.72e+005
34 Endosulfan sulfate	16.720	16.670-16.770	8.82e+005
35 Methoxychlor	16.593	16.543-16.643	6.52e+005
37 Endrin ketone	17.607	17.557-17.657	1.14e+006
\$ 38 Decachlorobiphenyl	20.047	19.997-20.097	9.34e+005

Report Date : 28-Feb-2001 09:38

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JB901B
RTX-1701

677 467

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2001 16:38
End Cal Date : 27-FEB-2001 21:28
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Cal Date : 28-Feb-2001 09:28 matkol
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2072.d
Level 2: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2073.d
Level 3: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2074.d
Level 4: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2075.d
Level 5: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2076.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRP	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 alpha-BHC	867800	1029700	1197480	1422060	1652340	1233876	25.227<-
7 gamma-BHC (Lindane)	853600	989600	1119280	1290900	1461210	1142918	21.025<-
8 Chlordane(1)	+++++	+++++	33136	+++++	+++++	33136	0.000
(2)	+++++	+++++	48792	+++++	+++++	48792	0.000
(3)	+++++	+++++	164376	+++++	+++++	164376	0.000
(4)	+++++	+++++	168336	+++++	+++++	168336	0.000
9 Heptachlor	1065600	1139600	1155960	1238800	1352170	1190426	9.188
10 beta-BHC	690400	775900	780600	806620	783060	767316	5.813
11 delta-BHC	1121600	1346700	1557760	1753520	1789400	1513796	18.599
13 Aldrin	953000	1052500	1134400	1253600	1273600	1133420	11.935
17 Heptachlor epoxide	1320400	1462600	1523360	1607600	1580850	1498962	7.629
18 gamma-Chlordane	1461200	1601800	1656800	1726080	1636670	1616510	6.059
19 alpha-Chlordane	1483200	1622200	1674400	1730980	1577800	1617716	5.844
20 Endosulfan I	1358400	1451500	1470320	1555100	1631640	1493392	6.977
22 4,4'-DDE	1434800	1574600	1619760	1727700	1562580	1583888	6.677
23 Dieldrin	1398400	1512200	1586680	1711960	1838130	1609474	10.641
26 Endrin	1183400	1305800	1320120	1442840	1516950	1353822	9.561
29 4,4'-DDD	1086400	1186000	1188560	1250080	1340230	1210254	7.716
30 Toxaphene(1)	+++++	+++++	22764	+++++	+++++	22764	0.000
(2)	+++++	+++++	19656	+++++	+++++	19656	0.000
(3)	+++++	+++++	19348	+++++	+++++	19348	0.000
(4)	+++++	+++++	22910	+++++	+++++	22910	0.000
31 Endosulfan II	1314600	1439000	1373480	1494800	1469240	1418224	5.186
32 4,4'-DDT	1148800	1214000	1232600	1301060	1384990	1256290	7.172
33 Endrin aldehyde	716400	783100	783960	795540	778660	771532	4.076
34 Endosulfan sulfate	775000	867500	886280	941040	941190	882202	7.743

677 468

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ATx-1701

Report Date : 28-Feb-2001 09:38

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 27-FEB-2001 16:38
 End Cal Date : 27-FEB-2001 21:28
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\gpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Cal Date : 28-Feb-2001 09:28 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	642300	664250	645840	646170	659895	651691	1.492
37 Endrin ketone	1050200	1143900	1151840	1179520	1160080	1137108	4.428
\$ 2 Tetrachloro-m-xylene	920600	1068300	900200	994540	1071130	990954	8.075
\$ 38 Decachlorobiphenyl	948400	974700	913360	915460	919780	934340	2.849

AVE=8.81

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

677 469

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): 02/27/01 02/27/01
 EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 02/27/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 1612

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.71	14.66	14.76	0.02391	0.02500	-4.4
4,4'-DDT	15.55	15.50	15.60	0.02431	0.02500	-2.8

4,4'-DDT % breakdown (1): ~~3.20~~ 3.1 Endrin % breakdown (1): ~~6.01~~
 Combined % breakdown (1): ~~9.21~~ 7.3 4.2

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3/1/01

677 470

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): 02/27/01 02/27/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 02/27/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 2247

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.71	14.66	14.76	0.02296	0.02500	-8.2
4,4'-DDT	15.55	15.50	15.60	0.02405	0.02500	-3.8

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

Endrin % breakdown (1): ~~9.28~~Combined % breakdown (1): ~~9.28~~ 6.5

6.5

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31/01

677 471

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589018
127x-1701Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2123.d
Report Date: 01-Mar-2001 08:46

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 18:06
 Lab File ID: D-B2123.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m

COMPOUND	RRF	RFO	MIN	MAX
2 Tetrachloro-m-xylene	990954	968240	0.000	-2.3
6 alpha-BHC	1233876	1207200	0.010	-2.2
7 gamma-BHC (Lindane)	1142918	1129960	0.010	-1.1
9 Heptachlor	1190426	1166760	0.010	-2.0
20 Endosulfan I	1493392	1497680	0.010	0.3
23 Dieldrin	1609474	1605240	0.010	-0.3
26 Endrin	1353822	1326400	0.010	-2.0
29 4,4'-DDD	1210254	1219000	0.010	0.7
32 4,4'-DDT	1256290	1251680	0.010	-0.4
35 Methoxychlor	651691	639080	0.010	-1.9
38 Decachlorobiphenyl	934340	917840	0.010	-1.8

677 472

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2124.d
 Report Date: 01-Mar-2001 08:46

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STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 18:33
 Lab File ID: D-B2124.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
13 Aldrin	1133420	1174640	0.010	3.6 15.0
10 beta-BHC	767316	803840	0.010	4.8 15.0
11 delta-BHC	1513796	1625160	0.010	7.4 15.0
17 Heptachlor epoxide	1498962	1558560	0.010	4.0 15.0
18 gamma-Chlordane	1616510	1683080	0.010	4.1 15.0
19 alpha-Chlordane	1617716	1686560	0.010	4.3 15.0
22 4,4'-DDE	1583888	1658120	0.010	4.7 15.0
31 Endosulfan II	1418224	1400680	0.010	-1.2 15.0
33 Endrin aldehyde	771532	786120	0.010	1.9 15.0
34 Endosulfan sulfate	882202	964840	0.010	9.4 15.0
37 Endrin ketone	1137108	1179480	0.010	3.7 15.0

677 473

7L

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2132.d
 Report Date: 01-Mar-2001 08:54

J89046

RT-1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 22:04
 Lab File ID: D-B2132.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m

COMPOUND	RRF	RF0	MIN	RRF	%D	MAX
2 Tetrachloro-m-xylene	990954	1074120	0.000	8.4	15.0	
6 alpha-BHC	1233876	1278440	0.010	3.6	15.0	
7 gamma-BHC (Lindane)	1142918	1182280	0.010	3.4	15.0	
9 Heptachlor	1190426	1200640	0.010	0.9	15.0	
20 Endosulfan I	1493392	1497600	0.010	0.3	15.0	
23 Dieldrin	1609474	1648760	0.010	2.4	15.0	
26 Endrin	1353822	1323120	0.010	-2.3	15.0	
29 4,4'-DDD	1210254	1259680	0.010	4.1	15.0	
32 4,4'-DDT	1256290	1302640	0.010	3.7	15.0	
35 Methoxychlor	651691	661280	0.010	1.5	15.0	
38 Decachlorobiphenyl	934340	939120	0.010	0.5	15.0	

677 474

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2133.d
 Report Date: 01-Mar-2001 08:55

76
 JBW/B
 RFX-1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 28-FEB-2001 22:30
 Lab File ID: D-B2133.d Init. Cal. Date(s): 27-FEB-2001 27-FEB-2001
 Analysis Type: Init. Cal. Times: 16:38 21:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m

COMPOUND	RRF	RF0	MIN	MAX
-----	-----	-----	-----	-----
13 Aldrin	1133420	1173560	0.010	3.5
10 beta-BHC	767316	796160	0.010	3.8
11 delta-BHC	1513796	1615800	0.010	6.7
17 Heptachlor epoxide	1498962	1547120	0.010	3.2
18 gamma-Chlordane	1616510	1684920	0.010	4.2
19 alpha-Chlordane	1617716	1702320	0.010	5.2
22 4,4'-DDE	1583888	1667120	0.010	5.3
31 Endosulfan II	1418224	1391840	0.010	-1.9
33 Endrin aldehyde	771532	776040	0.010	0.6
34 Endosulfan sulfate	882202	999080	0.010	13.2
37 Endrin ketone	1137108	1185720	0.010	4.3

8D
PESTICIDE ANALYTICAL SEQUENCE

677 475

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/27/01 02/27/01

Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 5.47			DCB: 20.05		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	EVALB	02/27/01	1612	5.48	20.05
02	MEDTOX	02/27/01	1638	5.48	20.05
03	MEDCHLOR	02/27/01	1704	5.47	20.05
04	LOWA	02/27/01	1731	5.48	20.05
05	MLOWA	02/27/01	1757	5.46	20.05
06	MEDA	02/27/01	1824	5.47	20.05
07	MHIGHA	02/27/01	1850	5.47	20.05
08	HIGHA	02/27/01	1917	5.46	20.05
09	LOWB	02/27/01	1943		
10	MLOWB	02/27/01	2009		
11	MEDB	02/27/01	2036		
12	MHIGHB	02/27/01	2102		
13	HIGHB	02/27/01	2128		
14	2ND A	02/27/01	2155	5.47	20.05
15	2ND B	02/27/01	2221		
16	EVALB	02/27/01	2247	5.47	20.05
17	MEDA	02/28/01	1806	5.46	20.04
18	MEDB	02/28/01	1833		
19	EVALB	02/28/01	1859	5.46	20.04
20	DF/24-B/1053 DWJUM1AD	02/28/01	1925	5.46	20.04
21	DF/24-A/1053 DWJJ31AP	02/28/01	1952	5.47	20.04
22	DF/24-A/1053 DWJKC1AP	02/28/01	2018	5.47	20.04
23	PBLK7555 DWMV51AA	02/28/01	2045	5.45	20.03
24	LCS7555 DWMV51AC	02/28/01	2111	5.45	20.03
25	LCD7555 DWMV51AD	02/28/01	2137	5.46	20.04
26	MEDA	02/28/01	2204	5.46	20.03
27	MEDB	02/28/01	2230		
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.

677 476

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2064.d
 Report Date: 28-Feb-2001 09:48

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2064.d
 Lab Smp Id: EVALB
 Inj Date : 27-FEB-2001 16:12
 Operator : 010139 Inst ID: gc4.i
 Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-102-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.480	5.473	0.007	18002	0.01817	0.01817 (R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.713	14.713	0.000	32366	0.02391	0.02391
29 4,4'-DDD	15.293	15.286	0.007	969	<0.0	0.0008006
32 4,4'-DDT	15.546	15.546	0.000	30537	0.02431	0.02431
33 Endrin aldehyde	16.113	16.113	0.000	613	<0.0	0.0007945
37 Endrin ketone	17.606	17.606	0.000	805	<0.0	0.0007079
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	18296	0.01958	0.01958 (R)

QC Flag Legend

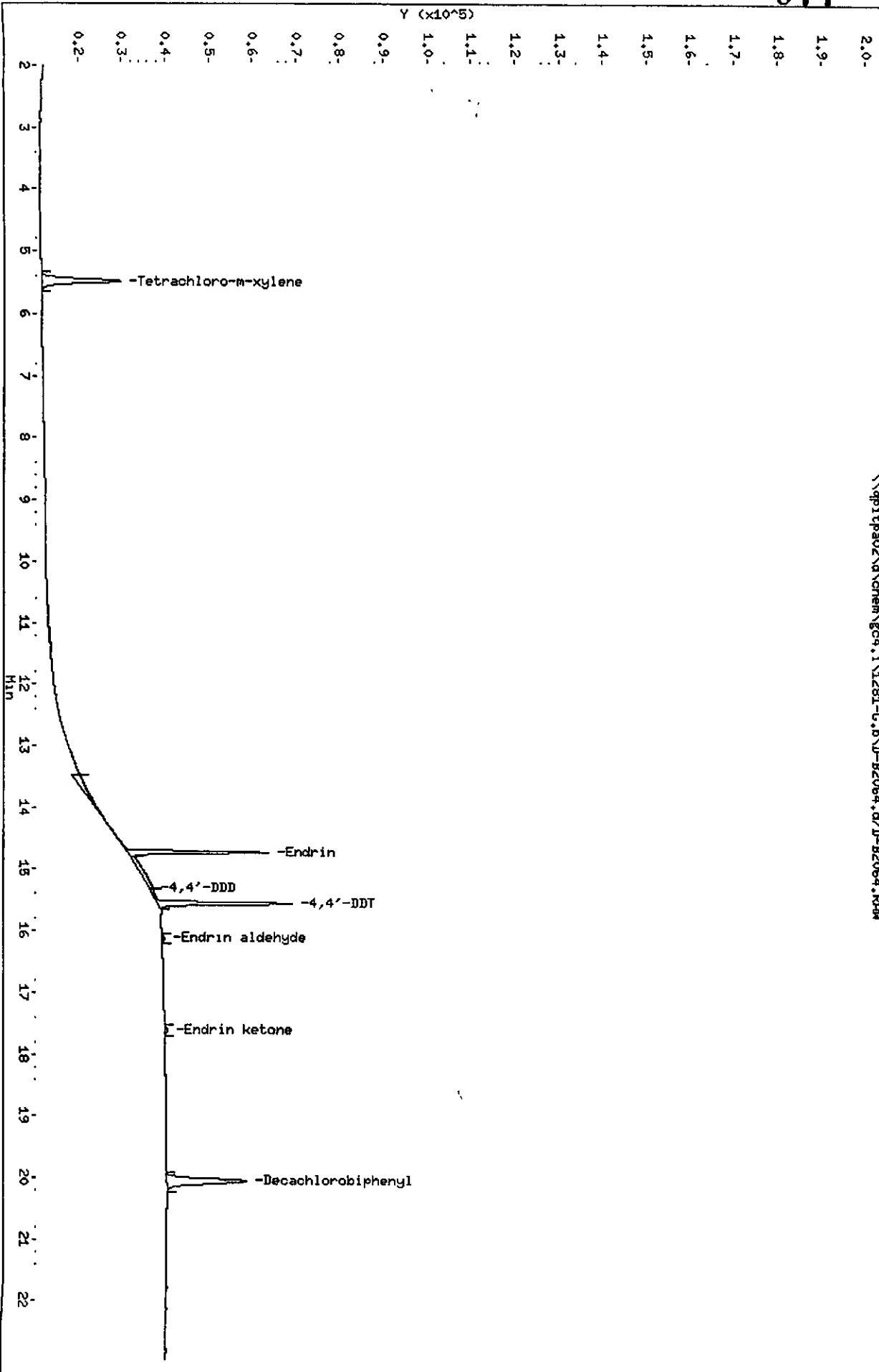
R - Spike/Surrogate failed recovery limits.

DDT = 3.1
 Endrin = 4.2

Data File: \\qpltpa02\chem\gc4,1\1281-G,b\D-B2064.d
 Date: 27-FEB-2001 16:12
 Client ID:
 Sample Info: EVALB,1281-G,b,EVALBR,sub,3,1
 Column phase: RTX-1701

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

\\qpltpa02\chem\gc4,1\1281-G,b\D-B2064.d/D-B2064.PRM



677 478

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2065.d
 Report Date: 28-Feb-2001 09:48

STL-Pittsburgh

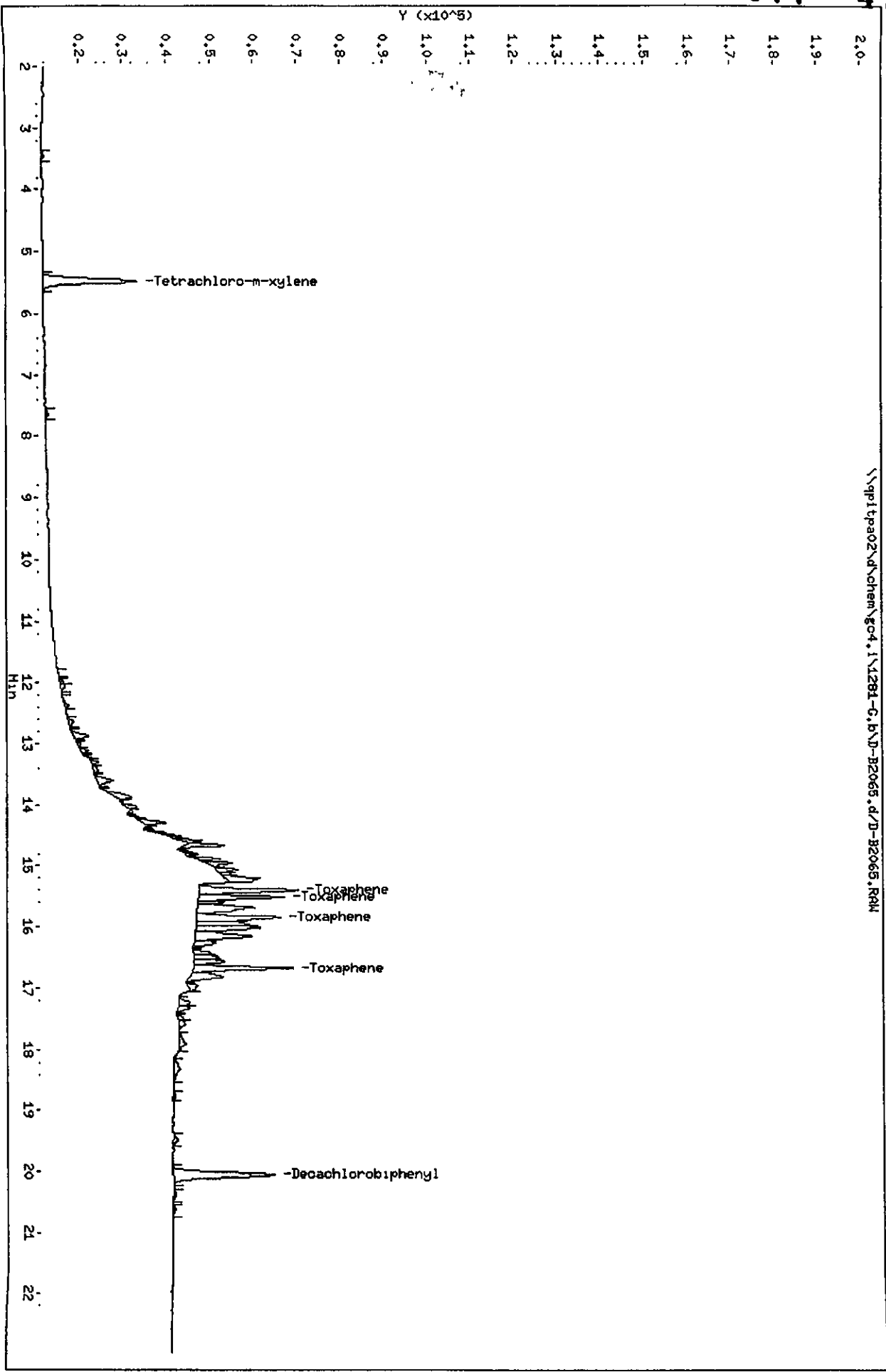
Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2065.d
 Lab Smp Id: MEDTOX
 Inj Date : 27-FEB-2001 16:38
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDTOX,1281-G.b,,1-TOX.sub,,1,3
 Misc Info : 190-98-12
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 16:38 Cal File: D-B2065.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
30 Toxaphene	15.400	15.400	0 000	22764	1 00000	1.000
\$ 2 Tetrachloro-m-xylene	5.480	5 473	0 007	21632	0.02500	0.02500
\$ 38 Decachlorobiphenyl	20.046	20 046	0.000	23182	0 02500	0.02500

Data File: \\p1tpa02\chem\gc4.1\1281-G,b\D-B2065.d
 Date: 27-FEB-2001 16:38
 Client ID:
 Sample Info: MEDTOX,1281-G,b,1-TOX,sub,1,3
 Column phase: RTX-1701

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

\\p1tpa02\chem\gc4.1\1281-G,b\D-B2065.d\D-B2065.RAW



677 480

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2066.d
 Report Date: 28-Feb-2001 09:49

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2066.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 27-FEB-2001 17:04
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDCHLOR,1281-G.b,,2-CHLO.sub,,1,3
 Misc Info : 190-102-9
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2-CHLO.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
8 Chlordane	9.826	9.826	0.000	8284	0.25000	0.2500
\$ 2 Tetrachloro-m-xylene	5.473	5.473	0.000	22505	0.02500	0.02500
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	22834	0.02500	0.02500

Data File: \\ppitpa02\chem\gc4.1\1281-G.b\D-B2066.d
Date: 27-FEB-2001 17:04

Client ID:

Sample Info: MEDCHLOR,1281-G.b,,2-CHLO,sub,,1,3

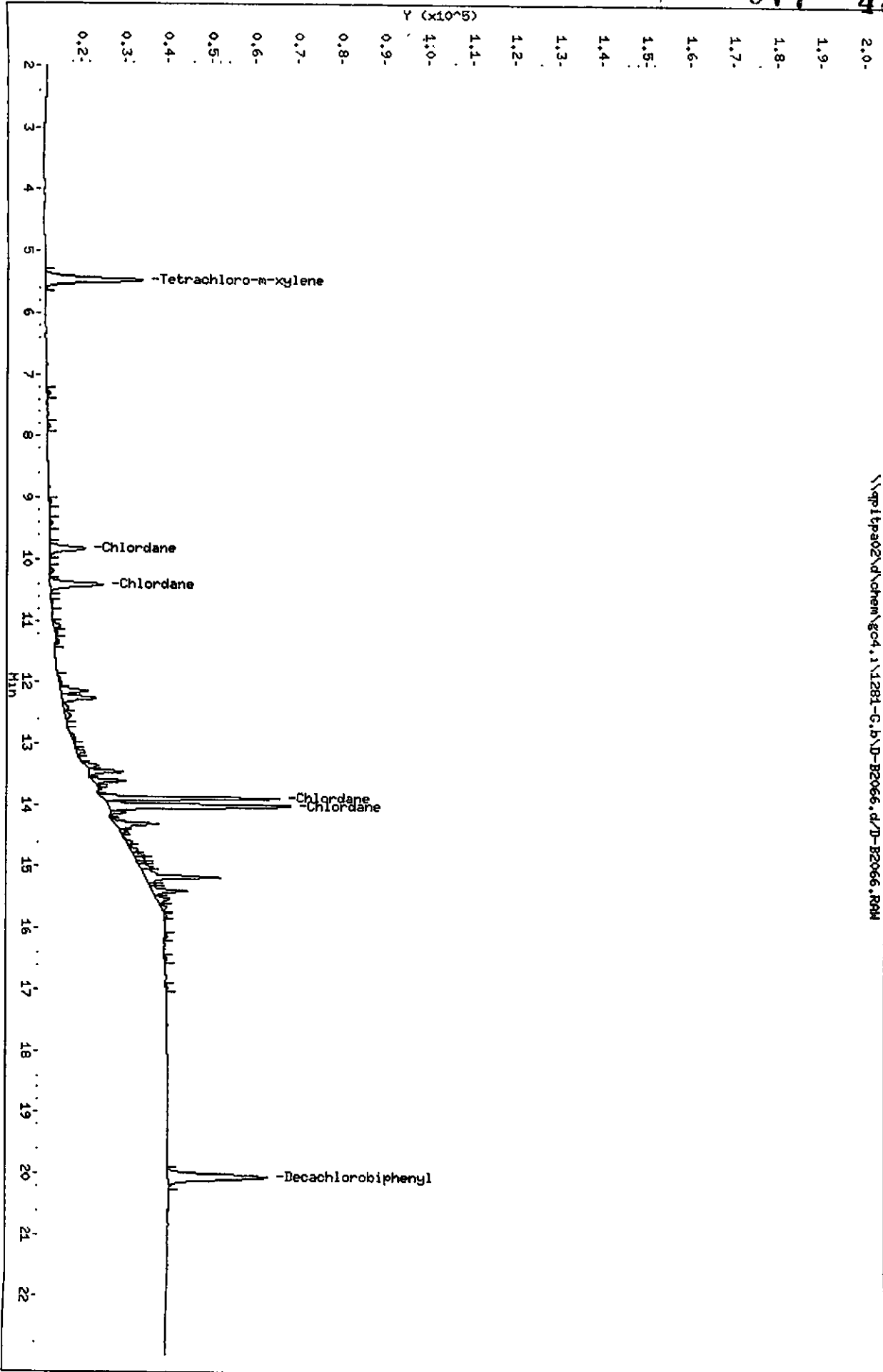
Column phase: RTX-1701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

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 Report Date: 28-Feb-2001 09:49

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2067.d
 Lab Smp Id: LOWA
 Inj Date : 27-FEB-2001 17:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWA,1281-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-100-6
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.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	5.480	5.473	0.007	4603	0.00500	0.005056
6 alpha-BHC	8.233	8.233	0.000	4339	0.00500	0.004202
7 gamma-BHC (Lindane)	9.613	9.606	0.007	4268	0.00500	0.004327
9 Heptachlor	10.413	10.413	0.000	5328	0.00500	0.004797
20 Endosulfan I	13.786	13.786	0.000	6792	0.00500	0.004802
23 Dieldrin	14.386	14.386	0.000	6992	0.00500	0.004685
26 Endrin	14.713	14.713	0.000	5917	0.00500	0.004727
29 4,4'-DDD	15.286	15.286	0.000	5432	0.00500	0.004775
32 4,4'-DDT	15.546	15.546	0.000	5744	0.00500	0.004824
35 Methoxychlor	16.593	16.593	0.000	6423	0.01000	0.009972
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	4742	0.00500	0.005094

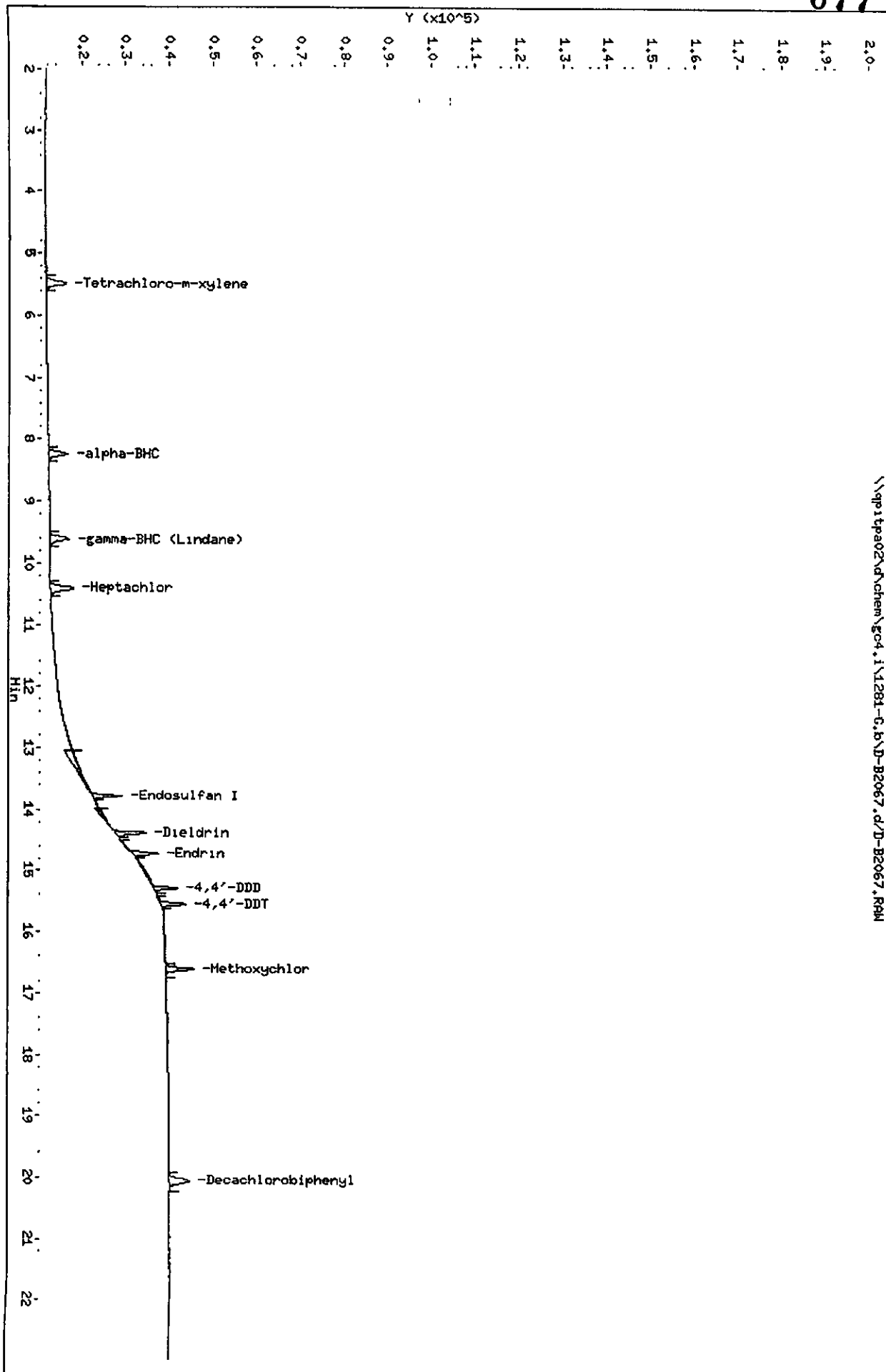
677

483

Data File: \\qpltpa02\chem\gc4.1\1281-G.b\B-2067.d
Date: 27-FEB-2001 17:31
Client ID:
Sample Info: L040,1281-G.b,,3-INDA,sub,,1,1
Column Phase: RTX-1701

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

\\qpltpa02\chem\gc4.1\1281-G.b\B-2067.d\B-2067.RAW



677 484

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2068.d
 Report Date: 28-Feb-2001 09:49

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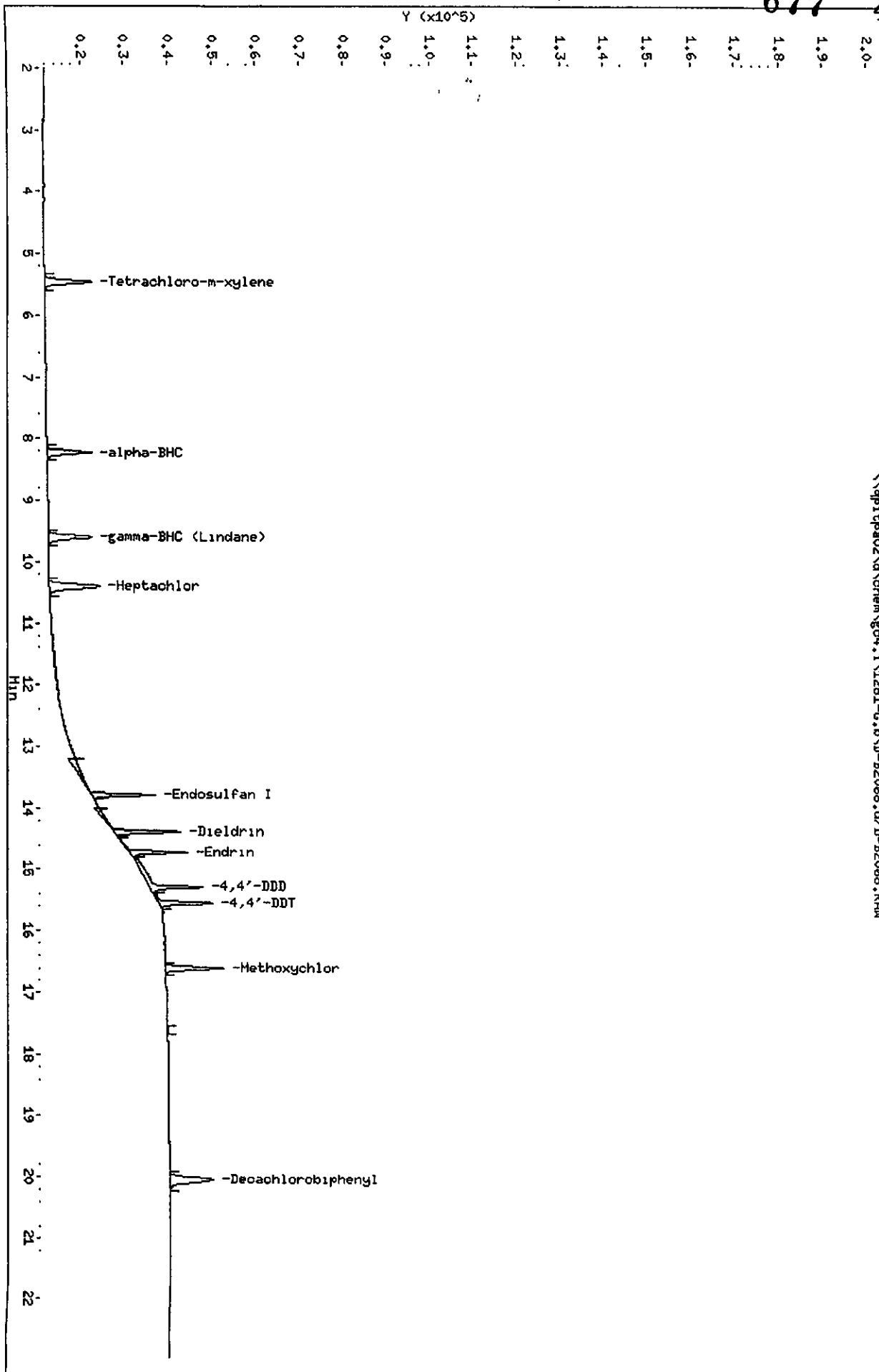
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 Lab Smp Id: MLOWA
 Inj Date : 27-FEB-2001 17:57
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MLOWA,1281-G.b,,3-INDA.sub,,1,2
 Misc Info : 190-100-7
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.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	5.460	5.473	-0.013	10683	0.01000	0.01109
6 alpha-BHC	8.226	8.233	-0.007	10297	0.01000	0.00981
7 gamma-BHC (Lindane)	9.600	9.606	-0.006	9896	0.01000	0.01002
9 Heptachlor	10.406	10.413	-0.007	11396	0.01000	0.01017
20 Endosulfan I	13.780	13.786	-0.006	14515	0.01000	0.01017
23 Dieldrin	14.380	14.386	-0.006	15122	0.01000	0.01009
26 Endrin	14.713	14.713	0.000	13058	0.01000	0.01028
29 4,4'-DDD	15.286	15.286	0.000	11860	0.01000	0.01028
32 4,4'-DDT	15.546	15.546	0.000	12140	0.01000	0.01013
35 Methoxychlor	16.593	16.593	0.000	13285	0.02000	0.02041
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	9747	0.01000	0.01031

Data File: \\qpitpa02\chem\gc04.1\1281-G.b\B-B2068.d
Date: 27-FEB-2001 17:57
Client ID:
Sample Info: HLOH4,1281-G.b,3-INDA,sub,1,2
Column phase: RTX-1701

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

\\qpitpa02\chem\gc04.1\1281-G.b\B-B2068.d\B-B2068.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2069.d
 Report Date: 28-Feb-2001 09:49

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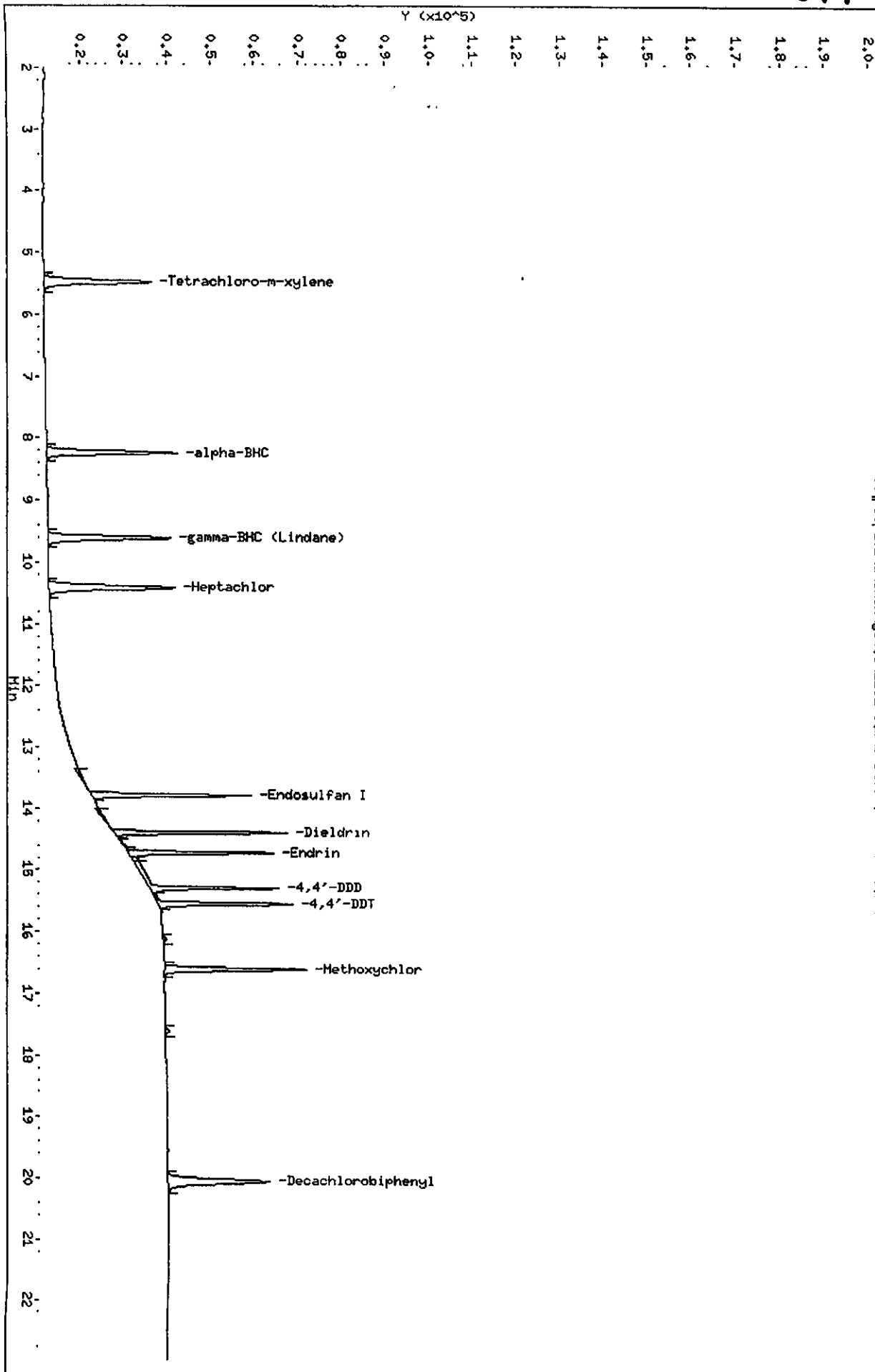
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 Lab Smp Id: MEDA
 Inj Date : 27-FEB-2001 18:24
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDA,1281-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 18:24 Cal File: D-B2069.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
\$ 2 Tetrachloro-m-xylene	5.473	5.473	0.000	24730	0.02500	0.02500
6 alpha-BHC	8.233	8.233	0.000	29937	0.02500	0.02500
7 gamma-BHC (Lindane)	9.606	9.606	0.000	27982	0.02500	0.02500
9 Heptachlor	10.413	10.413	0.000	28899	0.02500	0.02500
20 Endosulfan I	13.786	13.786	0.000	36758	0.02500	0.02500
23 Dieldrin	14.386	14.386	0.000	39667	0.02500	0.02500
26 Endrin	14.713	14.713	0.000	33003	0.02500	0.02500
29 4,4'-DDD	15.286	15.286	0.000	29714	0.02500	0.02500
32 4,4'-DDT	15.546	15.546	0.000	30815	0.02500	0.02500
35 Methoxychlor	16.593	16.593	0.000	32292	0.05000	0.05000
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	23132	0.02500	0.02500

Data file: \\p1tpa02\chem\gc4.1\1281-G,b\D-B2069.d
Date: 27-FEB-2001 18:24
Client ID:
Sample Info: HEDA,1281-G,b,3-INDA,sub,1,3
Column phase: RTX-1701

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

\\p1tpa02\chem\gc4.1\1281-G,b\D-B2069.d\D-B2069.RAW



677 488

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2070.d
 Report Date: 28-Feb-2001 09:49

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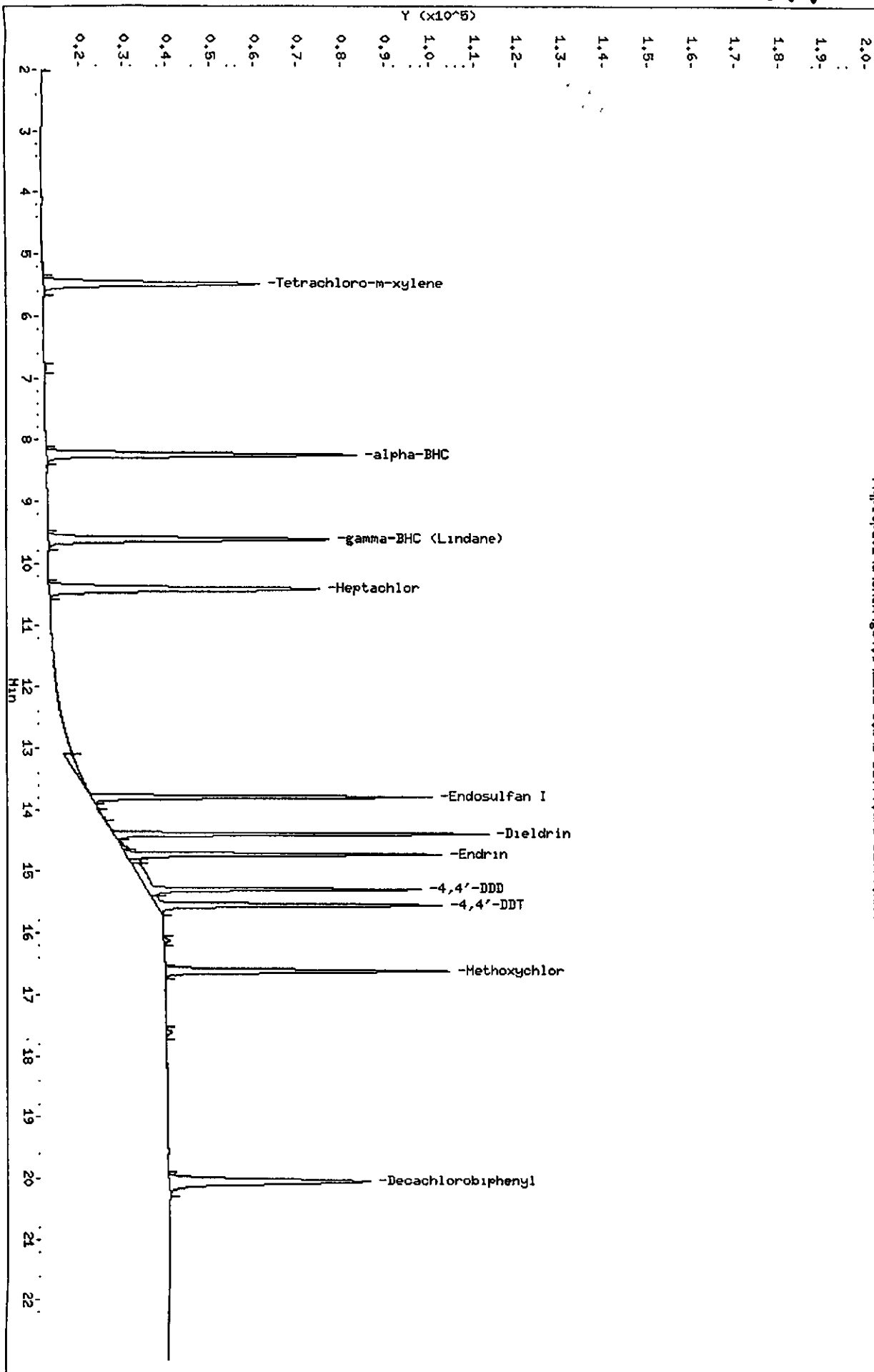
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 Lab Smp Id: MHIGHA
 Inj Date : 27-FEB-2001 18:50
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHA,1281-G.b,,3-INDA.sub,,1,4
 Misc Info : 190-100-9
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.473	5.473	0.000	49727	0.05000	0.05122
6 alpha-BHC	8.233	8.233	0.000	71103	0.05000	0.06296
7 gamma-BHC (Lindane)	9.606	9.606	0.000	64545	0.05000	0.06070
9 Heptachlor	10.413	10.413	0.000	61940	0.05000	0.05386
20 Endosulfan I	13.786	13.786	0.000	77755	0.05000	0.05330
23 Dieldrin	14.386	14.386	0.000	85598	0.05000	0.05514
26 Endrin	14.713	14.713	0.000	72142	0.05000	0.05494
29 4,4'-DDD	15.286	15.286	0.000	62504	0.05000	0.05307
32 4,4'-DDT	15.546	15.546	0.000	65053	0.05000	0.05314
35 Methoxychlor	16.593	16.593	0.000	64617	0.10000	0.09946
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	45773	0.05000	0.04880

Data File: \\p1tpa02\chem\gc4.i\1281-G,b\B-B2070.d
Date : 27-FEB-2004 18:50
Client ID:
Sample Info: NHICH6,1281-G,b,,3-INDA,sub,,1,4
Column Phase: RTX-1701

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

\\p1tpa02\chem\gc4.i\1281-G,b\B-B2070.d\B-B2070.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2071.d
 Report Date: 28-Feb-2001 09:49

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2071.d
 Lab Smp Id: HIGHA
 Inj Date : 27-FEB-2001 19:17
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHA,1281-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-100-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.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

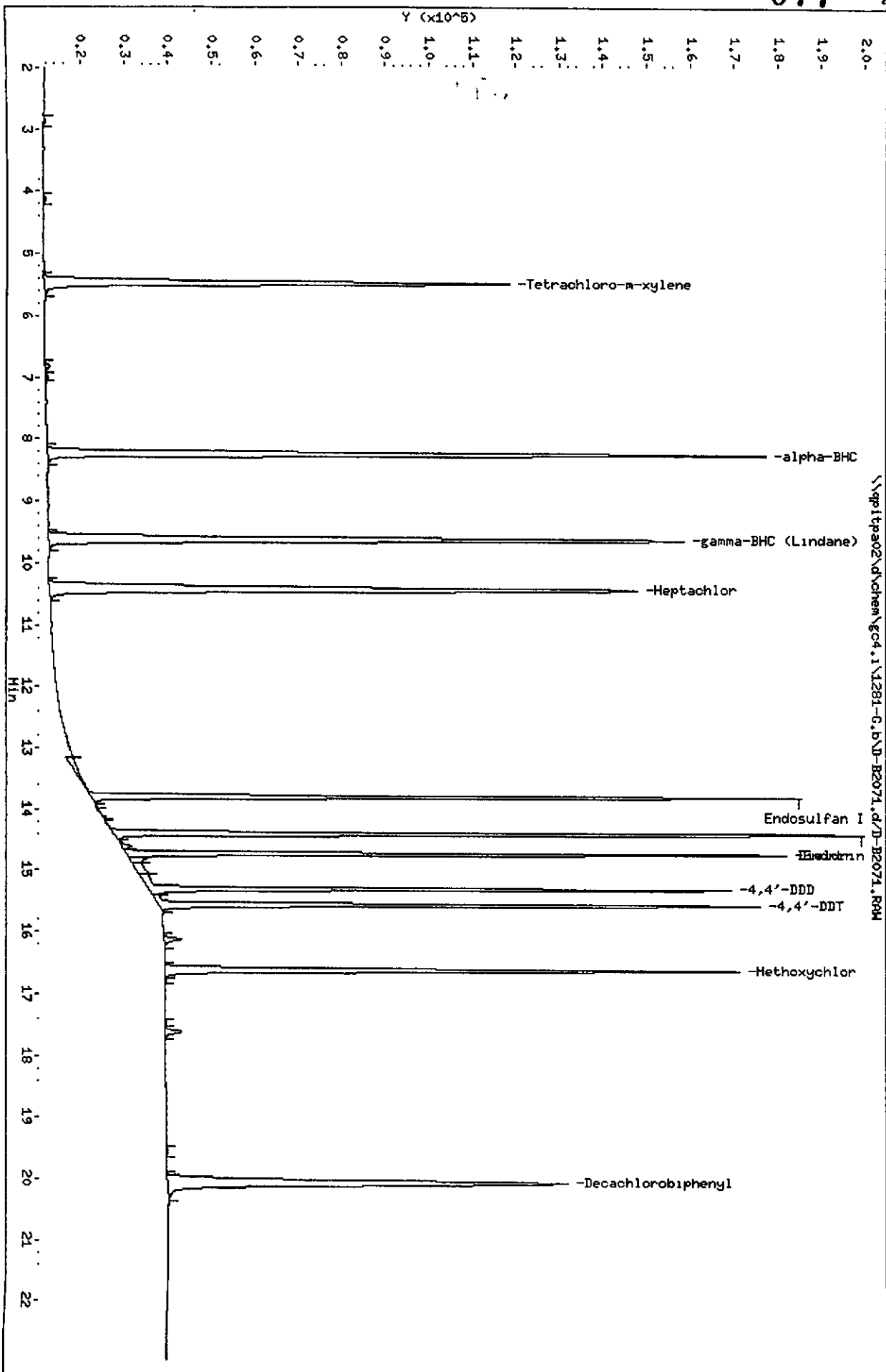
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.460	5.473	-0.013	107113	0.10000	0.1081(A)
6 alpha-BHC	8.226	8.233	-0.007	165234	0.10000	0.1339(A)
7 gamma-BHC (Lindane)	9.600	9.606	-0.006	146121	0.10000	0.1278(A)
9 Heptachlor	10.406	10.413	-0.007	135217	0.10000	0.1136(A)
20 Endosulfan I	13.780	13.786	-0.006	163164	0.10000	0.1092(A)
23 Dieldrin	14.386	14.386	0.000	183813	0.10000	0.1142(A)
26 Endrin	14.713	14.713	0.000	151695	0.10000	0.1120(A)
29 4,4'-DDD	15.286	15.286	0.000	134023	0.10000	0.1107(A)
32 4,4'-DDT	15.546	15.546	0.000	138499	0.10000	0.1102(A)
35 Methoxychlor	16.593	16.593	0.000	131979	0.20000	0.2025(A)
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	91978	0.10000	0.09844

QC Flag Legend

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

Data File: \\qpltpa02\chem\gc4.1\1281-G.b\B2071.d
Date: 27-FEB-2001 19:17
Client ID:
Sample Info: HIGH9,1281-G.b,3-INDA.sub,1,5
Column phase: RTX-1701

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



Data File: \\gpitpa02\d\chem\gc4.i\1281-G.b\D-B2072.d
 Report Date: 28-Feb-2001 09:50

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Data file : \\gpitpa02\d\chem\gc4.i\1281-G.b\D-B2072.d
 Lab Smp Id: LOWB
 Inj Date : 27-FEB-2001 19:43
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWB,1281-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-100-12
 Comment : 8081 Analysis
 Method : \\gpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
13 Aldrin	11.353	11.353	0.000	4765	0.00500	0.004565
10 beta-BHC	12.260	12.260	0.000	3452	0.00500	0.004693
11 delta-BHC	12.833	12.833	0.000	5608	0.00500	0.004186
17 Heptachlor epoxide	13.240	13.240	0.000	6602	0.00500	0.004643
18 gamma-Chlordane	13.880	13.880	0.000	7306	0.00500	0.004686
19 alpha-Chlordane	13.986	13.986	0.000	7416	0.00500	0.004697
22 4,4'-DDE	14.126	14.126	0.000	7174	0.00500	0.004697
31 Endosulfan II	15.413	15.413	0.000	6573	0.00500	0.004890
33 Endrin aldehyde	16.113	16.113	0.000	3582	0.00500	0.004775
34 Endosulfan sulfate	16.720	16.720	0.000	3875	0.00500	0.004665
37 Endrin ketone	17.606	17.606	0.000	5251	0.00500	0.004769

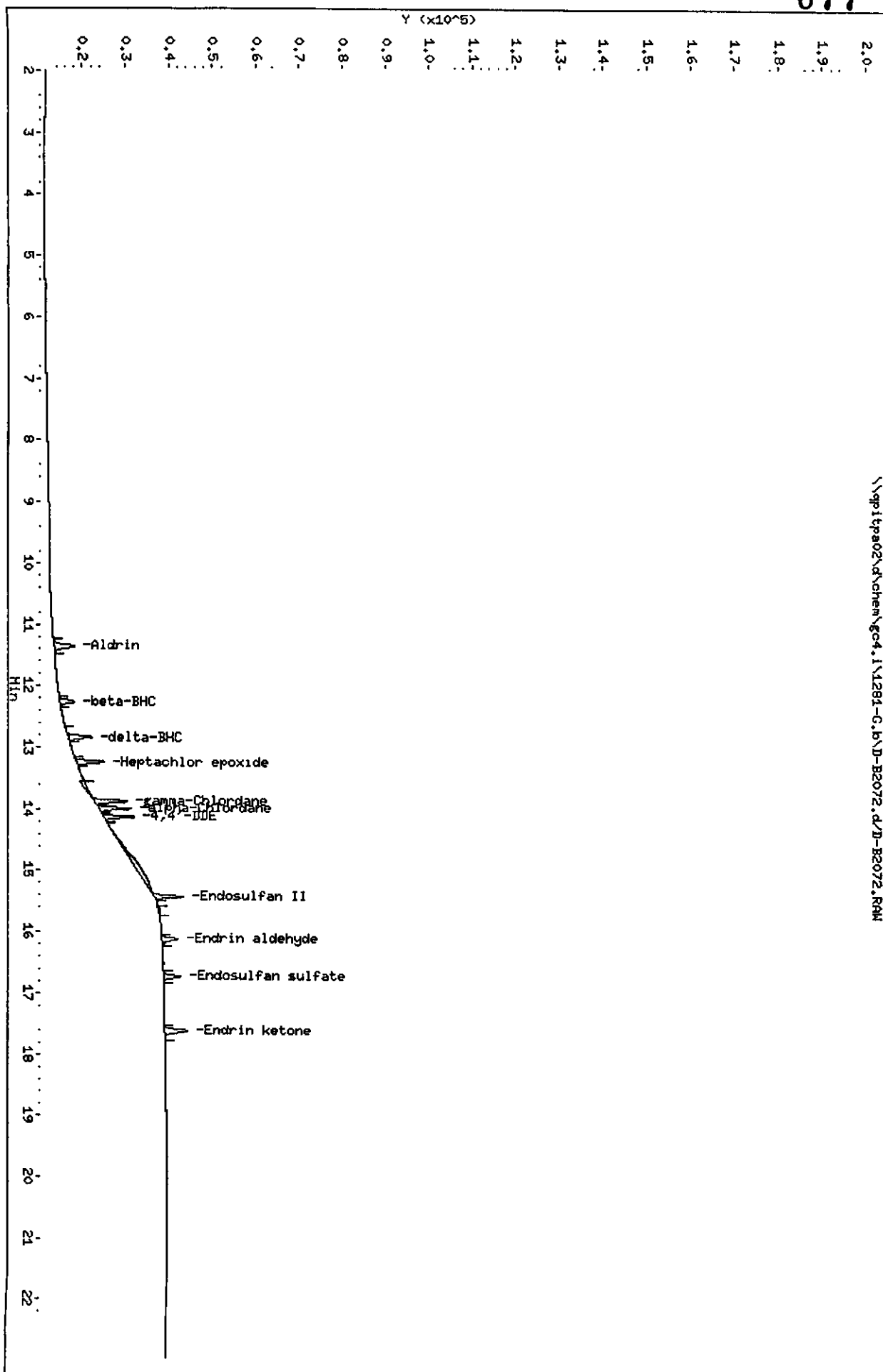
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Data File: \\ppitpa02\chem\gc4.i\1281-G.b\B-2072.d
Date: 27-FEB-2001 19:43
Client ID:
Sample Info: LOMB, 1281-G, b, 4-INDB, sub, 1, 1
Column phase: RTX-1701

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

\\ppitpa02\chem\gc4.i\1281-G.b\B-2072.d\B-2072.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2073.d
 Report Date: 28-Feb-2001 09:50

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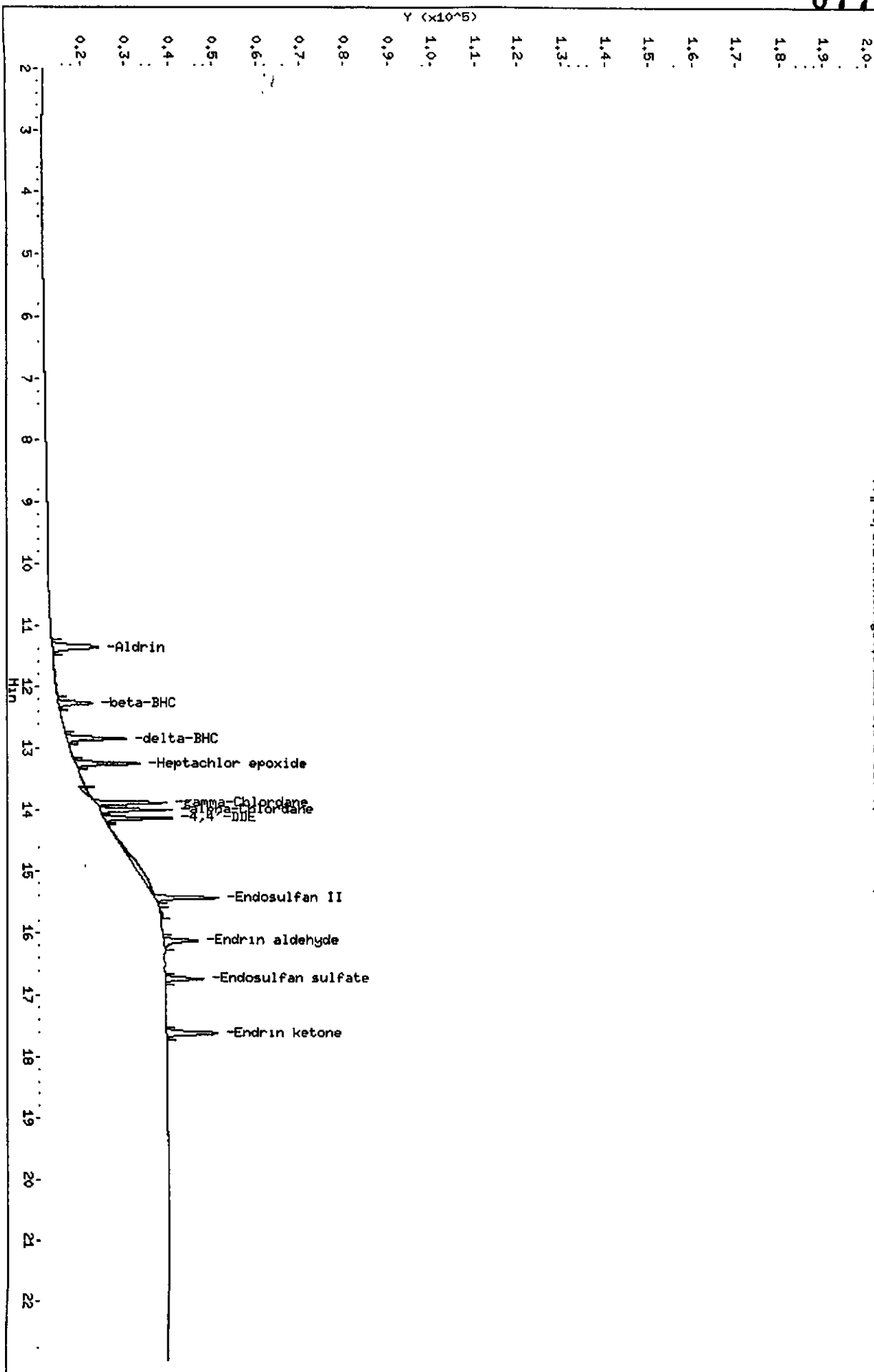
Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2073.d
 Lab Smp Id: MLOWB
 Inj Date : 27-FEB-2001 20:09
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MLOWB,1281-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-100-13
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.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	11.360	11.353	0.007	10525	0.01000	0.01006
10 beta-BHC	12.260	12.260	0.000	7759	0.01000	0.01036
11 delta-BHC	12.833	12.833	0.000	13467	0.01000	0.01003
17 Heptachlor epoxide	13.240	13.240	0.000	14626	0.01000	0.01019
18 gamma-Chlordane	13.880	13.880	0.000	16018	0.01000	0.01018
19 alpha-Chlordane	13.986	13.986	0.000	16222	0.01000	0.01018
22 4,4'-DDE	14.126	14.126	0.000	15746	0.01000	0.01020
31 Endosulfan II	15.420	15.413	0.007	14390	0.01000	0.01046
33 Endrin aldehyde	16.113	16.113	0.000	7831	0.01000	0.01029
34 Endosulfan sulfate	16.720	16.720	0.000	8675	0.01000	0.01029
37 Endrin ketone	17.606	17.606	0.000	11439	0.01000	0.01026

Data File: \\qpltpa02\chem\gc4.1\1281-G.b\D-B2073.d
Date: 27-FEB-2001 20:09
Client ID:
Sample Info: HLOMB,1281-G.b,4-INDB,sub,1,2
Column phase: RTX-1701

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

\\qpltpa02\chem\gc4.1\1281-G.b\D-B2073.d\D-B2073.Rm



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2074.d
 Report Date: 28-Feb-2001 09:50

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Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2074.d
 Lab Smp Id: MEDB
 Inj Date : 27-FEB-2001 20:36
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,1281-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-100-14
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 20:36 Cal File: D-B2074.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.353	11.353	0.000	28360	0.02500	0.02500
10 beta-BHC	12.260	12.260	0.000	19515	0.02500	0.02500
11 delta-BHC	12.833	12.833	0.000	38944	0.02500	0.02500
17 Heptachlor epoxide	13.240	13.240	0.000	38084	0.02500	0.02500
18 gamma-Chlordane	13.880	13.880	0.000	41420	0.02500	0.02500
19 alpha-Chlordane	13.986	13.986	0.000	41860	0.02500	0.02500
22 4,4'-DDE	14.126	14.126	0.000	40494	0.02500	0.02500
31 Endosulfan II	15.413	15.413	0.000	34337	0.02500	0.02500
33 Endrin aldehyde	16.113	16.113	0.000	19599	0.02500	0.02500
34 Endosulfan sulfate	16.720	16.720	0.000	22157	0.02500	0.02500
37 Endrin ketone	17.606	17.606	0.000	28796	0.02500	0.02500

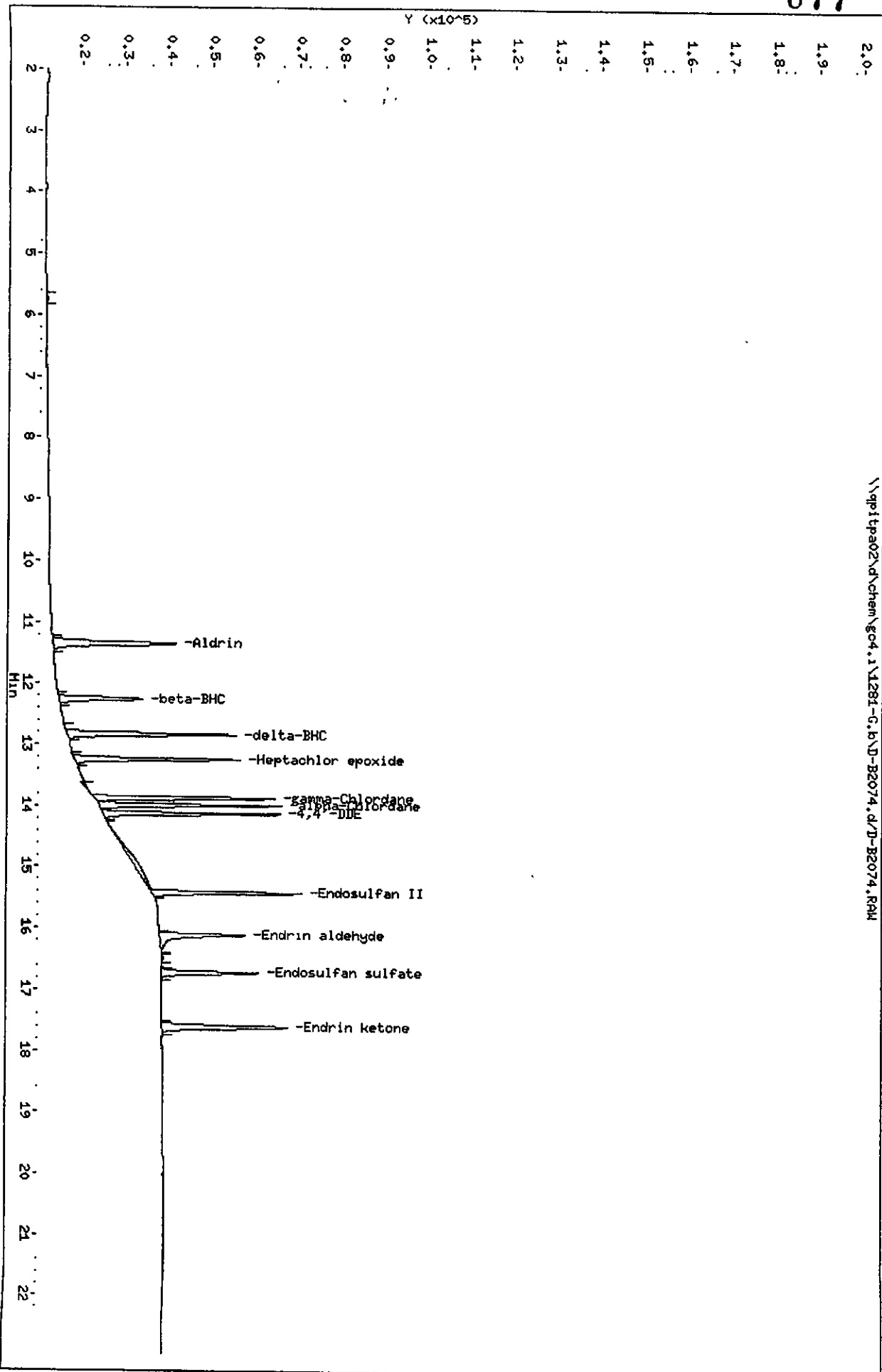
677

497

Data File: \\qpltpa02\chem\gc4.1\1281-G.b\D-B2074.d
Date: 27-FEB-2001 20:36
Client ID:
Sample Info: MEDB,1281-G.b,,4-INDB.sub.,1,3
Column phase: RTX-1701

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

\\qpltpa02\chem\gc4.1\1281-G.b\D-B2074.d\D-B2074.RAW



677 498

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2075.d
 Report Date: 28-Feb-2001 09:50

STL-Pittsburgh

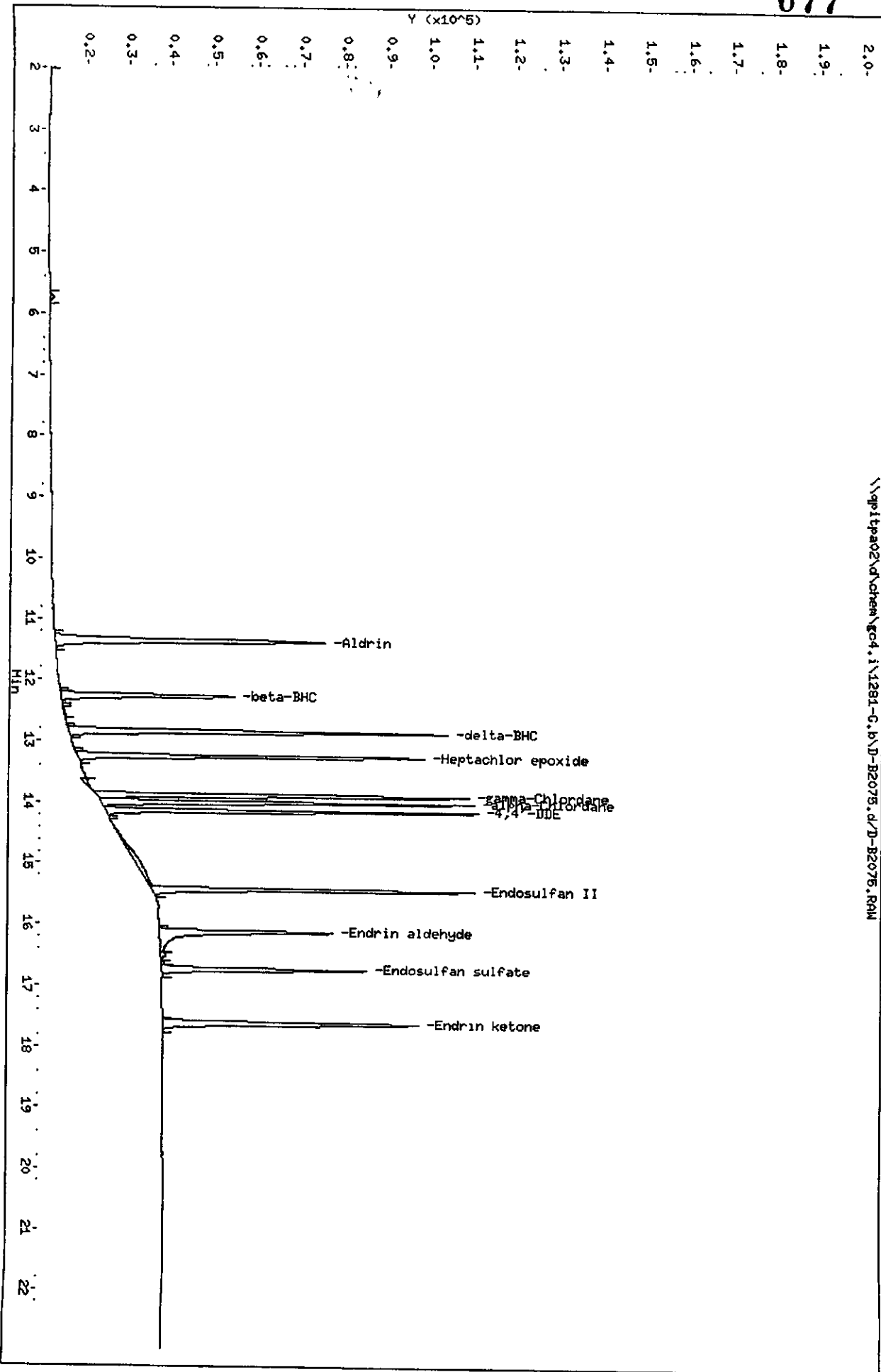
Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2075.d
 Lab Smp Id: MHIGHB
 Inj Date : 27-FEB-2001 21:02
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHB,1281-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-101-1
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:02 Cal File: D-B2075.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	11.360	11.353	0.007	62680	0.05000	0.05707
10 beta-BHC	12.260	12.260	0.000	40331	0.05000	0.05283
11 delta-BHC	12.833	12.833	0.000	87676	0.05000	0.06068
17 Heptachlor epoxide	13.240	13.240	0.000	80380	0.05000	0.05437
18 gamma-Chlordane	13.880	13.880	0.000	86304	0.05000	0.05356
19 alpha-Chlordane	13.986	13.986	0.000	86549	0.05000	0.05317
22 4,4'-DDE	14.126	14.126	0.000	86385	0.05000	0.05436
31 Endosulfan II	15.420	15.413	0.007	74740	0.05000	0.05318
33 Endrin aldehyde	16.113	16.113	0.000	39777	0.05000	0.05168
34 Endosulfan sulfate	16.720	16.720	0.000	47052	0.05000	0.05424
37 Endrin ketone	17.606	17.606	0.000	58976	0.05000	0.05213

Data File: \\p1tpa02\chem\gc4.1\1281-G.b\D-B2075.d
 Date : 27-FEB-2001 21:02
 Client ID:
 Sample Info: HHIGHB,1281-G.b,,4-INDB,sub,,1,4
 Column phase: RTX-1701

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

\\p1tpa02\chem\gc4.1\1281-G.b\D-B2075.d\D-B2075.RAW



677 500

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2076.d
 Report Date: 28-Feb-2001 09:50

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2076.d
 Lab Smp Id: HIGHB
 Inj Date : 27-FEB-2001 21:28
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHB,1281-G.b,,4-INDB.sub,,1,5
 Misc Info : 190-101-2
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	11.360	11.353	0.007	127360	0.10000	0.1124 (A)
10 beta-BHC	12.253	12.260	-0.007	78306	0.10000	0.1020 (A)
11 delta-BHC	12.833	12.833	0.000	178940	0.10000	0.1182 (A)
17 Heptachlor epoxide	13.240	13.240	0.000	158085	0.10000	0.1055 (A)
18 gamma-Chlordane	13.880	13.880	0.000	163667	0.10000	0.1012 (A)
19 alpha-Chlordane	13.986	13.986	0.000	157780	0.10000	0.09753
22 4,4'-DDE	14.126	14.126	0.000	156258	0.10000	0.09865
31 Endosulfan II	15.420	15.413	0.007	146924	0.10000	0.1036 (A)
33 Endrin aldehyde	16.113	16.113	0.000	77866	0.10000	0.1009 (A)
34 Endosulfan sulfate	16.720	16.720	0.000	94119	0.10000	0.1067 (A)
37 Endrin ketone	17.613	17.606	0.007	116008	0.10000	0.1020 (A)

QC Flag Legend

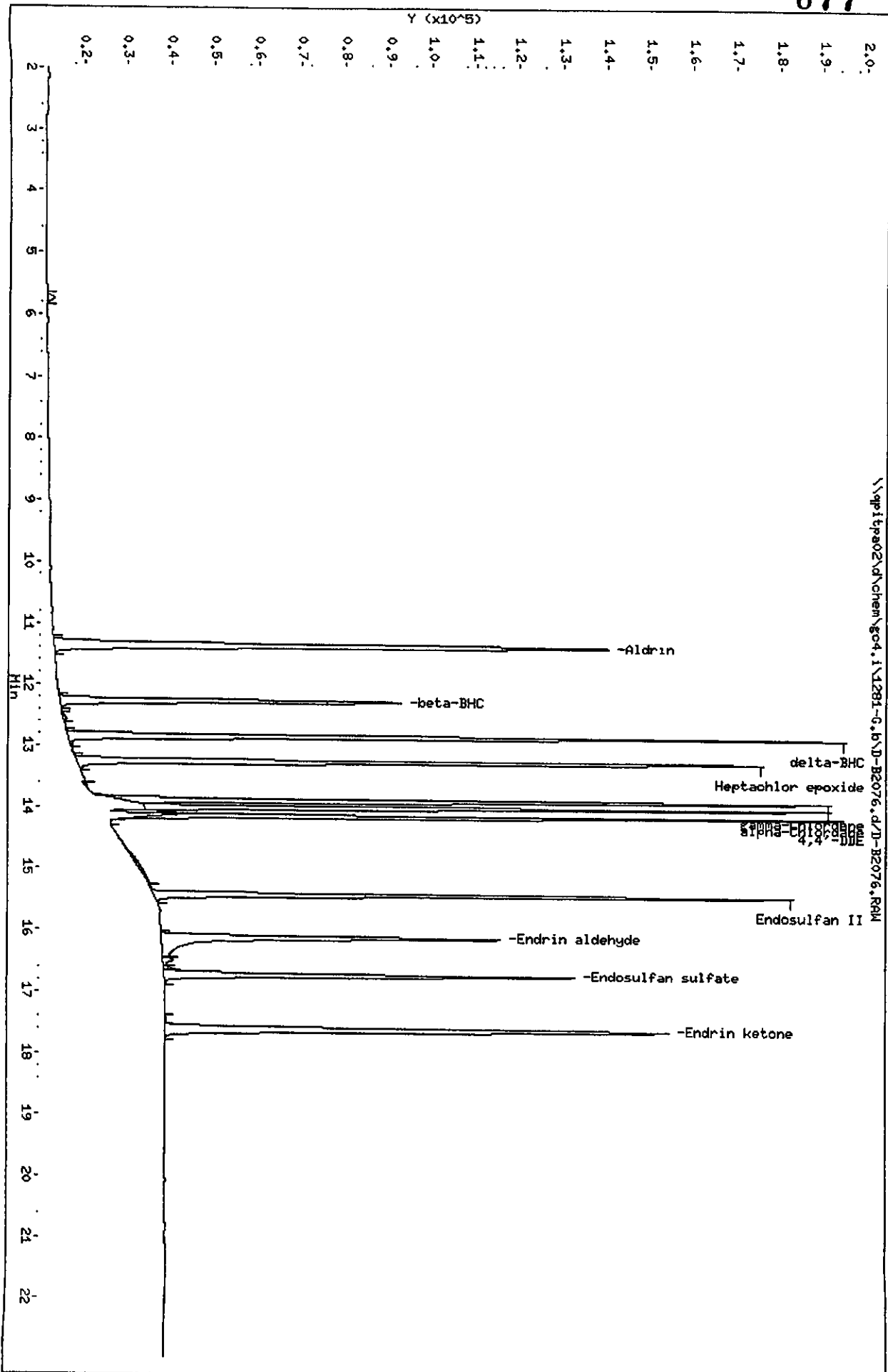
A - Target compound detected but, quantitated amount
 exceeded maximum amount.

677

501

Data File: \\pp1tpa02\chem\gc04.1\1281-G.b.D-B2076.d
Date: 27-FEB-2001 21:28
Client ID:
Sample Info: HIGHB,1281-G.b.,4-INDB.sub.,1,5
Column Phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2077.d
 Report Date: 28-Feb-2001 09:51

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2077.d
 Lab Smp Id: 2ND A
 Inj Date : 27-FEB-2001 21:55
 Operator : 010139 Inst ID: gc4.i
 Smp Info : 2ND A,1281-G.b,,INDA.sub,,2,3
 Misc Info : 190-101-7
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.466	5.473	-0.007	17756	0.02500	0.01792
6 alpha-BHC	8.233	8.233	0.000	20059	0.02500	0.01626
7 gamma-BHC (Lindane)	9.606	9.606	0.000	18759	0.02500	0.01641
9 Heptachlor	10.413	10.413	0.000	20409	0.02500	0.01714
20 Endosulfan I	13.786	13.786	0.000	26596	0.02500	0.01781
23 Dieldrin	14.386	14.386	0.000	58296	0.02500	0.03622
26 Endrin	14.713	14.713	0.000	41308	0.02500	0.03051
29 4,4'-DDD	15.286	15.286	0.000	43470	0.02500	0.03592
32 4,4'-DDT	15.546	15.546	0.000	45253	0.02500	0.03602
35 Methoxychlor	16.593	16.593	0.000	110866	0.05000	0.1701
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	33102	0.02500	0.03543

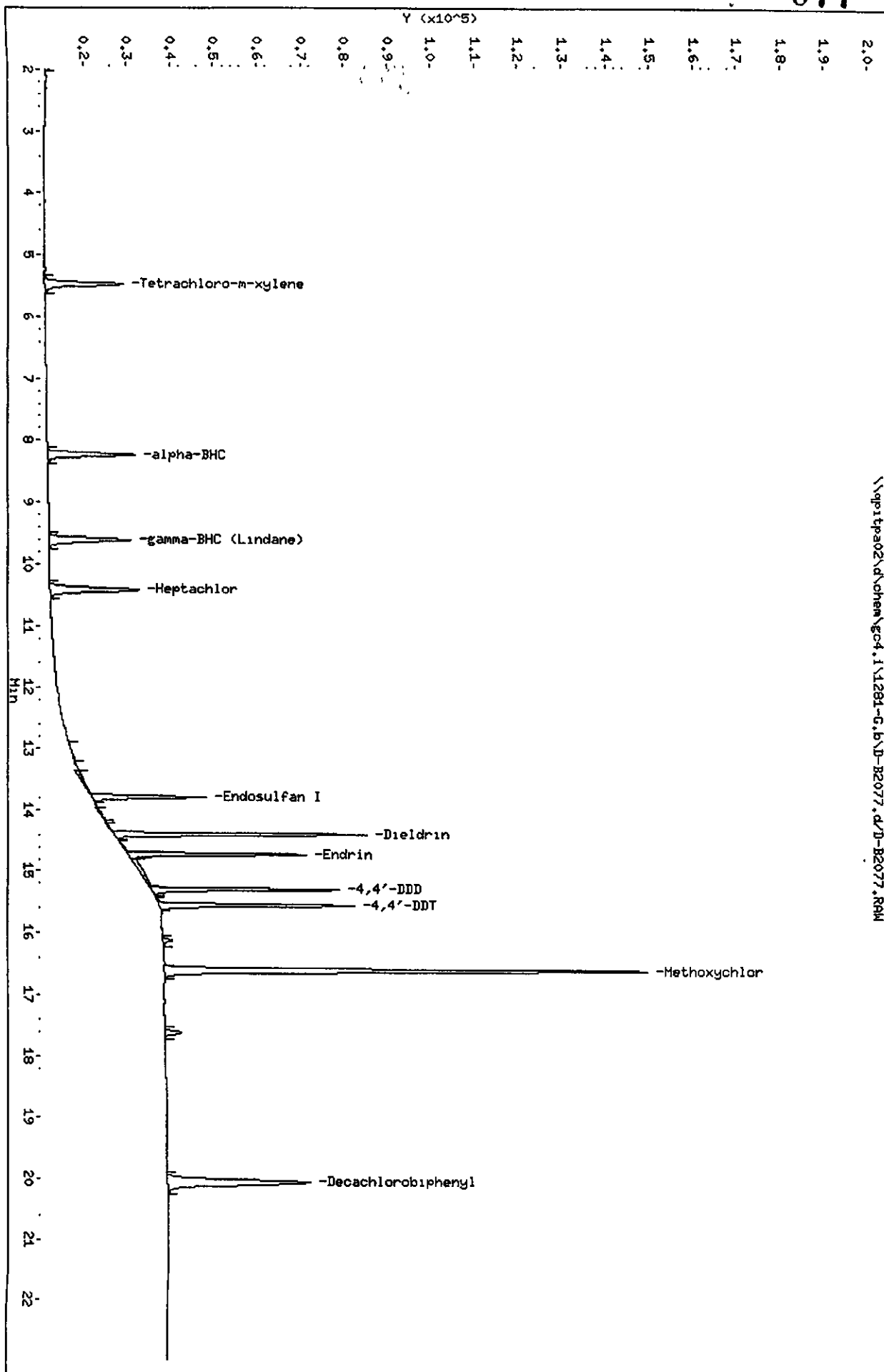
677

503

Data File: \\ppitpa02\chem\gc4.1\1281-G.b\B-B2077.d
Date: 27-FEB-2001 21:55
Client ID:
Sample Info: 2ND A,1281-G.b,INDA.sub,,2,3
Column phase: RTX-1701

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

\\ppitpa02\chem\gc4.1\1281-G.b\B-B2077.d\B-B2077.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2078.d
 Report Date: 28-Feb-2001 09:51

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2078.d
 Lab Smp Id: 2ND B
 Inj Date : 27-FEB-2001 22:21
 Operator : 010139 Inst ID: gc4.i
 Smp Info : 2ND B,1281-G.b,,INDB.sub,,2,3
 Misc Info : 190-101-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

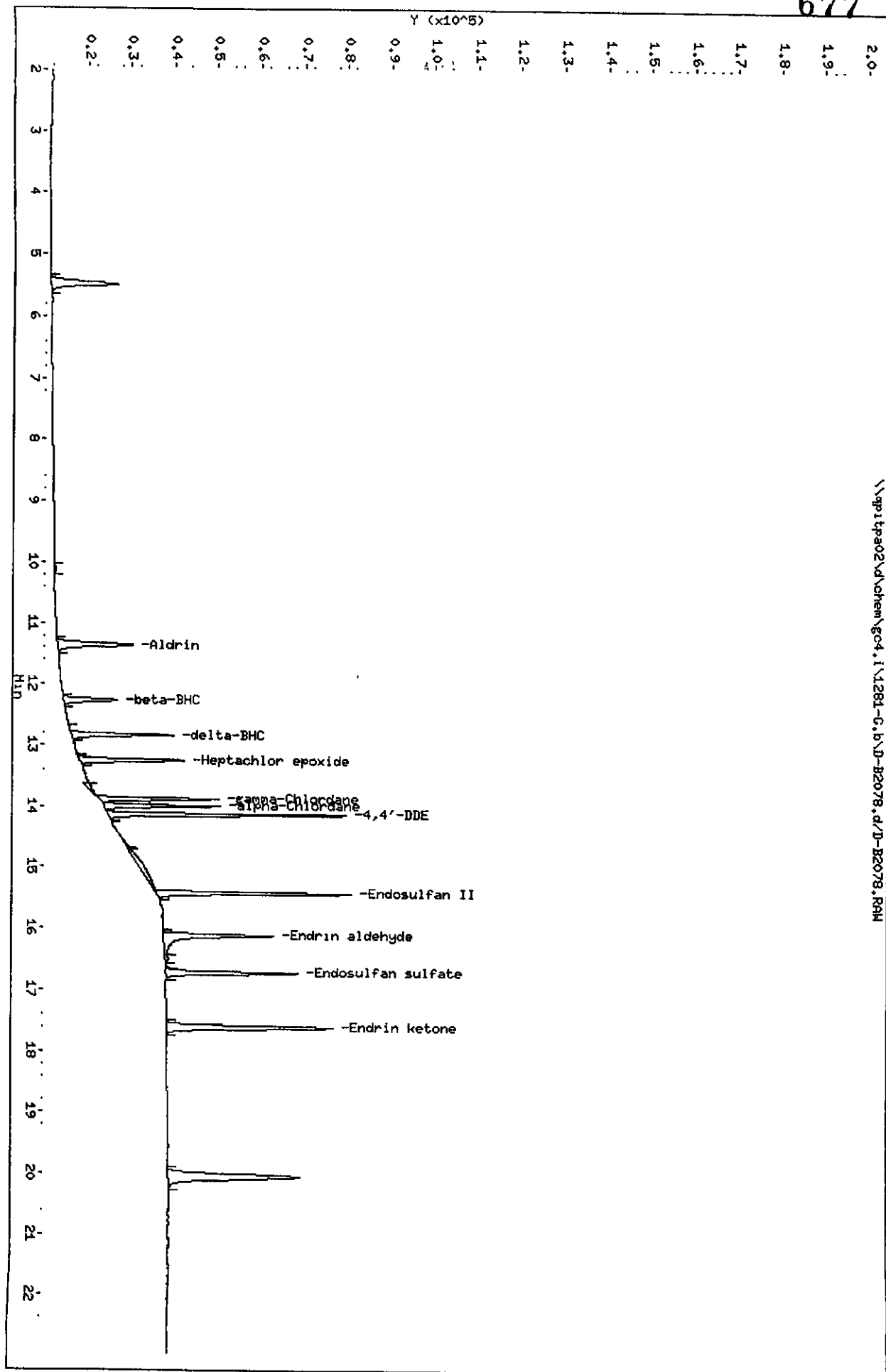
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
13 Aldrin	11.360	11.353	0.007	17371	0.02500	0.01533
10 beta-BHC	12.260	12.260	0.000	12438	0.02500	0.01621
11 delta-BHC	12.833	12.833	0.000	23716	0.02500	0.01567
17 Heptachlor epoxide	13.240	13.240	0.000	24358	0.02500	0.01625
18 gamma-Chlordane	13.880	13.880	0.000	27533	0.02500	0.01703
19 alpha-Chlordane	13.986	13.986	0.000	26979	0.02500	0.01668
22 4,4'-DDE	14.126	14.126	0.000	54944	0.02500	0.03469
31 Endosulfan II	15.413	15.413	0.000	45171	0.02500	0.03185
33 Endrin aldehyde	16.113	16.113	0.000	25335	0.02500	0.03284
34 Endosulfan sulfate	16.720	16.720	0.000	30228	0.02500	0.03426
37 Endrin ketone	17.606	17.606	0.000	38413	0.02500	0.03378

505

Data File: \\apitpa02\chem\gc4.1\1281-G.b\B2078.d
Date: 27-FEB-2001 22:21
Client ID:
Sample Info: 2ND B, 1281-G.b, INDB.sdb, 2,3
Column phase: RTX-1701

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

677



677 506

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2079.d
 Report Date: 28-Feb-2001 09:51

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2079.d
 Lab Smp Id: EVALB
 Inj Date : 27-FEB-2001 22:47
 Operator : 010139 Inst ID: gc4.i
 Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-102-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 28-Feb-2001 09:43 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.473	5.473	0.000	18442	0.01861	0 01861 (R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.713	14.713	0.000	31077	0.02296	0 02296
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.546	15.546	0.000	30216	0.02405	0.02405
33 Endrin aldehyde	16.113	16.113	0.000	1023	0.00133	0.001326
37 Endrin ketone	17.606	17.606	0.000	1130	<0.0	0 0009937
\$ 38 Decachlorobiphenyl	20.046	20.046	0.000	18363	0.01965	0.01965 (R)

QC Flag Legend

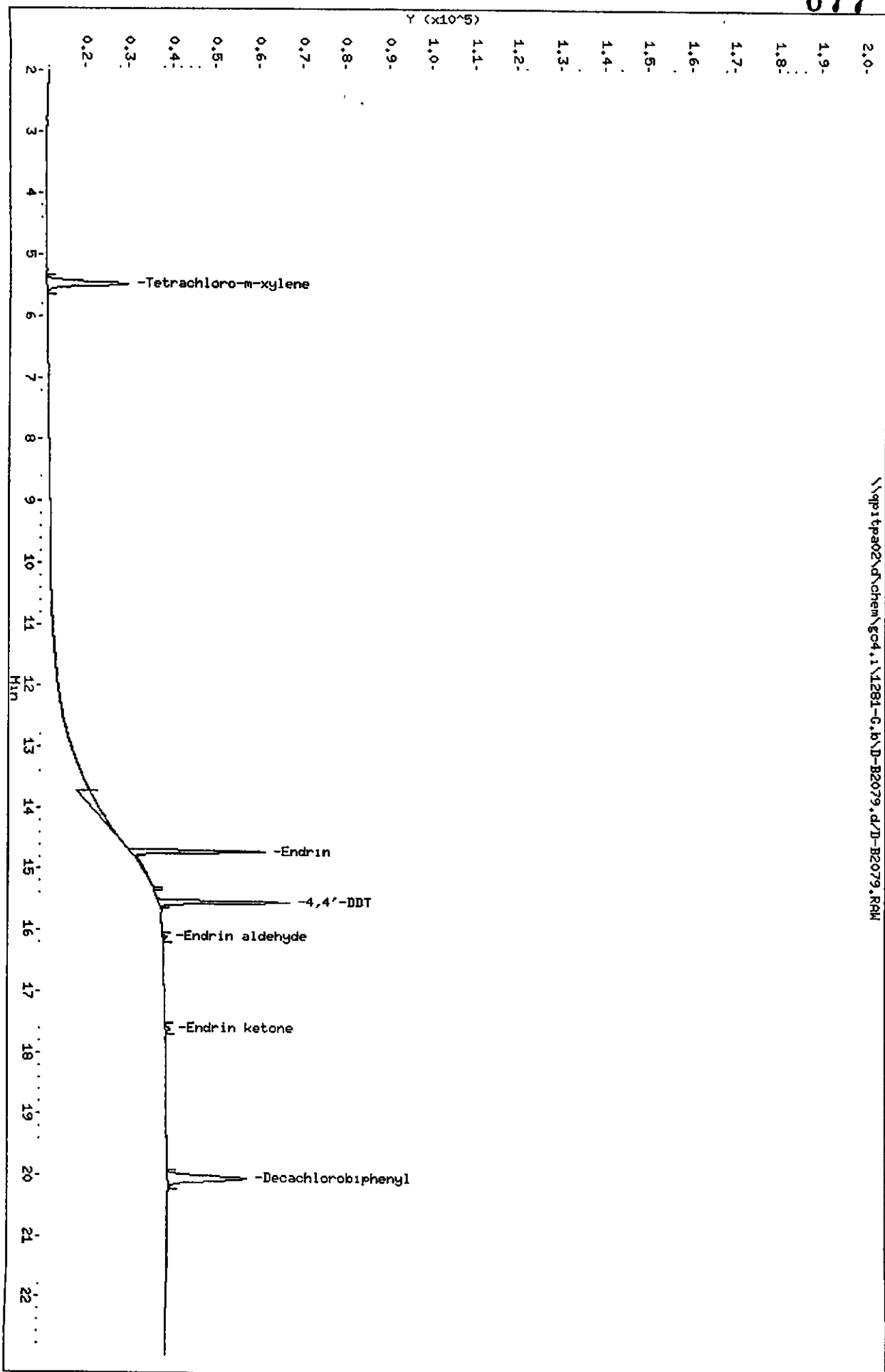
R - Spike/Surrogate failed recovery limits.

DDT = 0

Endrin = 6.5

Data File: \\qpltpa02\chem\gc04.1\1281-G.b\B-2079.d
 Date: 27-FEB-2001 22:47
 Client ID:
 Sample Info: EVALB,1281-G.b,EVALBR,sub,3,1
 Column phase: RTX-1701

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



677 508

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2123.d
Report Date: 01-Mar-2001 09:01

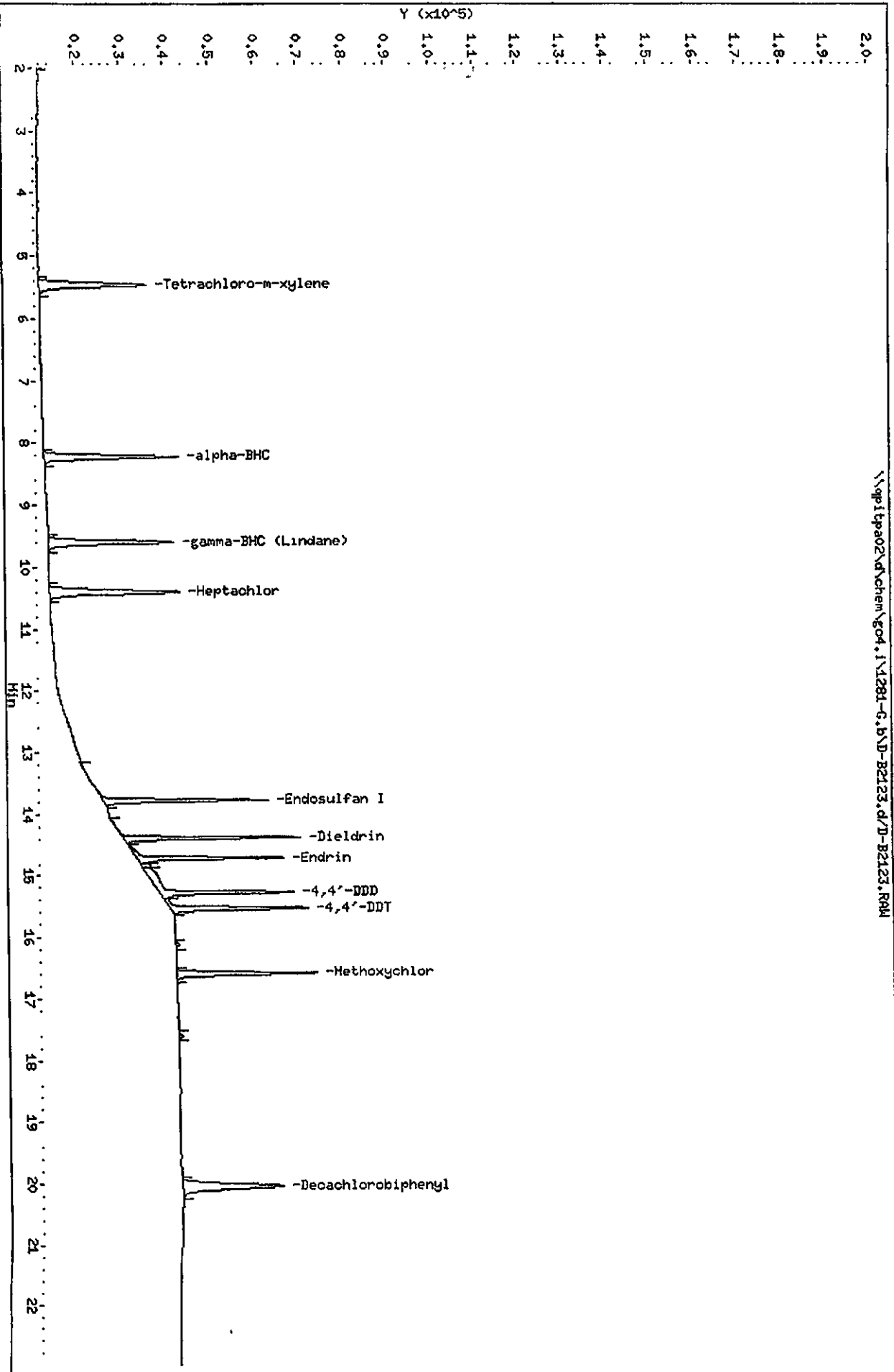
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2123.d
Lab Smp Id: MEDA
Inj Date : 28-FEB-2001 18:06
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,1281-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.460	5.473	-0.013	24206	0.02500	0.02443
6 alpha-BHC	8.220	8.233	-0.013	30180	0.02500	0.02446
7 gamma-BHC (Lindane)	9.593	9.606	-0.013	28249	0.02500	0.02472
9 Heptachlor	10.400	10.413	-0.013	29169	0.02500	0.02450
20 Endosulfan I	13.780	13.786	-0.006	37442	0.02500	0.02507
23 Dieldrin	14.380	14.386	-0.006	40131	0.02500	0.02493
26 Endrin	14.713	14.713	0.000	33160	0.02500	0.02449
29 4,4'-DDD	15.280	15.286	-0.006	30475	0.02500	0.02518
32 4,4'-DDT	15.540	15.546	-0.006	31292	0.02500	0.02491
35 Methoxychlor	16.586	16.593	-0.007	31954	0.05000	0.04903
\$ 38 Decachlorobiphenyl	20.040	20.046	-0.006	22946	0.02500	0.02456

Data File: \\p1tpa02\chem\gc4.1\1281-G.b\D-B2123.d
Date: 28-FEB-2001 18:06
Client ID:
Sample Info: MED9, 1281-G.b, IND9, sub, 2,3
Column phase: RTX-1701

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



677 510

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2124.d
Report Date: 01-Mar-2001 09:01

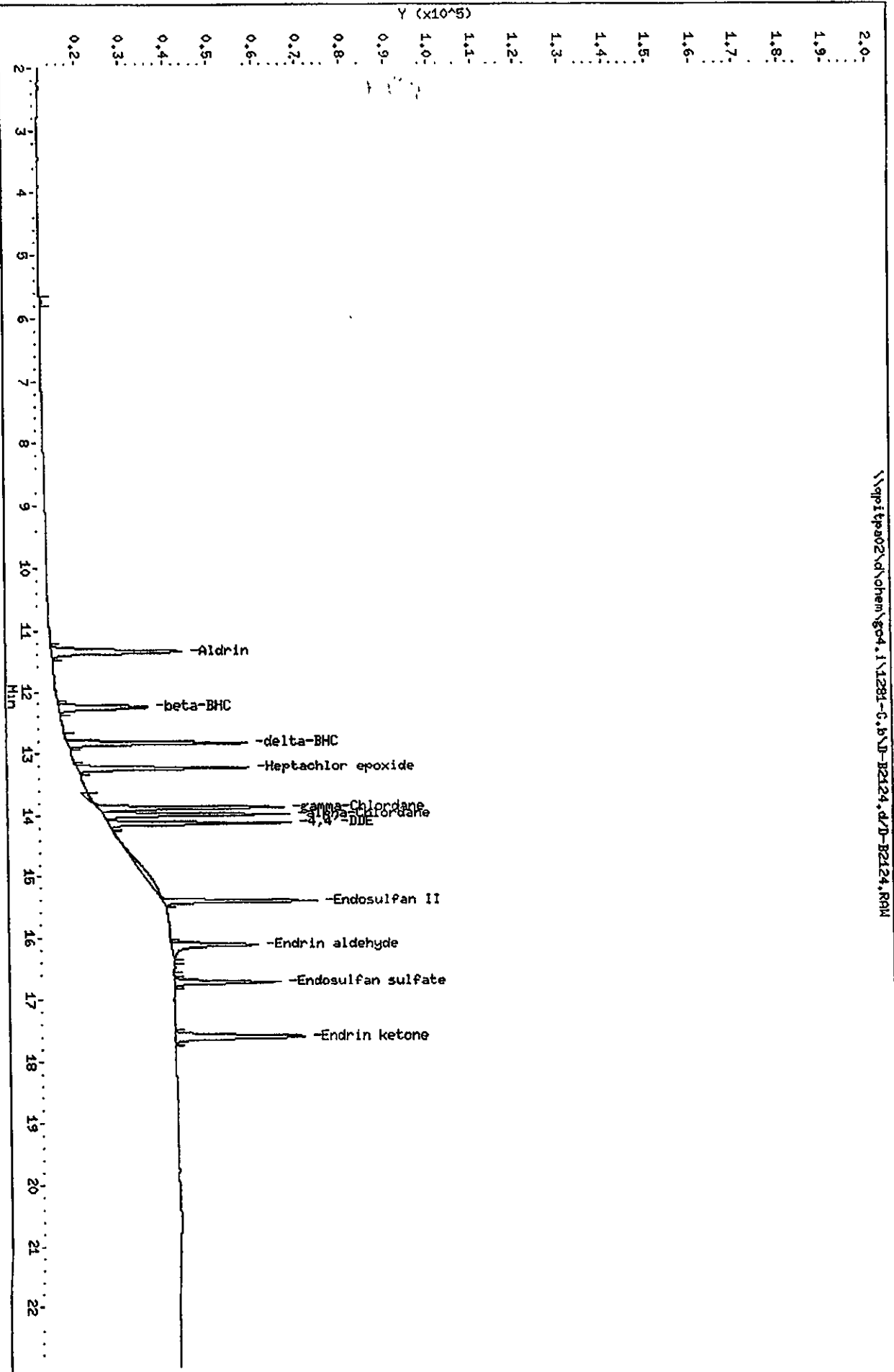
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2124.d
Lab Smp Id: MEDB
Inj Date : 28-FEB-2001 18:33
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,1281-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	11.346	11.353	-0.007	29366	0.02500	0.02591
10 beta-BHC	12.246	12.260	-0.014	20096	0.02500	0.02619
11 delta-BHC	12.826	12.833	-0.007	40629	0.02500	0.02684
17 Heptachlor epoxide	13.233	13.240	-0.007	38964	0.02500	0.02599
18 gamma-Chlordane	13.873	13.880	-0.007	42077	0.02500	0.02603
19 alpha-Chlordane	13.986	13.986	0.000	42164	0.02500	0.02606
22 4,4'-DDE	14.126	14.126	0.000	41453	0.02500	0.02617
31 Endosulfan II	15.413	15.413	0.000	35017	0.02500	0.02469
33 Endrin aldehyde	16.106	16.113	-0.007	19653	0.02500	0.02547
34 Endosulfan sulfate	16.713	16.720	-0.007	24121	0.02500	0.02734
37 Endrin ketone	17.600	17.606	-0.006	29487	0.02500	0.02593

Data File: \\ppitpa02\chem\gc4.1\1281-G.b\B2124.d
Date: 28-FEB-2001 18:33
Client ID:
Sample Info: HEDB,1281-G.b,,INDB.sub,,2,3
Column phase: RTX-1701

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



677 512

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2125.d
Report Date: 01-Mar-2001 09:01

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2125.d
Lab Smp Id: EVALB
Inj Date : 28-FEB-2001 18:59
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,1281-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.460	5.473	-0.013	19530	0.01971	0.01971(R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.713	14.713	0.000	30472	0.02251	0.02251
29 4,4'-DDD	15.286	15.286	0.000	1383	0.00114	0.001143
32 4,4'-DDT	15.540	15.546	-0.006	30927	0.02462	0.02462
33 Endrin aldehyde	16.113	16.113	0.000	1219	0.00158	0.001580
37 Endrin ketone	17.600	17.606	-0.006	1304	0.00115	0.001147
\$ 38 Decachlorobiphenyl	20.040	20.046	-0.006	18298	0.01958	0.01958(R)

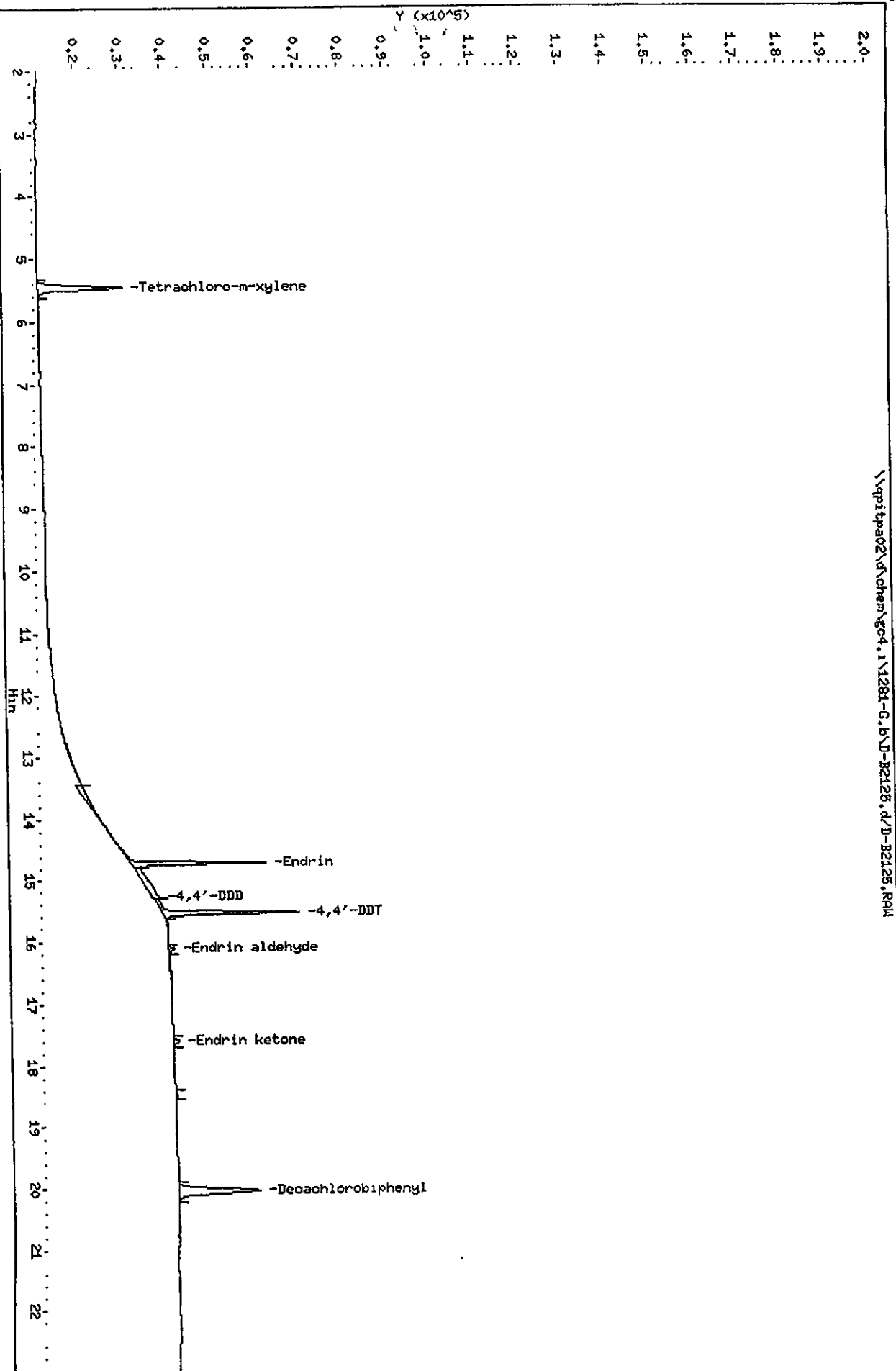
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDE = 4.3
Endrin = 7.6

Data File: \\vpitpa02\chem\gc04.i\1281-G.b\1281-G.b-D-B2125.d
Date: 28-FEB-2001 18:59
Client ID:
Sample Info: EVALB,1281-G.b,EVALB,sub,3,1
Column phase: RTX-1701

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2132.d
 Report Date: 01-Mar-2001 09:03

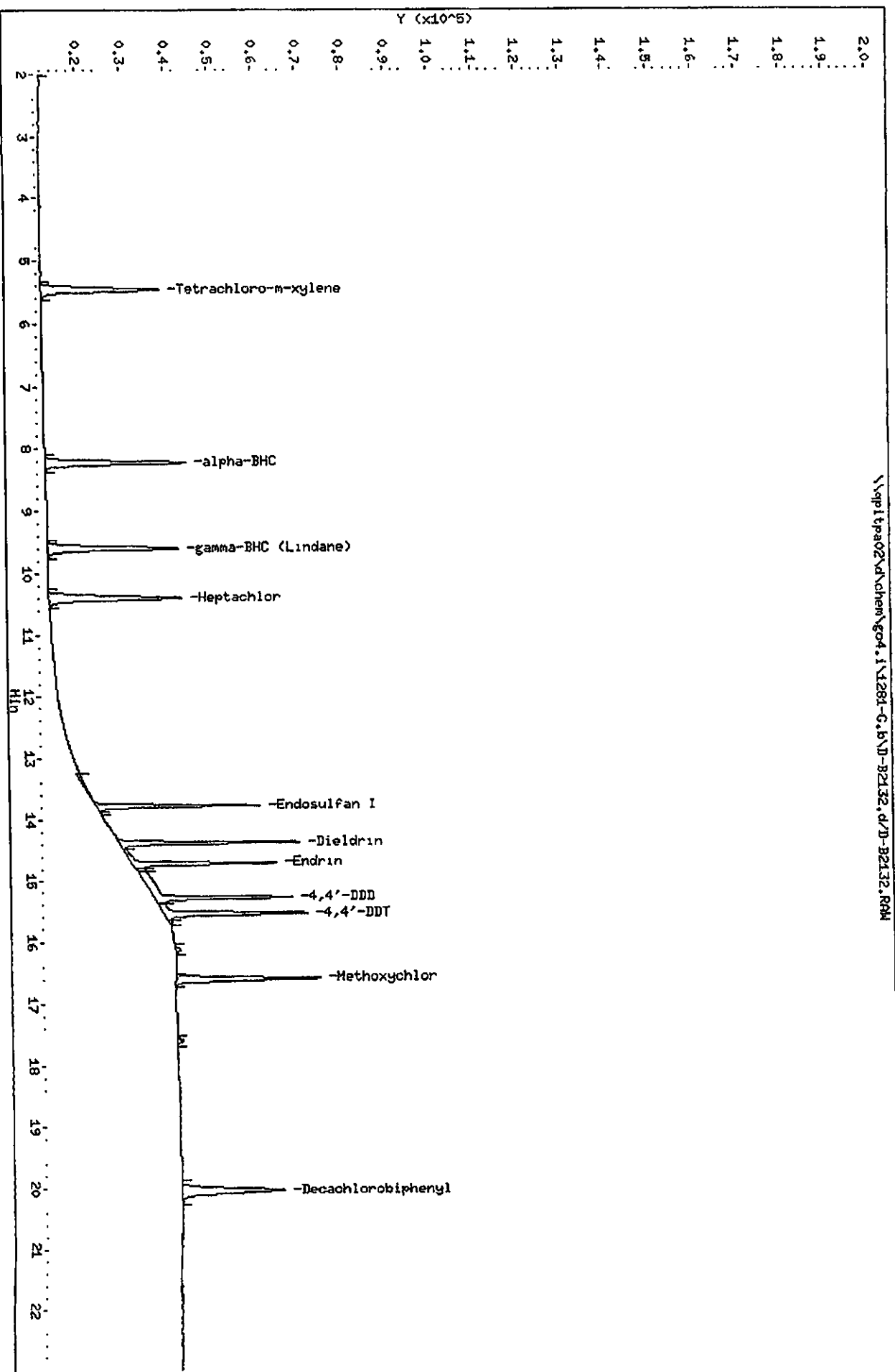
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2132.d
 Lab Smp Id: MEDA
 Inj Date : 28-FEB-2001 22:04
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDA,1281-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.460	5.473	-0.013	26853	0.02500	0.02710
6 alpha-BHC	8.213	8.233	-0.020	31961	0.02500	0.02590
7 gamma-BHC (Lindane)	9.593	9.606	-0.013	29557	0.02500	0.02586
9 Heptachlor	10.400	10.413	-0.013	30016	0.02500	0.02521
20 Endosulfan I	13.780	13.786	-0.006	37440	0.02500	0.02507
23 Dieldrin	14.380	14.386	-0.006	41219	0.02500	0.02561
26 Endrin	14.706	14.713	-0.007	33078	0.02500	0.02443
29 4,4'-DDD	15.280	15.286	-0.006	31492	0.02500	0.02602
32 4,4'-DDT	15.540	15.546	-0.006	32566	0.02500	0.02592
35 Methoxychlor	16.586	16.593	-0.007	33064	0.05000	0.05074
\$ 38 Decachlorobiphenyl	20.033	20.046	-0.013	23478	0.02500	0.02513

Data File: \\qpi1tpa02\chem\g04.1\1281-G.b\B2132.d
Date: 28-FEB-2001 22:04
Client ID:
Sample Info: MED9,1281-G.b,IND9,sub,2,3
Column phase: RTX-1701

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



677 516

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2133.d
 Report Date: 05-Mar-2001 15:24

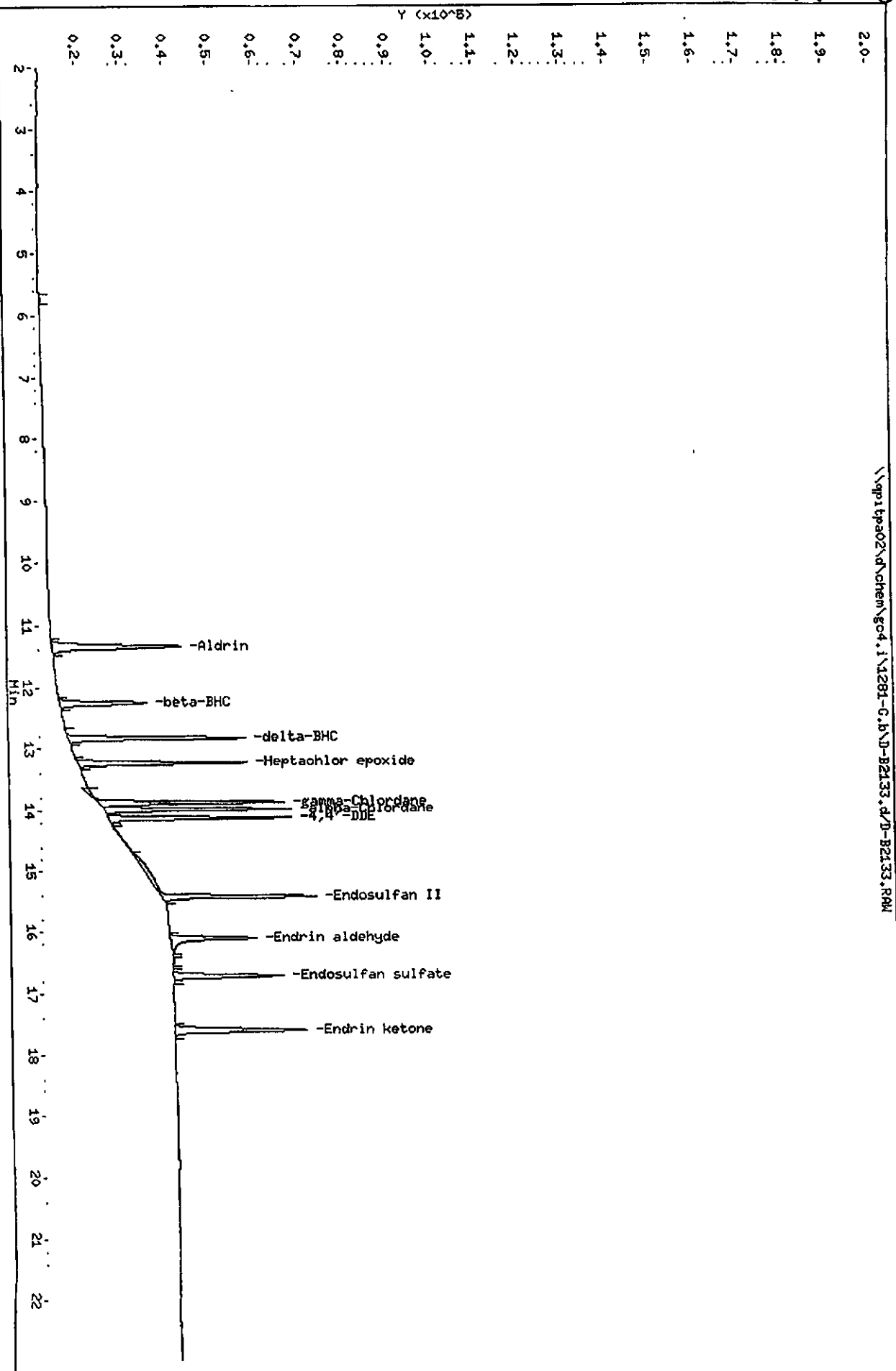
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2133.d
 Lab Smp Id: MEDB
 Inj Date : 28-FEB-2001 22:30
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,1281-G.b,,INDB.sub,,2,3
 Misc Info : 190-100-14
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 05-Mar-2001 15:24 eppingerd Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
13 Aldrin	11.340	11.353	-0.013	29339	0.02500	0.02588
10 beta-BHC	12.246	12.260	-0.014	19904	0.02500	0.02594
11 delta-BHC	12.826	12.833	-0.007	40395	0.02500	0.02668
17 Heptachlor epoxide	13.233	13.240	-0.007	38678	0.02500	0.02580
18 gamma-Chlordane	13.866	13.880	-0.014	42123	0.02500	0.02606
19 alpha-Chlordane	13.980	13.986	-0.006	42558	0.02500	0.02631
22 4,4'-DDE	14.120	14.126	-0.006	41678	0.02500	0.02631
31 Endosulfan II	15.413	15.413	0.000	34796	0.02500	0.02453
33 Endrin aldehyde	16.106	16.113	-0.007	19401	0.02500	0.02515
34 Endosulfan sulfate	16.713	16.720	-0.007	24977	0.02500	0.02831
37 Endrin ketone	17.600	17.606	-0.006	29643	0.02500	0.02607

Data File: \\qip1tpa02\chem\gc4.1\1281-G.b\D-B2133.d
Date: 28-FEB-2001 22:30
Client ID:
Sample Info: HEDB,1281-G.b,,INDB.sub,,2,3
Column phase: RTX-1701

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



677 518

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: C1B260000 555

Sample WT/Vol: 1000 / mL
Work Order: DWMV51AA
Dilution factor: 1
Moisture %: NA

Date Received: 02/23/01
Date Extracted: 02/26/01
Date Analyzed: 02/28/01

QC Batch: 1057555

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

677 520

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2129.d
 Report Date: 01-Mar-2001 09:31

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2129.d
 Lab Smp Id: DWMV51AA Client Smp ID: PBLK7555
 Inj Date : 28-FEB-2001 20:45
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWMV51AA,1281-G.b,,PEST.sub,,3,
 Misc Info : 230148-BLK
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
 Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.213	5.233	-0 020	27451	0.01982	0.1982
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.		

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	15.686	15.700	-0.014	3002	0.00213	0.02128(a)
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor	17.133	17.100	0.033	5069	0.00722	0.07217(a)
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	20527	0.02120	0.2120

QC Flag Legend

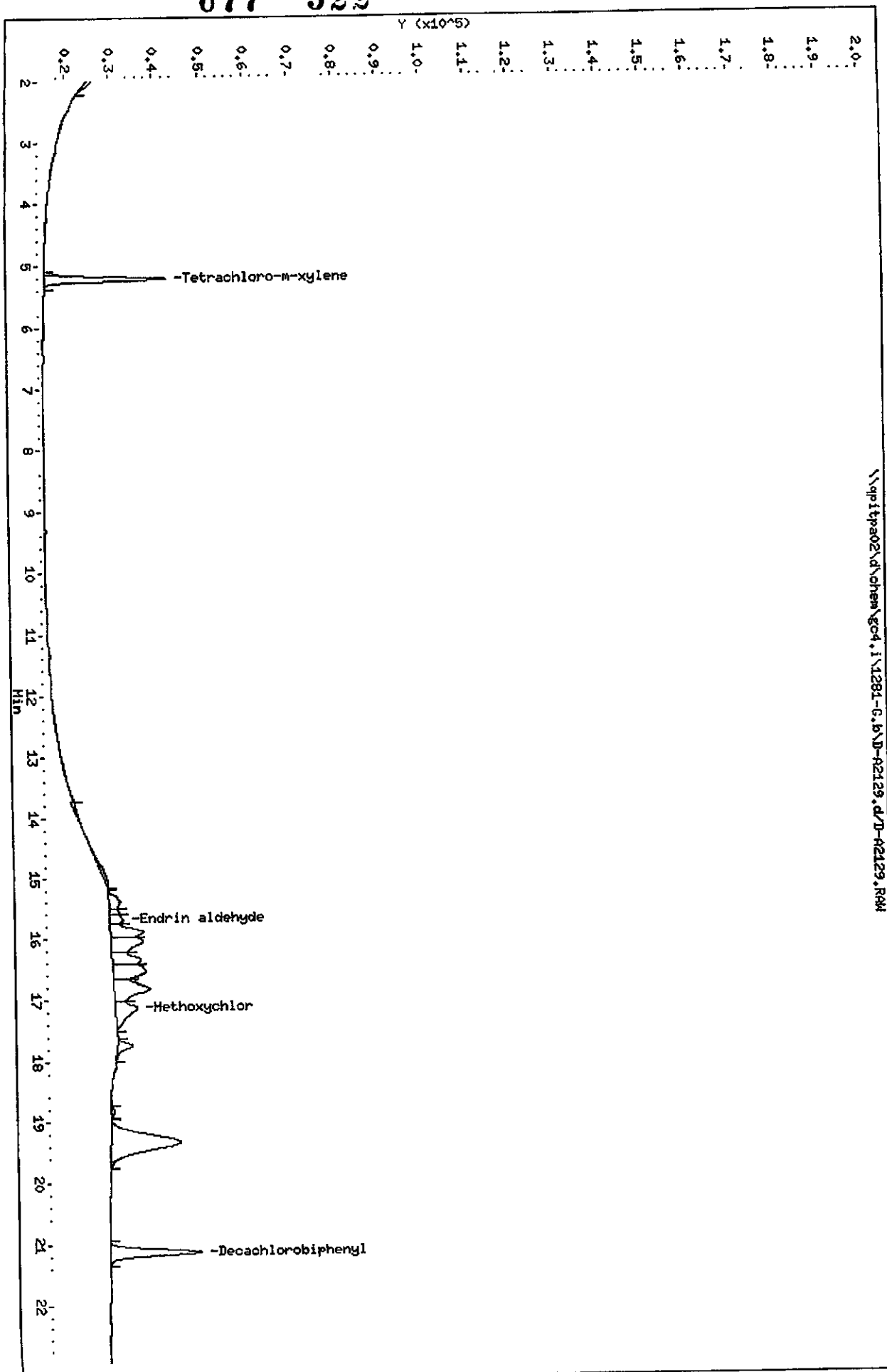
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

677 522

Data File: \\ppitpa02\chem\gc4.i\1281-G.b\128129.d
 Date: 28-FEB-2001 20:45
 Client ID: PBLK7855
 Sample Info: DMH516R,1281-G.b,,PEST.sub,,3,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

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

\\ppitpa02\chem\gc4.i\1281-G.b\128129.d\128129.RAW



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2129.d
Report Date: 01-Mar-2001 09:02

677 523

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2129.d
Lab Smp Id: DWMV51AA Client Smp ID: PBLK7555
Inj Date : 28-FEB-2001 20:45
Operator : 010139 Inst ID: gc4.i
Smp Info : DWMV51AA,1281-G.b,,PEST.sub,,3,
Misc Info : 230148-BLK
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.453	5.473	-0.020	19568	0.01975	0.1975
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.		

677 524

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2129.d
Report Date: 01-Mar-2001 09:02

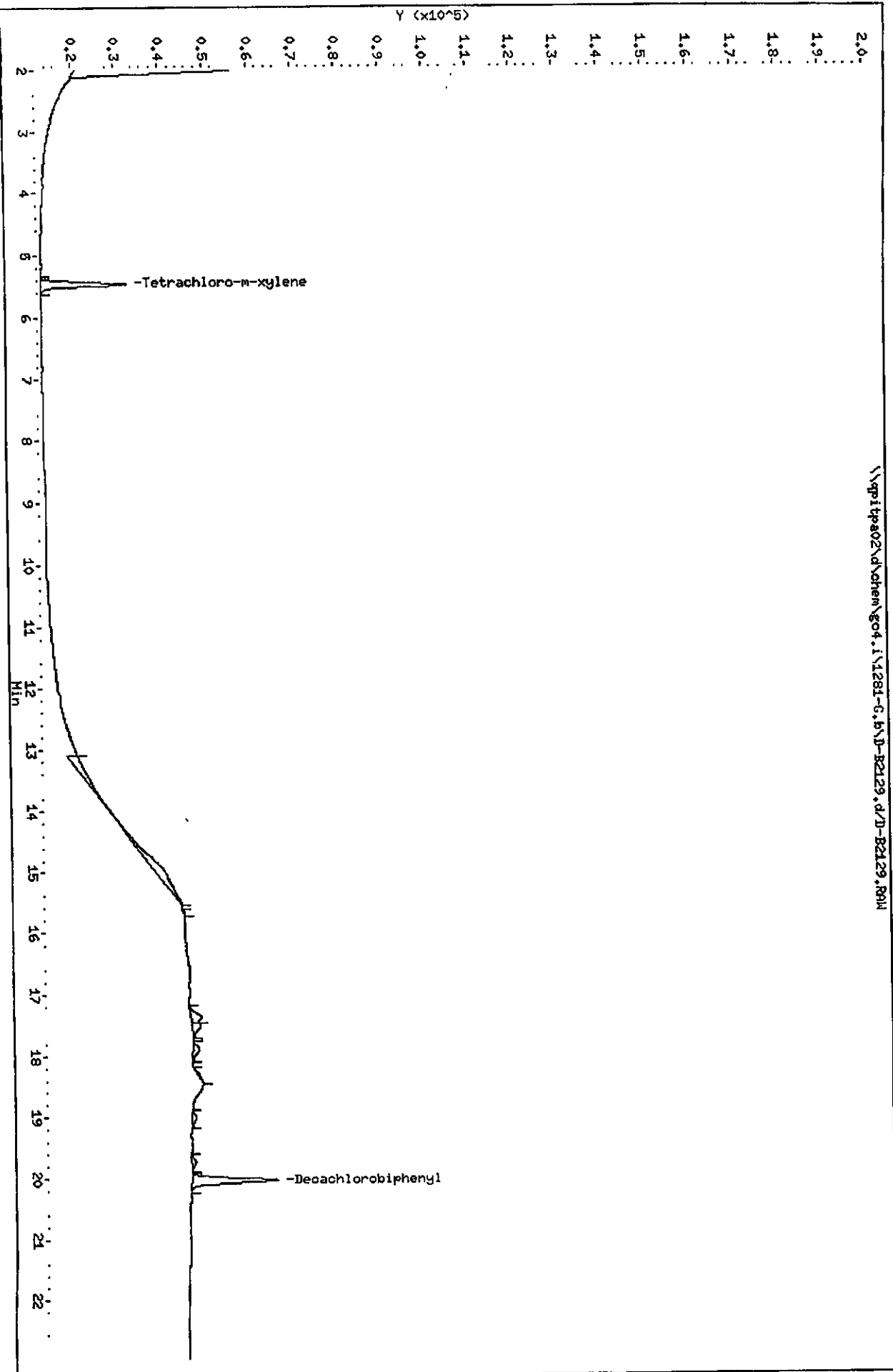
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD				Compound Not Detected.		
30 Toxaphene				Compound Not Detected.		
31 Endosulfan II				Compound Not Detected.		
32 4,4'-DDT				Compound Not Detected.		
33 Endrin aldehyde				Compound Not Detected.		
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor				Compound Not Detected.		
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	20.033	20.046	-0.013	19841	0.02124	0.2124

677

525

Data File: \\p1tpa02\chem\gc4.i\1281-G,b\B2129.d
Date: 28-FEB-2001 20:45
Client ID: PBLK7555
Sample Info: DMH516A, 1281-G,b, PEST, sub, 3,
Volume Injected (uL): 1.0
Column Phase: RTX-1701

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



677 526

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1B260000 555
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 02/23/01
Work Order: DWMV51AC Date Extracted: 02/26/01
Dilution factor: 1 Date Analyzed: 02/28/01
Moisture %: NA

QC Batch: 1057555

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.238	
58-89-9	gamma-BHC (Lindane)	0.248	
50-29-3	4,4'-DDT	0.502	
60-57-1	Dieldrin	0.512	
72-20-8	Endrin	0.502	
76-44-8	Heptachlor	0.242	

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2130.d
Lab Smp Id: DWMV51AC Client Smp ID: LCS7555
Inj Date : 28-FEB-2001 21:11
Operator : 010139 Inst ID: gc4.i
Smp Info : DWMV51AC,1281-G.b,,PEST.sub,,3,
Misc Info : 230148-LCS
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.213	5.233	-0.020	28063	0.02026	0.2026
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	8.833	8.853	-0.020	41756	0.02541	0.2541
10 beta-BHC	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
9 Heptachlor	9.846	9.866	-0.020	33041	0.02424	0.2424
11 delta-BHC	Compound Not Detected.					
13 Aldrin	11.066	11.080	-0.014	31511	0.02401	0.2401
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	14.093	14.106	-0.013	951	0.00046	0.004604(a)
23 Dieldrin	14.260	14.273	-0.013	103239	0.05222	0.5222
26 Endrin	14.800	14.806	-0.006	89121	0.05122	0.5122
29 4,4'-DDD	Compound Not Detected.					

677 528

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2130.d
 Report Date: 01-Mar-2001 09:31

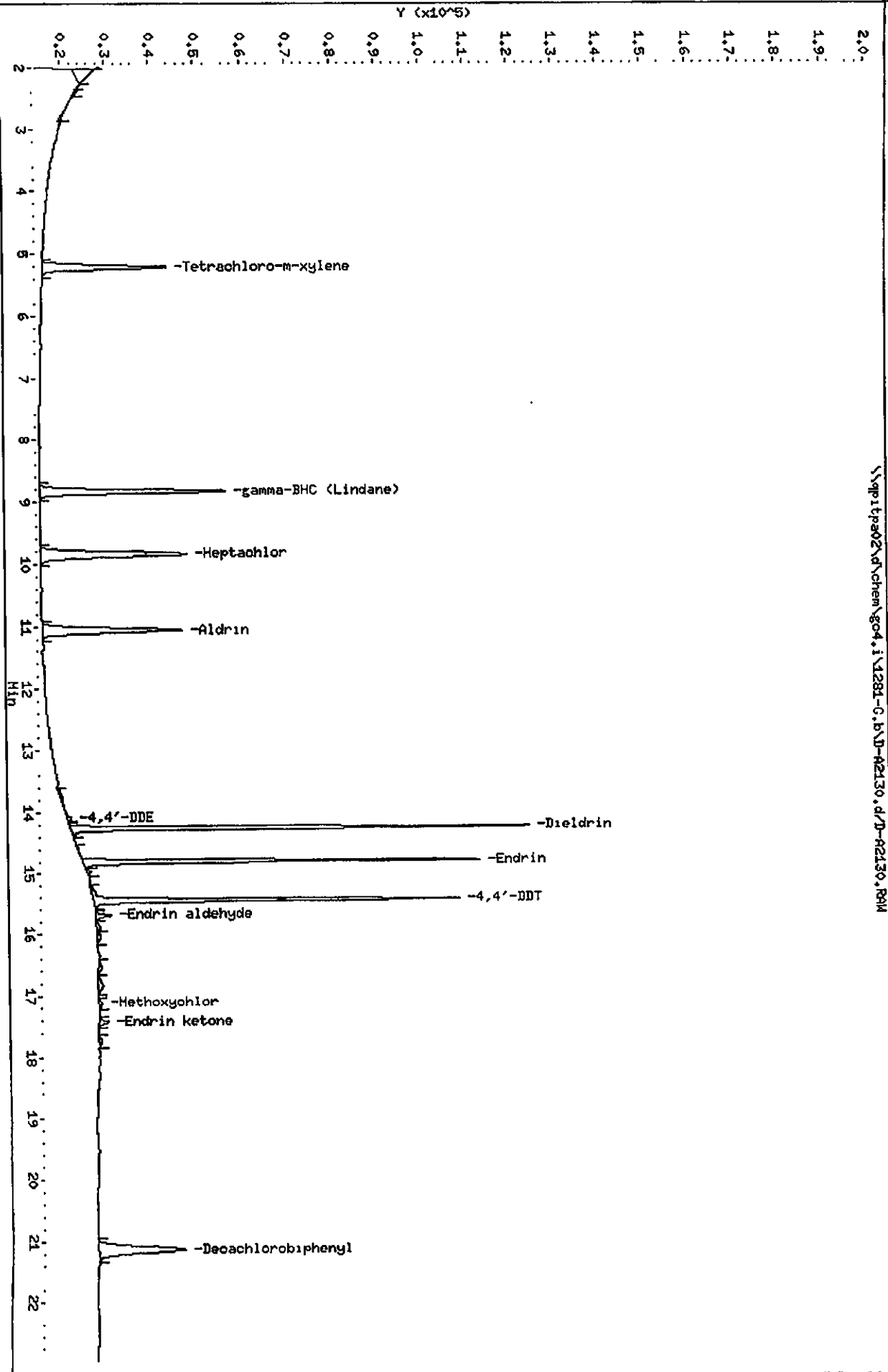
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
30 Toxaphene				Compound Not Detected.		
31 Endosulfan II				Compound Not Detected.		
32 4,4'-DDT	15.433	15.446	-0.013	82393	0.05018	0.5018
33 Endrin aldehyde	15.693	15.700	-0.007	3215	0.00228	0.02278(a)
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor	17.120	17.100	0.020	630	<0.0	0.008969(a)
37 Endrin ketone	17.426	17.433	-0.007	1990	0.00141	0.01411(a)
\$ 38 Decachlorobiphenyl	21.126	21.146	-0.020	19368	0.02001	0.2000

QC Flag Legend

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

Data File: \\ppitp02\chem\gc4.i\1281-G.b\1D-02130.d
Date: 28-FEB-2001 21:11
Client ID: LCS7555
Sample Info: MUHV51AC, 1281-G.b, PEST, sub, 3,
Volume Injected (uL): 1.0
Column Phase: RTX-50

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



677 530

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2130.d
 Report Date: 01-Mar-2001 09:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2130.d
 Lab Smp Id: DWMV51AC Client Smp ID: LCS7555
 Inj Date : 28-FEB-2001 21:11
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWMV51AC,1281-G.b,,PEST.sub,,3,
 Misc Info : 230148-LCS
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.453	5.473	-0.020	20252	0.02044	0.2044
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)	9.586	9.606	-0.020	28364	0.02482	0.2482
10 beta-BHC				Compound Not Detected.		
8 Chlordane				Compound Not Detected.		
9 Heptachlor	10.393	10.413	-0.020	28812	0.02420	0.2420
11 delta-BHC				Compound Not Detected.		
13 Aldrin	11.340	11.353	-0.013	26991	0.02381	0.2381
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	14.373	14.386	-0.013	82405	0.05120	0.5120
26 Endrin	14.706	14.713	-0.007	67992	0.05022	0.5022

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.280	15.286	-0.006	1894	0.00156	0.01565(a)
30 Toxaphene	Compound Not Detected					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.540	15.546	-0.006	63595	0.05062	0.5062
33 Endrin aldehyde	16.106	16.113	-0.007	1427	0.00185	0.01850(a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected					
37 Endrin ketone	17.593	17.606	-0.013	1725	0.00152	0.01517(a)
\$ 38 Decachlorobiphenyl	20.033	20.046	-0.013	18820	0.02014	0.2014

QC Flag Legend

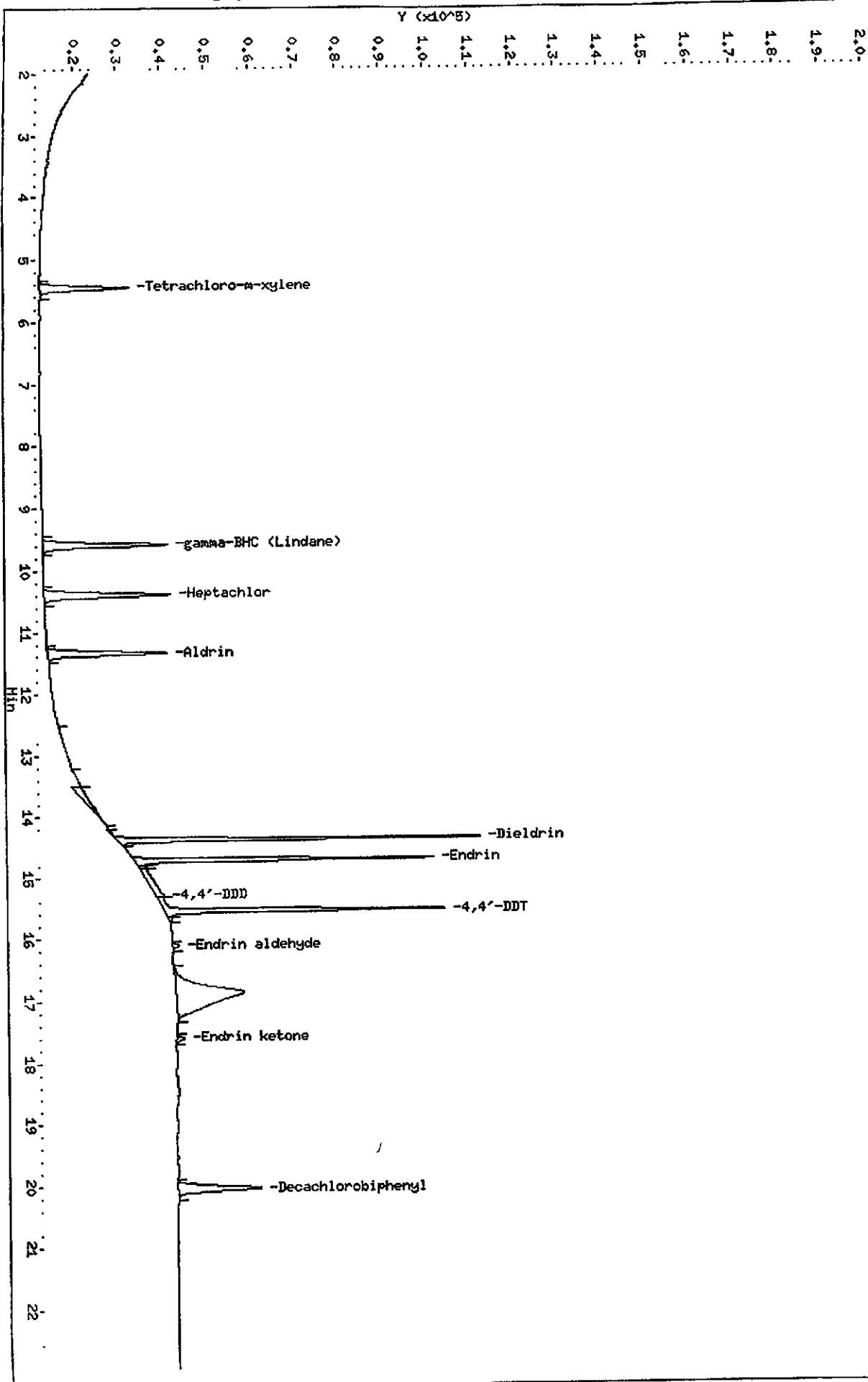
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

677 532

Data File: \\pp1tpa02\chem\g04.i\1281-G.b\B-2130.d
 Date: 28-FEB-2001 21:14
 Client ID: LCS7555
 Sample Info: DMHVS1AC,1281-G.b,,PEST,sub,,3,
 Volume injected (uL): 1.0
 Column phase: RTX-1701

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

\\pp1tpa02\chem\g04.i\1281-G.b\B-2130.d\B-2130.R04



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

677 533

EPA SAMPLE NO.

LCS7555

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWMV51AC

Date(s) Analyzed: 02/28/01 02/28/01

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	8.83	8.80	8.90	0.2541	
	2	9.59	9.56	9.66	0.2482	2.4
Heptachlor	1	9.85	9.82	9.92	0.2424	
	2	10.39	10.36	10.46	0.2420	0.2
Aldrin	1	11.07	11.03	11.13	0.2401	
	2	11.34	11.30	11.40	0.2381	0.8
Dieldrin	1	14.26	14.22	14.32	0.5222	
	2	14.37	14.34	14.44	0.5120	2.0
Endrin	1	14.80	14.76	14.86	0.5122	
	2	14.71	14.66	14.76	0.5022	2.0
4,4' -DDT	1	15.43	15.40	15.50	0.5018	
	2	15.54	15.50	15.60	0.5062	0.9
Endrin ketone	1	17.43	17.38	17.48	0.01411	
	2	17.59	17.56	17.66	0.01517	7.5
Endrin aldehyde	1	15.69	15.65	15.75	0.02278	
	2	16.11	16.06	16.16	0.01850	23.1

677 534

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B260000 555

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWMV51AD

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057555

Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.237	
58-89-9	gamma-BHC (Lindane)	0.250	
50-29-3	4,4'-DDT	0.508	
60-57-1	Dieldrin	0.541	
72-20-8	Endrin	0.521	
76-44-8	Heptachlor	0.242	

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2131.d
Report Date: 01-Mar-2001 09:31

677 535

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2131.d
Lab Smp Id: DWMV51AD Client Smp ID: LCD7555
Inj Date : 28-FEB-2001 21:37
Operator : 010139 Inst ID: gc4.i
Smp Info : DWMV51AD,1281-G.b,, PEST.sub,,3,
Misc Info : 230148-LCD
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081A.m
Meth Date : 01-Mar-2001 09:22 matkol Quant Type: ESTD
Cal Date : 27-FEB-2001 21:28 Cal File: D-A2076.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	5.213	5.233	-0.020	27957	0.02019	0.2019
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	8.840	8.853	-0.013	42503	0.02587	0.2586
10 beta-BHC	Compound Not Detected					
8 Chlordane	Compound Not Detected					
9 Heptachlor	9.853	9.866	-0.013	33283	0.02441	0.2441
11 delta-BHC	Compound Not Detected.					
13 Aldrin	11.066	11.080	-0.014	31695	0.02415	0.2415
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	14.113	14.106	0.007	762	<0.0	0.003689(a)
23 Dieldrin	14.266	14.273	-0.007	106958	0.05410	0.5410
26 Endrin	14.800	14.806	-0.006	97145	0.05583	0.5583
29 4,4'-DDD	Compound Not Detected.					

677 536

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-A2131.d
 Report Date: 01-Mar-2001 09:31

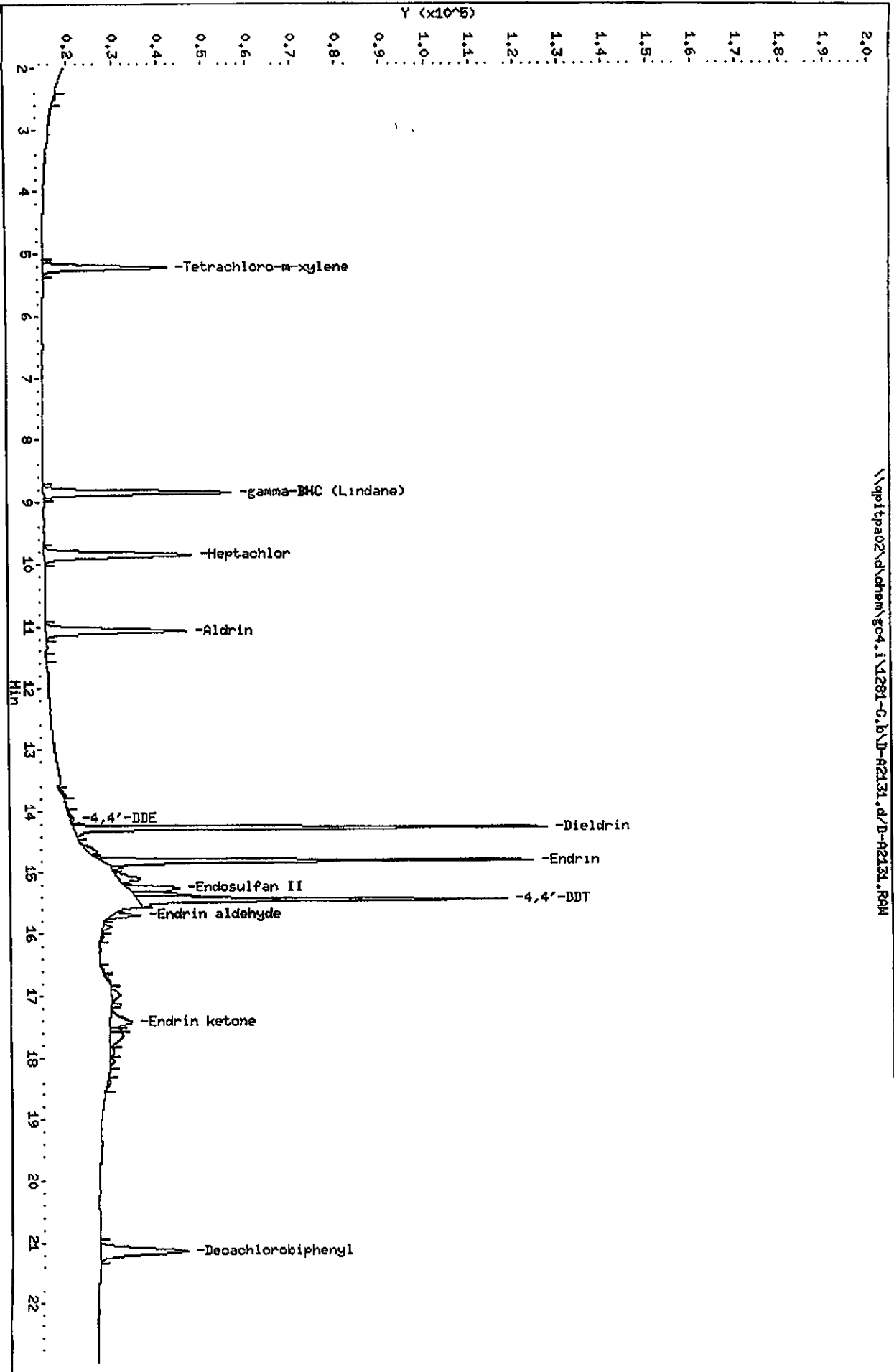
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.240	15 200	0.040	11823	0.00659	0.06586
32 4,4'-DDT	15.440	15 446	-0.006	83368	0.05077	0.5077
33 Endrin aldehyde	15.693	15.700	-0 007	6733	0.00477	0.04772(a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.426	17 433	-0.007	4961	0.00352	0.03517(a)
\$ 38 Decachlorobiphenyl	21.133	21.146	-0.013	19706	0.02035	0.2035

QC Flag Legend

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

Data File: \\pittpa02\chem\gc4.i\1281-G.b\128131.d
 Date : 28-FEB-2001 21:37
 Client ID: LCD7595
 Sample Info: DMV51AD,1281-G.b, PEST.sub,,3,
 Volume Injected (ul): 1.0
 Column phase: RTX-50

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



Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2131.d
 Report Date: 01-Mar-2001 09:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2131.d
 Lab Smp Id: DWMV51AD Client Smp ID: LCD7555
 Inj Date : 28-FEB-2001 21:37
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DWMV51AD,1281-G.b,,PEST.sub,,3,
 Misc Info : 230148-LCD
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\1281-G.b\8081B.m
 Meth Date : 01-Mar-2001 08:54 matkol Quant Type: ESTD
 Cal Date : 27-FEB-2001 21:28 Cal File: D-B2076.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	5.460	5.473	-0.013	19712	0.01989	0.1989
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	9.593	9.606	-0.013	28516	0.02495	0.2495
10 beta-BHC	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.400	10.413	-0.013	28757	0.02416	0.2416
11 delta-BHC	Compound Not Detected.					
13 Aldrin	11.346	11.353	-0.007	26908	0.02374	0.2374
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	14.133	14.126	0.007	1546	<0.0	0.009761(a)
23 Dieldrin	14.380	14.386	-0.006	87553	0.05440	0.5440
26 Endrin	14.713	14.713	0.000	70510	0.05208	0.5208
29 4,4'-DDD	Compound Not Detected					

Data File: \\qpitpa02\d\chem\gc4.i\1281-G.b\D-B2131.d
 Report Date: 01-Mar-2001 09:02

677 539

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
*****	==	=====	=====	=====	=====	=====
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15 420	15.413	0.007	10194	0.00719	0 07188
32 4,4'-DDT	15 540	15.546	-0.006	72963	0.05808	0 5808
33 Endrin aldehyde	Compound Not Detected.					
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	16.580	16.593	-0.013	441	<0.0	0.006767 (a)
37 Endrin ketone	17.600	17 606	-0.006	2002	0.00176	0.01761 (a)
\$ 38 Decachlorobiphenyl	20.040	20 046	-0.006	19016	0.02035	0.2035

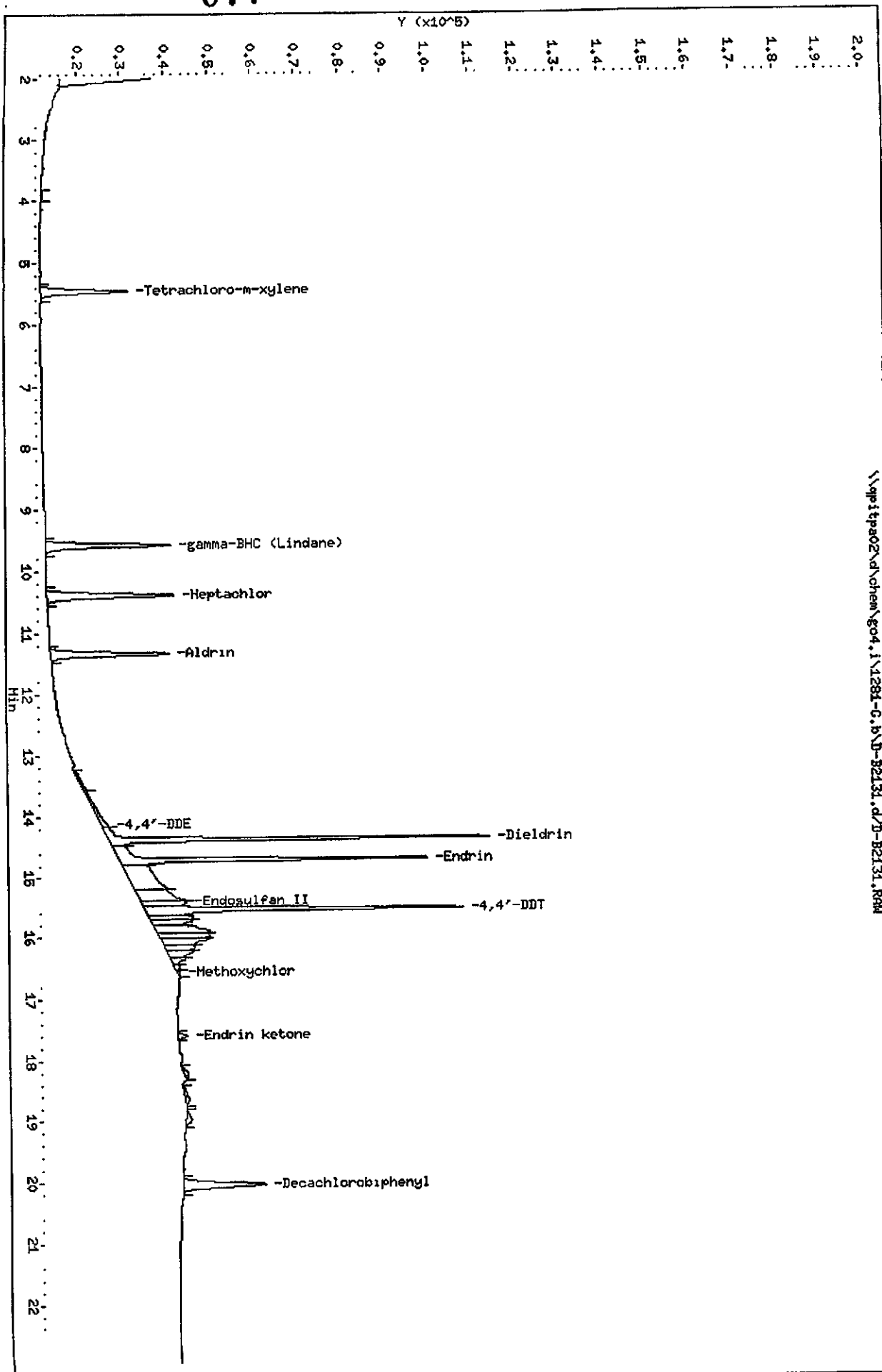
QC Flag Legend

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

677 540

Data File: \\pp1tpa02\chem\gc04.1\1281-G.b\B2131.d
 Date : 28-FEB-2001 21:37
 Client ID: LCD7655
 Sample Info: DMW51RD, 1281-G.b, PEST, sub, 3,
 Volume Injected (uL): 1.0
 Column Phase: RTX-1701

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



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

677 541

EPA SAMPLE NO.

LCD7555

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWMV51AD

Date(s) Analyzed: 02/28/01 02/28/01

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	8.84	8.80	8.90	0.2586	
	2	9.59	9.56	9.66	0.2495	3.6
Heptachlor	1	9.85	9.82	9.92	0.2441	
	2	10.40	10.36	10.46	0.2416	1.0
Aldrin	1	11.07	11.03	11.13	0.2415	
	2	11.35	11.30	11.40	0.2374	1.7
Dieldrin	1	14.27	14.22	14.32	0.5410	
	2	14.38	14.34	14.44	0.5440	0.6
4,4'-DDE	1	14.11	14.06	14.16	0.003689	
	2	14.13	14.08	14.18	0.009761	164.6
Endrin	1	14.80	14.76	14.86	0.5583	
	2	14.71	14.66	14.76	0.5208	7.2
Endosulfan II	1	15.24	15.15	15.25	0.06586	
	2	15.42	15.36	15.46	0.07188	9.1
4,4'-DDT	1	15.44	15.40	15.50	0.5077	
	2	15.54	15.50	15.60	0.5808	14.4

677 542

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCD7555

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1B230148

Lab Sample ID: DWMV51AD

Date(s) Analyzed: 02/28/01 02/28/01

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 ketone	1	17.43	17.38	17.48	0.03517	
	2	17.60	17.56	17.66	0.01761	99.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

677 543

PESTICIDE
MISCELLANEOUS

TBA CLEANUP

JD 2/27/01

PAT B# 1057555

PRB B# 1057556

677 544

STL - Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP43

Start Date	Date Completed	Parameter	Method	Solvent	Surrogate #	Surrogate Vol (mL)	pH	Final Volume (mL)	Sample Volume (mL)	Client ID	Sample ID	Lot Number	Start Date	Solvent Lot	Solvent Mfg	Cleanup Method
2-26-01		Pest/PRB	3510C	MeCl ₃												NA
1	1057555	PRB	3510C	MeCl ₃												NA
2	1057556	PRB	3510C	MeCl ₃												NA
3																NA
4																NA
5																NA
6																NA
7																NA
8																NA
9																NA
10																NA
11																NA
12																NA
13																NA
14																NA
15																NA
16																NA
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92																NA
93																NA
94																NA
95																NA
96																NA
97																NA
98																NA
99																NA
100																NA

Analyst	Extract(s)	Date	Time	Location	Extract(s)	Relinquished	Analyst	Date	Time	Location
Analyst	PRY	2-26-01	23:30	PRY	PRY	2-26-01	23:30	PRY	2-26-01	23:30
Analyst	PRY	2-27-01	08:30	PRY	PRY	2-27-01	08:30	PRY	2-27-01	08:30
Analyst	PRY	2-28-01	08:30	PRY	PRY	2-28-01	08:30	PRY	2-28-01	08:30
Analyst	PRY	2-29-01	08:30	PRY	PRY	2-29-01	08:30	PRY	2-29-01	08:30
Analyst	PRY	2-30-01	08:30	PRY	PRY	2-30-01	08:30	PRY	2-30-01	08:30
Analyst	PRY	2-31-01	08:30	PRY	PRY	2-31-01	08:30	PRY	2-31-01	08:30
Analyst	PRY	3-1-01	08:30	PRY	PRY	3-1-01	08:30	PRY	3-1-01	08:30
Analyst	PRY	3-2-01	08:30	PRY	PRY	3-2-01	08:30	PRY	3-2-01	08:30
Analyst	PRY	3-3-01	08:30	PRY	PRY	3-3-01	08:30	PRY	3-3-01	08:30
Analyst	PRY	3-4-01	08:30	PRY	PRY	3-4-01	08:30	PRY	3-4-01	08:30
Analyst	PRY	3-5-01	08:30	PRY	PRY	3-5-01	08:30	PRY	3-5-01	08:30
Analyst	PRY	3-6-01	08:30	PRY	PRY	3-6-01	08:30	PRY	3-6-01	08:30
Analyst	PRY	3-7-01	08:30	PRY	PRY	3-7-01	08:30	PRY	3-7-01	08:30
Analyst	PRY	3-8-01	08:30	PRY	PRY	3-8-01	08:30	PRY	3-8-01	08:30
Analyst	PRY	3-9-01	08:30	PRY	PRY	3-9-01	08:30	PRY	3-9-01	08:30
Analyst	PRY	3-10-01	08:30	PRY	PRY	3-10-01	08:30	PRY	3-10-01	08:30
Analyst	PRY	3-11-01	08:30	PRY	PRY	3-11-01	08:30	PRY	3-11-01	08:30
Analyst	PRY	3-12-01	08:30	PRY	PRY	3-12-01	08:30	PRY	3-12-01	08:30
Analyst	PRY	3-13-01	08:30	PRY	PRY	3-13-01	08:30	PRY	3-13-01	08:30
Analyst	PRY	3-14-01	08:30	PRY	PRY	3-14-01	08:30	PRY	3-14-01	08:30
Analyst	PRY	3-15-01	08:30	PRY	PRY	3-15-01	08:30	PRY	3-15-01	08:30
Analyst	PRY	3-16-01	08:30	PRY	PRY	3-16-01	08:30	PRY	3-16-01	08:30
Analyst	PRY	3-17-01	08:30	PRY	PRY	3-17-01	08:30	PRY	3-17-01	08:30
Analyst	PRY	3-18-01	08:30	PRY	PRY	3-18-01	08:30	PRY	3-18-01	08:30
Analyst	PRY	3-19-01	08:30	PRY	PRY	3-19-01	08:30	PRY	3-19-01	08:30
Analyst	PRY	3-20-01	08:30	PRY	PRY	3-20-01	08:30	PRY	3-20-01	08:30
Analyst	PRY	3-21-01	08:30	PRY	PRY	3-21-01	08:30	PRY	3-21-01	08:30
Analyst	PRY	3-22-01	08:30	PRY	PRY	3-22-01	08:30	PRY	3-22-01	08:30
Analyst	PRY	3-23-01	08:30	PRY	PRY	3-23-01	08:30	PRY	3-23-01	08:30
Analyst	PRY	3-24-01	08:30	PRY	PRY	3-24-01	08:30	PRY	3-24-01	08:30
Analyst	PRY	3-25-01	08:30	PRY	PRY	3-25-01	08:30	PRY	3-25-01	08:30
Analyst	PRY	3-26-01	08:30	PRY	PRY	3-26-01	08:30	PRY	3-26-01	08:30
Analyst	PRY	3-27-01	08:30	PRY	PRY	3-27-01	08:30	PRY	3-27-01	08:30
Analyst	PRY	3-28-01	08:30	PRY	PRY	3-28-01	08:30	PRY	3-28-01	08:30
Analyst	PRY	3-29-01	08:30	PRY	PRY	3-29-01	08:30	PRY	3-29-01	08:30
Analyst	PRY	3-30-01	08:30	PRY	PRY	3-30-01	08:30	PRY	3-30-01	08:30
Analyst	PRY	3-31-01	08:30	PRY	PRY	3-31-01	08:30	PRY	3-31-01	08:30
Analyst	PRY	4-1-01	08:30	PRY	PRY	4-1-01	08:30	PRY	4-1-01	08:30
Analyst	PRY	4-2-01	08:30	PR						

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\1281-G.SEQ
 Created by : DE11/02/98 on : 2/28/01 08:05
 Edited by : LM02/28/01 on : 3/1/01 08:37
 Description : QUANTERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
 REVIEWED BY:

677 545

Curve

G

Number of Times Edited : 4

1281G.PDF

Sequence File Header Information:

Number of Rows : 70
 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, 1281-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, 1281-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, 1281-G	190-102-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal: Replace	LOWA, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DWHL11AF, 1281-G	220246-26D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DWHL41AA, 1281-G	220246-27		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DWHL61AA, 1281-G	220246-28		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DWHL71AA, 1281-G	220246-29		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DWK9K1AA, 1281-G	220246-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DWK9K1AC, 1281-G	220246-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DWHL91AA, 1281-G	220246-31		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DWHL81AA, 1281-G	220246-30		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DWLF31AC, 1281-G	240132-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DWLF31AF, 1281-G	240132-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DWLF31AG, 1281-G	240132-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DWLF51AC, 1281-G	240132-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DWLF61AC, 1281-G	240132-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DWLGFIAC, 1281-G	240135-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DWLGHIAC, 1281-G	240135-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DWGLL1AC, 1281-G	240135-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DWLRK1AA, 1281-G	240132-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DWLRK1AC, 1281-G	240132-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DWLWD1AA, 1281-G	230278-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DWLWD1AC, 1281-G	230278-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 1281-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, 1281-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, 1281-G b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DWKR1AA, 1281-G	230278-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DWKR2AA, 1281-G	230278-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DWKR3AA, 1281-G	230278-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DWKR4AA, 1281-G	230278-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DWKR5AA, 1281-G	230278-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DWKR6AA, 1281-G	230278-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DWKR7AA, 1281-G	230278-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DWKR8AA, 1281-G	230278-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DWKR9AA, 1281-G	230278-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DWKR10AA, 1281-G	230278-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DWKR11AA, 1281-G	230278-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DWKR12AA, 1281-G	230278-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DWKR13AA, 1281-G	230278-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DWKR14AA, 1281-G	230278-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DWKR15AA, 1281-G	230278-15		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DWKR16AA, 1281-G	230278-16		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DWKR17AA, 1281-G	230278-17		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DWKR18AA, 1281-G	230278-18		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DWKR19AA, 1281-G	230278-19		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DWKR20AA, 1281-G	230278-20		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
60	Sample	DWKR21AA, 1281-G	230278-21		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Sample	DWKR22AA, 1281-G	230278-22		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	DWKR23AA, 1281-G	230278-23		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DWKR24AA, 1281-G	230278-24		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DWKR25AA, 1281-G	230278-25		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DWKR26AA, 1281-G	230278-26		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DWKR27AA, 1281-G	230278-27		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	DWKR28AA, 1281-G	230278-28		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DWKR29AA, 1281-G	230278-29		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Sample	DWKR30AA, 1281-G	230278-30		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DWKR31AA, 1281-G	230278-31		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

60	Std Check	MEDA,1281-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,1281-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,1281-G.b,	190-102-10	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DWJJIAD,1281-G	230148-1	1.000	1.000	1 000	1.000	1.000	1.000	0.000	100 000
64	Sample	DWJJ31AP,1281-G	230148-2	1.000	1 000	1 000	1.000	1.000	1.000	0 000	100 000
65	Sample	DWJKC1AP,1281-G	230148-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DWMV51AA,1281-G	230148-BLK	1 000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
67	Sample	DWMV51AC,1281-G	230148-LCS	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DWMV51AD,1281-G	230148-LCD	1 000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
69	Std Check	MEDA,1281-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Std Check	MEDB,1281-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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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-A2064	D-A2064		D-A2064	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A2065	D-A2065		D-A2065	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A2066	D-A2066		D-A2066	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A2067	D-A2067		D-A2067	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A2068	D-A2068		D-A2068	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A2069	D-A2069		D-A2069	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A2070	D-A2070		D-A2070	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A2071	D-A2071		D-A2071	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A2072	D-A2072		D-A2072	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A2073	D-A2073		D-A2073	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A2074	D-A2074		D-A2074	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A2075	D-A2075		D-A2075	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A2076	D-A2076		D-A2076	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A2077	D-A2077		D-A2077	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A2078	D-A2078		D-A2078	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2079	D-A2079		D-A2079	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2080	D-A2080		D-A2080	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2081	D-A2081		D-A2081	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2082	D-A2082		D-A2082	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2083	D-A2083		D-A2083	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2084	D-A2084		D-A2084	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2085	D-A2085		D-A2085	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2086	D-A2086		D-A2086	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2087	D-A2087		D-A2087	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2088	D-A2088		D-A2088	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2089	D-A2089		D-A2089	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2090	D-A2090		D-A2090	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2091	D-A2091		D-A2091	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2092	D-A2092		D-A2092	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2093	D-A2093		D-A2093	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2094	D-A2094		D-A2094	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2095	D-A2095		D-A2095	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2096	D-A2096		D-A2096	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2097	D-A2097		D-A2097	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2098	D-A2098		D-A2098	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2099	D-A2099		D-A2099	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A2100	D-A2100		D-A2100	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A2101	D-A2101		D-A2101	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2102	D-A2102		D-A2102	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2103	D-A2103		D-A2103	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2104	D-A2104		D-A2104	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2105	D-A2105		D-A2105	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2106	D-A2106		D-A2106	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2107	D-A2107		D-A2107	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2108	D-A2108		D-A2108	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2109	D-A2109		D-A2109	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2110	D-A2110		D-A2110	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2111	D-A2111		D-A2111	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2112	D-A2112		D-A2112	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2113	D-A2113		D-A2113	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2114	D-A2114		D-A2114	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2115	D-A2115		D-A2115	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2116	D-A2116		D-A2116	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2117	D-A2117		D-A2117	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2118	D-A2118		D-A2118	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2119	D-A2119		D-A2119	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2120	D-A2120		D-A2120	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2121	D-A2121		D-A2121	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2122	D-A2122		D-A2122	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A2123	D-A2123		D-A2123	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A2124	D-A2124		D-A2124	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2125	D-A2125		D-A2125	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2126	D-A2126		D-A2126	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2127	D-A2127		D-A2127	-	-	-	LPT1:
65	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2128	D-A2128		D-A2128	-	-	-	LPT1:
66	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2129	D-A2129		D-A2129	-	-	-	LPT1:
67	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2130	D-A2130		D-A2130	-	-	-	LPT1:
68	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A2131	D-A2131		D-A2131	-	-	-	LPT1:
69	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A2132	D-A2132		D-A2132	-	-	-	LPT1:

70 - 1 11 GEN4C GEN4A 122190A INDA D-A2133 D-A2133 D-A2133 - - - LPT1.
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Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\1281-G.SEQ
 Created by : DE11/02/98 on : 2/28/01 08:05
 Edited by : LM02/28/01 on : 3/1/01 08:37
 Description : QUAN TERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
 REVIEWED BY:

Number of Times Edited : 4

CURVE:
 1281.H.PDF

Sequence File Header Information:

Number of Rows : 70
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 1281-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, 1281-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, 1281-G	190-102-9		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-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, 1281-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DWHL11AF, 1281-G	220246-26D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DWHL41AA, 1281-G	220246-27		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DWHL61AA, 1281-G	220246-28		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DWHL71AA, 1281-G	220246-29		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DWK9K1AA, 1281-G	220246-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DWK9K1AC, 1281-G	220246-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DWHL91AA, 1281-G	220246-31		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DWHL81AA, 1281-G	220246-30		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DWLF31AC, 1281-G	240132-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DWLF31AF, 1281-G	240132-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DWLF31AG, 1281-G	240132-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DWLF51AC, 1281-G	240132-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DWLF61AC, 1281-G	240132-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DWLGFIAC, 1281-G	240135-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DWLGHIAC, 1281-G	240135-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DWLGIIAC, 1281-G	240135-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DWLRK1AA, 1281-G	240132-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DWLRK1AC, 1281-G	240132-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DWLWD1AA, 1281-G	230278-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DWLWD1AC, 1281-G	230278-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 1281-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, 1281-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, 1281-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DWKR1AA, 1281-G	230278-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DWKR1AA, 1281-G	230278-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DWKR1AC, 1281-G	230278-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DWKR1AA, 1281-G	230278-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DWKR1AE, 1281-G	230278-4S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DWKR1AF, 1281-G	230278-4D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DWKR21AA, 1281-G	230278-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DWKR31AA, 1281-G	230278-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DWKR41AA, 1281-G	230278-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DWKR61AA, 1281-G	230278-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DWKR81AA, 1281-G	230278-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DWKR1AA, 1281-G	230278-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DWKR1AA, 1281-G	230278-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DWKR1AA, 1281-G	230278-33		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DWKR1AA, 1281-G	230278-35		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DWKR1AA, 1281-G	200199-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DWKR1AA, 1281-G	200199-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DWKR1AA, 1281-G	200199-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DWKR1AC, 1281-G	200199-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DWKR1AD, 1281-G	200199-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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60	Std Check	MEDA,1281-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,1281-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,1281-G b,,	190-102-10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DWJMM1AD,1281-G	230148-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DWJJ31AP,1281-G	230148-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DWJKCIAP,1281-G	230148-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DWNV51AA,1281-G	230148-BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	DWNV51AC,1281-G	230148-LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DWNV51AD,1281-G	230148-LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Std Check	MEDA,1281-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Std Check	MEDB,1281-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-B2064	D-B2064	D-B2064	-	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B2065	D-B2065	D-B2065	N	MED	N	-	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B2066	D-B2066	D-B2066	N	MED	N	-	LPT1:,LP
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B2067	D-B2067	D-B2067	N	LOW	N	-	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B2068	D-B2068	D-B2068	N	MLOW	N	-	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B2069	D-B2069	D-B2069	N	MLOW	N	-	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B2070	D-B2070	D-B2070	N	MLOW	N	-	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B2071	D-B2071	D-B2071	N	MLOW	N	-	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B2072	D-B2072	D-B2072	N	LOW	N	-	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B2073	D-B2073	D-B2073	N	MLOW	N	-	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B2074	D-B2074	D-B2074	N	MLOW	N	-	LPT1:
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B2075	D-B2075	D-B2075	N	MLOW	N	-	LPT1:
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B2076	D-B2076	D-B2076	N	MLOW	N	-	LPT1:
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B2077	D-B2077	D-B2077	-	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B2078	D-B2078	D-B2078	-	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2079	D-B2079	D-B2079	-	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2080	D-B2080	D-B2080	-	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2081	D-B2081	D-B2081	-	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2082	D-B2082	D-B2082	-	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2083	D-B2083	D-B2083	-	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2084	D-B2084	D-B2084	-	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2085	D-B2085	D-B2085	-	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2086	D-B2086	D-B2086	-	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2087	D-B2087	D-B2087	-	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2088	D-B2088	D-B2088	-	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2089	D-B2089	D-B2089	-	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2090	D-B2090	D-B2090	-	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2091	D-B2091	D-B2091	-	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2092	D-B2092	D-B2092	-	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2093	D-B2093	D-B2093	-	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2094	D-B2094	D-B2094	-	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2095	D-B2095	D-B2095	-	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2096	D-B2096	D-B2096	-	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2097	D-B2097	D-B2097	-	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2098	D-B2098	D-B2098	-	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2099	D-B2099	D-B2099	-	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B2100	D-B2100	D-B2100	-	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B2101	D-B2101	D-B2101	-	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2102	D-B2102	D-B2102	-	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2103	D-B2103	D-B2103	-	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2104	D-B2104	D-B2104	-	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2105	D-B2105	D-B2105	-	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2106	D-B2106	D-B2106	-	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2107	D-B2107	D-B2107	-	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2108	D-B2108	D-B2108	-	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2109	D-B2109	D-B2109	-	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2110	D-B2110	D-B2110	-	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2111	D-B2111	D-B2111	-	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2112	D-B2112	D-B2112	-	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2113	D-B2113	D-B2113	-	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2114	D-B2114	D-B2114	-	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2115	D-B2115	D-B2115	-	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2116	D-B2116	D-B2116	-	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2117	D-B2117	D-B2117	-	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2118	D-B2118	D-B2118	-	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2119	D-B2119	D-B2119	-	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2120	D-B2120	D-B2120	-	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2121	D-B2121	D-B2121	-	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2122	D-B2122	D-B2122	-	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B2123	D-B2123	D-B2123	-	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B2124	D-B2124	D-B2124	-	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2125	D-B2125	D-B2125	-	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2126	D-B2126	D-B2126	-	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2127	D-B2127	D-B2127	-	-	-	-	LPT1:
65	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2128	D-B2128	D-B2128	-	-	-	-	LPT1:
66	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2129	D-B2129	D-B2129	-	-	-	-	LPT1:
67	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2130	D-B2130	D-B2130	-	-	-	-	LPT1:
68	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B2131	D-B2131	D-B2131	-	-	-	-	LPT1:
69	-	1	1	GEN4C	GEN4B	122190A	INDA	D-B2132	D-B2132	D-B2132	-	-	-	-	LPT1:

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REQUESTED BY: YUSHINSC

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
3A	DWJJM-1-AD	___	316236	399411	I-09-QJ	C1B230148	001		WATER	0	13 1
3A	DWJJ3-1-AP	___	316237	399411	I-09-QJ	C1B230148	002		WATER	0	13 1
3A	DWJKC-1-AP	___	316238	399411	I-09-QJ	C1B230148	003		WATER	0	13 1

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

P. Yushinski
2-26-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

2-26-01 152
2-26-01 233

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

677 552

PCB DATA

677 553

PCB
QC SUMMARY

677 554

SW846 8082 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1B230148

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1053/IDW/001	616*	98	01
02	DF/24-A/1053/IDW/002	341*	93	01
03	DF/24-A/1053/IDW/003	136*	92	01
04	METHOD BLK. DWMV81AA	98	100	00
05	LCS DWMV81AC	97	99	00
06	LCSD DWMV81AD	98	99	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)
(24-128)

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1B260000

WO #: DWMV81AC

BATCH: 1057556

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	9.46	95	61 - 118	
Aroclor 1260	10.0	10.1	101	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

677 556

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPTT

SDG No:

Lot #: C1B260000

WO #: DWMV81AD

BATCH: 1057556

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	9.49	95	61 - 118	
Aroclor 1260	10.0	10.1	101	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

677 557

BLANK WORKORDER NO.

DWMV81AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A10822.

Lot Number: C1B230148

Matrix: WATER

Extraction Method:

Date Extracted: 02/26/01

Date Analyzed(1): 02/28/01

Date Analyzed(2): N/A

Time Analyzed(1): 10:47

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/1053/IDW/001	DWJJM1AE	02/28/01	N/A
02	DF/24-A/1053/IDW/002	DWJJ31AQ	02/28/01	N/A
03	DF/24-A/1053/IDW/003	DWJKC1AQ	02/28/01	N/A
04	CHECK SAMPLE	DWMV81AC C	02/28/01	N/A
05	DUPLICATE CHECK	DWMV81AD L	02/28/01	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

677 553

PCB
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJUM1AE

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-B/1053/IDW/001

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

677 560

Data File: \\gpitpa02\d\chem\gc8.i\1191.b\H-A10828.D
 Report Date: 28-Feb-2001 13:37

Page 1

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc8.i\1191.b\H-A10828.D
 Lab Smp Id: DWJJM1AE Client Smp ID: DF/24-B/1053/IDW/00
 Inj Date : 28-FEB-2001 12:45
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DWJJM1AE,1191.b
 Misc Info : 230148001
 Comment : 8082 PCB ANALYSIS
 Method : \\gpitpa02\d\chem\gc8.i\1191.b\PCBA.m
 Meth Date : 28-Feb-2001 11:37 eppingerd Quant Type: ESTD
 Cal Date : 19-FEB-2001 16:15 Cal File: H-A10493.D
 Als bottle: 70
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061
 Compound Sublist: PCB.sub
 Sample Matrix: WATER

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

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

		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	1 677 (-0.011)	1117552 0 12326	1.2326		(RM)
8 Aroclor-1221				CAS #: 11104-28-2	

Operator disabled compound identification

14 Aroclor-1232	CAS # 11141-16-5

Operator disabled compound identification.

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	
10 607	10 602 (0 005)		58889	0 01951	0.19512	
36	Aroclor-1260				CAS #: 11096-82-5	

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

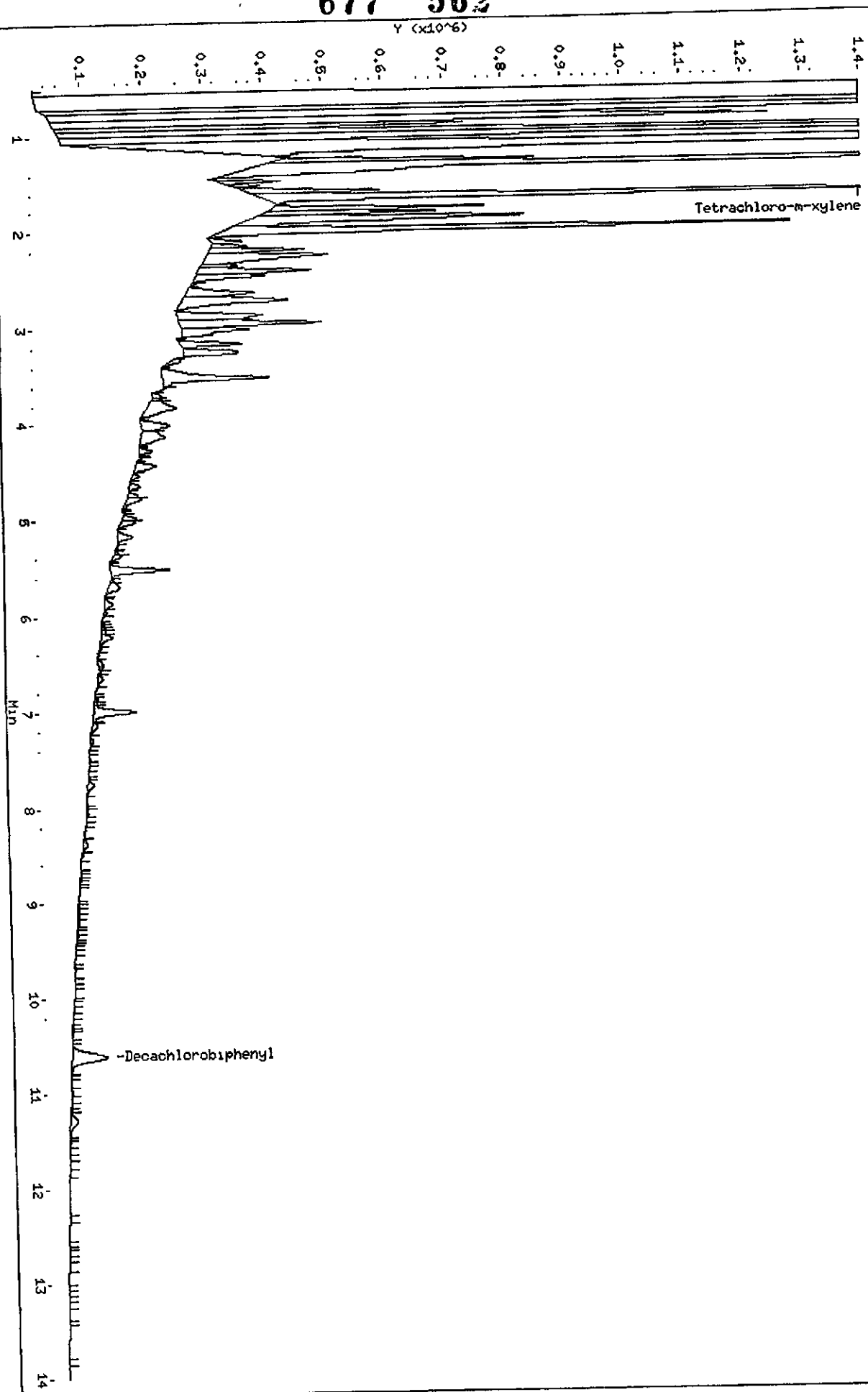
QC Flag Legend

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

Data File: \\qpi1tpa02\dl\chem\gc8.1\1191.b\H-A10828.D
Date: 28-FEB-2001 12:45
Client ID: DF/24-B/1053/IDM/00
Sample Info: DMJH1AE,1191.b
Volume Injected (uL): 1.0
Column phase: DB608

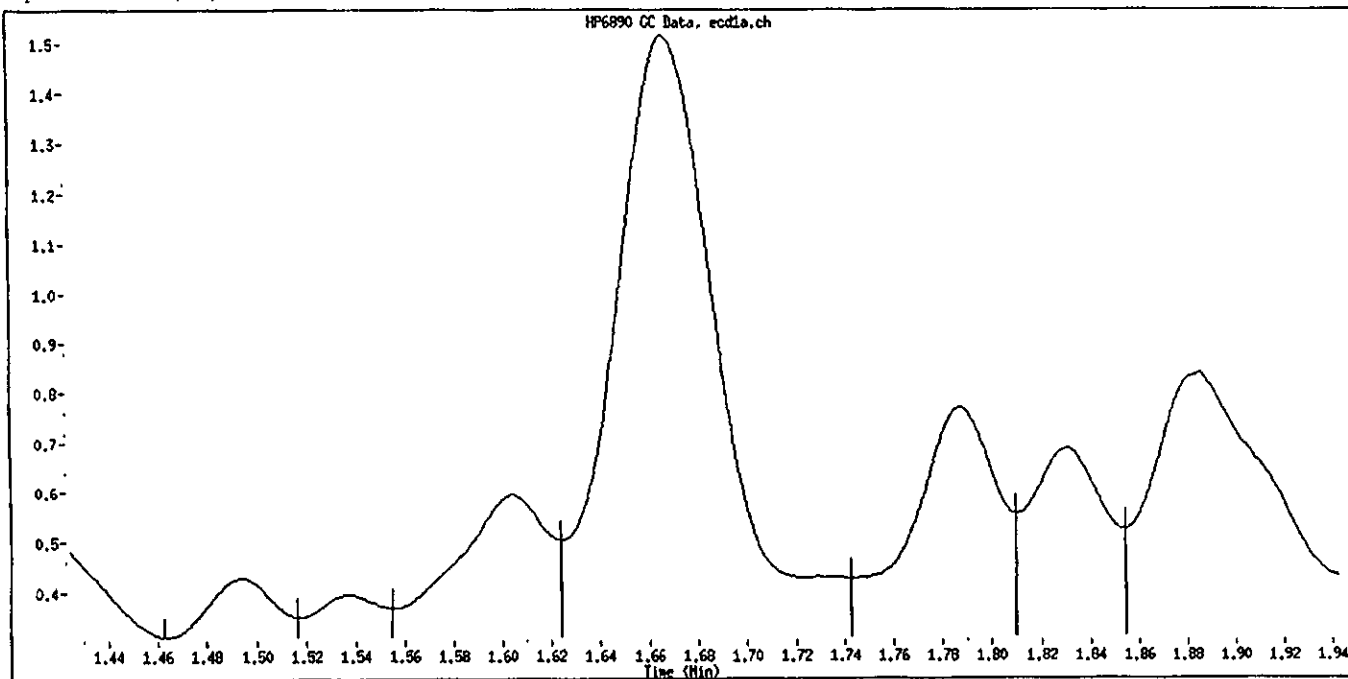
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\qpi1tpa02\dl\chem\gc8.1\1191.b\H-A10828.D

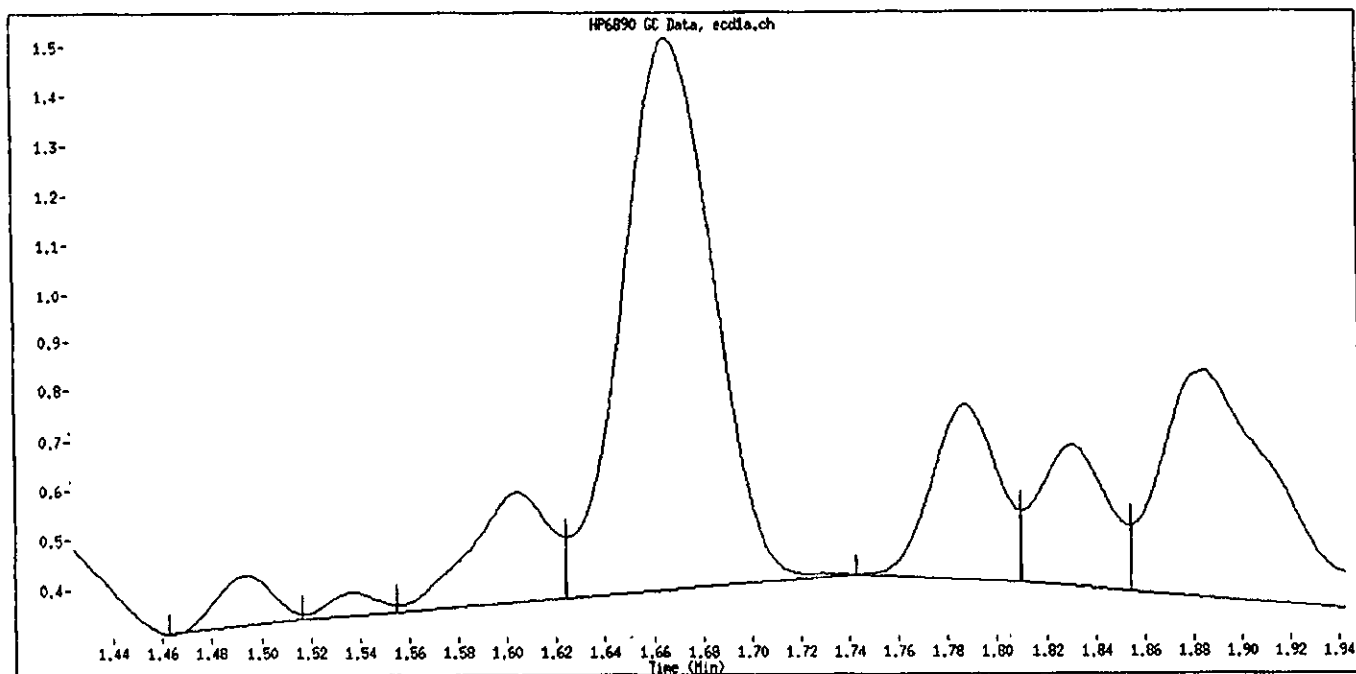


Data File Name H-A10828.D
Inj Date and Time 28-FEB-2001 12 45
Instrument ID gc8 i
Client ID DF/24-B/1053/IDW/00
Compound Name: Tetrachloro-m-xylene
CAS # 877-09-8
Report Date 02/28/2001

677 563



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason Poor Chromatography

677 564

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1B230148 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJJ31AQ

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-A/1053/IDW/002

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

677 565

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\1191.b\H-A10829.D
Lab Smp Id: DWJJ31AQ Client Smp ID: DF/24-A/1053/IDW/00
Inj Date : 28-FEB-2001 13:04
Operator : 010139 Inst ID: gc8.i
Smp Info : DWJJ31AQ,1191.b
Misc Info : 230148002
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\1191.b\PCBA.m
Meth Date : 28-Feb-2001 11:37 eppingerd Quant Type: ESTD
Cal Date : 19-FEB-2001 16:15 Cal File: H-A10493.D
Als bottle: 71
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	666	1.677 (-0.011)	6184109 0 68207	6 8207		(RM)

8 Aroclor-1221 CAS #: 11104-28-2

Operator disabled compound identification.

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

Operator disabled compound identification.

677 566

Data File: \\gpitpa02\d\chem\gc8.i\1191.b\H-A10829.D
 Report Date: 28-Feb-2001 13:38

Page 2

		CONCENTRATIONS					
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
15 Aroclor-1242			CAS #: 53469-21-9				
Peaks not detected for Quant. or Qual. signal(s).							

20 Aroclor-1016			CAS # 12674-11-2				
Operator disabled compound identification.							

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	602	10 602 (0 000)	56342	0.01867	0	18668	

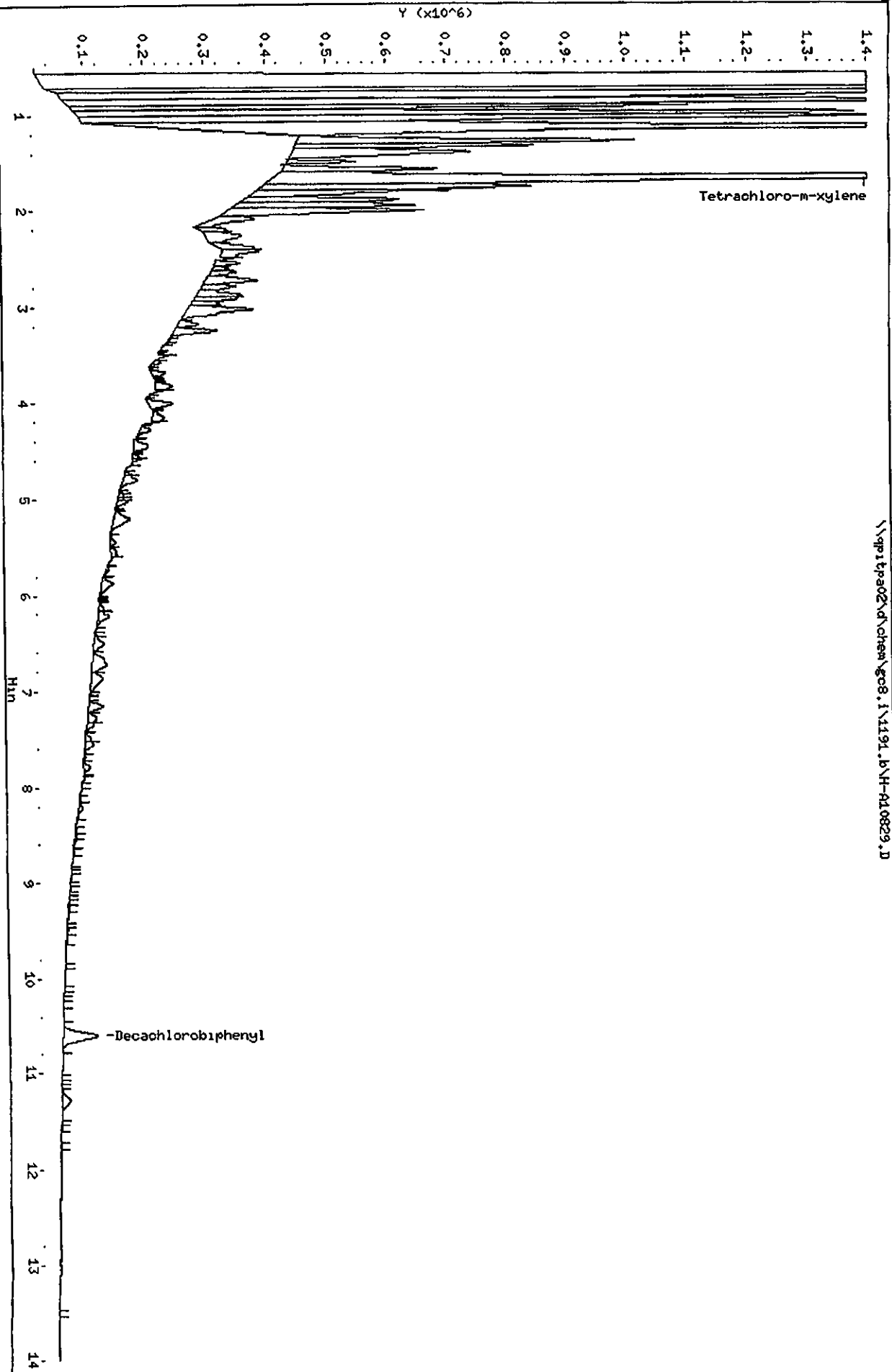
36 Aroclor-1260			CAS #. 11096-82-5				
Peaks not detected for Quant. or Qual. signal(s).							

QC Flag Legend

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

Data File: \\pp1tpa02\chem\gc8.1\1191.b\H-A10829.D
Date: 28-FEB-2001 13:04
Client ID: DF/24-R/1053/IDM/00
Sample Info: DMJ314Q.1191.b
Volume Injected (uL): 1.0
Column phase: DB608

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



677 568

Data File Name: H-A10829.D

Inj Date and Time: 28-FEB-2001 13 04

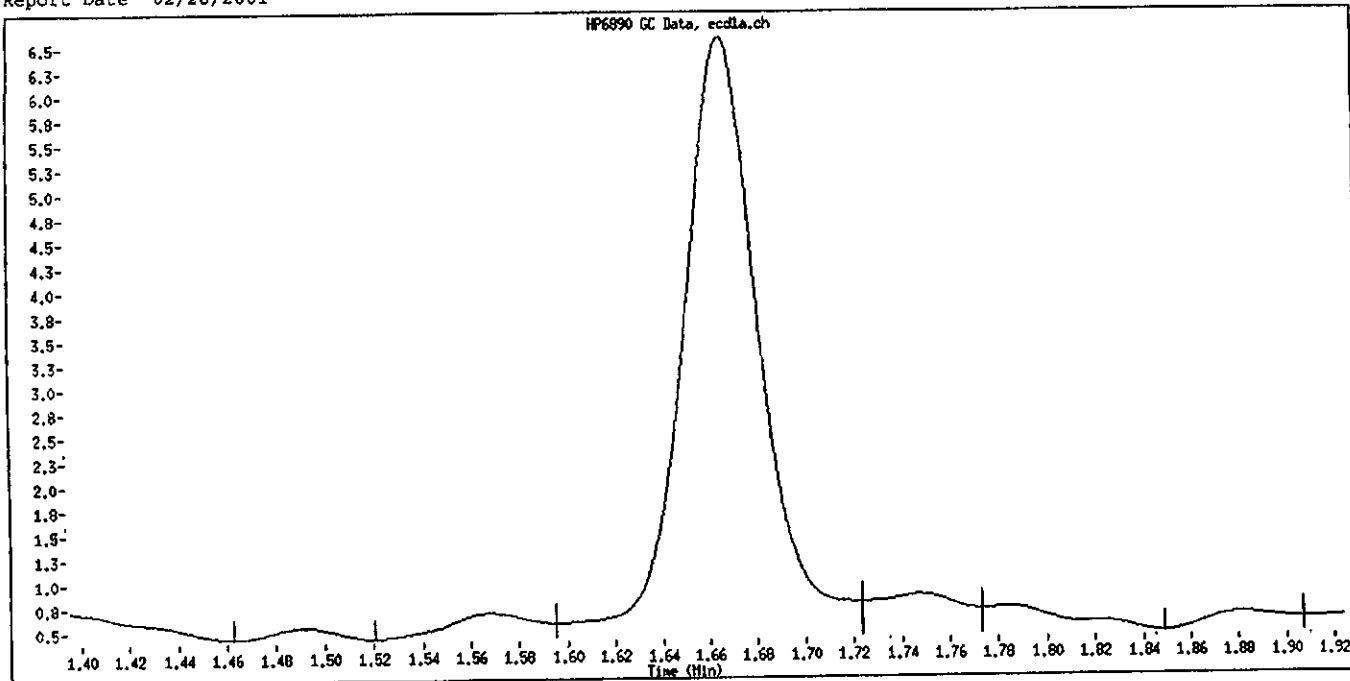
Instrument ID: gc8 i

Client ID DF/24-A/1053/IDW/00

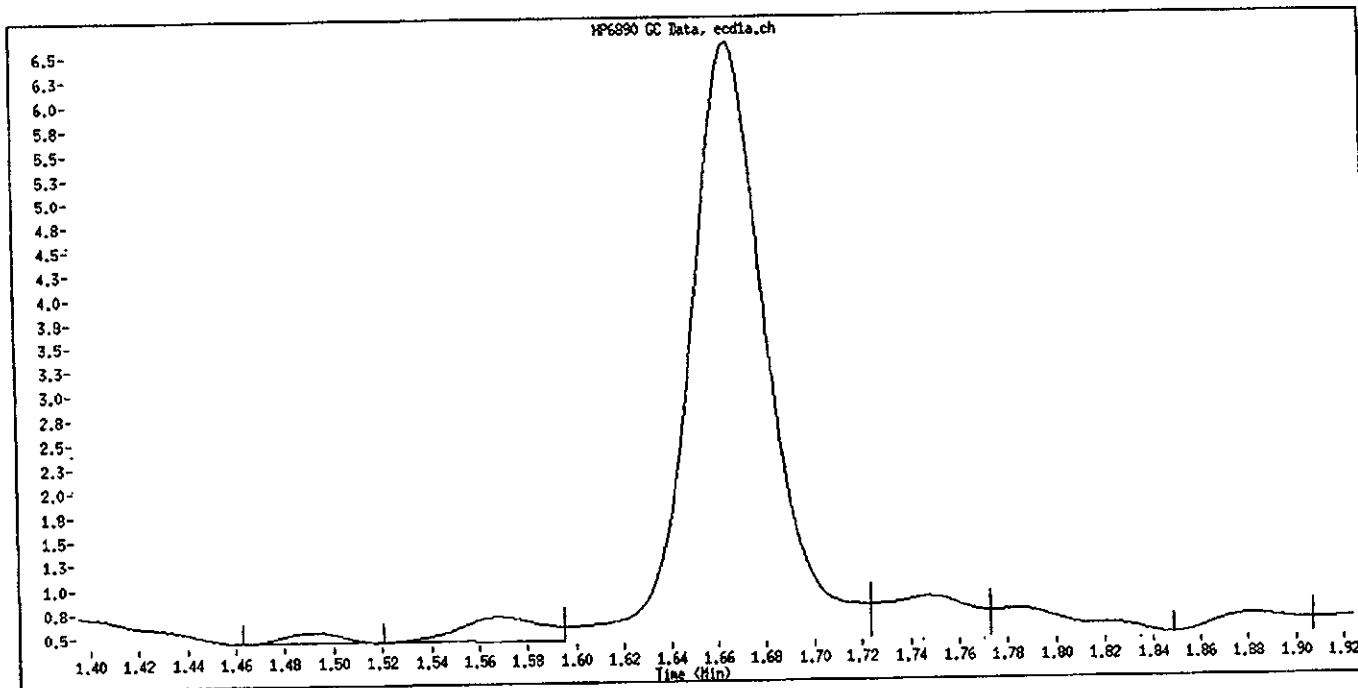
Compound Name Tetrachloro-m-xylene

CAS # 877-09-8

Report Date 02/28/2001



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

Lab Sample ID: C1B230148 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 02/23/01

Work Order: DWJKC1AQ

Date Extracted: 02/26/01

Dilution factor: 1

Date Analyzed: 02/28/01

Moisture %: NA

QC Batch: 1057556

Client Sample Id: DF/24-A/1053/IDW/003

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

677 570

Data File: \\qpitpa02\d\chem\gc8.i\1191.b\H-A10830.D
 Report Date: 28-Feb-2001 14:58

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\1191.b\H-A10830.D
 Lab Smp Id: DWJKC1AQ Client Smp ID: DF/24-A/1053/IDW/00
 Inj Date : 28-FEB-2001 13:24 Inst ID: gc8.i
 Operator : 010139
 Smp Info : DWJKC1AQ,1191.b
 Misc Info : 230148003
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\1191.b\PCBA.m
 Meth Date : 28-Feb-2001 11:37 eppingerd Quant Type: ESTD
 Cal Date : 19-FEB-2001 16:15 Cal File: H-A10493.D
 Als bottle: 72
 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			TARGET RANGE	RATIO
RT	EXP RT DLT RT	RESPONSE (ng)	(ug/L)				
..	*****	*****	*****			*****	*****
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8			
1 670	1 677 (-0.007)	246503	0.02719	0.27188			

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

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

677 571

		CONCENTRATIONS					
		ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO	
**	*****	*****	*****	*****	*****	*****	*****
15 Aroclor-1242			CAS # 53469-21-9				
Peaks not detected for Quant. or Qual. signal(s)							

20 Aroclor-1016			CAS # 12674-11-2				
Qualifier signal(s) failed ratio test.							

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	596	10.602	(-0.006)	55501	0 01839	0.18389	

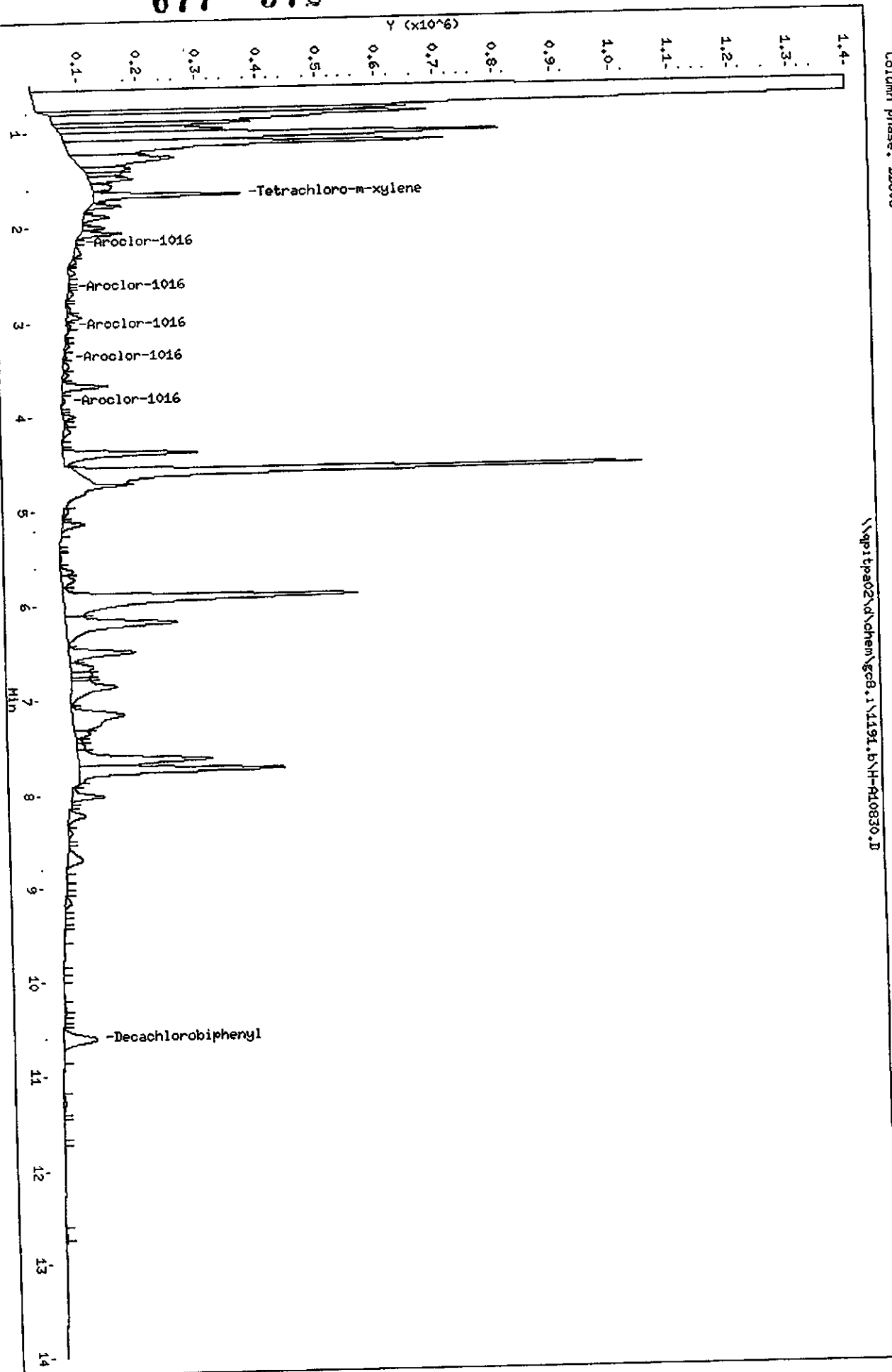
36 Aroclor-1260			CAS #: 11096-82-5				
Peaks not detected for Quant. or Qual. signal(s).							

677 572

Data File: \\p1tpa02\chem\ec8.1\1191.b\H-A10830.D
 Date: 28-FEB-2001 13:24
 Client ID: DF/24-A/1053/IDM/00
 Sample Info: DMKCLAQ.1191.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: ec8.1
 Operator: 010139
 Column diameter: 0.53

\\p1tpa02\chem\ec8.1\1191.b\H-A10830.D



FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE