



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 664

Part II of II

664 920

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

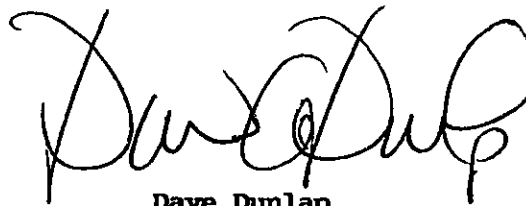
Dunn Field, Def Depot Memphis

Lot #: C0G200210

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

August 2, 2000

664 921

**CASE NARRATIVE
UXB International Inc.
Dunn Field**

LOT # C0G200210

Sample Receiving:

STL Pittsburgh received one sample on July 20, 2000 in good condition and within the proper temperature range.

Volatiles:

There were no problems associated with the analysis.

Semivolatiles:

There were no problems associated with the analysis.

Pesticides:

The form 8 does not reflect the updated retention times. The retention times that are flagged as being out of the window are actually within the windows.

PCBs:

There were no problems associated with the analysis.

Herbicides:

There were no problems associated with the analysis.

Metals:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

664 922

COG200210

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
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

664 923

COG200210

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DGJ6M	001	DF/S1/201/WA/002	07/19/00	10:30

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.



Quanterra, Inc. - Pittsburgh PA Lab
 450 William Pitt Way
 Pittsburgh PA 15238

Chain of Custody Record

664 924

Chain Of Custody Number

67826

Date 7/19/00

Lab Number

Page 1 of 1

Analysis

Project Manager Jim Thoren
 Telephone Number (Area Code)/Fax Number (701) 745-4999/4280
 Site Contact Chris Rose
 Carrier/Waybill Number

Client WXB International
 Address Residence Inn Rentals, 6041 Old Poplar Pk
 City Memphis State TN Zip Code 38119
 Project Name Duan Field

Contract/Purchase Order/Quote No

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt
					Type	No.		
DE/SI/201/WA/002	7/19/00	1030	WATER	40 ml	Vial	2	HCL	
				1 liter	Glass	2	None	
				1 liter	Glass	2	None	
				500 ml	Plastic	1	HNO3	
				500 ml	Plastic	1	NaOH	
				500 ml	Plastic	1	Mg OH/ZnAc	
				250 ml	Plastic	1	None	
				202	Glass	1	None	

Special Instructions

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Archive For _____ Months

Turn Around Time Required
 Normal Rush

Sample Disposal
 Return To Client Disposal By Lab Project Specific (Specify)

1. Relinquished By Chris Rose Date 7/19/00 Time 1200
 2. Relinquished By _____ Date _____ Time _____
 3. Relinquished By _____ Date _____ Time _____

1. Received By [Signature] Date 7/20/00 Time 0945
 2. Received By _____ Date _____ Time _____
 3. Received By _____ Date _____ Time _____

Comments

Cooler Receipt Form
STL Pittsburgh

Client: UXB Project: _____ Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 7/20/00

Coolers Opened and Unpacked on: 7/20/00 By: [Signature]
(Signature)

STL Pittsburgh Lot Number: 06200210

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

Explain any discrepancies: _____

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

FedEx USA Airbill

FedEx Tracking Number

822525868609

1 From: HP/SHD Date: 11/15/99

Sender's Name: Chris Rose Phone: 901 745-4999

Company: UXB Int'l

Address: Residence Inn 14013 & 1411 Old Bolar PK Dist./Post Office

City: Memphis State: TN ZIP: 38119

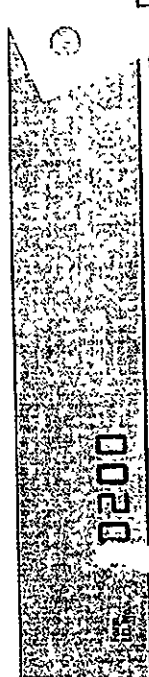
2 Your Internal Billing Reference

3 To Recipient's Name: Rusty Vincine Phone: 412 220-2091

Company: Severn Trent

Address: 450 William Pitt Way We cannot deliver to P.O. boxes or P.O. ZIP codes.

City: Pittsburgh State: PA ZIP: 15238 Dist./Post Office



4a Express Fed-Ex Overnight FedEx Standard Overnight FedEx First Overnight Packages up to 15, delivery commitment may be later in some areas. Packages over 150 lbs. FedEx First Overnight Earliest next business morning delivery to select locations.

Service FedEx Express Saver* FedEx 2Day Freight FedEx 3Day Freight Other Pkg. Includes FedEx Box, FedEx Tube and customer A/R. * Declared Value \$500

4b SUNDAY Delivery Available for FedEx Priority Overnight to select ZIP codes. HOLD Weekday at FedEx Location for pickup with FedEx First Overnight. HOLD Saturday at FedEx Location for pickup with FedEx First Overnight. Includes FedEx address in Section 3.

4c Yes No. Hazardous materials packages? (Yes/No must be checked). Yes No. Shipper's Declaration required. Yes No. Shipper's Declaration not required. Dangerous Goods cannot be shipped in FedEx packages.

4d No Yes. Dry Ice. Dry Ice, I, II, III, IV. Dry Ice. Dry Ice, I, II, III, IV. Cargo Aircraft Only. Other Recip. Acct. No. Credit Card Cash/Check

Payment Bill to: Sender Recipient Third Party Credit Card Cash/Check

Total Packages: 1 Total Weight: 62 Total Declared Value: \$ 00

8 Release Signature: [Signature] Your liability is limited to \$100 unless you declare a higher value. See back for details. Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims. Questions? Call 1-800-Go-FedEx (800-463-3339). Visit our Web site at www.fedex.com. Rev. Dec 1999. The 15201-10-0150-00 FedEx Form 0114. ©FEDEX 000

360

664 929

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

664 931

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: COG200210 001

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

Sample WT/Vol: 5 / mL Date Received: 07/20/00

Work Order: DGJ6M101 Date Extracted: 07/21/00

Dilution factor: 1 Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

Client Sample Id: DF/S1/201/WA/002

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

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: COG200210 001

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

Sample WT/Vol: 5 / mL Date Received: 07/20/00

Work Order: DGJ6M101 Date Extracted: 07/21/00

Dilution factor: 1 Date Analyzed: 07/21/00

Moisture %: NA QC Batch: 0203151

Client Sample Id: DF/S1/201/WA/002

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

FORM I

664 933

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G210000 151

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/20/00

Work Order: DGKG3102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	42.6	
108-90-7	Chlorobenzene	41.0	
75-35-4	1,1-Dichloroethene	41.6	
108-88-3	Toluene	44.0	
79-01-6	Trichloroethene	40.8	

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	104	98	92	96	00
02	DF/S1/201/WA/002	99	89	87	91	00
03	METHOD BLK. DGKG3101	94	90	81	86	00
04	LCS DGKG3102	104	97	91	96	00
05	LAB MS/MSD D	105	97	91	95	00
06	LAB MS/MSD S	103	94	90	97	00

SURROGATES

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

QC LIMITS

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

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

FORM II

664 935

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G210000

WO #: DGKG3102

BATCH: 0203151

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	41.6	83	65- 119	
Trichloroethene	50.0	40.8	82	80- 122	
Benzene	50.0	42.6	85	79- 116	
Toluene	50.0	44.0	88	76- 119	
Chlorobenzene	50.0	41.0	82	81- 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200133

WO #: DGHAR10U

BATCH: 0203151

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Trichloroethene	50.0	ND	39.5	79	58- 141	
1,1-Dichloroethene	50.0	ND	41.5	83	57- 138	
Benzene	50.0	ND	41.8	84	73- 123	
Toluene	50.0	ND	41.2	82	67- 129	
Chlorobenzene	50.0	ND	38.8	78	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

664 937

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200133

WO #: DGHAR10V

BATCH: 0203151

COMPOUND	SPIKE	MSD	MSD	QC LIMITS		QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD REC	
1,1-Dichloroethene	50.0	43.2	86	4.0	20	57- 138
Trichloroethene	50.0	41.8	84	5.5	20	58- 141
Toluene	50.0	46.0	92	11	20	67- 129
Benzene	50.0	44.0	88	5.1	20	73- 123
Chlorobenzene	50.0	43.0	86	10	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:

FORM III

SW846 8260B METHOD BLANK SUMMARY

DGKG3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: VB30722.D

Lot Number: COG200210

Date Analyzed: 07/21/00

Time Analyzed: 07:55

Matrix: WATER

Date Extracted: 07/21/00

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	LAB MS/MSD	DGHAR10U S	3072106.D	07/21/00	10:28
02	LAB MS/MSD	DGHAR10V D	3072107.D	07/21/00	10:54
03	INTRA-LAB QC	DGHAR101	3072103.D	07/21/00	09:12
04	DF/S1/201/WA/002	DGJ6M101	3072108.D	07/21/00	11:20
05	CHECK SAMPLE	DGKG3102 C	3072105.D	07/21/00	10:03
06					
07					
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26					
27					
28					
29					
30					

COMMENTS:

664 939

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G210000 151

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/20/00

Work Order: DGKG3101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

Client Sample Id: INTRA-LAB BLANK

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

FORM I

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
 Matrix: (soil/water) WATER Lab Sample ID: COG210000 151
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
 Sample WT/Vol: 5 / mL Date Received: 07/20/00
 Work Order: DGKG3101 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/21/00
 Moisture %: NA
 Client Sample Id: INTRA-LAB BLANK QC Batch: 0203151

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: COG200210

Lab File ID (Standard): 1C30721

Date Analyzed: 07/21/00

Instrument ID: HP3

Time Analyzed: 0700

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	190632	9.88	269139	12.20	680682	6.76
UPPER LIMIT	381264	10.08	538278	12.40	1361364	6.96
LOWER LIMIT	95316	9.68	134570	12.00	340341	6.56
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	180677	9.87	267855	12.20	694615	6.76
02 INTRA-LAB CH	170757	9.88	244327	12.20	661246	6.76
03 DF/S1/201/WA	169334	9.88	235649	12.20	664481	6.76
04						
05						
06						
07						
08						
09						
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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: COG200210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

Client Sample Id: DF/S1/201/WA/002

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	11		
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	5.6		J
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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G200210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

Client Sample Id: DF/S1/201/WA/002

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

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G200210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

Client Sample Id: DF/S1/201/WA/002

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

FORM I

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
 Matrix: (soil/water) WATER Lab Sample ID: COG210000 319
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 07/20/00
 Work Order: DGL2M102 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: NA
 Client Sample Id: CHECK SAMPLE QC Batch: 0203319

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	34.5	Q
59-50-7	4-Chloro-3-methylphenol	52.6	
95-57-8	2-Chlorophenol	48.8	
106-46-7	1,4-Dichlorobenzene	32.0	
121-14-2	2,4-Dinitrotoluene	39.5	
100-02-7	4-Nitrophenol	62.1	
621-64-7	N-Nitrosodi-n-propylamine	30.0	
87-86-5	Pentachlorophenol	66.5	
108-95-2	Phenol	47.1	
129-00-0	Pyrene	42.8	
120-82-1	1,2,4-Trichlorobenzene	33.1	

664 947

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	69	59	69	65	47	83	00
02	DF/S1/201/WA/002	78	76	79	96	65	100	00
03	METHOD BLK. DGL2M101	71	74	75	93	68	84	00
04	LCS DGL2M102	63	66	67	92	63	75	00
05	LAB MS/MSD D	44	27	41	37	22	58	00
06	LAB MS/MSD S	46	30	41	37	24	60	00

SURROGATES

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

QC LIMITS

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

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COG210000

WO #: DGL2M102

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	47.1	63	10- 131	
2-Chlorophenol	75.0	48.8	65	19- 124	
1,4-Dichlorobenzene	50.0	32.0	64	28- 110	
N-Nitrosodi-n-propylamine	50.0	30.0	60	30- 115	
1,2,4-Trichlorobenzene	50.0	33.1	66	31- 110	
4-Chloro-3-methylphenol	75.0	52.6	70	29- 124	
Acenaphthene	50.0	34.5	69	39- 118	
4-Nitrophenol	75.0	62.1	83	19- 144	
Pentachlorophenol	75.0	66.5	89	10- 140	
Pyrene	50.0	42.8	86	46- 130	
2,4-Dinitrotoluene	50.0	39.5	79	47- 131	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM4105

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Phenol	75.0	ND	22.2	30	10- 131	
2-Chlorophenol	75.0	ND	27.7	37	19- 124	
1,4-Dichlorobenzene	50.0	ND	20.4	41	18- 110	
N-Nitrosodi-n-propylamine	50.0	ND	15.6	31	18- 115	
1,2,4-Trichlorobenzene	50.0	ND	20.3	41	22- 110	
4-Chloro-3-methylphenol	75.0	ND	35.0	47	21- 124	
Acenaphthene	50.0	ND	24.5	49	26- 118	
4-Nitrophenol	75.0	ND	36.5	49	10- 145	
2,4-Dinitrotoluene	50.0	ND	31.8	64	31- 131	
Pentachlorophenol	75.0	ND	49.9	66	10- 140	
Pyrene	50.0	ND	31.6	63	27- 138	

NOTES (S) :

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM4106

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Phenol	75.0	20.2	27	9.6	43	10- 131	
2-Chlorophenol	75.0	27.0	36	2.4	43	19- 124	
1,4-Dichlorobenzene	50.0	20.2	40	0.93	36	18- 110	
N-Nitrosodi-n-propylamine	50.0	14.8	30	5.8	36	18- 115	
1,2,4-Trichlorobenzene	50.0	20.3	41	0.15	37	22- 110	
4-Chloro-3-methylphenol	75.0	33.0	44	6.0	55	21- 124	
Acenaphthene	50.0	24.6	49	0.16	35	26- 118	
4-Nitrophenol	75.0	33.4	44	9.0	34	10- 145	
2,4-Dinitrotoluene	50.0	31.2	62	2.2	32	31- 131	
Pentachlorophenol	75.0	47.3	63	5.4	56	10- 140	
Pyrene	50.0	30.7	61	2.9	31	27- 138	

NOTES (S) :

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

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

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

DGL2M101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0725014.

Lot Number: C0G200210

Date Analyzed: 07/25/00

Time Analyzed: 12:44

Matrix: WATER

Date Extracted: 07/21/00

GC Column: DB5MS ID: .25

Extraction Method: 3520C

Instrument ID: 71

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DGJM4104	D0725005.	07/25/00	17:47
02	LAB MS/MSD	DGJM4105 S	D0725006.	07/25/00	18:16
03	LAB MS/MSD	DGJM4106 D	D0725007.	07/25/00	18:44
04	DF/S1/201/WA/002	DGJ6M102	S0725018.	07/25/00	14:51
05	CHECK SAMPLE	DGL2M102 C	S0725015.	07/25/00	13:16
06					
07					
08					
09					
10					
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28					
29					
30					

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: COG210000 319
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00
Work Order: DGL2M101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/25/00
Moisture %: NA

QC Batch: 0203319

Client Sample Id: INTRA-LAB BLANK

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

FORM I

UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: COG210000 319

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

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGL2M101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

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

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G210000 319

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGL2M101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

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 I

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: COG200210

Lab File ID (Standard): S0725CC1

Date Analyzed: 07/25/00

Instrument ID: 71

Time Analyzed: 1213

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	87324	4.60	325222	6.02	181226	8.88
UPPER LIMIT	174648	5.10	650444	6.52	362452	9.38
LOWER LIMIT	43662	4.10	162611	5.52	90613	8.38
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	85814	4.60	330103	6.04	179203	8.90
02 INTRA-LAB CH	84101	4.60	314752	6.03	170903	8.89
03 DF/S1/201/WA	82153	4.59	309150	6.02	170029	8.88
04						
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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.

664 957

PESTICIDE SUMMARY

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: COG200210 001

Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00

Work Order: DGJ6M103 Date Extracted: 07/21/00

Dilution factor: 1 Date Analyzed: 07/27/00

Moisture %: NA QC Batch: 0203469

Client Sample Id: DF/S1/201/WA/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	0.050	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	0.0049	J P
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

FORM I

664 959

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: COG210000 469

Sample WT/Vol: 1000 / mL
Work Order: DGM9V102
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/27/00

QC Batch: 0203469

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
309-00-2	Aldrin	0.217		
58-89-9	gamma-BHC (Lindane)	0.221		
50-29-3	4,4'-DDT	0.450		
60-57-1	Dieldrin	0.458		
72-20-8	Endrin	0.417		
76-44-8	Heptachlor	0.210		

2E
WATER PESTICIDE SURROGATE RECOVERY

664 960

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C0G200210
 GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 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	PBLK1	88	90	92	58			1
02	LCS1	86	88	89	57			1
03	DF/S1/201/WA	82	102	87	91			0
04								
05								
06								
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08								
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30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene *DE (20-141) 39-130*
 S2 (DCB) = Decachlorobiphenyl *DE (52-130) 10-147*

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

664 961

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COG210000

WO #: DGM9V102

BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.221	88	49 - 137	
Heptachlor	0.250	0.210	84	57 - 124	
Aldrin	0.250	0.217	87	62 - 120	
Dieldrin	0.500	0.458	92	68 - 130	
Endrin	0.500	0.417	83	46 - 137	
4,4'-DDT	0.500	0.450	90	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279 WO #: DGJM4108
 BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	ND	0.214	86	30 - 148	
Heptachlor	0.250	ND	0.203	81	25 - 135	
Aldrin	0.250	ND	0.208	83	19 - 131	
Dieldrin	0.500	ND	0.445	89	35 - 141	
Endrin	0.500	ND	0.450	90	28 - 148	
4,4'-DDT	0.500	ND	0.448	90	24 - 145	

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 6 outside limits

COMMENTS:

664 963

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM4109

BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
gamma-BHC (Lindane)	0.250	0.212	85	0.70	22	30 - 148	
Heptachlor	0.250	0.204	82	0.44	32	25 - 135	
Aldrin	0.250	0.209	84	0.81	33	19 - 131	
Dieldrin	0.500	0.445	89	0.020	37	35 - 141	
Endrin	0.500	0.452	90	0.33	40	28 - 148	
4,4'-DDT	0.500	0.451	90	0.82	50	24 - 145	

NOTES(S) :

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

RPD: 0 out of 6 outside limits
 Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

4C 664 964
 PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: COG200210
 Lab Sample ID: DGM9V101 Lab File ID: D-A4570
 Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SW3510
 Sulfur Cleanup (Y/N) N Date Extracted: 07/21/00
 Date Analyzed (1): 07/27/00 Date Analyzed (2): 07/27/00
 Time Analyzed (1): 0038 Time Analyzed (2): 0038
 Instrument ID (1): GC4 Instrument ID (2): GC4
 GC Column (1): DB608 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	LCS1	DGM9V102	07/27/00	07/27/00
02	DF/S1/201/WA	DGJ6M103	07/27/00	07/27/00
03				
04				
05				
06				
07				
08				
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21				
22				
23				
24				
25				
26				

COMMENTS: _____

664 965

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: C0G210000 469

Sample WT/Vol: 1000 / mL
Work Order: DGM9V101
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/27/00

QC Batch: 0203469

Client Sample Id: INTRA-LAB BLANK

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

PCB SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G200210 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M104

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203473

Client Sample Id: DF/S1/201/WA/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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: COG210000 473
Method: SW846 8082
PCBs (8082)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00
Work Order: DGMAD102 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/25/00
Moisture %: NA

QC Batch: 0203473

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	7.97	
11096-82-5	Aroclor 1260	8.04	

2E
WATER PESTICIDE SURROGATE RECOVERY

664 969

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0G200210

GC Column(1): DB608

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX %REC #	DCB %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	DF/S1/201/WA	66	84					0
02	PBLK	80	90					0
03	LCS	76	89					0
04								
05								
06								
07								
08								
09								
10								
11								
12								
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22								
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24								
25								
26								
27								
28								
29								
30								

ADVISORY

QC LIMITS 45-120

S1 (TCX) = Tetrachloro-m-xylene

(30-150) D₆

S2 (DCB) = Decachlorobiphenyl

(30-150) 7-27-00

24-178

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: QESPIT

SDG No:

Lot #: C0G210000

WO #: DGMAD102

BATCH: 0203473

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	10.0	7.97	80	61- 118	
Aroclor 1260	10.0	8.04	80	61- 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

664 971

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM410C

BATCH: 0203473

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT (ug/L)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	10.0	ND	7.38	74	56 - 119	
Aroclor 1260	10.0	ND	7.84	78	31 - 138	

NOTES (S) :

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

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

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID LAB MS/MSD

Lot #: COG200279

WO #: DGJM410D

BATCH: 0203473

COMPOUND	SPIKE	MSD	MSD	QC LIMITS			QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD	REC	
Aroclor 1016	10.0	7.67	77	3.8	20	56 - 119	
Aroclor 1260	10.0	7.99	80	1.8	27	31 - 138	

NOTES(S):

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

SW846 8082 METHOD BLANK SUMMARY

DGMAD101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: h-a40851.

Lot Number: COG200210

Matrix: WATER

Extraction Method:

Date Extracted: 07/21/00

Date Analyzed(1): 07/25/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:03

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 INTRA-LAB QC	DGJM410A	07/25/00	N/A
02 LAB MS/MSD 072100	DGJM410C S	07/25/00	N/A
03 LAB MS/MSD	DGJM410D D	07/25/00	N/A
04 DF/S1/201/WA/002	DGJ6M104	07/25/00	N/A
05 CHECK SAMPLE	DGMAD102 C	07/25/00	N/A
06			
07			
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13			
14			
15			
16			
17			
18			
19			
20			

COMMENTS:

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: COG210000 473

Sample WT/Vol: 1000 / mL
Work Order: DGMAD101
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/25/00

QC Batch: 0203473

Client Sample Id: INTRA-LAB BLANK

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

664 975

HERBICIDE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M112

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0206541

Client Sample Id: DF/S1/201/WA/002

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

664 977

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G240000 541

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGNP7102

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0206541

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	15.1	Q
93-72-1	2,4,5-TP (Silvex)	3.75	
93-76-5	2,4,5-T	3.60	
87-86-5	Pentachlorophenol	1.97	

664 979

SW846 8151A SURROGATE RECOVERY

Lab Name. Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	TOT OUT
01	DF/S1/201/WA/002	102	00
02	METHOD BLK. DGPN7101	78	00
03	LCS DGPN7102	111	00
04	LCSD DGPN7103	107	00

SURROGATES
SRG01 = DCAA

QC LIMITS
(53-119)

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

FORM II

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

Lab Code: QESPIT

SDG No:

Lot #: C0G240000

WO #: DGPN7102

BATCH: 0206541

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	15.1	94	46 - 124	
2,4,5-TP (Silvex)	4.00	3.75	94	53 - 127	
2,4,5-T	4.00	3.60	90	40 - 126	
Pentachlorophenol	2.00	1.97	98	30 - 125	

NOTES (S):

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

664 981

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COG240000

WO #: DGPN7103

BATCH: 0206541

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	14.0	87	46 - 124	
2,4,5-TP (Silvex)	4.00	3.44	86	53 - 127	
2,4,5-T	4.00	3.33	83	40 - 126	
Pentachlorophenol	2.00	1.85	92	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

SW846 8151A METHOD BLANK SUMMARY

DGPN7101

Lab Name: Severn Trent Laboratories, Inc

Lab Code: QESPIT

SDG Number:

Lab File ID: a-b40365.

Lot Number: COG200210

Matrix: WATER

Extraction Method: 8151A

Date Extracted: 07/24/00

Date Analyzed(1): 07/26/00

Date Analyzed(2): N/A

Time Analyzed(1): 02:04

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

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

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/201/WA/002	DGJ6M112	07/26/00	N/A
02	CHECK SAMPLE	DGPN7102 C	07/26/00	N/A
03	DUPLICATE CHECK	DGPN7103 L	07/26/00	N/A
04				
05				
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20				

COMMENTS:

664 983

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: COG240000 541

Sample WT/Vol: 1000 / mL
Work Order: DGPN7101
Dilution factor: 1
Moisture %: NA

Date Received: 07/13/00
Date Extracted: 07/24/00
Date Analyzed: 07/26/00

QC Batch: 0206541

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

664 984

METALS SUMMARY

664 985

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DGJ6M Client ID: DF/S1/201/WA/002
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		1	ICP	7/24/00	12:56
Antimony	220.35	1.5	60.0	1.7	B	1	ICPST	7/24/00	9:25
Arsenic	189.04	2.6	10.0	4.8	B	1	ICPST	7/24/00	9:25
Barium	493.41	0.41	200	76.8	B	1	ICP	7/24/00	12:56
Beryllium	313.04	0.071	5.0	0.11	B	1	ICP	7/24/00	12:56
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	7/24/00	9:25
Calcium	317.93	37.9	5000	67800		1	ICP	7/24/00	12:56
Chromium	267.72	1.0	10.0	2.6	B	1	ICPST	7/24/00	9:25
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	7/24/00	12:56
Copper	324.75	2.2	25.0	9.8	B	1	ICP	7/24/00	12:56
Iron	259.94	8.8	100	661		1	ICP	7/24/00	12:56
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	7/24/00	9:25
Magnesium	279.08	19.9	5000	8230		1	ICP	7/24/00	12:56
Manganese	257.61	0.87	15.0	18.1		1	ICP	7/24/00	12:56
Nickel	231.60	6.1	40.0	6.1	U	1	ICP	7/24/00	12:56
Potassium	766.49	496	5000	1850	B	1	ICP	7/24/00	12:56
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	7/24/00	9:25
Silver	328.07	0.94	10.0	0.94	U	1	ICPST	7/24/00	9:25
Sodium	589	14.5	5000	55700		1	ICP	7/24/00	12:56
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	7/24/00	9:25
Vanadium	292.40	1.8	50.0	4.1	B	1	ICP	7/24/00	12:56
Zinc	213.86	3.1	20.0	15.4	B	1	ICP	7/24/00	12:56

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form I Equivalent

STL-Pittsburgh
Metals Data Reporting Form

664 986

Sample Results

Lab Sample ID: DGJ6M **Client ID:** DF/S1/201/WA/002
Matrix: Water **Units:** ug/L **Prep Date:** 7/24/00 **Prep Batch:** 0206107
Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/24/00	11:08

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 1 Equivalent

STL-Pittsburgh

664 987

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: 0724HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/24/00 10:40 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.2	0.0	U								

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP

Units: ug/L

Chart Number: J00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 7/24/00 10:54 AM		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	0.1	B								
Calcium	317.933	5000	37.9	U								
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	-12.0	B								
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								

664 989

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 7/24/00 9:02 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	1.0	U						
Lead	220.353	3	1.9	U						
Selenium	220.353	5	2.1	U						
Silver	328.068	10	0.9	U						
Thallium	190.864	10	3.9	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: 0724HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/24/00 10:43 AM		CCB2 7/24/00 11:03 AM		CCB3 7/24/00 11:23 AM		Found	Q
			Found	Q	Found	Q	Found	Q		
Mercury	253.7	0.2	0.0	U	0.0	U	0.0	U		

664 991

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/24/00 11:27 AM		CCB2 7/24/00 12:02 PM		CCB3 7/24/00 12:40 PM		CCB4 7/24/00 1:11 PM			
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	12.7	U	26.3	B	38.9	B		
Barium	493.409	200	0.7	B	0.7	B	1.1	B	3.2	B		
Beryllium	313.042	5	0.7	B	0.8	B	0.9	B	3.0	B		
Calcium	317.933	5000	37.9	U	37.9	U	37.9	U	43.9	B		
Cobalt	228.616	50	3.2	U	3.2	U	3.2	U	3.5	B		
Copper	324.754	25	2.2	U	2.2	U	2.2	U	4.2	B		
Iron	259.94	100	8.8	U	8.8	U	9.9	B	30.5	B		
Magnesium	279.079	5000	19.9	U	19.9	U	19.9	U	44.0	B		
Manganese	257.61	15	0.9	U	0.9	U	1.5	B	3.5	B		
Nickel	231.604	40	-6.9	B	6.1	U	6.1	U	6.1	U		
Potassium	766.491	5000	496.0	U	496.0	U	617.0	B	592.0	B		
Sodium	588.995	5000	14.8	B	14.5	U	22.4	B	54.8	B		
Vanadium	292.402	50	1.8	U	1.9	B	4.0	B	4.0	B		
Zinc	213.856	20	3.1	U	3.1	U	3.1	U	3.3	B		

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCBI 7/24/00 9:55 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	1.0	U						
Lead	220.353	3	1.9	U						
Selenium	220.353	5	2.1	U						
Silver	328.068	10	0.9	U						
Thallium	190.864	10	3.9	U						

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGKEMBMatrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148Weight: 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	18.0	B	1	ICP	7/24/00	12:49
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	7/24/00	9:17
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	7/24/00	9:17
Barium	493.409	0.41	200	0.41	U	1	ICP	7/24/00	12:49
Beryllium	313.042	0.071	5.0	0.15	B	1	ICP	7/24/00	12:49
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	7/24/00	9:17
Calcium	317.933	37.9	5000	52.7	B	1	ICP	7/24/00	12:49
Chromium	267.716	1.0	10.0	1.0	U	1	ICPST	7/24/00	9:17
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	7/24/00	12:49
Copper	324.754	2.2	25.0	2.2	U	1	ICP	7/24/00	12:49
Iron	259.94	8.8	100	17.7	B	1	ICP	7/24/00	12:49
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	7/24/00	9:17
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	7/24/00	12:49
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	7/24/00	12:49
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	7/24/00	12:49
Potassium	766.491	496	5000	496	B	1	ICP	7/24/00	12:49
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	7/24/00	9:17
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	7/24/00	9:17
Sodium	588.995	14.5	5000	27.7	B	1	ICP	7/24/00	12:49
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	7/24/00	9:17
Vanadium	292.402	1.8	50.0	2.5	B	1	ICP	7/24/00	12:49
Zinc	213.856	3.1	20.0	5.5	B	1	ICP	7/24/00	12:49

Comments: Lot #: C0G200210

Version 3.63.5

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: DGNK1BMatrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/24/00	10:45

Comments: Lot #: C0G200210

Version 3.63.5

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DGJ6MS
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002S
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		2710		2000	108.6	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Antimony	220.4	1.7	B	523		500	104.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Arsenic	189.0	4.8	B	2080		2000	103.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Barium	493.4	76.8	B	2040		2000	98.0	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Beryllium	313.0	0.11	B	49.8		50	99.3	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Cadmium	226.5	0.49	U	48.8		50	97.5	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Calcium	317.9	67800		120000		50000	103.5	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Chromium	267.7	2.6	B	208		200	102.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Cobalt	228.6	3.2	U	487		500	97.5	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Copper	324.8	9.8	B	255		250	98.2	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Iron	259.9	661		1760		1000	109.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Lead	220.4	1.9	U	501		500	100.1	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Magnesium	279.1	8230		59200		50000	101.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Manganese	257.6	18.1		509		500	98.1	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Nickel	231.6	6.1	U	502		500	100.3	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Potassium	766.5	1850	B	51800		50000	99.8	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Selenium	220.4	2.1	U	2070		2000	103.7	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Silver	328.1	0.94	U	52.4		50	104.9	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Sodium	589	55700		109000		50000	105.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Thallium	190.9	3.9	U	2010		2000	100.4	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Vanadium	292.4	4.1	B	495		500	98.1	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Zinc	213.9	15.4	B	505		500	97.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02

Comments: Lot #: COG200210 Sample #: 1

Version 3.63.5

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DGJ6MD
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002D
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		2670		2000	106.8	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Antimony	220.4	1.7	B	512		500	102.1	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Arsenic	189.0	4.8	B	2050		2000	102.3	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Barium	493.4	76.8	B	2000		2000	96.3	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Beryllium	313.0	0.11	B	49.0		50	97.9	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Cadmium	226.5	0.49	U	48.1		50	96.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Calcium	317.9	67800		118000		50000	101.0	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Chromium	267.7	2.6	B	205		200	100.9	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Cobalt	228.6	3.2	U	483		500	96.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Copper	324.8	9.8	B	251		250	96.4	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Iron	259.9	661		1710		1000	104.7	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Lead	220.4	1.9	U	491		500	98.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Magnesium	279.1	8230		58500		50000	100.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Manganese	257.6	18.1		502		500	96.8	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Nickel	231.6	6.1	U	473		500	94.5	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Potassium	766.5	1850	B	51200		50000	98.7	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Selenium	220.4	2.1	U	2030		2000	101.4	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Silver	328.1	0.94	U	51.2		50	102.3	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Sodium	589	55700		107000		50000	102.4	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Thallium	190.9	3.9	U	1980		2000	98.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Vanadium	292.4	4.1	B	487		500	96.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Zinc	213.9	15.4	B	491		500	95.1	1	1	ICP	7/24/00	12:56	7/24/00	13:05

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

- 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

664 997

STL-Pittsburgh
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DGJ6MS
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002S
 Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.045	U	1.1		1	106.0	1	1	CVAA	7/24/00	11:08	7/24/00	11:10

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DGJ6MD
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002D
 Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.045	U	1.1		1	106.0	1	1	CVAA	7/24/00	11:08	7/24/00	11:12

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

664 999

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DGJ6MD

Matrix Spike Sample ID: DGJ6MS Client ID: DF/S1/201/WA/002D

Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148

Weight: 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	2710		2670		1.7 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Antimony	220.353	523		512		2.0 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Arsenic	189.042	2080		2050		1.4 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Barium	493.409	2040		2000		1.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Beryllium	313.042	49.8		49.0		1.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Cadmium	226.502	48.8		48.1		1.3 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Calcium	317.933	120000		118000		2.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Chromium	267.716	208		205		1.8 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Cobalt	228.616	487		483		0.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Copper	324.754	255		251		1.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Iron	259.94	1760		1710		4.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Lead	220.353	501		491		2.0 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Magnesium	279.079	59200		58500		1.2 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Manganese	257.61	509		502		1.3 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Nickel	231.604	502		473		5.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Potassium	766.491	51800		51200		1.1 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Selenium	220.353	2070		2030		2.2 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Silver	328.068	52.4		51.2		2.5 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Sodium	588.995	109000		107000		3.4 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Thallium	190.864	2010		1980		1.6 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Vanadium	292.402	495		487		1.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Zinc	213.856	505		491		2.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

- 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

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DGJ6MD
 Matrix Spike Sample ID: DGJ6MS Client ID: DF/S1/201/WA/002D
 Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.1		1.1			1	1	CVAA	7/24/00	11:10	7/24/00	11:12

Comments: Lot #: C0G200210 Sample # 1

Version 3.63.5

- 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

664 1001

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DGKEMCMatrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148Weight: 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	1950	97.5		80-120	1	ICP	7/24/00	12:52
Antimony	220.353	500	499	99.9		80-120	1	ICPST	7/24/00	9:21
Arsenic	189.042	2000	2010	100.6		80-120	1	ICPST	7/24/00	9:21
Barium	493.409	2000	1940	96.9		80-120	1	ICP	7/24/00	12:52
Beryllium	313.042	50.0	48.9	97.9		80-120	1	ICP	7/24/00	12:52
Cadmium	226.502	50.0	48.3	96.6		80-120	1	ICPST	7/24/00	9:21
Calcium	317.933	50000	51100	102.2		80-120	1	ICP	7/24/00	12:52
Chromium	267.716	200	201	100.5		80-120	1	ICPST	7/24/00	9:21
Cobalt	228.616	500	490	98.0		80-120	1	ICP	7/24/00	12:52
Copper	324.754	250	243	97.0		80-120	1	ICP	7/24/00	12:52
Iron	259.94	1000	1050	105.1		80-120	1	ICP	7/24/00	12:52
Lead	220.353	500	489	97.8		80-120	1	ICPST	7/24/00	9:21
Magnesium	279.079	50000	50200	100.5		80-120	1	ICP	7/24/00	12:52
Manganese	257.61	500	491	98.3		80-120	1	ICP	7/24/00	12:52
Nickel	231.604	500	498	99.6		80-120	1	ICP	7/24/00	12:52
Potassium	766.491	50000	48900	97.9		80-120	1	ICP	7/24/00	12:52
Selenium	220.353	2000	2010	100.4		80-120	1	ICPST	7/24/00	9:21
Silver	328.068	50.0	50.6	101.1		80-120	1	ICPST	7/24/00	9:21
Sodium	588.995	50000	49900	99.8		80-120	1	ICP	7/24/00	12:52
Thallium	190.864	2000	1970	98.7		80-120	1	ICPST	7/24/00	9:21
Vanadium	292.402	500	491	98.2		80-120	1	ICP	7/24/00	12:52
Zinc	213.856	500	485	96.9		80-120	1	ICP	7/24/00	12:52

Comments: Lot #: C0G200210

Version 3.63.5

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

664 1002

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DGNK1C
 Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
 Weight: 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	2.6	102.8		80-120	1	CVAA	7/24/00	10:46

Comments: Lot #: COG200210

Version 3.63.5

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

Form 7 Equivalent

664 1003

GENERAL CHEMISTRY SUMMARY

UXB INTERNATIONAL

664 1004

Client Sample ID: DF/S1/201/WA/002

General Chemistry

Lot-Sample #...: COG200210-001
 Date Sampled...: 07/19/00

Work Order #...: DGJ6M
 Date Received...: 07/20/00

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	8.1		No Units	SW846 9040	07/20/00	0203307
	Dilution Factor: 1		MS Run #.....: 0203106			
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/24-07/25/00	0206179
	Dilution Factor: 1		MS Run #.....: 0206039			
Flashpoint	>200		deg F	SW846 1010	07/22/00	0204148
	Dilution Factor: 1		MS Run #.....: 0204041			
Total Sulfide	8.3	1.0	mg/L	MCAWW 376.1	07/22/00	0205130
	Dilution Factor: 1		MS Run #.....: 0205030			

664 1005

METHOD BLANK REPORT

General Chemistry

Client Lot #...: COG200210

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DGNMR101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	COG240000-179 07/24-07/25/00	0206179
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: DGNGA101 1.0	mg/L	MB Lot-Sample #: MCAWW 376.1	COG230000-130 07/22/00	0205130
		Dilution Factor: 1				

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: COG200210

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	100	Work Order #: DGL1N101 (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: COG210000-307 SW846 9040	07/20/00	0203307
Cyanide, Total	104	Work Order #: DGNMR102 (85 - 145) Dilution Factor: 1	LCS Lot-Sample#: COG240000-179 SW846 9012A	07/24-07/25/00	0206179
Flashpoint	100	Work Order #: DGN92101 (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: COG220000-148 SW846 1010	07/22/00	0204148
Total Sulfide	104	Work Order #: DGNGA102 (75 - 125) Dilution Factor: 1	LCS Lot-Sample#: COG230000-130 MCAWW 376.1	07/22/00	0205130

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

664 1007

General Chemistry

Client Lot #...: COG200210

Matrix.....: WATER

Date Sampled...: 07/17/00

Date Received...: 07/18/00

PARAMETER	PERCENT	RECOVERY	RPD		METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	BATCH #
Cyanide, Total			WO#: DGMWV103-MS/DGMWV104-MSD			MS Lot-Sample #: COG220124-001	
	107	(75 - 125)			SW846 9012A	07/24-07/25/00	0206179
	104	(75 - 125)	3.2	(0-20)	SW846 9012A	07/24-07/25/00	0206179
		Dilution Factor: 1					
		MS Run #.....: 0206039					

Total Sulfide			WO#: DGL5V10A-MS/DGL5V10C-MSD			MS Lot-Sample #: COG210192-004	
	111	(0.0 - 0.0)			MCAWW 376.1	07/22/00	0205130
	96	(0.0 - 0.0)	15	(0-0.0)	MCAWW 376.1	07/22/00	0205130
		Dilution Factor: 1					
		MS Run #.....: 0205030					

NOTE (S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

664 1008

.General Chemistry

Client Lot #...: COG200210

Work Order #...: DGJ6M-SMP
DGJ6M-DUP

Matrix.....: WATER

Date Sampled...: 07/19/00

Date Received...: 07/20/00

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Flashpoint	>200	>200	deg F	0.0	(0-20)	SD Lot-Sample #: COG200210-001 SW846 1010	07/22/00	0204148
			Dilution Factor: 1					
			Prep Date.....: 0204041		Analysis Date...:		Prep Batch #...:	
pH	8.1	8.2	No Units	0.61	(0-20)	SD Lot-Sample #: COG200210-001 SW846 9040	07/20/00	0203307
			Dilution Factor: 1					
			Prep Date.....: 0203106		Analysis Date...:		Prep Batch #...:	

664 1009

GC/MS VOLATILE DATA

664 1010

**GC/MS VOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	92	96	104	98	00
02	DF/S1/201/WA/002	87	91	99	89	00
03	METHOD BLK. DGKG3101	81	86	94	90	00
04	LCS DGKG3102	91	96	104	97	00
05	LAB MS/MSD D	91	95	105	97	00
06	LAB MS/MSD S	90	97	103	94	00

SURROGATES

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

QC LIMITS

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

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

FORM II

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

Lab Code: QESPIT

SDG No:

Lot #: C0G210000

WO #: DGKG3102

BATCH: 0203151

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	41.6	83	65- 119	
Trichloroethene	50.0	40.8	82	80- 122	
Benzene	50.0	42.6	85	79- 116	
Toluene	50.0	44.0	88	76- 119	
Chlorobenzene	50.0	41.0	82	81- 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

664 1013

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200133

WO #: DGHAR10U

BATCH: 0203151

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	41.5	83	57- 138	
Trichloroethene	50.0	ND	39.5	79	58- 141	
Benzene	50.0	ND	41.8	84	73- 123	
Toluene	50.0	ND	41.2	82	67- 129	
Chlorobenzene	50.0	ND	38.8	78	70- 122	

NOTES (S) :

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

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

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200133

WO #: DGHAR10V

BATCH: 0203151

COMPOUND	SPIKE	MSD	MSD		QC LIMITS		QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD	REC	
1,1-Dichloroethene	50.0	43.2	86	4.0	20	57- 138	
Trichloroethene	50.0	41.8	84	5.5	20	58- 141	
Benzene	50.0	44.0	88	5.1	20	73- 123	
Toluene	50.0	46.0	92	11	20	67- 129	
Chlorobenzene	50.0	43.0	86	10	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:

DGKG3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: VB30722.D

Lot Number: C0G200210

Date Analyzed: 07/21/00

Time Analyzed: 07:55

Matrix: WATER

Date Extracted: 07/21/00

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	LAB MS/MSD	DGHAR10U S	3072106.D	07/21/00	10:28
02	LAB MS/MSD	DGHAR10V D	3072107.D	07/21/00	10:54
03	INTRA-LAB QC	DGHAR101	3072103.D	07/21/00	09:12
04	DF/S1/201/WA/002	DGJ6M101	3072108.D	07/21/00	11:20
05	CHECK SAMPLE	DGKG3102 C	3072105.D	07/21/00	10:03
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:

664 1017

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0G200210

Lab File ID: DF30721

BFB Injection Date: 07/21/00

Instrument ID: HP3

BFB Injection Time: 0608

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

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	49.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.4 (0.7)1
174	50.0 - 100.0% of mass 95	60.3
175	5.0 - 9.0% of mass 174	4.3 (7.2)1
176	95.0 - 101.0% of mass 174	59.9 (99.4)1
177	5.0 - 9.0% of mass 176	3.7 (6.2)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	1C30721	07/21/00	0700
02	INTRA-LAB BL	DGKG3101	VB30722	07/21/00	0755
03	INTRA-LAB CH	DGKG3102	3072105	07/21/00	1003
04	DF/S1/201/WA	DGJ6M101	3072108	07/21/00	1120
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

664 1018

Lab Name: STL PITTSBURGH Contract:
 Lab Code: STLPIT Case No.: SAS No.: SDG No.: COG200210
 Lab File ID (Standard): 1C30721 Date Analyzed: 07/21/00
 Instrument ID: HP3 Time Analyzed: 0700
 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	190632	9.88	269139	12.20	680682	6.76
UPPER LIMIT	381264	10.08	538278	12.40	1361364	6.96
LOWER LIMIT	95316	9.68	134570	12.00	340341	6.56
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	180677	9.87	267855	12.20	694615	6.76
02 INTRA-LAB CH	170757	9.88	244327	12.20	661246	6.76
03 DF/S1/201/WA	169334	9.88	235649	12.20	664481	6.76
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.

664 1019

**GC/MS VOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: COG200210 001

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 07/20/00
Work Order: DGJ6M101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/21/00
Moisture %: NA

QC Batch: 0203151

Client Sample Id: DF/S1/201/WA/002

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

664 1021

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/20/00

Work Order: DGJ6M101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

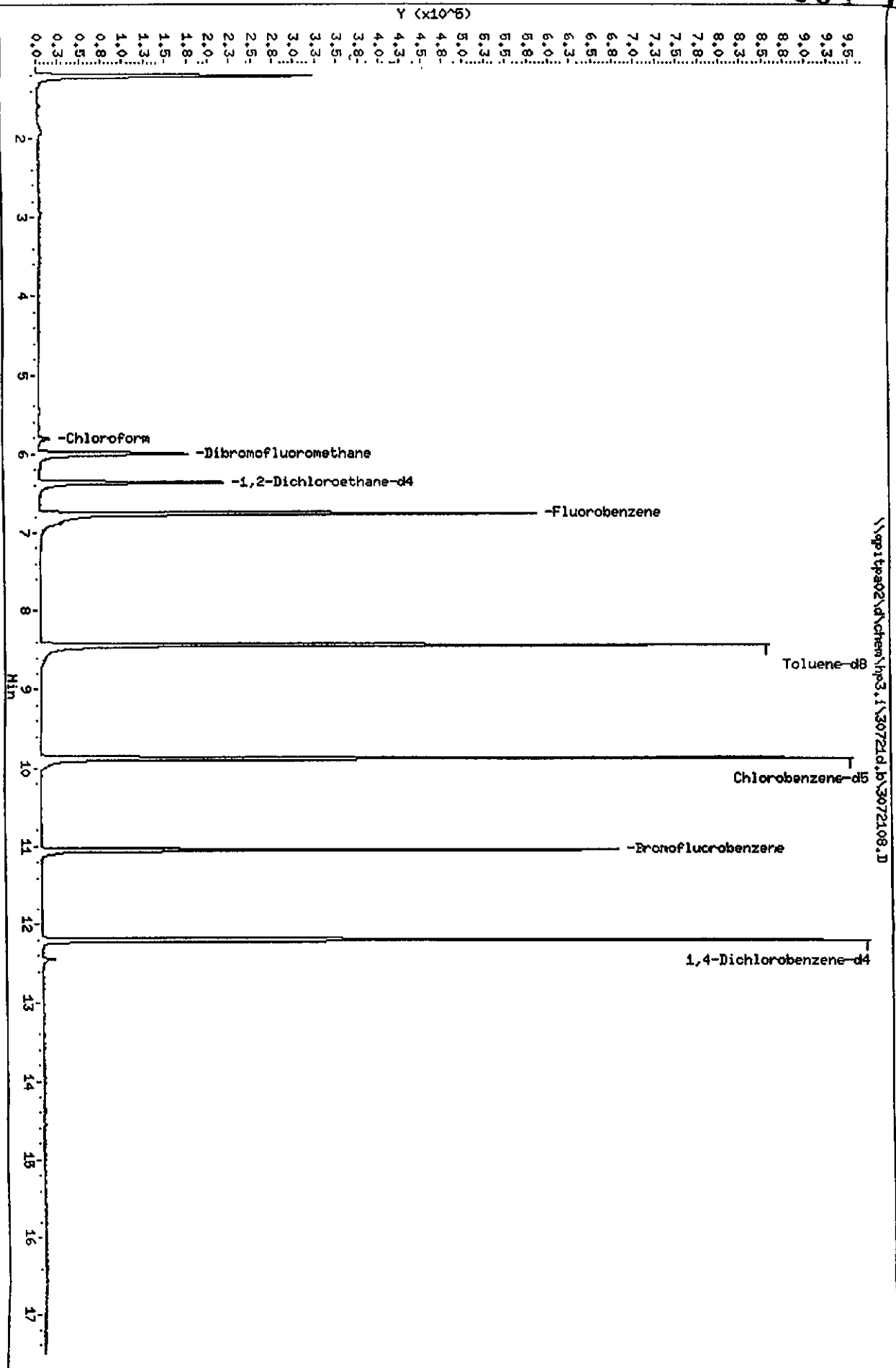
Client Sample Id: DF/S1/201/WA/002

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

FORM I

Data File: \\sp1tpa02\chem\hp3.1\30721d.b\3072108.D
Date: 21-JUL-2000 11:20
Client ID: DF/S1/201/MR/002
Sample Info: C06200210-001 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\30721d.b\3072108.D
 Lab Smp Id: DGJ6M101 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 21-JUL-2000 11:20 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : C0G200210-001 5ML
 Misc Info : dgj6m101,30721d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30721d.b\8260bh2o.m
 Meth Date : 21-Jul-2000 07:35 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 13:16 Cal File: 4A30718.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC076

*KG
7/21/00*

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

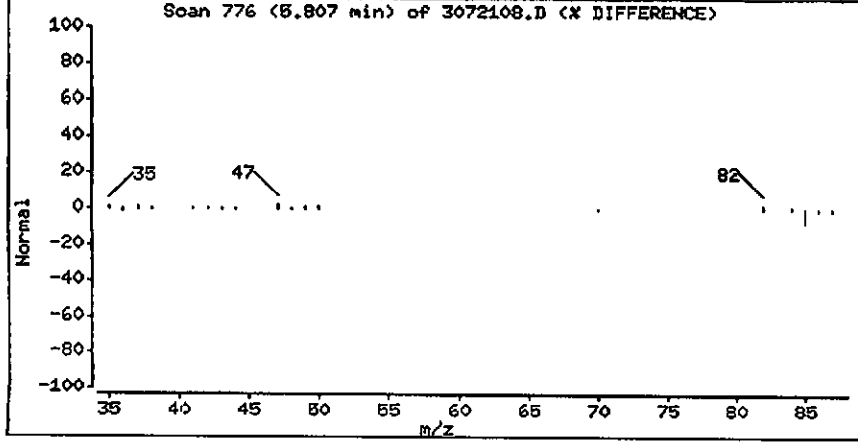
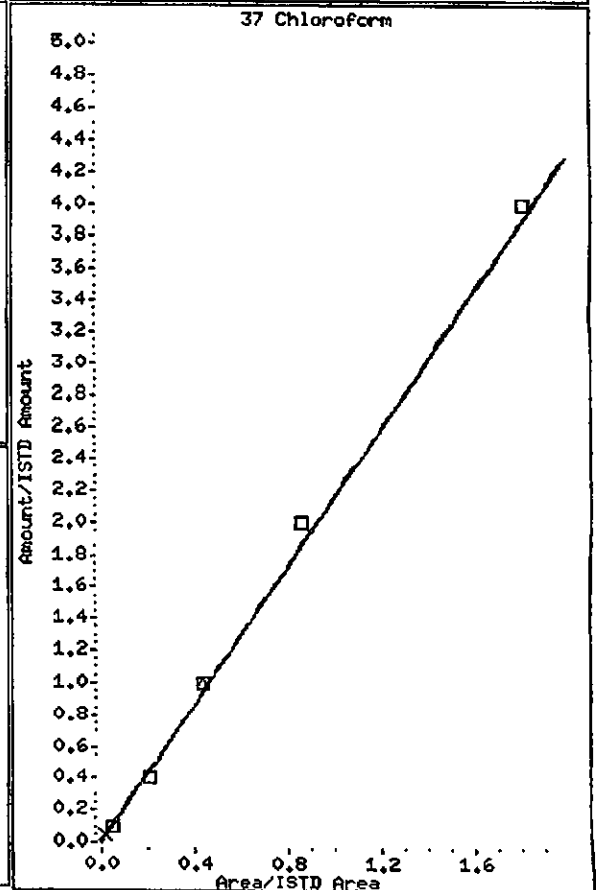
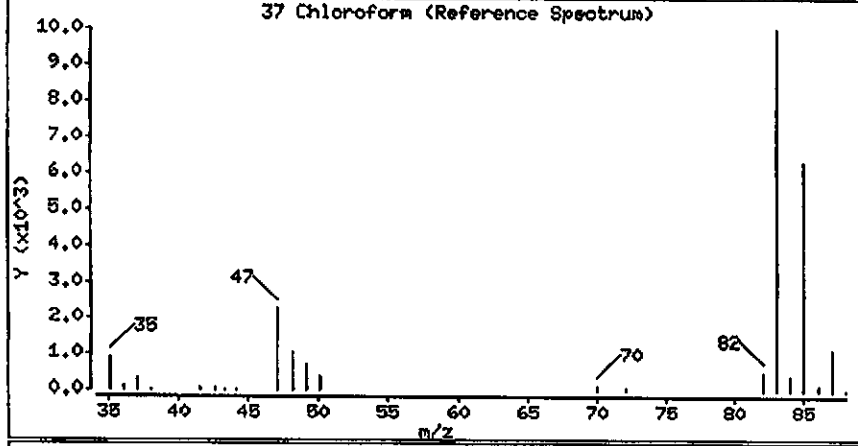
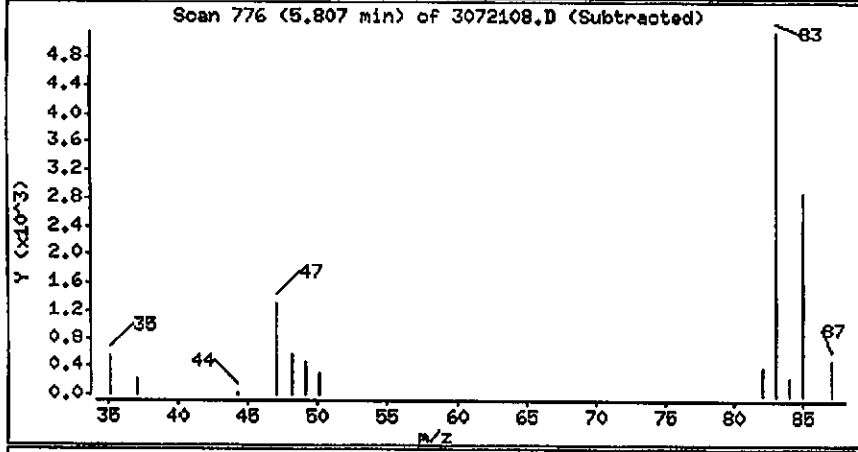
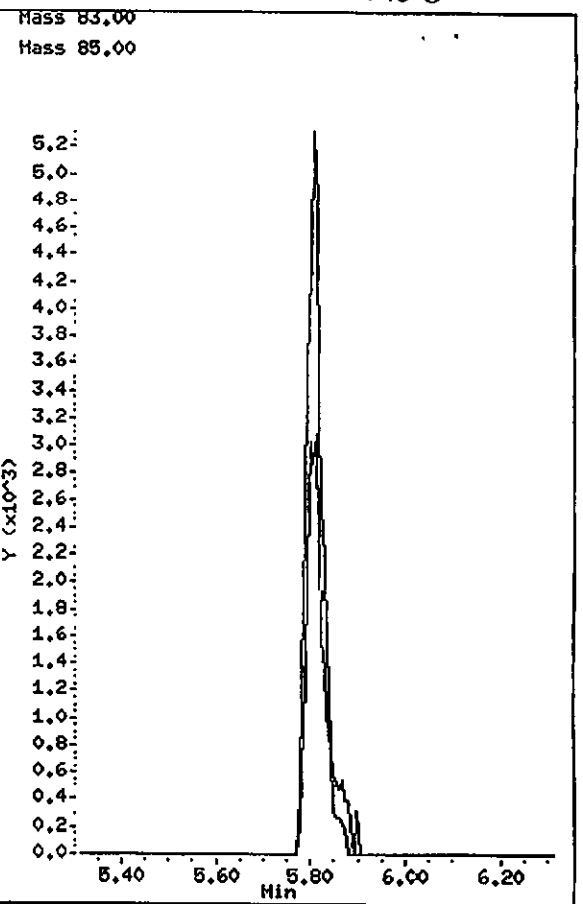
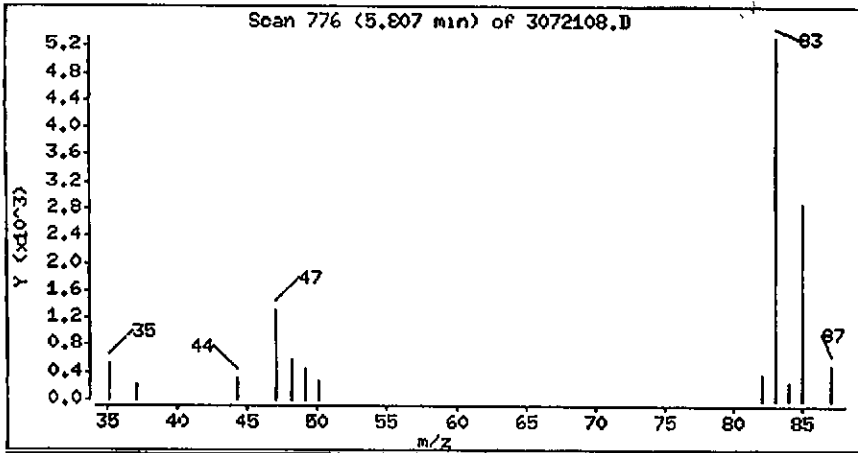
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.761	6.756	(1.000)	664481	250.000	
* 69 Chlorobenzene-d5	119	9.875	9.876	(1.000)	169334	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.198	12.199	(1.000)	235649	250.000	
\$ 39 Dibromofluoromethane	113	5.995	6.002	(0.887)	140148	217.271	43.45
\$ 43 1,2-Dichloroethane-d4	65	6.366	6.367	(0.942)	181509	227.338	45.47
\$ 59 Toluene-d8	98	8.434	8.440	(0.854)	604985	246.805	49.36
\$ 80 Bromofluorobenzene	95	11.043	11.043	(1.118)	242660	222.363	44.47
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	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84						
19 trans-1,2-Dichloroethene	96						
20 Methyl tert-butyl ether	73						
24 1,1-Dichloroethane	63						
27 2,2-Dichloropropane	77						
28 cis-1,2-dichloroethene	96						
M 29 1,2-Dichloroethene (total)	96						
30 Bromochloromethane	128						
31 2-Butanone	43						
37 Chloroform	83	5.807	5.813	(0.859)	13021	10.5670	2.113
38 1,1,1-Trichloroethane	97						
40 1,1-Dichloropropane	75						
41 Carbon Tetrachloride	117						
42 Benzene	78						
45 1,2-Dichloroethane	62						
47 Trichloroethene	130						
49 1,2-Dichloropropane	63						
50 Dibromomethane	93						
53 Bromodichloromethane	83						
57 cis-1,3-Dichloropropene	75						
58 4-Methyl-2-Pentanone	43						
60 Toluene	91						
61 trans-1,3-Dichloropropene	75						
63 1,3-Dichloropropane	76						
64 1,1,2-Trichloroethane	97						
65 Tetrachloroethene	164						
66 2-Hexanone	43						
67 Dibromochloromethane	129						
68 1,2-Dibromoethane	107						
70 Chlorobenzene	112						
71 1,1,1,2-Tetrachloroethane	131						
72 Ethylbenzene	106						
73 m + p-Xylene	106						
74 Xylene-o	106						
M 75 Xylenes (total)	106						
76 Styrene	104						
77 Bromoform	173						
78 Isopropylbenzene	105						
79 Bromobenzene	156						
81 n-Propylbenzene	120						
82 2-Chlorotoluene	126						
83 1,1,2,2-Tetrachloroethane	83						
84 1,2,3-Trichloropropane	110						
85 4-Chlorotoluene	126						
86 1,3,5-Trimethylbenzene	105						
87 tert-Butylbenzene	119						
88 1,2,4-Trimethylbenzene	105						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
89 sec-Butylbenzene	105						
90 4-Isopropyltoluene	119						
91 1,3-Dichlorobenzene	146						
93 1,4-Dichlorobenzene	146						
94 n-Butylbenzene	91						
95 1,2-Dichlorobenzene	146						
96 1,2-Dibromo-3-chloropropane	157						
97 1,2,4-Trichlorobenzene	180						
98 Hexachlorobutadiene	225						
99 Naphthalene	128						
100 1,2,3-Trichlorobenzene	180						

37 Chloroform



664 1027

GC/MS VOLATILE
CALIBRATION DATA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

664 1028

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30718D

Instrument ID: HP3

Calibration Date(s): 07/18/00 07/18/00

Heated Purge: (Y/N) N

Calibration Time(s): 0614 1316

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =4A30718	RRF20 =3B30718		RRF50 =1C30718		RRF100=1D30718	RRF200=1E30718	
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD		
Dichlorodifluoromethane	0.159	0.142	0.076	0.126	0.128	0.126	24.7		
Chloromethane	0.253	0.269	0.168	0.200	0.216	0.221	18.3*		
Vinyl Chloride	0.273	0.280	0.209	0.234	0.255	0.250	11.7		
Bromomethane	0.126	0.114	0.094	0.090	0.090	0.103	16.0		
Chloroethane	0.087	0.088	0.078	0.071	0.073	0.079	9.8		
Trichlorofluoromethane	0.113	0.150	0.145	0.140	0.136	0.137	10.6		
1,1-Dichloroethene	0.321	0.296	0.231	0.273	0.243	0.273	13.6		
Methylene Chloride	0.357	0.357	0.307	0.308	0.300	0.326	8.8		
trans-1,2-Dichloroethene	0.236	0.239	0.197	0.229	0.214	0.223	7.9		
1,1-Dichloroethane	0.479	0.508	0.385	0.435	0.438	0.449	10.5*		
cis-1,2-dichloroethene	0.272	0.312	0.241	0.275	0.279	0.276	9.1		
Chloroform	0.482	0.522	0.432	0.430	0.452	0.464	8.4		
Bromochloromethane	0.134	0.150	0.126	0.130	0.135	0.135	6.5		
1,1,1-Trichloroethane	0.317	0.326	0.264	0.368	0.380	0.331	13.9		
Carbon Tetrachloride	0.244	0.276	0.215	0.298	0.298	0.266	13.7		
1,2-Dichloroethane	0.380	0.423	0.343	0.356	0.370	0.374	8.2		
Benzene	1.032	1.112	0.941	1.034	0.993	1.022	6.1		
Trichloroethene	0.256	0.302	0.243	0.264	0.280	0.269	8.4		
1,2-Dichloropropane	0.240	0.290	0.240	0.250	0.267	0.257	8.3		
Bromodichloromethane	0.269	0.340	0.325	0.304	0.345	0.317	9.8		
cis-1,3-Dichloropropene	0.248	0.355	0.356	0.335	0.385	0.336	15.5		
Toluene	4.154	5.030	4.182	4.645	4.469	4.496	8.1		
trans-1,3-Dichloropropene	1.104	1.430	1.280	1.398	1.456	1.334	10.9		
1,1,2-Trichloroethane	1.019	1.113	0.926	0.950	0.923	0.986	8.2		
Tetrachloroethene	0.763	0.877	0.704	0.781	0.784	0.782	7.9		
Dibromochloromethane	0.789	1.004	0.942	0.973	1.021	0.946	9.8		
Chlorobenzene	3.498	3.720	3.133	3.218	3.178	3.349	7.5*		
Ethylbenzene	1.614	1.975	1.678	1.781	1.781	1.766	7.8		
Styrene	3.111	4.051	3.605	3.813	3.988	3.714	10.2		
Bromoform	0.436	0.514	0.498	0.538	0.580	0.513	10.3*		
1,1,2,2-Tetrachloroethane	0.916	0.877	0.754	0.720	0.716	0.797	11.7*		
1,3-Dichlorobenzene	1.689	1.762	1.487	1.440	1.489	1.573	9.0		
1,4-Dichlorobenzene	1.860	1.837	1.523	1.478	1.534	1.646	11.3		
1,2-Dichlorobenzene	1.643	1.703	1.480	1.424	1.522	1.554	7.4		
Dibromomethane	0.162	0.194	0.159	0.159	0.172	0.169	8.8		
1,2-Dibromoethane	0.924	1.085	0.915	0.978	0.953	0.971	7.1		
1,1,1,2-Tetrachloroethane	1.059	1.215	1.073	1.102	1.130	1.116	5.6		

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

664 1029

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30718D

Instrument ID: HP3

Calibration Date(s): 07/18/00 07/18/00

Heated Purge: (Y/N) N

Calibration Time(s): 0614

1316

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:	RRF5 =4A30718	RRF20 =3B30718					
RRF50 =1C30718	RRF100=1D30718	RRF200=1E30718					
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.315	0.295	0.242	0.238	0.230	0.264	14.6
1,2-Dibromo-3-chloropropane	0.116	0.106	0.099	0.104	0.119	0.109	7.8
2,2-Dichloropropane	0.246	0.264	0.194	0.270	0.264	0.248	12.5
1,1-Dichloropropene	0.194	0.241	0.222	0.251	0.251	0.232	10.4
1,3-Dichloropropane	1.487	1.808	1.548	1.634	1.635	1.622	7.5
n-Propylbenzene	0.828	1.043	0.901	0.896	0.903	0.914	8.6
Bromobenzene	0.788	0.867	0.724	0.728	0.746	0.771	7.7
1,3,5-Trimethylbenzene	2.658	3.271	2.803	2.864	2.992	2.918	7.9
2-Chlorotoluene	0.901	1.029	0.863	0.867	0.916	0.915	7.4
4-Chlorotoluene	0.901	1.029	0.863	0.867	0.916	0.915	7.4
tert-Butylbenzene	2.009	2.632	2.312	2.300	2.363	2.323	9.5
1,2,4-Trimethylbenzene	2.677	3.207	2.793	2.755	2.808	2.848	7.3
sec-Butylbenzene	3.417	4.192	3.471	3.595	3.619	3.659	8.5
4-Isopropyltoluene	2.888	3.486	2.953	3.055	3.162	3.109	7.6
n-Butylbenzene	2.363	2.951	2.657	2.719	2.921	2.722	8.7
1,2,4-Trichlorobenzene	0.753	0.813	0.714	0.723	0.781	0.757	5.4
Hexachlorobutadiene	0.414	0.392	0.315	0.310	0.328	0.352	13.6
Naphthalene	2.140	2.125	1.918	1.756	1.890	1.966	8.3
1,2,3-Trichlorobenzene	0.776	0.752	0.652	0.624	0.661	0.693	9.6
Acetone	0.558	0.264	0.188	0.144	0.131	0.257	68.7
Carbon Disulfide	0.822	0.671	0.635	0.743	0.678	0.710	10.4
2-Butanone	0.130	0.176	0.162	0.163	0.188	0.164	13.1
4-Methyl-2-Pentanone	0.494	0.918	0.946	1.096	1.161	0.923	28.2
2-Hexanone	0.301	0.612	0.628	0.809	0.836	0.637	33.6
Methyl tert-butyl ether	0.504	0.426	0.343	0.513	0.462	0.450	15.3
Isopropylbenzene	4.718	6.367	5.342	5.958	5.944	5.666	11.4
1,2-Dichloroethene (total)	0.254	0.276	0.219	0.252	0.246	0.249	8.2
Xylenes (total)	1.906	2.441	2.114	2.260	2.336	2.211	9.4
Dibromofluoromethane	0.198	0.240	0.255	0.250	0.271	0.243	11.4
1,2-Dichloroethane-d4	0.265	0.278	0.317	0.310	0.332	0.300	9.4
Toluene-d8	2.773	3.522	3.786	4.025	3.988	3.619	14.2
Bromofluorobenzene	1.292	1.695	1.633	1.686	1.750	1.611	11.4

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

664 1030

INITIAL CALIBRATION REPORT

Instrument ID: hp3.i
Lab File ID: 4A30718.D
Analysis Type: WATER

Injection Date: 18-JUL-2000 13:16
Lab Sample ID: VSTD5
Method File: \\QPITPA02\D\chem\hp3.i\30718d.b

COMPOUND	%RSD
Xylenes (total)	9.4
1,2-Dichloroethene (total)	8.2
Dichlorodifluoromethane	24.7
Chloromethane	18.3
Vinyl Chloride	11.7
Bromomethane	16.0
Chloroethane	9.8
Trichlorofluoromethane	10.6
1,1-Dichloroethene	13.6
Acetone	68.7
Carbon Disulfide	10.4
Methylene Chloride	8.8
trans-1,2-Dichloroethene	7.9
Methyl tert-butyl ether	15.3
1,1-Dichloroethane	10.5
2,2-Dichloropropane	12.5
cis-1,2-dichloroethene	9.1
2-Butanone	13.1
Bromochloromethane	6.5
Chloroform	8.4
1,1,1-Trichloroethane	13.9
Dibromofluoromethane	11.4
Carbon Tetrachloride	13.7
1,1-Dichloropropene	10.4
1,2-Dichloroethane-d4	9.4
Benzene	6.1
1,2-Dichloroethane	8.2
Trichloroethene	8.4
1,2-Dichloropropane	8.3
Dibromomethane	8.8
Bromodichloromethane	9.8
cis-1,3-Dichloropropene	15.5
4-Methyl-2-Pentanone	28.2
Toluene-d8	14.2
Toluene	8.1
trans-1,3-Dichloropropene	10.9
1,1,2-Trichloroethane	8.2
Tetrachloroethene	7.9
1,3-Dichloropropane	7.5

664 1031

INITIAL CALIBRATION REPORT

Instrument ID: hp3.i
Lab File ID: 4A30718.D
Analysis Type: WATER

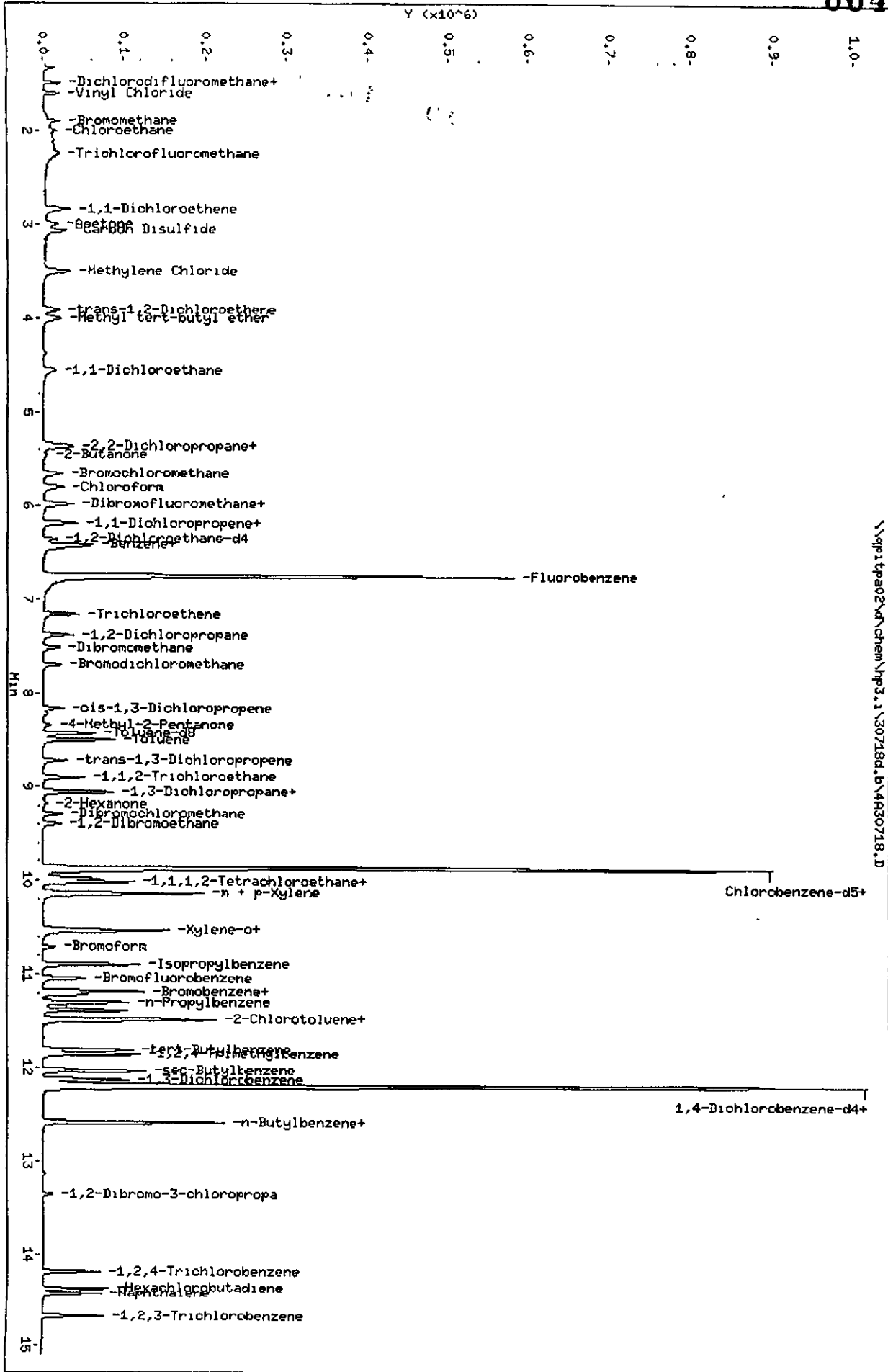
Injection Date: 18-JUL-2000 13:16
Lab Sample ID: VSTD5
Method File: \\QPITPA02\D\chem\hp3.i\30718d.b

COMPOUND	%RSD
2-Hexanone	33.6
Dibromochloromethane	9.8
1,2-Dibromoethane	7.1
Chlorobenzene	7.5
1,1,1,2-Tetrachloroethane	5.6
Ethylbenzene	7.8
m + p-Xylene	7.7
Xylene-o	9.4
Styrene	10.2
Bromoform	10.3
Isopropylbenzene	11.4
Bromofluorobenzene	11.4
1,1,2,2-Tetrachloroethane	11.7
Bromobenzene	7.7
1,2,3-Trichloropropane	14.6
n-Propylbenzene	8.6
4-Chlorotoluene	7.4
2-Chlorotoluene	7.4
1,3,5-Trimethylbenzene	7.9
tert-Butylbenzene	9.5
1,2,4-Trimethylbenzene	7.3
sec-Butylbenzene	8.5
1,3-Dichlorobenzene	9.0
4-Isopropyltoluene	7.6
1,4-Dichlorobenzene	11.3
n-Butylbenzene	8.7
1,2-Dichlorobenzene	7.4
1,2-Dibromo-3-chloropropane	7.8
1,2,4-Trichlorobenzene	5.4
Hexachlorobutadiene	13.6
Naphthalene	8.3
1,2,3-Trichlorobenzene	9.6

The average of all %RSD's in the initial calibration is 11.5

Data File: \\sp1tpa02\chem\hp3.1\30718d.b\4430718.D
Date: 18-JUL-2000 13:16
Client ID: VSTD5
Sample Info: VSTD5 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\30718d.b\4A30718.D
 Lab Smp Id: VSTD5 Client Smp ID: VSTD5
 Inj Date : 18-JUL-2000 13:16 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD5 5ML
 Misc Info : ,30718d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30718d.b\8260bh2o.m
 Meth Date : 18-Jul-2000 13:47 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 13:16 Cal File: 4A30718.D
 Als bottle: 18 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

*KG
7/18/00*

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

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

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.752	6.752	(1.000)	594582	250.000	
* 69 Chlorobenzene-d5	119	9.871	9.871	(1.000)	162178	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.194	12.194	(1.000)	262136	250.000	
\$ 39 Dibromofluoromethane	113	5.991	5.991	(0.887)	11743	25.0000	20.34
\$ 43 1,2-Dichloroethane-d4	65	6.356	6.356	(0.941)	15745	25.0000	22.04
\$ 59 Toluene-d8	98	8.430	8.430	(0.854)	44975	25.0000	19.16
\$ 80 Bromofluorobenzene	95	11.039	11.039	(1.118)	20953	25.0000	20.05
1 Dichlorodifluoromethane	85	1.339	1.339	(0.198)	9457	25.0000	31.52
2 Chloromethane	50	1.491	1.491	(0.221)	15071	25.0000	28.60
3 Vinyl Chloride	62	1.601	1.601	(0.237)	16250	25.0000	27.30
4 Bromomethane	94	1.899	1.899	(0.281)	7521	25.0000	30.73
5 Chloroethane	64	1.996	1.996	(0.296)	5174	25.0000	27.35
6 Trichlorofluoromethane	101	2.245	2.245	(0.333)	6701	25.0000	20.62
12 1,1-Dichloroethene	96	2.835	2.835	(0.420)	19079	25.0000	29.38
15 Carbon Disulfide	76	3.066	3.066	(0.454)	48849	25.0000	28.94
13 Acetone	43	2.993	2.993	(0.443)	33212	25.0000	54.35

664 1034

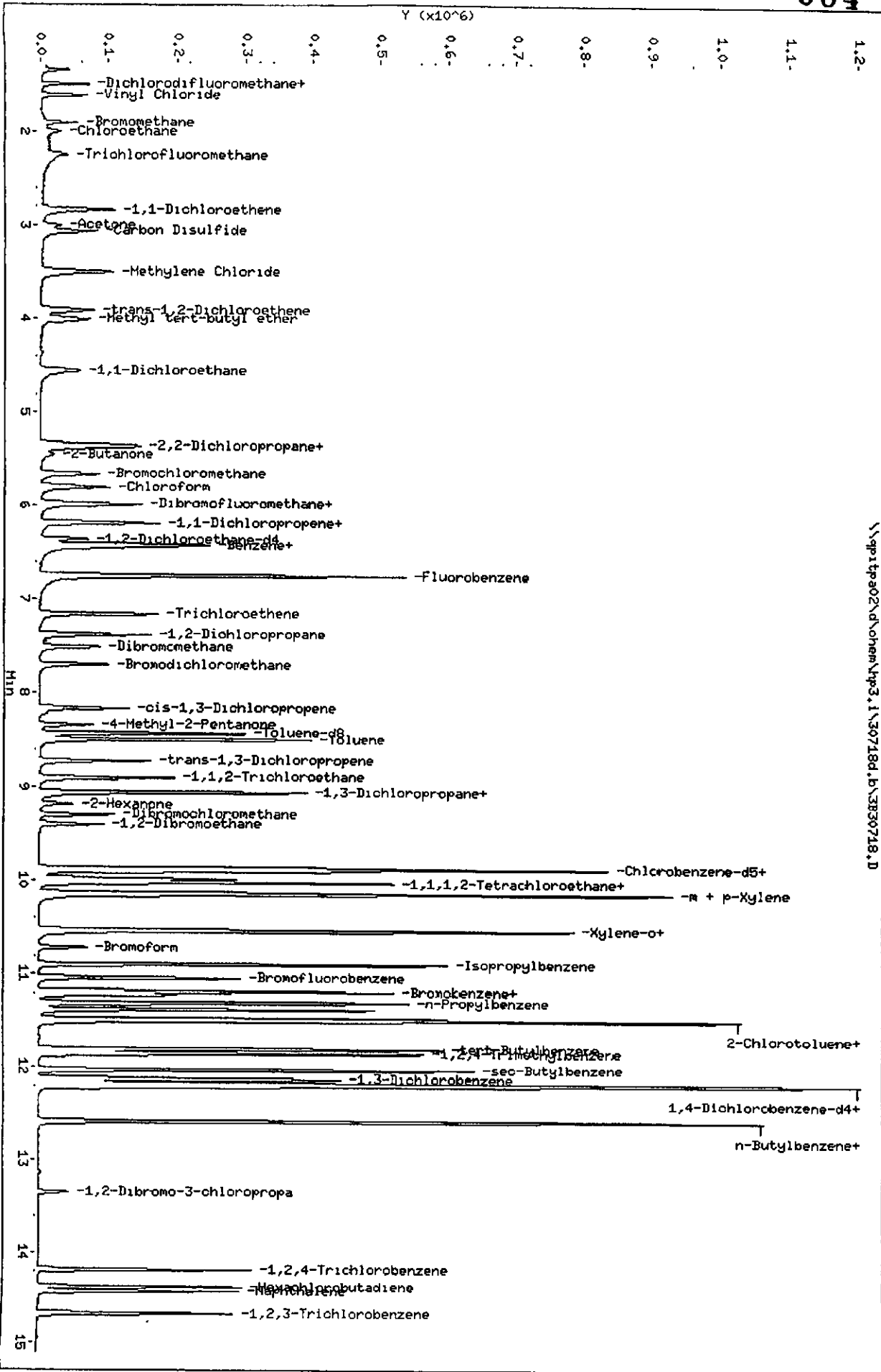
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3 498	3 498	(0 518)	21205	25 0000	27 36
19 trans-1,2-Dichloroethene	96	3 905	3 905	(0 578)	14048	25 0000	26.49
20 Methyl tert-butyl ether	73	4 009	4 009	(0 594)	29967	25 0000	28 02
24 1,1-Dichloroethane	63	4.562	4 562	(0 676)	28484	25 0000	26 68
27 2,2-Dichloropropane	77	5.347	5.347	(0 792)	14660	25 0000	24.88
28 cis-1,2-dichloroethene	96	5.371	5.371	(0.796)	16171	25 0000	24.66
M 29 1,2-Dichloroethene (total)	96				30220	50.0000	50 95
30 Bromochloromethane	128	5 663	5 663	(0.839)	7998	25 0000	24 89
31 2-Butanone	43	5 456	5.456	(0 808)	7763	25 0000	19 91
37 Chloroform	83	5 803	5.803	(0 859)	28656	25 0000	25 99
38 1,1,1-Trichloroethane	97	5 985	5 985	(0 887)	18832	25.0000	23 90
40 1,1-Dichloropropene	75	6 192	6 192	(0.917)	11554	25 0000	20 95
41 Carbon Tetrachloride	117	6 186	6 186	(0.916)	14534	25 0000	22.94
42 Benzene	78	6.417	6 417	(0 950)	61377	25.0000	25.24
45 1,2-Dichloroethane	62	6.447	6.447	(0 955)	22567	25 0000	25 35
47 Trichloroethene	130	7 159	7 159	(1.060)	15222	25.0000	23.80
49 1,2-Dichloropropane	63	7 384	7.384	(1 094)	14278	25 0000	23.31
50 Dibromomethane	93	7 512	7.512	(1 113)	9641	25.0000	23.94
53 Bromodichloromethane	83	7 694	7.694	(1 140)	15984	25.0000	21.22
57 cis-1,3-Dichloropropene	75	8 162	8 162	(1 209)	14778	25.0000	18 49
58 4-Methyl-2-Pentanone	43	8.333	8.333	(0 844)	8013	25 0000	13 38
60 Toluene	91	8.497	8 497	(0 861)	67372	25.0000	23 10
61 trans-1,3-Dichloropropene	75	8 728	8.728	(0.884)	17903	25.0000	20.69
63 1,3-Dichloropropane	76	9.062	9 062	(0.918)	24118	25 0000	22.91
64 1,1,2-Trichloroethane	97	8 904	8 904	(0.902)	16521	25 0000	25.83
65 Tetrachloroethene	164	9.056	9.056	(0.917)	12382	25.0000	24.41
66 2-Hexanone	43	9.184	9.184	(0 930)	4880	25.0000	11 80
67 Dibromochloromethane	129	9.300	9.300	(0 942)	12797	25.0000	20 86
68 1,2-Dibromoethane	107	9 397	9 397	(0.952)	14987	25 0000	23 79
70 Chlorobenzene	112	9.902	9.902	(1 003)	56733	25 0000	26 11
71 1,1,1,2-Tetrachloroethane	131	9 981	9.981	(1 011)	17170	25.0000	23.72
72 Ethylbenzene	106	10 017	10.017	(1 015)	26178	25.0000	22.85
73 m + p-Xylene	106	10 139	10 139	(1 027)	69996	50.0000	46.11
74 Xylene-o	106	10.528	10 528	(1 067)	30907	25 0000	21 54
M 75 Xylenes (total)	106				100904	25.0000	70 33
76 Styrene	104	10.540	10 540	(1.068)	50450	25 0000	20.94
77 Bromoform	173	10 710	10.710	(1 085)	7071	25 0000	21.24
78 Isopropylbenzene	105	10 899	10 899	(1 104)	76520	25.0000	20.82
79 Bromobenzene	156	11.185	11.185	(0.917)	20647	25.0000	25 55
81 n-Propylbenzene	120	11 306	11 306	(0.927)	21703	25 0000	22.64
82 2-Chlorotoluene	126	11 489	11.489	(0 942)	23621	25.0000	24.61
83 1,1,2,2-Tetrachloroethane	83	11 185	11.185	(0 917)	23999	25.0000	28 74
84 1,2,3-Trichloropropane	110	11 215	11.215	(0 920)	8261	25.0000	29.83
85 4-Chlorotoluene	126	11 489	11 489	(0 942)	23621	25.0000	24.61
86 1,3,5-Trimethylbenzene	105	11.489	11 489	(0.942)	69666	25.0000	22.77
87 tert-Butylbenzene	119	11 805	11.805	(0.968)	52658	25 0000	21.62
88 1,2,4-Trimethylbenzene	105	11 854	11 854	(0.972)	70186	25 0000	23 50

664 1035

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.030	12.030	(0.987)	89568	25.0000	23.35
90 4-Isopropyltoluene	119	12.176	12.176	(0.999)	75700	25.0000	23.22
91 1,3-Dichlorobenzene	146	12.127	12.127	(0.995)	44284	25.0000	25.84
93 1,4-Dichlorobenzene	146	12.219	12.219	(1.002)	48769	25.0000	28.25
94 n-Butylbenzene	91	12.584	12.584	(1.032)	61945	25.0000	21.70
95 1,2-Dichlorobenzene	146	12.584	12.584	(1.032)	43066	25.0000	26.42
96 1,2-Dibromo-3-chloropropane	157	13.350	13.350	(1.095)	3055	25.0000	26.76
97 1,2,4-Trichlorobenzene	180	14.189	14.189	(1.164)	19741	25.0000	24.87
98 Hexachlorobutadiene	225	14.371	14.371	(1.179)	10866	25.0000	29.46
99 Naphthalene	128	14.426	14.426	(1.183)	56090	25.0000	27.21
100 1,2,3-Trichlorobenzene	180	14.669	14.669	(1.203)	20340	25.0000	27.99

Data File: \\pittpa02\chem\hp3.1\307184.b\3330718.D
Date: 18-JUL-2000 12:39
Client ID: VSTD20
Sample Info: VSTD20 5HL
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 : \\gpitpa02\d\chem\hp3.i\30718d.b\3B30718.D
 Lab Smp Id: VSTD20 Client Smp ID: VSTD20
 Inj Date : 18-JUL-2000 12:39 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD20 5ML
 Misc Info : ,30718d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30718d.b\8260bh2o.m
 Meth Date : 18-Jul-2000 13:09 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 12:39 Cal File: 3B30718.D
 Als bottle: 17 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

*KLG
7/18/00*

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

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

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.748	6.748	(1.000)	542654	250.000	
* 69 Chlorobenzene-d5	119	9.868	9.868	(1.000)	152347	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.191	12.191	(1.000)	264206	250.000	
\$ 39 Dibromofluoromethane	113	5.994	5.994	(0.888)	52036	100.000	95.93
\$ 43 1,2-Dichloroethane-d4	65	6.359	6.359	(0.942)	60260	100.000	88.97
\$ 59 Toluene-d8	98	8.432	8.432	(0.855)	214631	100.000	96.47
\$ 80 Bromofluorobenzene	95	11.041	11.041	(1.119)	103318	100.000	104.0
1 Dichlorodifluoromethane	85	1.336	1.336	(0.198)	30736	100.000	113.3
2 Chloromethane	50	1.494	1.494	(0.221)	58453	100.000	123.7
3 Vinyl Chloride	62	1.603	1.603	(0.238)	60847	100.000	115.2
4 Bromomethane	94	1.895	1.895	(0.281)	24715	100.000	110.1
5 Chloroethane	64	1.998	1.998	(0.296)	19143	100.000	110.6
6 Trichlorofluoromethane	101	2.242	2.242	(0.332)	32584	100.000	108.5
12 1,1-Dichloroethene	96	2.832	2.832	(0.420)	64337	100.000	110.2
15 Carbon Disulfide	76	3.063	3.063	(0.454)	145636	100.000	100.8
13 Acetone	43	3.002	3.002	(0.445)	57226	100.000	92.65

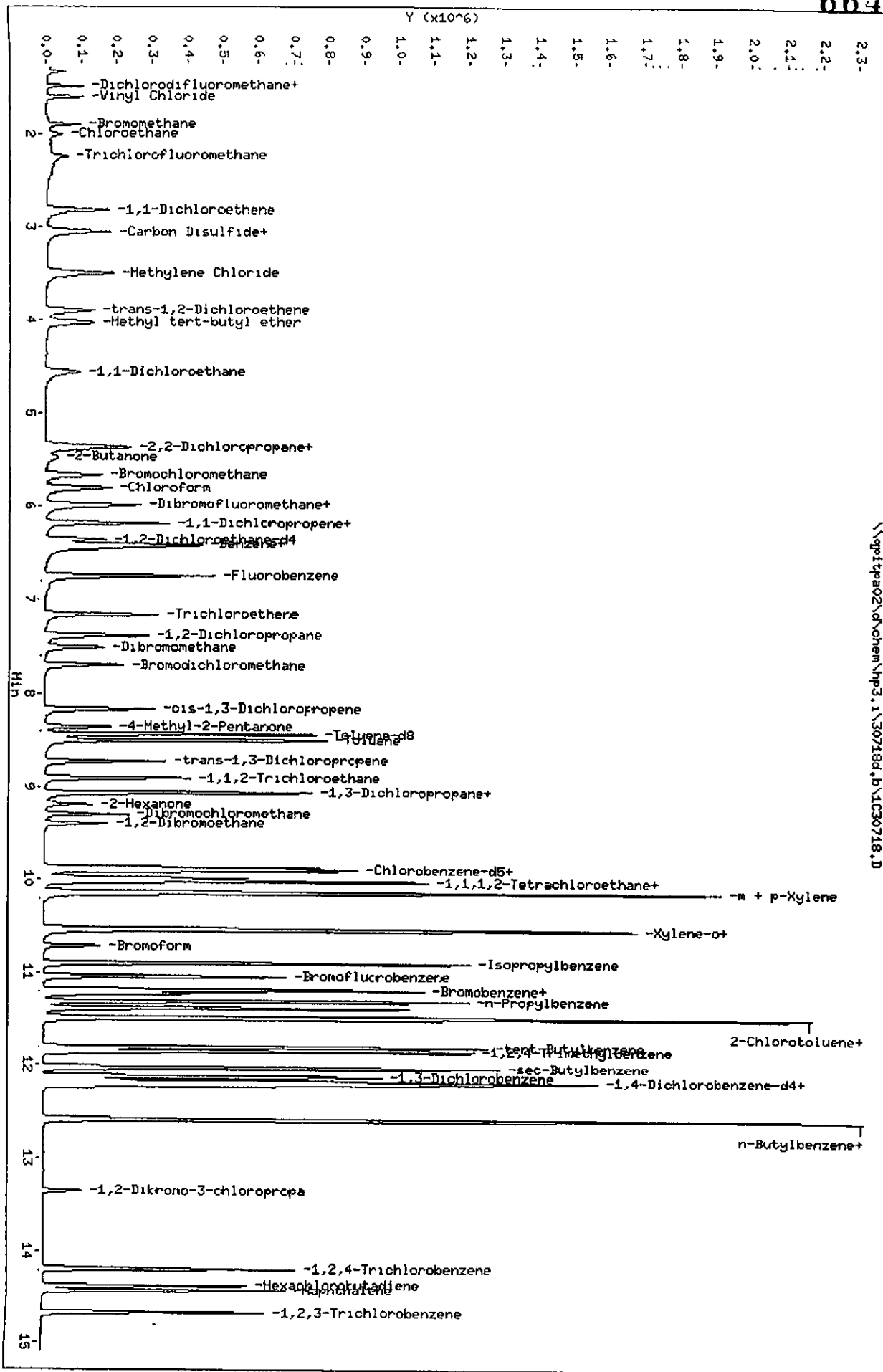
664 1038

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.494	3.494 (0.518)		77528	100.000	107.5
19 trans-1,2-Dichloroethene	96	3.908	3.908 (0.579)		51954	100.000	109.6
20 Methyl tert-butyl ether	73	4.005	4.005 (0.594)		92455	100.000	104.6
24 1,1-Dichloroethane	63	4.559	4.559 (0.676)		110340	100.000	115.4
27 2,2-Dichloropropane	77	5.349	5.349 (0.793)		57243	100.000	109.3
28 cis-1,2-dichloroethene	96	5.374	5.374 (0.796)		67693	100.000	115.6
M 29 1,2-Dichloroethene (total)	96				119648	200.000	225.8
30 Bromochloromethane	128	5.659	5.659 (0.839)		32479	100.000	112.6
31 2-Butanone	43	5.453	5.453 (0.808)		38287	100.000	104.2
37 Chloroform	83	5.799	5.799 (0.859)		113321	100.000	114.8
38 1,1,1-Trichloroethane	97	5.982	5.982 (0.886)		70874	100.000	101.1
40 1,1-Dichloropropene	75	6.188	6.188 (0.917)		52302	100.000	107.6
41 Carbon Tetrachloride	117	6.182	6.182 (0.916)		60030	100.000	106.1
42 Benzene	78	6.420	6.420 (0.951)		241286	100.000	111.9
45 1,2-Dichloroethane	62	6.444	6.444 (0.955)		91887	100.000	116.2
47 Trichloroethene	130	7.161	7.161 (1.061)		65504	100.000	114.7
49 1,2-Dichloropropane	63	7.380	7.380 (1.094)		63071	100.000	114.7
50 Dibromomethane	93	7.508	7.508 (1.113)		42153	100.000	115.1
53 Bromodichloromethane	83	7.697	7.697 (1.141)		73821	100.000	108.5
57 cis-1,3-Dichloropropene	75	8.159	8.159 (1.209)		76971	100.000	108.3
58 4-Methyl-2-Pentanone	43	8.335	8.335 (0.845)		55966	100.000	98.43
60 Toluene	91	8.499	8.499 (0.861)		306554	100.000	114.3
61 trans-1,3-Dichloropropene	75	8.724	8.724 (0.884)		87129	100.000	111.6
63 1,3-Dichloropropane	76	9.065	9.065 (0.919)		110202	100.000	113.7
64 1,1,2-Trichloroethane	97	8.907	8.907 (0.903)		67817	100.000	115.5
65 Tetrachloroethene	164	9.053	9.053 (0.917)		53466	100.000	115.7
66 2-Hexanone	43	9.180	9.180 (0.930)		37329	100.000	96.19
67 Dibromochloromethane	129	9.296	9.296 (0.942)		61162	100.000	108.4
68 1,2-Dibromoethane	107	9.393	9.393 (0.952)		66139	100.000	115.1
70 Chlorobenzene	112	9.898	9.898 (1.003)		226708	100.000	111.6
71 1,1,1,2-Tetrachloroethane	131	9.983	9.983 (1.012)		74035	100.000	112.5
72 Ethylbenzene	106	10.020	10.020 (1.015)		120350	100.000	115.2
73 m + p-Xylene	106	10.135	10.135 (1.027)		316166	200.000	228.8
74 Xylene-o	106	10.524	10.524 (1.067)		148743	100.000	114.9
M 75 Xylenes (total)	106				464910	100.000	359.2
76 Styrene	104	10.543	10.543 (1.068)		246892	100.000	113.7
77 Bromoform	173	10.713	10.713 (1.086)		31307	100.000	104.0
78 Isopropylbenzene	105	10.895	10.895 (1.104)		388001	100.000	117.6
79 Bromobenzene	156	11.181	11.181 (0.917)		91655	100.000	117.0
81 n-Propylbenzene	120	11.309	11.309 (0.928)		110223	100.000	120.4
82 2-Chlorotoluene	126	11.491	11.491 (0.943)		108777	100.000	116.6
83 1,1,1,2-Tetrachloroethane	83	11.181	11.181 (0.917)		92659	100.000	115.7
84 1,2,3-Trichloropropane	110	11.218	11.218 (0.920)		31202	100.000	117.7
85 4-Chlorotoluene	126	11.491	11.491 (0.943)		108777	100.000	116.6
86 1,3,5-Trimethylbenzene	105	11.485	11.485 (0.942)		345724	100.000	117.5
87 tert-Butylbenzene	119	11.808	11.808 (0.969)		278124	100.000	119.6
88 1,2,4-Trimethylbenzene	105	11.850	11.850 (0.972)		338926	100.000	118.8

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.026	12.026	(0.987)	443000	100.000	121.5
90 4-Isopropyltoluene	119	12.172	12.172	(0.999)	368430	100.000	118.1
91 1,3-Dichlorobenzene	146	12.130	12.130	(0.995)	186189	100.000	117.2
93 1,4-Dichlorobenzene	146	12.215	12.215	(1.002)	194189	100.000	116.0
94 n-Butylbenzene	91	12.580	12.580	(1.032)	311832	100.000	115.8
95 1,2-Dichlorobenzene	146	12.580	12.580	(1.032)	179944	100.000	115.1
96 1,2-Dibromo-3-chloropropane	157	13.346	13.346	(1.095)	11174	100.000	105.4
97 1,2,4-Trichlorobenzene	180	14.185	14.185	(1.164)	85951	100.000	116.4
98 Hexachlorobutadiene	225	14.374	14.374	(1.179)	41400	100.000	122.5
99 Naphthalene	128	14.423	14.423	(1.183)	224588	100.000	124.0
100 1,2,3-Trichlorobenzene	180	14.672	14.672	(1.204)	79437	100.000	120.6

Date File: \\ppitpa02\chem\mp3.1\30718d.b\1C30718.D
Date: 18-JUL-2000 06:14
Client ID: VSTD50
Sample Info: VSTD50 EHL
Purge Volume: 5.0
Column phase: DB 624

Instrument: mp3.1
Operator: 10099
Column diameter: 0.18



STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30718d.b\1C30718.D
 Lab Smp Id: VSTD50 Client Smp ID: VSTD50
 Inj Date : 18-JUL-2000 06:14 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD50 5ML
 Misc Info : VSTD50,30718d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\qpitpa02\d\chem\hp3.i\30718d.b\8260bh2o.m
 Meth Date : 18-Jul-2000 09:17 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 06:14 Cal File: 1C30718.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

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	6.748	6.748	(1.000)	489351	250.000	
* 69 Chlorobenzene-d5	119	9.874	9.874	(1.000)	144127	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.191	12.191	(1.000)	257376	250.000	
\$ 39 Dibromofluoromethane	113	5.994	5.994	(0.888)	124818	250.000	250.0
\$ 43 1,2-Dichloroethane-d4	65	6.359	6.359	(0.942)	155195	250.000	250.0
\$ 59 Toluene-d8	98	8.432	8.432	(0.854)	545657	250.000	250.0
\$ 80 Bromofluorobenzene	95	11.041	11.041	(1.118)	235333	250.000	250.0
1 Dichlorodifluoromethane	85	1.336	1.336	(0.198)	36975	250.000	250.0
2 Chloromethane	50	1.488	1.488	(0.221)	82420	250.000	250.0
3 Vinyl Chloride	62	1.603	1.603	(0.238)	102461	250.000	250.0
4 Bromomethane	94	1.895	1.895	(0.281)	46031	250.000	250.0
5 Chloroethane	64	1.998	1.998	(0.296)	38270	250.000	250.0
6 Trichlorofluoromethane	101	2.236	2.236	(0.331)	71020	250.000	250.0
12 1,1-Dichloroethene	96	2.819	2.819	(0.418)	112993	250.000	250.0
15 Carbon Disulfide	76	3.050	3.050	(0.452)	310905	250.000	250.0
13 Acetone	43	3.026	3.026	(0.448)	91756	250.000	250.0

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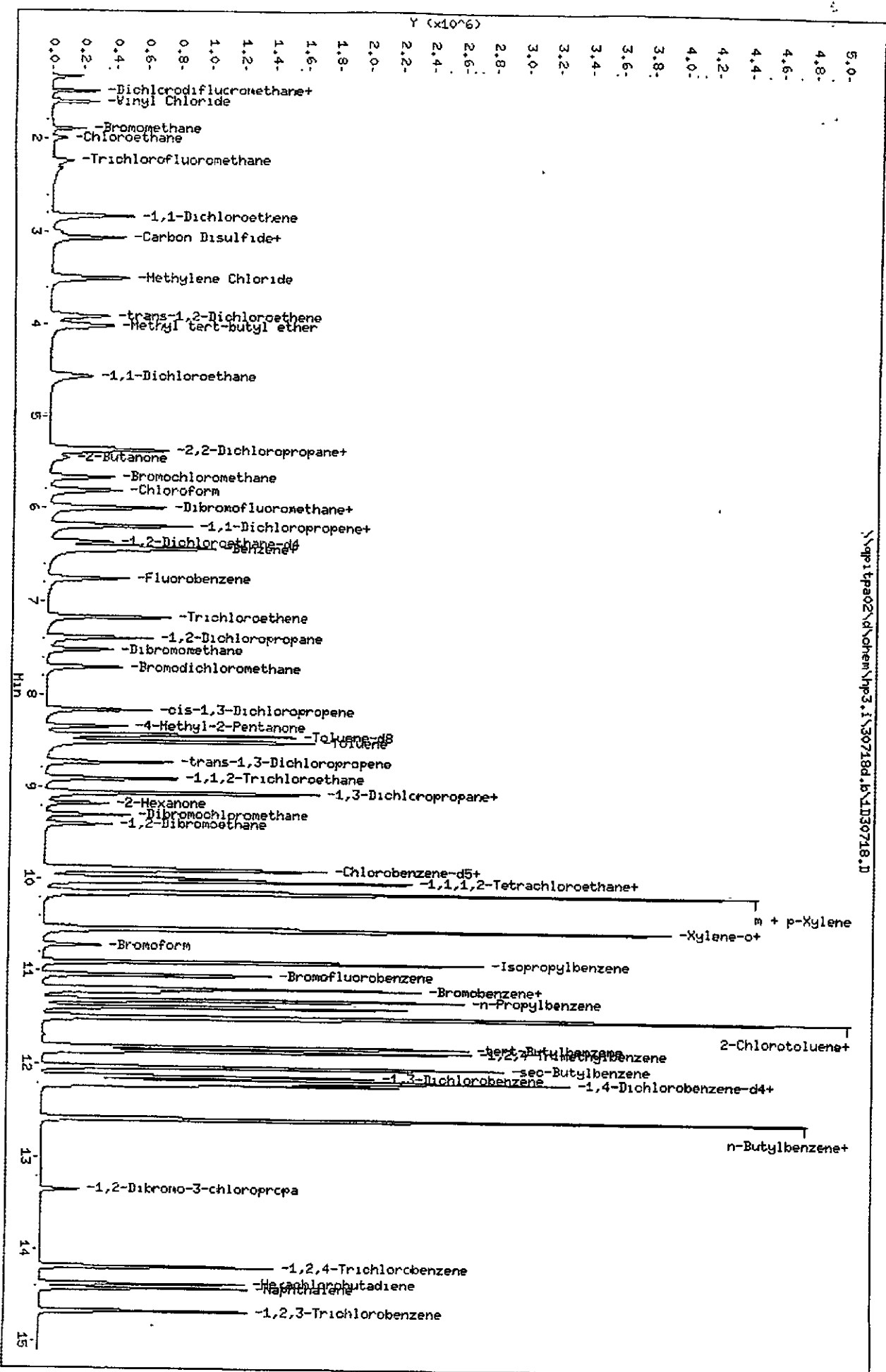
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.494	3.494	(0.518)	150472	250.000	250.0
19 trans-1,2-Dichloroethene	96	3.902	3.902	(0.578)	96343	250.000	250.0
20 Methyl tert-butyl ether	73	4.030	4.030	(0.597)	168086	250.000	250.0
24 1,1-Dichloroethane	63	4.559	4.559	(0.676)	188434	250.000	250.0
27 2,2-Dichloropropane	77	5.349	5.349	(0.793)	95148	250.000	250.0
28 cis-1,2-dichloroethene	96	5.374	5.374	(0.796)	117904	250.000	250.0
M 29 1,2-Dichloroethene (total)	96				214247	500.000	500.0
30 Bromochloromethane	128	5.665	5.665	(0.840)	61931	250.000	250.0
31 2-Butanone	43	5.477	5.477	(0.812)	79444	250.000	250.0
37 Chloroform	83	5.805	5.805	(0.860)	211322	250.000	250.0
38 1,1,1-Trichloroethane	97	5.982	5.982	(0.886)	129411	250.000	250.0
40 1,1-Dichloropropene	75	6.188	6.188	(0.917)	108554	250.000	250.0
41 Carbon Tetrachloride	117	6.182	6.182	(0.916)	105045	250.000	250.0
42 Benzene	78	6.413	6.413	(0.950)	460434	250.000	250.0
45 1,2-Dichloroethane	62	6.444	6.444	(0.955)	167751	250.000	250.0
47 Trichloroethene	130	7.161	7.161	(1.061)	118830	250.000	250.0
49 1,2-Dichloropropane	63	7.386	7.386	(1.095)	117565	250.000	250.0
50 Dibromomethane	93	7.508	7.508	(1.113)	78013	250.000	250.0
53 Bromodichloromethane	83	7.697	7.697	(1.141)	158996	250.000	250.0
57 cis-1,3-Dichloropropene	75	8.159	8.159	(1.209)	174331	250.000	250.0
58 4-Methyl-2-Pentanone	43	8.347	8.347	(0.845)	136356	250.000	250.0
60 Toluene	91	8.499	8.499	(0.861)	602711	250.000	250.0
61 trans-1,3-Dichloropropene	75	8.730	8.730	(0.884)	184503	250.000	250.0
63 1,3-Dichloropropane	76	9.065	9.065	(0.918)	223144	250.000	250.0
64 1,1,2-Trichloroethane	97	8.907	8.907	(0.902)	133442	250.000	250.0
65 Tetrachloroethene	164	9.053	9.053	(0.917)	101543	250.000	250.0
66 2-Hexanone	43	9.180	9.180	(0.930)	90503	250.000	250.0
67 Dibromochloromethane	129	9.302	9.302	(0.942)	135778	250.000	250.0
68 1,2-Dibromoethane	107	9.399	9.399	(0.952)	131900	250.000	250.0
70 Chlorobenzene	112	9.898	9.898	(1.002)	451580	250.000	250.0
71 1,1,1,2-Tetrachloroethane	131	9.983	9.983	(1.011)	154612	250.000	250.0
72 Ethylbenzene	106	10.020	10.020	(1.015)	241816	250.000	250.0
73 m + p-Xylene	106	10.135	10.135	(1.026)	629101	500.000	500.0
74 Xylene-o	106	10.530	10.530	(1.067)	304746	250.000	250.0
M 75 Xylenes (total)	106				933847	250.000	766.1
76 Styrene	104	10.543	10.543	(1.068)	519583	250.000	250.0
77 Bromoform	173	10.713	10.713	(1.085)	71833	250.000	250.0
78 Isopropylbenzene	105	10.895	10.895	(1.103)	770009	250.000	250.0
79 Bromobenzene	156	11.187	11.187	(0.918)	186393	250.000	250.0
81 n-Propylbenzene	120	11.309	11.309	(0.920)	231830	250.000	250.0
82 2-Chlorotoluene	126	11.491	11.491	(0.943)	222069	250.000	250.0
83 1,1,2,2-Tetrachloroethane	83	11.187	11.187	(0.918)	193934	250.000	250.0
84 1,2,3-Trichloropropane	110	11.218	11.218	(0.920)	62375	250.000	250.0
85 4-Chlorotoluene	126	11.491	11.491	(0.943)	222069	250.000	250.0
86 1,3,5-Trimethylbenzene	105	11.485	11.485	(0.942)	721437	250.000	250.0
87 tert-Butylbenzene	119	11.808	11.808	(0.969)	594962	250.000	250.0
88 1,2,4-Trimethylbenzene	105	11.850	11.850	(0.972)	718834	250.000	250.0

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.026	12.026	(0.987)	893385	250.000	250.0
90 4-Isopropyltoluene	119	12.172	12.172	(0.999)	760030	250.000	250.0
91 1,3-Dichlorobenzene	146	12.124	12.124	(0.995)	382812	250.000	250.0
93 1,4-Dichlorobenzene	146	12.215	12.215	(1.002)	391889	250.000	250.0
94 n-Butylbenzene	91	12.580	12.580	(1.032)	683791	250.000	250.0
95 1,2-Dichlorobenzene	146	12.580	12.580	(1.032)	380976	250.000	250.0
96 1,2-Dibromo-3-chloropropane	157	13.346	13.346	(1.095)	25462	250.000	250.0
97 1,2,4-Trichlorobenzene	180	14.185	14.185	(1.164)	183903	250.000	250.0
98 Hexachlorobutadiene	225	14.374	14.374	(1.179)	81009	250.000	250.0
99 Naphthalene	128	14.423	14.423	(1.183)	493740	250.000	250.0
100 1,2,3-Trichlorobenzene	180	14.672	14.672	(1.204)	167685	250.000	250.0

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Date: File: \\ep1tpa02\chem\hp3.1\307184.b\1D30718.D
Date: 18-JUL-2000 09:56
Client ID: WSTD100
Sample Info: WSTD100 BML
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\30718d.b\1D30718.D
 Lab Smp Id: VSTD100 Client Smp ID: VSTD100
 Inj Date : 18-JUL-2000 09:55 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD100 5ML
 Misc Info : ,30718d.b,8260bh2o.m,4-dwh20.sub
 Comment :
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 Meth Date : 18-Jul-2000 10:25 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 09:55 Cal File: 1D30718.D
 Als bottle: 12 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE *KEG 7/18/00* Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	****	96	6.751	6.751	(1.000)	563567	250.000	
* 69 Chlorobenzene-d5		119	9.877	9.877	(1.000)	149698	250.000	
* 92 1,4-Dichlorobenzene-d4		152	12.194	12.194	(1.000)	278213	250.000	
\$ 39 Dibromofluoromethane		113	5.997	5.997	(0.888)	281850	500.000	499.2
\$ 43 1,2-Dichloroethane-d4		65	6.362	6.362	(0.942)	349562	500.000	496.4
\$ 59 Toluene-d8		98	8.436	8.436	(0.854)	1205178	500.000	560.8
\$ 80 Bromofluorobenzene		95	11.038	11.038	(1.118)	504632	500.000	541.4
1 Dichlorodifluoromethane		85	1.333	1.333	(0.197)	142500	500.000	530.8
2 Chloromethane		50	1.491	1.491	(0.221)	225559	500.000	502.6
3 Vinyl Chloride		62	1.600	1.600	(0.237)	263198	500.000	520.6
4 Bromomethane		94	1.898	1.898	(0.281)	100891	500.000	444.2
5 Chloroethane		64	2.001	2.001	(0.297)	80315	500.000	457.8
6 Trichlorofluoromethane		101	2.245	2.245	(0.333)	157393	500.000	501.2
12 1,1-Dichloroethene		96	2.835	2.835	(0.420)	308115	500.000	520.5
15 Carbon Disulfide		76	3.066	3.066	(0.454)	837622	500.000	600.6
13 Acetone		43	3.011	3.011	(0.446)	162705	500.000	224.4

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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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18 Methylene Chloride	84	3 497	3 497	(0 518)	347153	500 000	472 5
19 trans-1,2-Dichloroethene	96	3 911	3 911	(0 579)	257991	500 000	560 2
20 Methyl tert-butyl ether	73	4 014	4 014	(0.595)	578429	500 000	750 8
24 1,1-Dichloroethane	63	4 562	4 562	(0 676)	489902	500 000	526 6
27 2,2-Dichloropropane	77	5.358	5 358	(0 794)	304759	500.000	639 0
28 cis-1,2-dichloroethene	96	5 377	5 377	(0 796)	310029	500 000	563 1
M 29 1,2-Dichloroethene (total)	96				568021	1000 00	1123
30 Bromochloromethane	128	5 669	5.669	(0 840)	146661	500 000	524 0
31 2-Butanone	43	5 462	5 462	(0 809)	183420	500 000	527 6
37 Chloroform	83	5 808	5.808	(0 860)	485059	500 000	507.9
38 1,1,1-Trichloroethane	97	5 991	5 991	(0 887)	415341	500 000	651 4
40 1,1-Dichloropropene	75	6.191	6 191	(0 917)	283295	500.000	656 8
41 Carbon Tetrachloride	117	6.191	6.191	(0 917)	335979	500.000	667 3
42 Benzene	78	6.423	6 423	(0 951)	1165709	500.000	564 3
45 1,2-Dichloroethane	62	6 453	6.453	(0 956)	400992	500.000	527 5
47 Trichloroethene	130	7 165	7 165	(1 061)	297668	500.000	569.3
49 1,2-Dichloropropane	63	7.383	7.383	(1.094)	281561	500 000	548.1
50 Dibromomethane	93	7 511	7 511	(1.113)	179074	500 000	512.9
53 Bromodichloromethane	83	7.700	7.700	(1.141)	342732	500.000	540 4
57 cis-1,3-Dichloropropene	75	8 162	8 162	(1 209)	378033	500.000	595 2
58 4-Methyl-2-Pentanone	43	8 338	8 338	(0.844)	328106	500.000	669 0
60 Toluene	91	8 502	8 502	(0.861)	1390620	500.000	577 8
61 trans-1,3-Dichloropropene	75	8 727	8.727	(0.884)	418645	500 000	630 5
63 1,3-Dichloropropane	76	9 068	9.068	(0.918)	489267	500.000	562 1
64 1,1,2-Trichloroethane	97	8 910	8 910	(0 902)	284384	500.000	528 5
65 Tetrachloroethene	164	9 056	9 056	(0.917)	233720	500 000	570.0
66 2-Hexanone	43	9 177	9 177	(0.929)	242198	500.000	735.3
67 Dibromochloromethane	129	9.299	9.299	(0.942)	291243	500.000	593 5
68 1,2-Dibromoethane	107	9.396	9.396	(0 951)	292666	500 000	571.6
70 Chlorobenzene	112	9 901	9 901	(1.002)	963584	500 000	514.1
71 1,1,1,2-Tetrachloroethane	131	9 986	9 986	(1.011)	329811	500 000	564.5
72 Ethylbenzene	106	10 017	10 017	(1 014)	533369	500 000	570.0
73 m + p-Xylene	106	10.138	10.138	(1.026)	1396476	1000 00	1145
74 Xylene-o	106	10 527	10.527	(1 066)	676621	500.000	601 2
M 75 Xylenes (total)	106				2073098	500 000	1842
76 Styrene	104	10 540	10.540	(1.067)	1141562	500 000	604.5
77 Bromoform	173	10.716	10.716	(1 085)	161155	500 000	623.9
78 Isopropylbenzene	105	10.898	10.898	(1 103)	1783965	500.000	623 8
79 Bromobenzene	156	11 184	11.184	(0 917)	405016	500 000	538 0
81 n-Propylbenzene	120	11 306	11 306	(0 927)	498877	500.000	580 0
82 2-Chlorotoluene	126	11 494	11.494	(0 943)	482620	500 000	543.4
83 1,1,2,2-Tetrachloroethane	83	11.184	11 184	(0 917)	400660	500 000	512 6
84 1,2,3-Trichloropropane	110	11 221	11.221	(0.920)	132559	500 000	512 9
85 4-Chlorotoluene	126	11 494	11 494	(0 943)	482620	500 000	543 4
86 1,3,5-Trimethylbenzene	105	11 482	11 482	(0 942)	1593435	500.000	576 4
87 tert-Butylbenzene	119	11 805	11 805	(0.968)	1279529	500.000	589.8
88 1,2,4-Trimethylbenzene	105	11 853	11 853	(0 972)	1533024	500 000	565.2

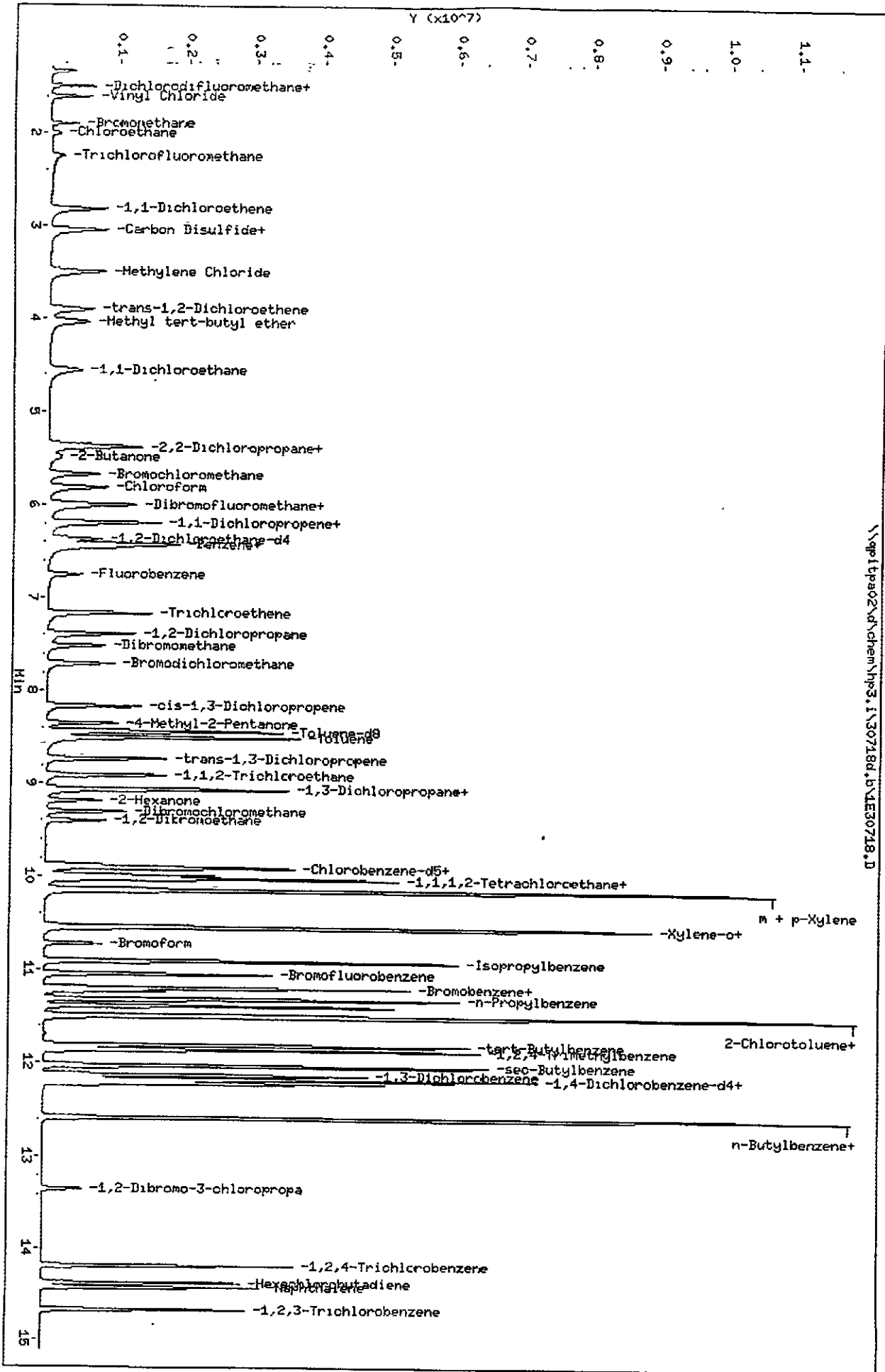
664 1047

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.023	12 023	(0.986)	2000194	500.000	584.8
90 4-Isopropyltoluene	119	12 176	12.176	(0.999)	1699937	500 000	580.4
91 1,3-Dichlorobenzene	146	12 127	12 127	(0.995)	801521	500 000	522.4
93 1,4-Dichlorobenzene	146	12 212	12 212	(1.001)	822260	500.000	504.7
94 n-Butylbenzene	91	12 577	12 577	(1.031)	1513047	500.000	615.2
95 1,2-Dichlorobenzene	146	12 583	12 583	(1.032)	792358	500.000	530.5
96 1,2-Dibromo-3-chloropropane	157	13 349	13.349	(1.095)	58013	500 000	608.1
97 1,2,4-Trichlorobenzene	180	14 188	14.188	(1.164)	402155	500 000	604.8
98 Hexachlorobutadiene	225	14 371	14.371	(1.179)	172670	500.000	545.1
99 Naphthalene	128	14 420	14 420	(1.183)	977048	500.000	602.7
100 1,2,3-Trichlorobenzene	180	14 669	14 669	(1.203)	347336	500.000	566.8

Data File: \\qpltpa02\chem\hps3.i\30718d.b\1E30718.D
Date: 18-JUL-2000 10:17
Client ID: VSTD200
Sample Info: VSTD200 SHL
Purge Volume: 5.0
Column phase: DB 624

Instrument: hps3.i
Operator: 10099
Column diameter: 0.18

\\qpltpa02\chem\hps3.i\30718d.b\1E30718.D



664 1049

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30718d.b\1E30718.D
 Lab Smp Id: VSTD200 Client Smp ID: VSTD200
 Inj Date : 18-JUL-2000 10:17 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD200 5ML
 Misc Info : ,30718d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30718d.b\8260bh2o.m
 Meth Date : 18-Jul-2000 10:48 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 10:17 Cal File: 1E30718.D
 Als bottle: 13 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

*KLG
7/18/00*

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96		6.754	6.754	(1.000)	552460	250.000	
* 69 Chlorobenzene-d5	119		9.873	9.873	(1.000)	165000	250.000	
* 92 1,4-Dichlorobenzene-d4	152		12.190	12.190	(1.000)	306229	250.000	
\$ 39 Dibromofluoromethane	113		6.000	6.000	(0.888)	599005	1000.00	1065
\$ 43 1,2-Dichloroethane-d4	65		6.364	6.364	(0.942)	734193	1000.00	1050
\$ 59 Toluene-d8	98		8.432	8.432	(0.854)	2632294	1000.00	1087
\$ 80 Bromofluorobenzene	95		11.041	11.041	(1.118)	1154935	1000.00	1097
1 Dichlorodifluoromethane	85		1.335	1.335	(0.198)	282910	1000.00	1059
2 Chloromethane	50		1.493	1.493	(0.221)	478583	1000.00	1069
3 Vinyl Chloride	62		1.603	1.603	(0.237)	563658	1000.00	1107
4 Bromomethane	94		1.901	1.901	(0.281)	200207	1000.00	917.6
5 Chloroethane	64		2.004	2.004	(0.297)	161516	1000.00	950.7
6 Trichlorofluoromethane	101		2.241	2.241	(0.332)	299885	1000.00	979.3
12 1,1-Dichloroethene	96		2.813	2.813	(0.417)	538067	1000.00	941.0
15 Carbon Disulfide	76		3.044	3.044	(0.451)	1498768	1000.00	1076
13 Acetone	43		3.038	3.038	(0.450)	288661	1000.00	460.8

664 1050

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.494	3.494	(0.517)	662971	1000.00	935.4
19 trans-1,2-Dichloroethene	96	3.901	3.901	(0.578)	472150	1000.00	1036
20 Methyl tert-butyl ether	73	4.041	4.041	(0.598)	1021031	1000.00	1263
24 1,1-Dichloroethane	63	4.558	4.558	(0.675)	966979	1000.00	1048
27 2,2-Dichloropropane	77	5.361	5.361	(0.794)	582485	1000.00	1187
28 cis-1,2-dichloroethene	96	5.373	5.373	(0.796)	616456	1000.00	1110
M 29 1,2-Dichloroethene (total)	96				1088606	2000.00	2154
30 Bromochloromethane	128	5.671	5.671	(0.840)	297733	1000.00	1067
31 2-Butanone	43	5.483	5.483	(0.812)	414517	1000.00	1166
37 Chloroform	83	5.811	5.811	(0.860)	998463	1000.00	1052
38 1,1,1-Trichloroethane	97	5.987	5.987	(0.887)	840980	1000.00	1258
40 1,1-Dichloropropene	75	6.188	6.188	(0.916)	555244	1000.00	1236
41 Carbon Tetrachloride	117	6.188	6.188	(0.916)	659544	1000.00	1252
42 Benzene	78	6.419	6.419	(0.950)	2194178	1000.00	1066
45 1,2-Dichloroethane	62	6.450	6.450	(0.955)	817111	1000.00	1076
47 Trichloroethene	130	7.161	7.161	(1.060)	617915	1000.00	1158
49 1,2-Dichloropropane	63	7.386	7.386	(1.094)	590284	1000.00	1133
50 Dibromomethane	93	7.514	7.514	(1.113)	380556	1000.00	1088
53 Bromodichloromethane	83	7.702	7.702	(1.140)	762952	1000.00	1174
57 cis-1,3-Dichloropropene	75	8.164	8.164	(1.209)	851359	1000.00	1274
58 4-Methyl-2-Pentanone	43	8.347	8.347	(0.845)	766045	1000.00	1308
60 Toluene	91	8.499	8.499	(0.861)	2949709	1000.00	1088
61 trans-1,3-Dichloropropene	75	8.730	8.730	(0.884)	960836	1000.00	1236
63 1,3-Dichloropropane	76	9.071	9.071	(0.919)	1078916	1000.00	1097
64 1,1,2-Trichloroethane	97	8.906	8.906	(0.902)	609460	1000.00	1022
65 Tetrachloroethene	164	9.058	9.058	(0.917)	517367	1000.00	1112
66 2-Hexanone	43	9.180	9.180	(0.930)	551972	1000.00	1377
67 Dibromochloromethane	129	9.302	9.302	(0.942)	673982	1000.00	1188
68 1,2-Dibromoethane	107	9.399	9.399	(0.952)	628981	1000.00	1089
70 Chlorobenzene	112	9.904	9.904	(1.003)	2097586	1000.00	1012
71 1,1,1,2-Tetrachloroethane	131	9.989	9.989	(1.012)	746023	1000.00	1123
72 Ethylbenzene	106	10.019	10.019	(1.015)	1175675	1000.00	1109
73 m + p-Xylene	106	10.141	10.141	(1.027)	3213176	2000.00	2300
74 Xylene-o	106	10.530	10.530	(1.067)	1542066	1000.00	1186
M 75 Xylenes (total)	106				4755242	1000.00	3656
76 Styrene	104	10.542	10.542	(1.068)	2632021	1000.00	1201
77 Bromoform	173	10.719	10.719	(1.086)	382742	1000.00	1258
78 Isopropylbenzene	105	10.901	10.901	(1.104)	3922809	1000.00	1186
79 Bromobenzene	156	11.187	11.187	(0.918)	914391	1000.00	1081
81 n-Propylbenzene	120	11.309	11.309	(0.928)	1105709	1000.00	1130
82 2-Chlorotoluene	126	11.497	11.497	(0.943)	1122607	1000.00	1115
83 1,1,1,2-Tetrachloroethane	83	11.187	11.187	(0.918)	877268	1000.00	1016
84 1,2,3-Trichloropropane	110	11.223	11.223	(0.921)	281212	1000.00	990.8
85 4-Chlorotoluene	126	11.497	11.497	(0.943)	1122607	1000.00	1115
86 1,3,5-Trimethylbenzene	105	11.485	11.485	(0.942)	3664745	1000.00	1157
87 tert-Butylbenzene	119	11.807	11.807	(0.969)	2894139	1000.00	1163
88 1,2,4-Trimethylbenzene	105	11.856	11.856	(0.973)	3439193	1000.00	1118

664 1051

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.026	12 026	(0.987)	4432714	1000 00	1137
90 4-Isopropyltoluene	119	12.172	12 172	(0.999)	3872965	1000 00	1155
91 1,3-Dichlorobenzene	146	12.130	12 130	(0.995)	1824477	1000 00	1063
93 1,4-Dichlorobenzene	146	12.215	12 215	(1.002)	1879646	1000 00	1038
94 n-Butylbenzene	91	12.580	12 580	(1.032)	3578097	1000 00	1242
95 1,2-Dichlorobenzene	146	12.586	12 586	(1.032)	1864528	1000.00	1104
96 1,2-Dibromo-3-chloropropane	157	13.346	13 346	(1.095)	145809	1000 00	1288
97 1,2,4-Trichlorobenzene	180	14.185	14 185	(1.164)	956642	1000 00	1231
98 Hexachlorobutadiene	225	14.374	14 374	(1.179)	401501	1000 00	1118
99 Naphthalene	128	14.422	14 422	(1.183)	2314780	1000 00	1224
100 1,2,3-Trichlorobenzene	180	14.672	14 672	(1.204)	810117	1000 00	1155

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

664 1052

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30721D

Instrument ID: HP3

Calibration Date: 07/21/00

Time: 0700

Lab File ID: 1C30721

Init. Calib. Date(s): 07/18/00

07/18/00

Heated Purge: (Y/N) N

Init. Calib. Times: 0614

1316

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.126	0.119	0.01	5.6	50.0
Chloromethane	0.221	0.199	0.1	10.0	50.0
Vinyl Chloride	0.250	0.227	0.01	9.2	20.0
Bromomethane	0.103	0.062	0.01	39.8	50.0
Chloroethane	0.079	0.056	0.01	29.1	50.0
Trichlorofluoromethane	0.137	0.118	0.01	13.9	50.0
1,1-Dichloroethene	0.273	0.225	0.01	17.6	20.0
Methylene Chloride	0.326	0.266	0.01	18.4	50.0
trans-1,2-Dichloroethene	0.223	0.218	0.01	2.2	50.0
1,1-Dichloroethane	0.449	0.432	0.1	3.8	50.0
cis-1,2-dichloroethene	0.276	0.263	0.01	4.7	50.0
Chloroform	0.464	0.433	0.01	6.7	20.0
Bromochloromethane	0.135	0.128	0.01	5.2	50.0
1,1,1-Trichloroethane	0.331	0.349	0.01	5.4	50.0
Carbon Tetrachloride	0.266	0.270	0.01	1.5	50.0
1,2-Dichloroethane	0.374	0.370	0.01	1.1	50.0
Benzene	1.022	1.001	0.01	2.0	50.0
Trichloroethene	0.269	0.255	0.01	5.2	50.0
1,2-Dichloropropane	0.257	0.250	0.01	2.7	20.0
Bromodichloromethane	0.317	0.308	0.01	2.8	50.0
cis-1,3-Dichloropropene	0.336	0.348	0.01	3.6	50.0
Toluene	4.496	4.379	0.01	2.6	20.0
trans-1,3-Dichloropropene	1.334	1.388	0.01	4.0	50.0
1,1,2-Trichloroethane	0.986	0.900	0.01	8.7	50.0
Tetrachloroethene	0.782	0.697	0.01	10.9	50.0
Dibromochloromethane	0.946	0.884	0.01	6.6	50.0
Chlorobenzene	3.349	3.072	0.3	8.3	50.0
Ethylbenzene	1.766	1.637	0.01	7.3	20.0
Styrene	3.714	3.284	0.01	11.6	50.0
Bromoform	0.513	0.425	0.1	17.2	50.0
1,1,2,2-Tetrachloroethane	0.797	0.835	0.3	4.8	50.0
1,3-Dichlorobenzene	1.573	1.565	0.01	0.5	50.0
1,4-Dichlorobenzene	1.646	1.586	0.01	3.6	50.0
1,2-Dichlorobenzene	1.554	1.484	0.01	4.5	50.0
Dibromomethane	0.169	0.152	0.01	10.0	50.0
1,2-Dibromoethane	0.971	0.907	0.01	6.6	50.0
1,1,1,2-Tetrachloroethane	1.116	1.012	0.01	9.3	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

664 1053

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 30721D

Instrument ID: HP3

Calibration Date: 07/21/00

Time: 0700

Lab File ID: 1C30721

Init. Calib. Date(s): 07/18/00

07/18/00

Heated Purge: (Y/N) N

Init. Calib. Times: 0614

1316

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2,3-Trichloropropane	0.264	0.274	0.01	3.8	50.0
1,2-Dibromo-3-chloropropane	0.109	0.104	0.01	4.6	50.0
2,2-Dichloropropane	0.248	0.292	0.01	17.7	50.0
1,1-Dichloropropene	0.232	0.243	0.01	4.7	50.0
1,3-Dichloropropane	1.622	1.572	0.01	3.1	50.0
n-Propylbenzene	0.914	0.992	0.01	8.5	50.0
Bromobenzene	0.771	0.782	0.01	1.4	50.0
1,3,5-Trimethylbenzene	2.918	3.175	0.01	8.8	50.0
2-Chlorotoluene	0.915	0.917	0.01	0.2	50.0
4-Chlorotoluene	0.915	0.917	0.01	0.2	50.0
tert-Butylbenzene	2.323	2.616	0.01	12.6	50.0
1,2,4-Trimethylbenzene	2.848	3.097	0.01	8.7	50.0
sec-Butylbenzene	3.659	4.003	0.01	9.4	50.0
4-Isopropyltoluene	3.109	3.377	0.01	8.6	50.0
n-Butylbenzene	2.722	2.872	0.01	5.5	50.0
1,2,4-Trichlorobenzene	0.757	0.711	0.01	6.1	50.0
Hexachlorobutadiene	0.352	0.273	0.01	22.4	50.0
Naphthalene	1.966	1.831	0.01	6.9	50.0
1,2,3-Trichlorobenzene	0.693	0.592	0.01	14.6	50.0
Acetone	0.257	0.137	0.01	46.7	50.0
Carbon Disulfide	0.710	0.533	0.01	24.9	50.0
2-Butanone	0.164	0.163	0.01	0.6	50.0
4-Methyl-2-Pentanone	0.923	1.018	0.01	10.3	50.0
2-Hexanone	0.637	0.706	0.01	10.8	50.0
Methyl tert-butyl ether	0.450	0.464	0.01	3.1	50.0
Isopropylbenzene	5.666	5.127	0.01	9.5	50.0
1,2-Dichloroethene (total)	0.249	0.241	0.01	3.2	50.0
Xylenes (total)	2.211	2.023	0.01	8.5	50.0
Dibromofluoromethane	0.243	0.242	0.01	0.4	50.0
1,2-Dichloroethane-d4	0.300	0.305	0.01	1.7	50.0
Toluene-d8	3.619	3.950	0.01	9.1	50.0
Bromofluorobenzene	1.611	1.586	0.01	1.6	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: hp3.i
 Lab File ID: 1C30721.D
 Analysis Type: WATER

Injection Date: 21-JUL-2000 07:00
 Lab Sample ID: VSTD50
 Method File: \\QPITPA02\D\chem\hp3.i\30721d.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
154 Xylenes (total)	750.0000	707.6584	5.6	50.0
153 1,2-Dichloroethene (total)	500.0000	482.6027	3.5	50.0
1 Dichlorodifluoromethane	250.0000	235.8269	5.7	50.0
2 Chloromethane	250.0000	224.6789	10.1	50.0
3 Vinyl Chloride	250.0000	227.1253	9.1	20.0
4 Bromomethane	250.0000	152.0364	39.2	50.0
5 Chloroethane	250.0000	176.0181	29.6	50.0
6 Trichlorofluoromethane	250.0000	215.9912	13.6	50.0
9 1,1-Dichloroethene	250.0000	206.0986	17.6	20.0
106 Acetone	250.0000	133.0112	46.8	50.0
107 Carbon Disulfide	250.0000	187.8215	24.9	50.0
10 Methylene Chloride	250.0000	204.1348	18.3	50.0
13 trans-1,2-Dichloroethene	250.0000	244.5563	2.2	50.0
134 Methyl tert-butyl ether	250.0000	257.9727	3.2	50.0
15 1,1-Dichloroethane	250.0000	240.8936	3.6	50.0
74 2,2-Dichloropropane	250.0000	294.6042	17.8	50.0
17 cis-1,2-dichloroethene	250.0000	238.6690	4.5	50.0
108 2-Butanone	250.0000	248.6279	0.5	50.0
19 Bromochloromethane	250.0000	236.3594	5.5	50.0
18 Chloroform	250.0000	233.3908	6.6	20.0
20 1,1,1-Trichloroethane	250.0000	263.3175	5.3	50.0
149 Dibromofluoromethane	250.0000	249.8301	0.1	50.0
21 Carbon Tetrachloride	250.0000	253.1810	1.3	50.0
75 1,1-Dichloropropene	250.0000	262.3151	4.9	50.0
150 1,2-Dichloroethane-d4	250.0000	253.5903	1.4	50.0
24 Benzene	250.0000	244.7284	2.1	50.0
23 1,2-Dichloroethane	250.0000	246.9496	1.2	50.0
137 Fluorobenzene	250.0000	250.0000	0.0	50.0
26 Trichloroethene	250.0000	237.5285	5.0	50.0
27 1,2-Dichloropropane	250.0000	242.9866	2.8	20.0
60 Dibromomethane	250.0000	225.0337	10.0	50.0
28 Bromodichloromethane	250.0000	242.8721	2.9	50.0
31 cis-1,3-Dichloropropene	250.0000	258.6560	3.5	50.0
110 4-Methyl-2-Pentanone	250.0000	275.7430	10.3	50.0
151 Toluene-d8	250.0000	272.8942	9.2	50.0
33 Toluene	250.0000	243.4781	2.6	20.0
34 trans-1,3-Dichloropropene	250.0000	260.1432	4.1	50.0
36 1,1,2-Trichloroethane	250.0000	228.0935	8.8	50.0
37 Tetrachloroethene	250.0000	222.8293	10.9	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: hp3.i
 Lab File ID: 1C30721.D
 Analysis Type: WATER

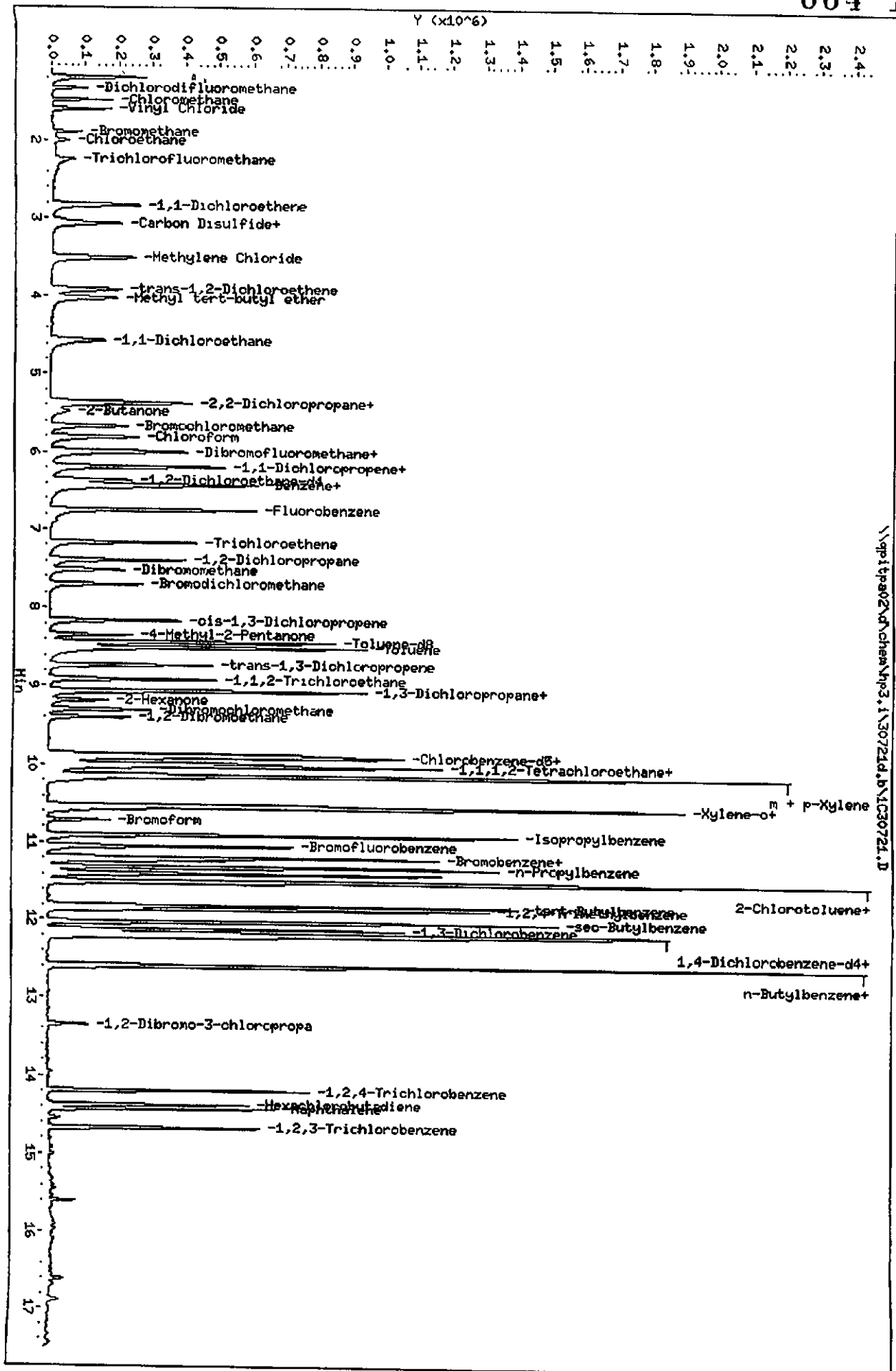
Injection Date: 21-JUL-2000 07:00
 Lab Sample ID: VSTD50
 Method File: \\QPITPA02\D\chem\hp3.i\30721d.b

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
77 1,3-Dichloropropane	250.0000	242.2562	3.1	50.0
111 2-Hexanone	250.0000	276.8857	10.8	50.0
38 Dibromochloromethane	250.0000	233.7447	6.5	50.0
63 1,2-Dibromoethane	250.0000	233.6261	6.5	50.0
101 Chlorobenzene-d5	250.0000	250.0000	0.0	50.0
40 Chlorobenzene	250.0000	229.2932	8.3	50.0
64 1,1,1,2-Tetrachloroethane	250.0000	226.9002	9.2	50.0
41 Ethylbenzene	250.0000	231.8083	7.3	20.0
0 m + p-Xylene	500.0000	452.5825	9.5	50.0
0 Xylene-o	250.0000	228.7377	8.5	50.0
44 Styrene	250.0000	221.0870	11.6	50.0
45 Bromoform	250.0000	206.8204	17.3	50.0
144 Isopropylbenzene	250.0000	226.2263	9.5	50.0
152 Bromofluorobenzene	250.0000	246.0916	1.6	50.0
46 1,1,2,2-Tetrachloroethane	250.0000	262.0849	4.8	50.0
84 Bromobenzene	250.0000	253.6561	1.5	50.0
65 1,2,3-Trichloropropane	250.0000	259.0580	3.6	50.0
83 n-Propylbenzene	250.0000	271.3244	8.5	50.0
85 1,3,5-Trimethylbenzene	250.0000	272.0693	8.8	50.0
86 2-Chlorotoluene	250.0000	250.3249	0.1	50.0
87 4-Chlorotoluene	250.0000	250.3249	0.1	50.0
88 tert-Butylbenzene	250.0000	281.6027	12.6	50.0
89 1,2,4-Trimethylbenzene	250.0000	271.8640	8.7	50.0
90 sec-Butylbenzene	250.0000	273.5349	9.4	50.0
48 1,3-Dichlorobenzene	250.0000	248.6974	0.5	50.0
91 4-Isopropyltoluene	250.0000	271.6061	8.6	50.0
102 1,4-Dichlorobenzene-d4	250.0000	250.0000	0.0	50.0
49 1,4-Dichlorobenzene	250.0000	240.8635	3.7	50.0
94 n-Butylbenzene	250.0000	263.7962	5.5	50.0
50 1,2-Dichlorobenzene	250.0000	238.6429	4.5	50.0
69 1,2-Dibromo-3-chloropropane	250.0000	239.4001	4.2	50.0
95 1,2,4-Trichlorobenzene	250.0000	234.8627	6.1	50.0
96 Hexachlorobutadiene	250.0000	194.2150	22.3	50.0
97 Naphthalene	250.0000	232.9180	6.8	50.0
98 1,2,3-Trichlorobenzene	250.0000	213.4420	14.6	50.0

Data File: \\pp1tpa02\chem\hp3,1\30721d.b\1C30721.D
 Date: 21-JUL-2000 07:00
 Client ID: VST150
 Sample Info: VST150 SML
 Purge Volume: 5.0
 Column Phase: DB 624

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

\\pp1tpa02\chem\hp3,1\30721d.b\1C30721.D



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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp3.i\30721d.b\1C30721.D
 Lab Smp Id: VSTD50 Client Smp ID: VSTD50
 Inj Date : 21-JUL-2000 07:00 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VSTD50 5ML
 Misc Info : VSTD50,30721d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30721d.b\8260bh2o.m
 Meth Date : 21-Jul-2000 07:35 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 13:16 Cal File: 4A30718.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwh20.sub
 Target Version: 4.04
 Processing Host: PITPC073

*KLG
7/21/00*

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene		96	6.756	6.756	(1.000)	680682	250.000	
* 69 Chlorobenzene-d5		119	9.876	9.876	(1.000)	190632	250.000	
* 92 1,4-Dichlorobenzene-d4		152	12.199	12.199	(1.000)	269139	250.000	
\$ 39 Dibromofluoromethane		113	6.002	6.002	(0.888)	165078	250.000	249.8
\$ 43 1,2-Dichloroethane-d4		65	6.367	6.367	(0.942)	207405	250.000	253.6
\$ 59 Toluene-d8		98	8.440	8.440	(0.855)	753073	250.000	272.9
\$ 80 Bromofluorobenzene		95	11.043	11.043	(1.118)	302331	250.000	246.1
1 Dichlorodifluoromethane		85	1.337	1.337	(0.198)	80989	250.000	235.8
2 Chloromethane		50	1.496	1.496	(0.221)	135548	250.000	224.7
3 Vinyl Chloride		62	1.605	1.605	(0.238)	154796	250.000	227.1
4 Bromomethane		94	1.903	1.903	(0.282)	42598	250.000	152.0
5 Chloroethane		64	2.000	2.000	(0.296)	38126	250.000	176.0
6 Trichlorofluoromethane		101	2.244	2.244	(0.332)	80367	250.000	216.0
12 1,1-Dichloroethene		96	2.833	2.833	(0.419)	153199	250.000	206.1
15 Carbon Disulfide		76	3.065	3.065	(0.454)	363006	250.000	187.8
13 Acetone		43	3.028	3.028	(0.448)	93052	250.000	133.0

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.502	3.502	(0.518)	181116	250.000	204.1
19 trans-1,2-Dichloroethene	96	3.916	3.916	(0.580)	148494	250.000	244.6
20 Methyl tert-butyl ether	73	4.025	4.025	(0.596)	315886	250.000	258.0
24 1,1-Dichloroethane	63	4.567	4.567	(0.676)	294452	250.000	240.9
27 2,2-Dichloropropane	77	5.363	5.363	(0.794)	198719	250.000	294.6
28 cis-1,2-dichloroethene	96	5.382	5.382	(0.797)	179197	250.000	238.7
M 29 1,2-Dichloroethene (total)	96				327692	500.000	482.6
30 Bromochloromethane	128	5.673	5.673	(0.840)	86951	250.000	236.4
31 2-Butanone	43	5.473	5.473	(0.810)	110967	250.000	248.6
37 Chloroform	83	5.813	5.813	(0.860)	294604	250.000	233.4
38 1,1,1-Trichloroethane	97	5.990	5.990	(0.887)	237559	250.000	263.3
40 1,1-Dichloropropene	75	6.196	6.196	(0.917)	165657	250.000	262.3
41 Carbon Tetrachloride	117	6.190	6.190	(0.916)	183670	250.000	253.2
42 Benzene	78	6.421	6.421	(0.950)	681245	250.000	244.7
45 1,2-Dichloroethane	62	6.452	6.452	(0.955)	251630	250.000	246.9
47 Trichloroethene	130	7.163	7.163	(1.060)	173884	250.000	237.5
49 1,2-Dichloropropane	63	7.388	7.388	(1.094)	170407	250.000	243.0
50 Dibromomethane	93	7.516	7.516	(1.113)	103775	250.000	225.0
53 Bromodichloromethane	83	7.705	7.705	(1.140)	209380	250.000	242.9
57 cis-1,3-Dichloropropene	75	8.167	8.167	(1.209)	236635	250.000	258.6
58 4-Methyl-2-Pentanone	43	8.349	8.349	(0.845)	194079	250.000	275.7
60 Toluene	91	8.507	8.507	(0.861)	834745	250.000	243.5
61 trans-1,3-Dichloropropene	75	8.732	8.732	(0.884)	264540	250.000	260.1
63 1,3-Dichloropropane	76	9.073	9.073	(0.919)	299729	250.000	242.2
64 1,1,2-Trichloroethane	97	8.915	8.915	(0.903)	171519	250.000	228.1
65 Tetrachloroethene	164	9.061	9.061	(0.917)	132870	250.000	222.8
66 2-Hexanone	43	9.182	9.182	(0.930)	134564	250.000	276.9
67 Dibromochloromethane	129	9.304	9.304	(0.942)	168569	250.000	233.7
68 1,2-Dibromoethane	107	9.401	9.401	(0.952)	172985	250.000	233.6
70 Chlorobenzene	112	9.906	9.906	(1.003)	585662	250.000	229.3
71 1,1,1,2-Tetrachloroethane	131	9.991	9.991	(1.012)	193030	250.000	226.9
72 Ethylbenzene	106	10.022	10.022	(1.015)	312149	250.000	231.8
73 m + p-Xylene	106	10.143	10.143	(1.027)	807618	500.000	452.6
74 Xylene-o	106	10.532	10.532	(1.067)	385727	250.000	228.7
M 75 Xylenes (total)	106				1193345	250.000	707.6
76 Styrene	104	10.545	10.545	(1.068)	626061	250.000	221.1
77 Bromoform	173	10.721	10.721	(1.086)	80945	250.000	206.8
78 Isopropylbenzene	105	10.903	10.903	(1.104)	977413	250.000	226.2
79 Bromobenzene	156	11.189	11.189	(0.917)	210461	250.000	253.6
81 n-Propylbenzene	120	11.311	11.311	(0.927)	267029	250.000	271.3
82 2-Chlorotoluene	126	11.499	11.499	(0.943)	246694	250.000	250.3
83 1,1,2,2-Tetrachloroethane	83	11.189	11.189	(0.917)	224707	250.000	262.1
84 1,2,3-Trichloropropane	110	11.226	11.226	(0.920)	73658	250.000	259.0
85 4-Chlorotoluene	126	11.499	11.499	(0.943)	246694	250.000	250.3
86 1,3,5-Trimethylbenzene	105	11.493	11.493	(0.942)	854536	250.000	272.1
87 tert-Butylbenzene	119	11.816	11.816	(0.969)	704212	250.000	281.6
88 1,2,4-Trimethylbenzene	105	11.864	11.864	(0.973)	833561	250.000	271.9

664 1059

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	12.035	12.035	(0.987)	1077390	250.000	273.5
90 4-Isopropyltoluene	119	12.181	12.181	(0.999)	909010	250.000	271.6
91 1,3-Dichlorobenzene	146	12.132	12.132	(0.995)	421337	250.000	248.7
93 1,4-Dichlorobenzene	146	12.223	12.223	(1.002)	426961	250.000	240.9
94 n-Butylbenzene	91	12.588	12.588	(1.032)	773075	250.000	263.8
95 1,2-Dichlorobenzene	146	12.588	12.588	(1.032)	399346	250.000	238.6
96 1,2-Dibromo-3-chloropropane	157	13.354	13.354	(1.095)	28067	250.000	239.4
97 1,2,4-Trichlorobenzene	180	14.193	14.193	(1.164)	191385	250.000	234.9
98 Hexachlorobutadiene	225	14.382	14.382	(1.179)	73560	250.000	194.2
99 Naphthalene	128	14.431	14.431	(1.183)	492920	250.000	232.9
100 1,2,3-Trichlorobenzene	180	14.680	14.680	(1.203)	159226	250.000	213.4

3 40 00 20 43 11

664 1060

**GC/MS VOLATILE
QC DATA**

Date : 18-JUL-2000 05:21

Client ID: 31019D

Instrument: hp3.1

Sample Info: BFB 192-185-1 50NG

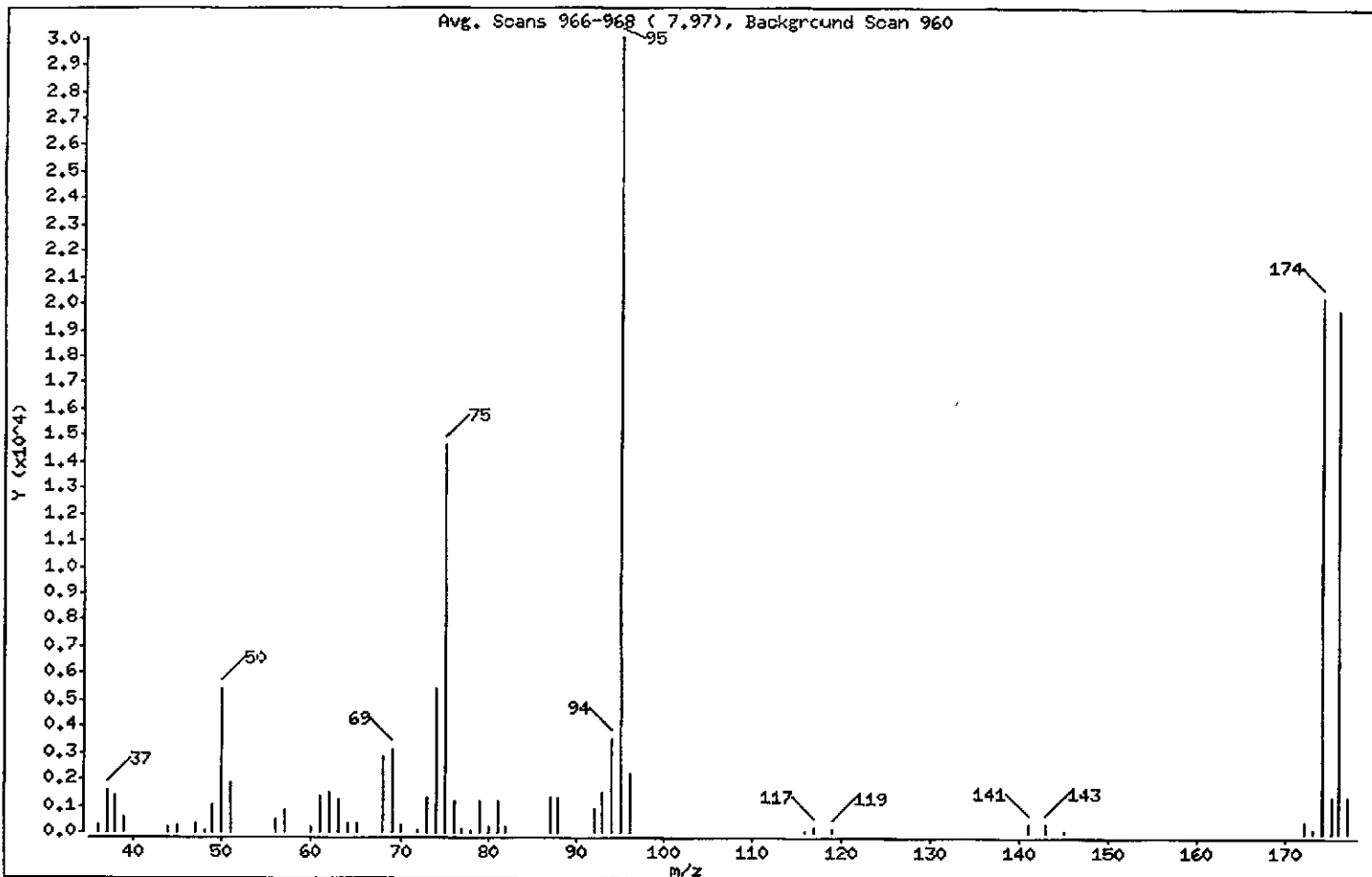
Volume Injected (uL): 1.0

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	17.94
75	30.00 - 60.00% of mass 95	48.67
96	5.00 - 9.00% of mass 95	7.41
173	Less than 2.00% of mass 174	0.52 (0.77)
174	50.00 - 100.00% of mass 95	67.61
175	5.00 - 9.00% of mass 174	4.51 (6.67)
176	95.00 - 101.00% of mass 174	65.92 (97.50)
177	5.00 - 9.00% of mass 176	4.53 (6.87)

Date : 18-JUL-2000 05:21

Client ID: 31019D

Instrument: hp3.1

Sample Info: BFB 192-185-1 50NG

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20M

Column diameter: 0.18

Data File: BF30718.D

Spectrum: Avg. Scans 966-968 (7.97), Background Scan 960

Location of Maximum: 95.00

Number of points: 52

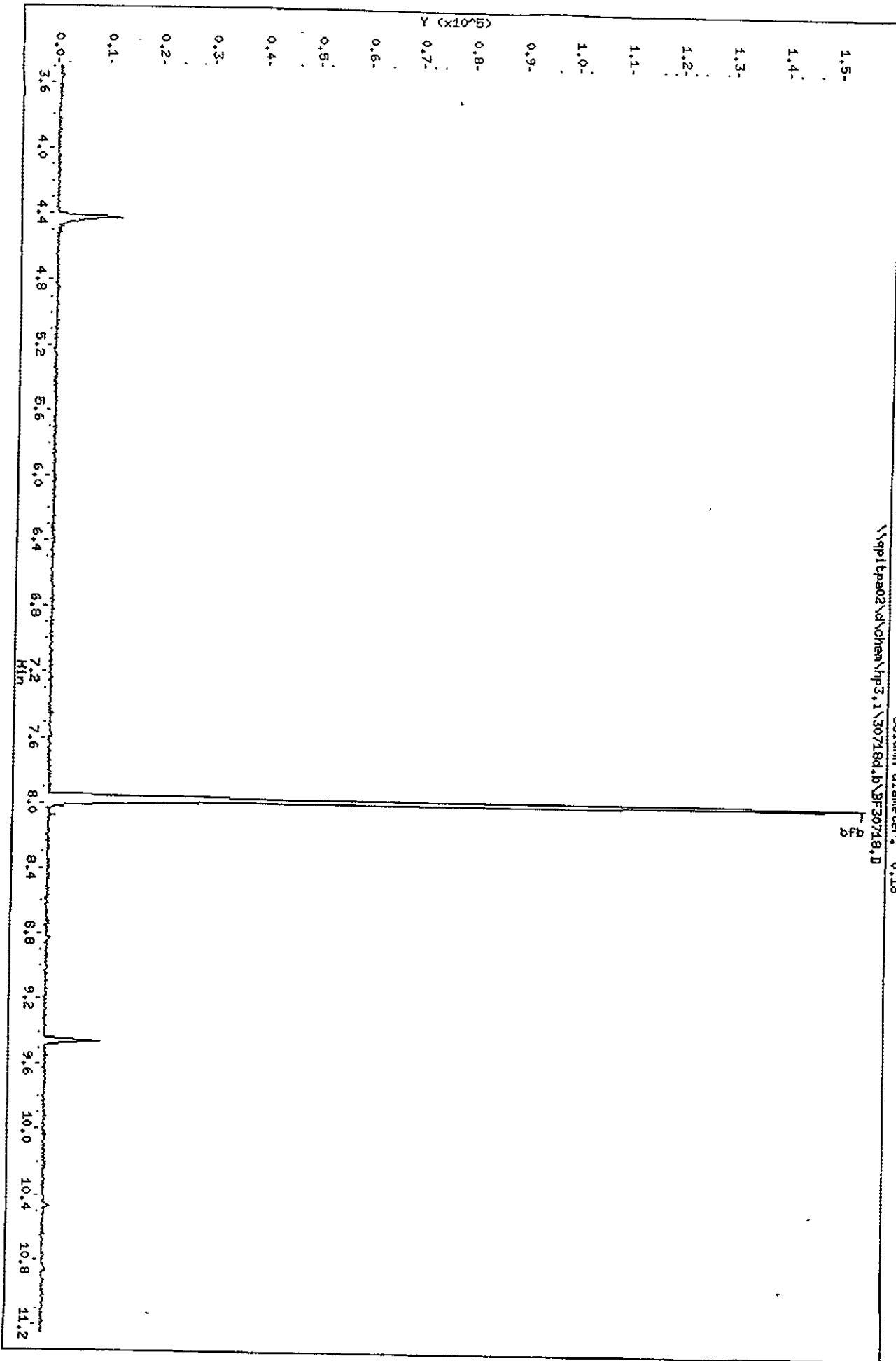
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	253	61.00	1416	78.00	77	119.00	143
37.00	1622	62.00	1493	79.00	1197	141.00	363
38.00	1417	63.00	1272	80.00	205	143.00	376
39.00	546	64.00	320	81.00	1172	145.00	71
44.00	240	65.00	353	82.00	175	172.00	394
45.00	288	68.00	2818	87.00	1308	173.00	156
47.00	315	69.00	3125	88.00	1308	174.00	20312
48.00	93	70.00	287	92.00	871	175.00	1354
49.00	1050	72.00	68	93.00	1497	176.00	19800
50.00	5391	73.00	1340	94.00	3551	177.00	1361
51.00	1883	74.00	5389	95.00	30048		
56.00	457	75.00	14625	96.00	2226		
57.00	832	76.00	1202	116.00	75		
60.00	187	77.00	107	117.00	211		

6641063

Data File: \\sp1tpa02\chem\hp3.1\30718d.b\BF30718.D
Date: 18-JUL-2000 05:21
Client ID: 31019D
Sample Info: BFB 192-185-1 50MG
Volume Injected (uL): 1.0
Column Phase: DB624 20m

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

\\sp1tpa02\chem\hp3.1\30718d.b\BF30718.D



Date : 21-JUL-2000 06:08

Client ID: 50NGBFB

Instrument: hp3.1

Sample Info: BFB 192-188-2 50NG

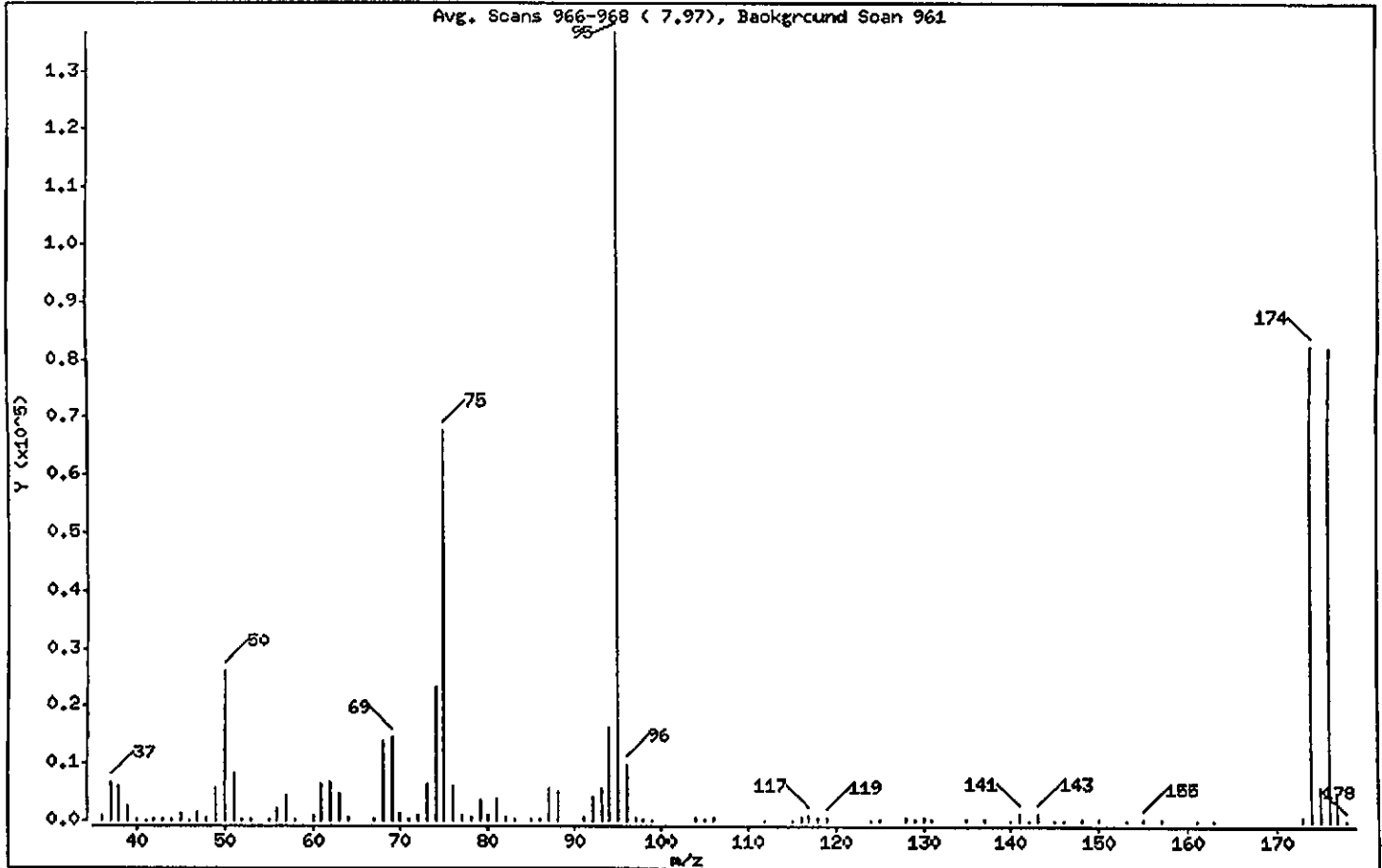
Volume Injected (uL): 2.0

Operator: 10099

Column phase: DB624 29m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.12
75	30.00 - 60.00% of mass 95	49.44
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.40 < 0.67
174	50.00 - 100.00% of mass 95	60.27
178	5.00 - 9.00% of mass 174	4.34 < 7.20
176	95.00 - 101.00% of mass 174	59.88 < 99.36
177	5.00 - 9.00% of mass 176	3.72 < 6.22

Date : 21-JUL-2000 06:08

Client ID: 50NGBFB

Instrument: hp3.i

Sample Info: BFB 192-188-2 50NG

Volume Injected (ul.): 2.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: DF30721.D

Spectrum: Avg. Scans 966-968 (7.97), Background Scan 961

Location of Maximum: 95.00

Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.00	1040	| 63.00	4782	| 93.00	5512	| 135.00	318
| 37.00	6497	| 64.00	479	| 94.00	16440	| 137.00	361
| 38.00	5880	| 67.00	352	| 95.00	136768	| 140.00	82
| 39.00	2371	| 68.00	13882	| 96.00	9823	| 141.00	1364
| 40.00	413	| 69.00	14555	| 97.00	559	| 142.00	111
| 41.00	186	| 70.00	1188	| 98.00	254	| 143.00	1332
| 42.00	221	| 71.00	191	| 99.00	74	| 145.00	76
| 43.00	236	| 72.00	816	| 104.00	578	| 146.00	74
| 44.00	439	| 73.00	6384	| 105.00	315	| 148.00	380
| 45.00	1122	| 74.00	23320	| 106.00	502	| 150.00	182
| 46.00	71	| 75.00	67632	| 110.00	44	| 153.00	82
| 47.00	1725	| 76.00	5894	| 111.00	123	| 155.00	289
| 48.00	765	| 77.00	859	| 112.00	83	| 157.00	184
| 49.00	5781	| 78.00	614	| 113.00	79	| 161.00	71
| 50.00	26152	| 79.00	3566	| 115.00	71	| 163.00	81
| 51.00	8275	| 80.00	1017	| 116.00	502	| 173.00	549
| 52.00	423	| 81.00	3637	| 117.00	877	| 174.00	82440
| 53.00	297	| 82.00	574	| 118.00	485	| 175.00	5938
| 55.00	381	| 83.00	364	| 119.00	712	| 176.00	81912
| 56.00	2101	| 85.00	358	| 124.00	154	| 177.00	5091
| 57.00	4381	| 86.00	188	| 125.00	351	| 178.00	143
| 58.00	183	| 87.00	5505	| 128.00	518	|	|
| 60.00	1092	| 88.00	5107	| 129.00	249	|	|
| 61.00	6186	| 91.00	675	| 130.00	568	|	|
| 62.00	6610	| 92.00	3940	| 131.00	212	|	|

Data File: \\ppltpa02\chem\hps.1\30721d.b\DF30721.D

Date : 21-JUL-2000 06:08

Client ID: SONGSFB

Instrument: hps.1

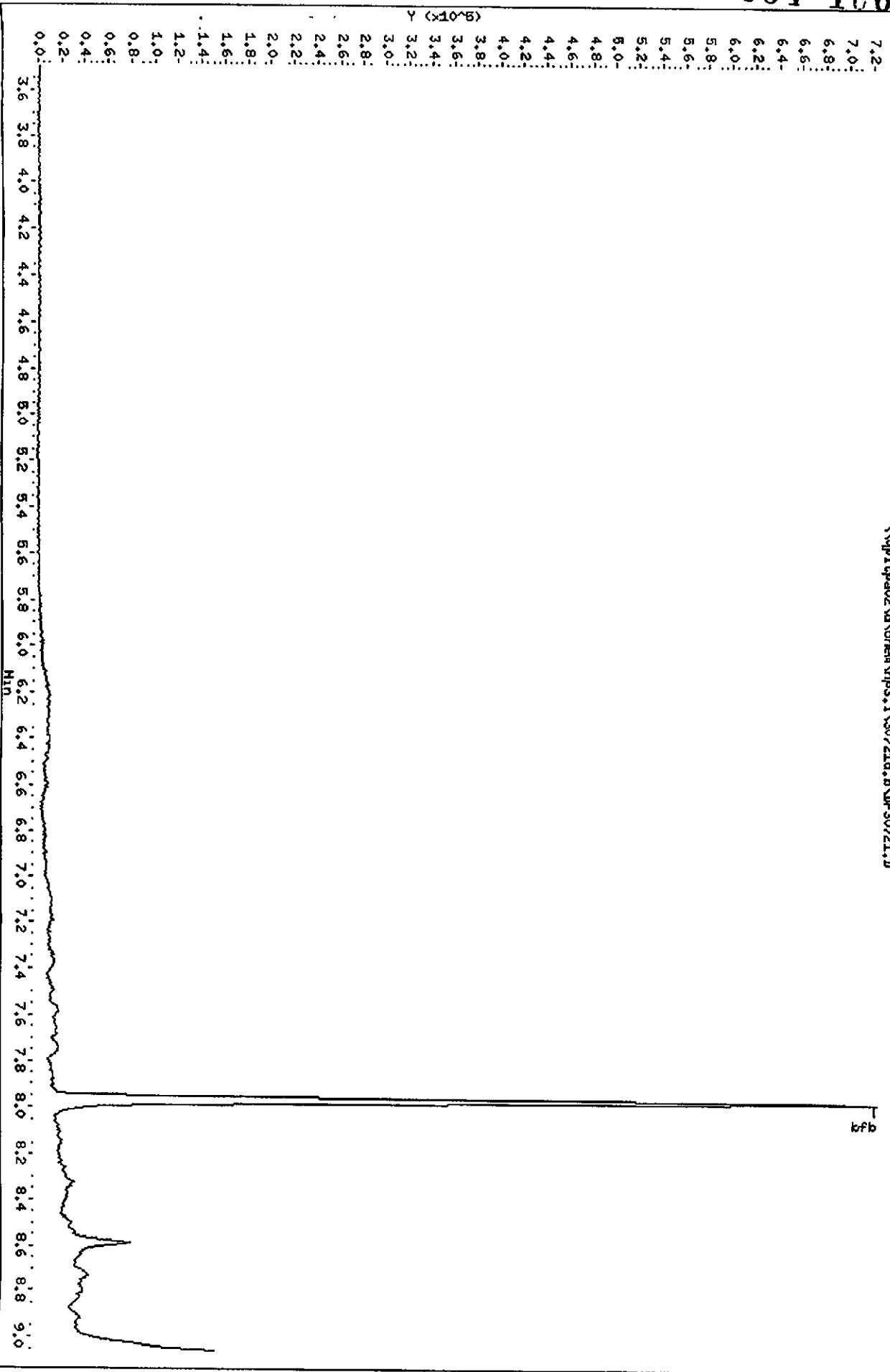
Sample Info: BFB 192-188-2 BONG

Volume Injected (uL): 2.0

Column Phase: DB624 20m

Operator: 10099
Column diameter: 0.18

\\ppltpa02\chem\hps.1\30721d.b\DF30721.D



664 1067

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG210000 151

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/20/00

Work Order: DGKG3101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

Client Sample Id: INTRA-LAB BLANK

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

FORM I

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: COG210000 151
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/20/00
 Work Order: DGKG3101 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/21/00
 Moisture %: NA

QC Batch: 0203151

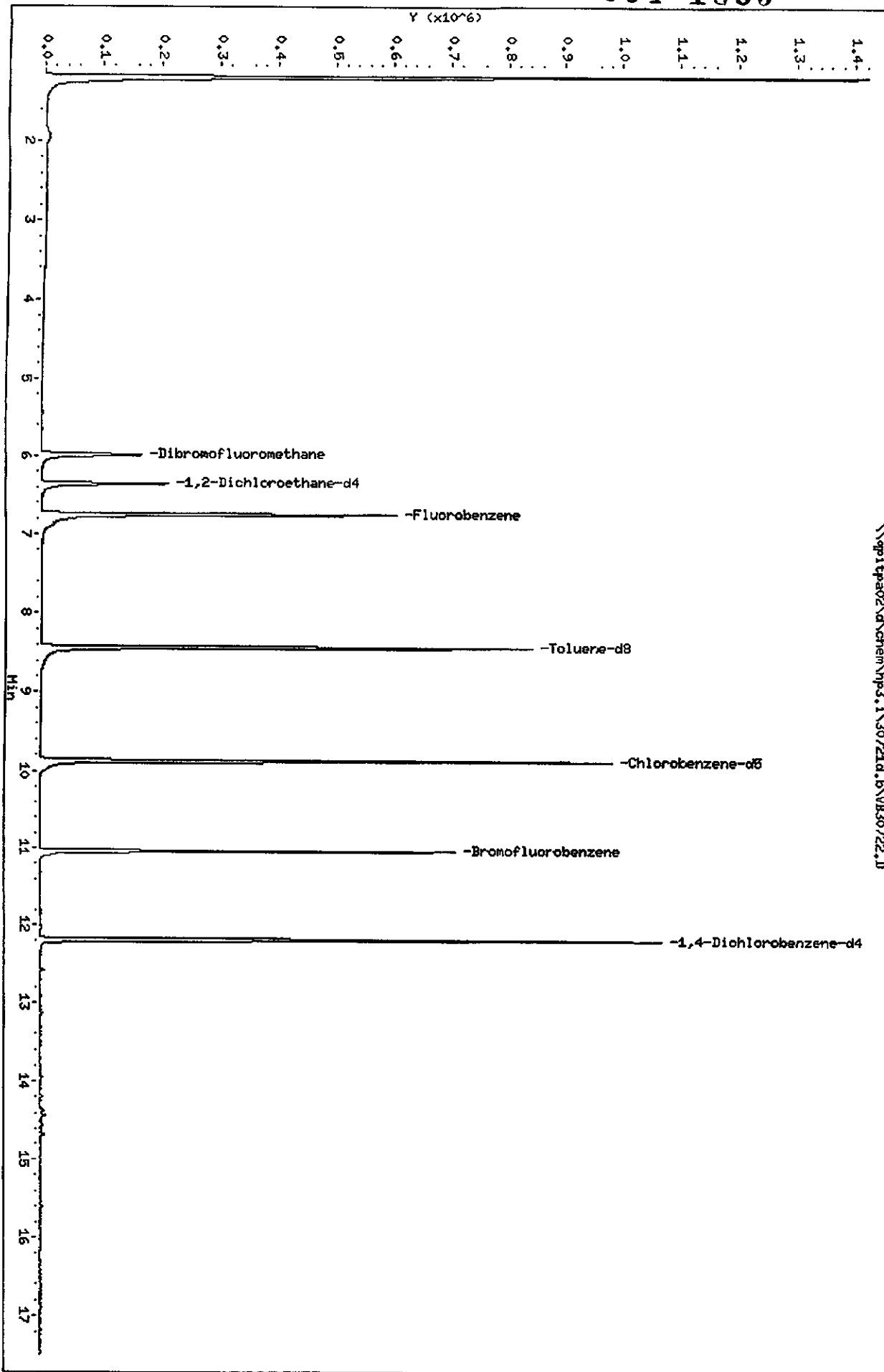
Client Sample Id: INTRA-LAB BLANK

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

Data File: \\gpi1tpa02\chem\hp3.1\30721d.b\VR30722.D
Date: 21-JUL-2000 07:55
Client ID:
Sample Info: VBLK SHL
Purge Volume: 5.0
Column phase: DB 624

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

\\gpi1tpa02\chem\hp3.1\30721d.b\VR30722.D



STL Pittsburgh

VOLATILE REPORT SW-846 Method
 Data file : \\qpitpa02\d\chem\hp3.i\30721d.b\VB30722.D
 Lab Smp Id:
 Inj Date : 21-JUL-2000 07:55 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : VBLK 5ML
 Misc Info : ,30721d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30721d.b\8260bh2o.m
 Meth Date : 21-Jul-2000 07:35 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 13:16 Cal File: 4A30718.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC076
 Compound Sublist: 4-dwh20.sub

*KLG
7/21/00*

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL ( UG/L)
* 46 Fluorobenzene	96	6.755	6.756	(1.000)	694615	250.000	
* 69 Chlorobenzene-d5	119	9.874	9.876	(1.000)	180677	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.198	12.199	(1.000)	267855	250.000	
\$ 39 Dibromofluoromethane	113	5.988	6.002	(0.887)	136679	202.701	40.54
\$ 43 1,2-Dichloroethane-d4	65	6.359	6.367	(0.941)	180412	216.161	43.23
\$ 59 Toluene-d8	98	8.433	8.440	(0.854)	613943	234.735	46.95
\$ 80 Bromofluorobenzene	95	11.042	11.043	(1.118)	261571	224.645	44.93
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						Compound Not Detected.

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
89 sec-Butylbenzene	105						
90 4-Isopropyltoluene	119						
91 1,3-Dichlorobenzene	146						
93 1,4-Dichlorobenzene	146						
94 n-Butylbenzene	91						
95 1,2-Dichlorobenzene	146						
96 1,2-Dibromo-3-chloropropane	157						
97 1,2,4-Trichlorobenzene	180						
98 Hexachlorobutadiene	225						
99 Naphthalene	128						
100 1,2,3-Trichlorobenzene	180						

664 1073

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG210000 151

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/20/00

Work Order: DGKG3102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203151

Client Sample Id: CHECK SAMPLE

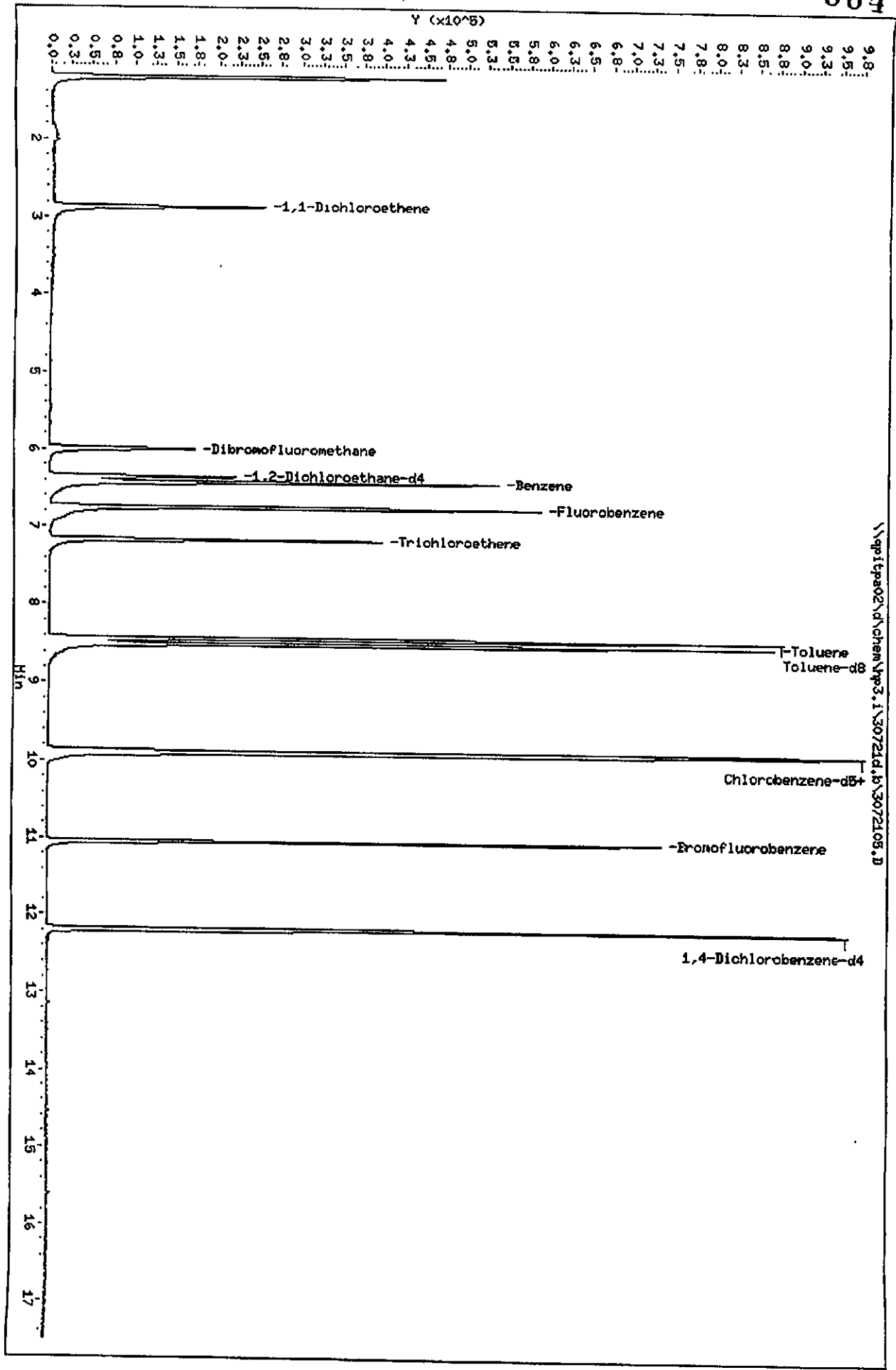
CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
71-43-2	Benzene	42.6		
108-90-7	Chlorobenzene	41.0		
75-35-4	1,1-Dichloroethene	41.6		
108-88-3	Toluene	44.0		
79-01-6	Trichloroethene	40.8		

FORM I

Data File: \\pp1tpa02\chem\hp3.1\30721d.b\3072105.D
Date: 21-JUL-2000 10:03

Client ID:
Sample Info: BLANK MS SHL
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\30721d.b\3072105.D
 Lab Smp Id:
 Inj Date : 21-JUL-2000 10:03 MS Autotune Date: 20-FEB-1997 10:53
 Operator : 10099 Inst ID: hp3.i
 Smp Info : BLANK MS 5ML
 Misc Info : ,30721d.b,8260bh2o.m,4-dwh20.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp3.i\30721d.b\8260bh2o.m
 Meth Date : 21-Jul-2000 07:35 gordonk Quant Type: ISTD
 Cal Date : 18-JUL-2000 13:16 Cal File: 4A30718.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC076

KEG
7/21/00

Compound Sublist: 4-dwh20.sub

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.756	6.756	(1.000)	661246	250.000	
* 69 Chlorobenzene-d5	119	9.876	9.876	(1.000)	170757	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.199	12.199	(1.000)	244327	250.000	
\$ 39 Dibromofluoromethane	113	5.990	6.002	(0.887)	145664	226.927	45.38
\$ 43 1,2-Dichloroethane-d4	65	6.361	6.367	(0.941)	190991	240.384	48.08
\$ 59 Toluene-d8	98	8.434	8.440	(0.854)	643342	260.266	52.05
\$ 80 Bromofluorobenzene	95	11.043	11.043	(1.118)	266238	241.936	48.39
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	2.864	2.833	(0.424)	150076	207.831	41.57
15 Carbon Disulfide	76	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					

Compounds	QUANT SIG MASS ----	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
-----	-----	==	-----	-----	-----	-----	-----
18 Methylene Chloride	84				Compound Not Detected		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected.		
27 2,2-Dichloropropane	77				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				Compound Not Detected.		
30 Bromochloromethane	128				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected		
37 Chloroform	83				Compound Not Detected.		
38 1,1,1-Trichloroethane	97				Compound Not Detected.		
40 1,1-Dichloropropene	75				Compound Not Detected.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78	6.427	6.421	{0.951}	576256	213.097	42.62
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130	7.169	7.163	{1.061}	144947	203.819	40.76
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	8.501	8.507	{0.861}	674884	219.762	43.95
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
63 1,3-Dichloropropane	76				Compound Not Detected.		
64 1,1,2-Trichloroethane	97				Compound Not Detected.		
65 Tetrachloroethene	164				Compound Not Detected		
66 2-Hexanone	43				Compound Not Detected		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected.		
70 Chlorobenzene	112	9.900	9.906	{1.002}	468648	204.837	40.97
71 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
72 Ethylbenzene	106				Compound Not Detected.		
73 m + p-Xylene	106				Compound Not Detected.		
74 Xylene-o	106				Compound Not Detected.		
M 75 Xylenes (total)	106				Compound Not Detected.		
76 Styrene	104				Compound Not Detected.		
77 Bromoform	173				Compound Not Detected.		
78 Isopropylbenzene	105				Compound Not Detected		
79 Bromobenzene	156				Compound Not Detected.		
81 n-Propylbenzene	120				Compound Not Detected.		
82 2-Chlorotoluene	126				Compound Not Detected		
83 1,1,1,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
85 4-Chlorotoluene	126				Compound Not Detected.		
86 1,3,5-Trimethylbenzene	105				Compound Not Detected		
87 tert-Butylbenzene	119				Compound Not Detected.		
88 1,2,4-Trimethylbenzene	105				Compound Not Detected		

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

664 1078

GC/MS VOLATILE
MISCELLANEOUS

GCMS Volatile

Run Log

Method: 8260B

Inst. ID HP3



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

Analyst KLG

Reviewed by:

Std: 192-185-1 BFB

Date:

Std: 192-185-7 Int

Std: 192-185-8 Sum

Std: 192-182-3 MS

Std: 192-186-6 Ketones

Std: 192-186-7 MTBE

Std:

Std:

Date	File ID	Lot No. / Sample No.	Vol. / Wt.	pH	Port#	Comments
7/18/00	1. BE30718	BFB	50ng			
	2. IC30718	VS1050	5ml			0521
	3. QC30718	ERA Q	5ml			
	4. WB30718	VBK	5ml			
	5. QK30719	Blank MS	5ml			
	6. ID30718	VS10100	5ml			faul TCE
	7. LE30718	VS1020	5ml			
	8. EB30718	VS1030	5ml			
	9. 4A30718	VS1040	5ml			
	10.	VS1050	5ml			
	11.					
	12.					
	13.					
	14.					
	15.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

664 1079



Analyst KG

Reviewed by: _____

Date: _____

Std: 192-188-2BF8

Std: 192-185-8 JUV

Std: 192-186-6 Kelones

Std: 192-186-7MTE/052

Std: 192-187-4 NS

Std: _____

1080

7/21/03

Date	File ID	Lot No./Sample No.	Vol./Wt.	pH	Port#	Comments
7/21/03	1030721	BFB	50mg			0608
	1030721	VB050	5ml			
	VB30732	VBBL	5ml			
	3072101	006200155-003	5ml			
	3072102	006200155-002	5ml			
	3072103	006200133-006	5ml			
	3072104	006200133-007	5ml			
	3072105	Blank MS	5ml			
	3072106	006200133-006 MS	5ml			
	3072107	006200133-006 MSB	5ml			
	3072108	006200210-001	5ml			
	3072109	006200187-002	5ml			
	3072110	006200103-001	5ml		7	
	3072111	006200187-001 (improm)	5ml			100 Quilute
	3072112	006200193-004	5ml			
	3072113	006200187-001	(improm) 5ml			
	3072114	006200193-001	5ml			
	3072115	006200193-003	5ml			
	3072116	006200126-001	5ml			
	3072117	006200126-002	5ml			
	3072118	006200126-003	5ml			
	3072119	006200126-004	5ml			

REQUESTED BY: GORDONK

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

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
8E CLP1	DGJ6M-1-01	_____	251492	399411	I-15-QK	COG200210	001	✓	WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

CLP1	<i>Larry Gordon</i>	7/21/00 1000
<i>Larry Gordon</i>	NY01	7/21/00 1130

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

664 1082

GC/MS SEMIVOLATILE DATA

664 1083

**GC/MS SEMIVOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	59	69	69	65	47	83	00
02	DF/S1/201/WA/002	76	79	78	96	65	100	00
03	METHOD BLK. DGL2M101	74	75	71	93	68	84	00
04	LCS DGL2M102	66	67	63	92	63	75	00
05	LAB MS/MSD D	27	41	44	37	22	58	00
06	LAB MS/MSD S	30	41	46	37	24	60	00

SURROGATES

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

QC LIMITS

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

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0G200279

WO #: DGJM4105

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Phenol	75.0	ND	22.2	30	10 - 131	
2-Chlorophenol	75.0	ND	27.7	37	19 - 124	
1,4-Dichlorobenzene	50.0	ND	20.4	41	18 - 110	
N-Nitrosodi-n-propylamine	50.0	ND	15.6	31	18 - 115	
1,2,4-Trichlorobenzene	50.0	ND	20.3	41	22 - 110	
4-Chloro-3-methylphenol	75.0	ND	35.0	47	21 - 124	
Acenaphthene	50.0	ND	24.5	49	26 - 118	
4-Nitrophenol	75.0	ND	36.5	49	10 - 145	
2,4-Dinitrotoluene	50.0	ND	31.8	64	31 - 131	
Pentachlorophenol	75.0	ND	49.9	66	10 - 140	
Pyrene	50.0	ND	31.6	63	27 - 138	

NOTES (S) :

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

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

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

664 1086

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM4106

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Phenol	75.0	20.2	27	9.6	43	10 - 131	
2-Chlorophenol	75.0	27.0	36	2.4	43	19 - 124	
1,4-Dichlorobenzene	50.0	20.2	40	0.93	36	18 - 110	
N-Nitrosodi-n-propylamine	50.0	14.8	30	5.8	36	18 - 115	
1,2,4-Trichlorobenzene	50.0	20.3	41	0.15	37	22 - 110	
4-Chloro-3-methylphenol	75.0	33.0	44	6.0	55	21 - 124	
Acenaphthene	50.0	24.6	49	0.16	35	26 - 118	
4-Nitrophenol	75.0	33.4	44	9.0	34	10 - 145	
2,4-Dinitrotoluene	50.0	31.2	62	2.2	32	31 - 131	
Pentachlorophenol	75.0	47.3	63	5.4	56	10 - 140	
Pyrene	50.0	30.7	61	2.9	31	27 - 138	

NOTES (S) :

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

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

COMMENTS:

664 1087

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COG210000

WO #: DGL2M102

BATCH: 0203319

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	47.1	63	10- 131	
2-Chlorophenol	75.0	48.8	65	19- 124	
1,4-Dichlorobenzene	50.0	32.0	64	28- 110	
N-Nitrosodi-n-propylamine	50.0	30.0	60	30- 115	
1,2,4-Trichlorobenzene	50.0	33.1	66	31- 110	
4-Chloro-3-methylphenol	75.0	52.6	70	29- 124	
Acenaphthene	50.0	34.5	69	39- 118	
4-Nitrophenol	75.0	62.1	83	19- 144	
2,4-Dinitrotoluene	50.0	39.5	79	47- 131	
Pentachlorophenol	75.0	66.5	89	10- 140	
Pyrene	50.0	42.8	86	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

BLANK WORKORDER NO. **664 1088**

DGL2M101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0725014.

Lot Number: COG200210

Date Analyzed: 07/25/00

Time Analyzed: 12:44

Matrix: WATER

Date Extracted: 07/21/00

GC Column: DB5MS ID: .25

Extraction Method: 3520C

Instrument ID: 71

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DGJM4104	D0725005.	07/25/00	17:47
02	LAB MS/MSD	DGJM4105 S	D0725006.	07/25/00	18:16
03	LAB MS/MSD	DGJM4106 D	D0725007.	07/25/00	18:44
04	DF/S1/201/WA/002	DGJ6M102	S0725018.	07/25/00	14:51
05	CHECK SAMPLE	DGL2M102 C	S0725015.	07/25/00	13:16
06					
07					
08					
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13					
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16					
17					
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30					

COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

664 1089

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: _

Lab File ID: S0720DF2

DFTPP Injection Date: 07/20/00

Instrument ID: 71

DFTPP Injection Time: 1337

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	58.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	24.6
365	Greater than 1.0% of mass 198	5.10
441	Present, but less than mass 443	13.2
442	Greater than 40.0% of mass 198	82.2
443	17.0 - 23.0% of mass 442	15.7 (19.1)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	S0720CC2	07/20/00	1355
02	SSTD020	SSTD20	S0720CC1	07/20/00	1427
03	SSTD80	SSTD80	S0720CC3	07/20/00	1458
04	SSTD120	SSTD120	S0720CC4	07/20/00	1530
05	SSTD160	SSTD160	S0720CC5	07/20/00	1602
06					
07					
08					
09					
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22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

664 1090

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0G200210

Lab File ID: S0725DF2

DFTPP Injection Date: 07/25/00

Instrument ID: 71

DFTPP Injection Time: 1155

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.9
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	7.6
275	10.0 - 30.0% of mass 198	25.5
365	Greater than 1.0% of mass 198	6.05
441	Present, but less than mass 443	14.6
442	Greater than 40.0% of mass 198	88.4
443	17.0 - 23.0% of mass 442	17.9 (20.3)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0725CC1	07/25/00	1213
02	INTRA-LAB BL	DGL2M101	S0725014	07/25/00	1244
03	INTRA-LAB CH	DGL2M102	S0725015	07/25/00	1316
04	DF/S1/201/WA	DGJ6M102	S0725018	07/25/00	1451
05					
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22					

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

664 1091

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: COG200210

Lab File ID (Standard): S0725CC1

Date Analyzed: 07/25/00

Instrument ID: 71

Time Analyzed: 1213

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #	
=====	=====	=====	=====	=====	=====	=====	
	12 HOUR STD	87324	4.60	325222	6.02	181226	8.88
	UPPER LIMIT	174648	5.10	650444	6.52	362452	9.38
	LOWER LIMIT	43662	4.10	162611	5.52	90613	8.38
=====	=====	=====	=====	=====	=====	=====	
	CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====	
01	INTRA-LAB BL	85814	4.60	330103	6.04	179203	8.90
02	INTRA-LAB CH	84101	4.60	314752	6.03	170903	8.89
03	DF/S1/201/WA	82153	4.59	309150	6.02	170029	8.88
04							
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22							

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

664 1092

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0G200210

Lab File ID (Standard): S0725CC1

Date Analyzed: 07/25/00

Instrument ID: 71

Time Analyzed: 1213

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	336706	12.10	379103	18.66	444761	22.00
UPPER LIMIT	673412	12.60	758206	19.16	889522	22.50
LOWER LIMIT	168353	11.60	189552	18.16	222381	21.50
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	318070	12.11	312894	18.66	353611	22.01
02 INTRA-LAB CH	307821	12.10	305886	18.66	343311	22.00
03 DF/S1/201/WA	321222	12.09	354175	18.64	419507	21.99
04						
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19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

**GC/MS SEMIVOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

Client Sample Id: DF/S1/201/WA/002

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	11	
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	5.6	J
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

FORM I

664 1095

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203319

Client Sample Id: DF/S1/201/WA/002

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

FORM I

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: COG200210 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00
 Work Order: DGJ6M102 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: NA

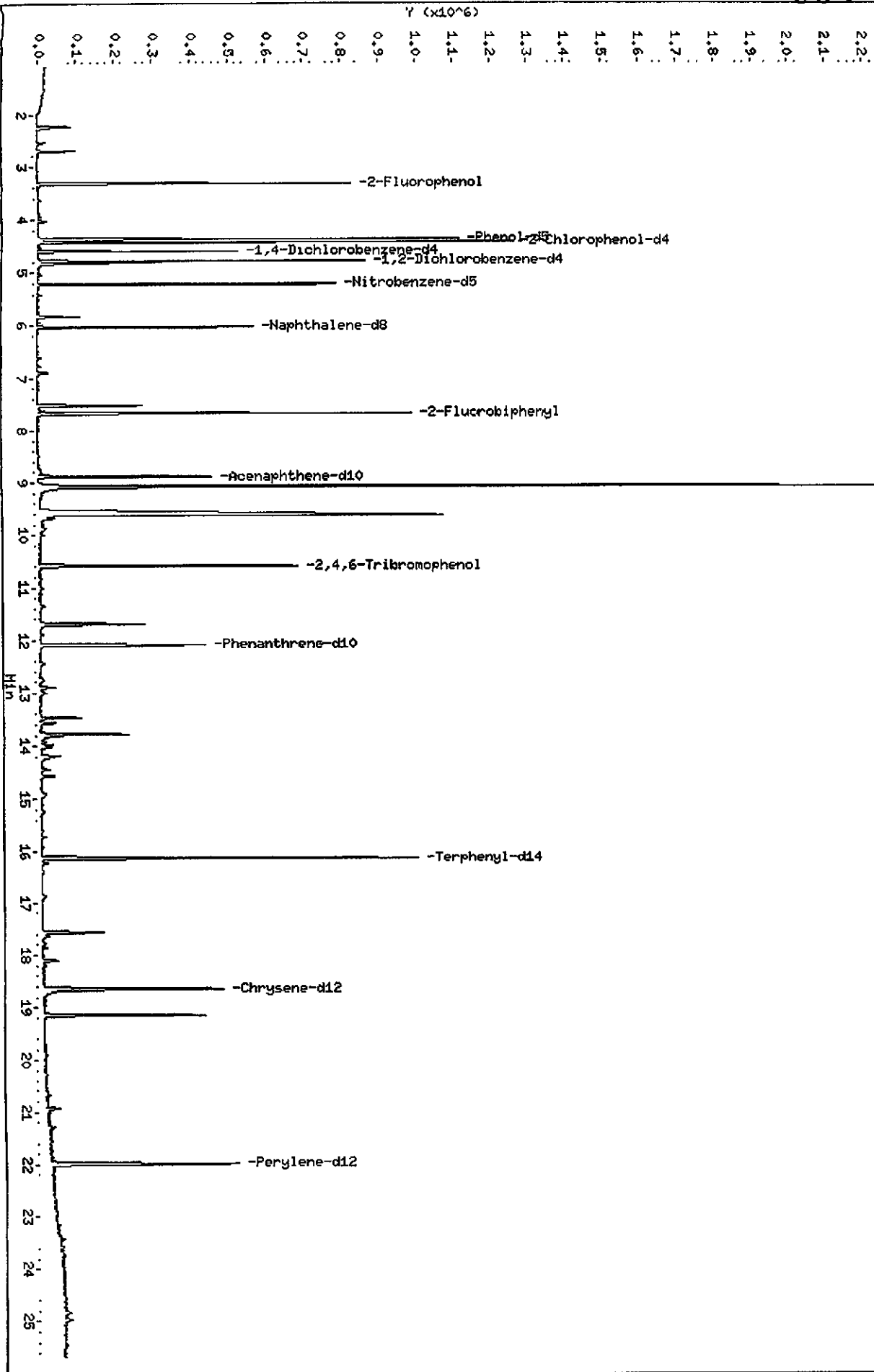
Client Sample Id: DF/S1/201/WA/002 QC Batch: 0203319

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

Data File: \\Nqpitpa02\Nchem\71.1\5072500.b\50725018.D
Date: 25-JUL-2000 14:51
Client ID: DF/SI/201/MR/002
Sample Info: C0200210-001 7/21/00 82700 h2o
Volume Injected (uL): 2.0
Column Phase: HP5-MS

Instrument: 71.1
Operator: 048183
Column diameter: 0.25

\\Nqpitpa02\Nchem\71.1\5072500.b\50725018.D



STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072500.b\S0725018.D
 Lab Smp Id: DGJ6M102 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 25-JUL-2000 14:51
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0g200210-001 7/21/00 8270c h20
 Misc Info : dgj6m102,s072500.b,8270clp.m,1-82701.sub
 Comment :
 Method : \\Qpitpa02\D\chem\71.i\s072500.b\8270clp.m
 Meth Date : 25-Jul-2000 14:55 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

WJL
7/25/00

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	==	4.593	4.597	(1.000)	82153	40.0000	*****
* 2 Naphthalene-d8	136	==	6.024	6.023	(1.000)	309150	40.0000	*****
* 3 Acenaphthene-d10	164	==	8.882	8.881	(1.000)	170029	40.0000	*****
* 4 Phenanthrene-d10	188	==	12.088	12.097	(1.000)	321222	40.0000	*****
* 5 Chrysene-d12	240	==	18.642	18.657	(1.000)	354175	40.0000	*****
* 6 Perylene-d12	264	==	21.987	21.996	(1.000)	419507	40.0000	*****
13 N-Nitrosodimethylamine	74							
10 Pyridine	79							
19 Methyl methanesulfonate	80							
22 Aniline	93							
23 Phenol	94							
24 bis(2-Chloroethyl)ether	93							
25 2-Chlorophenol	128							

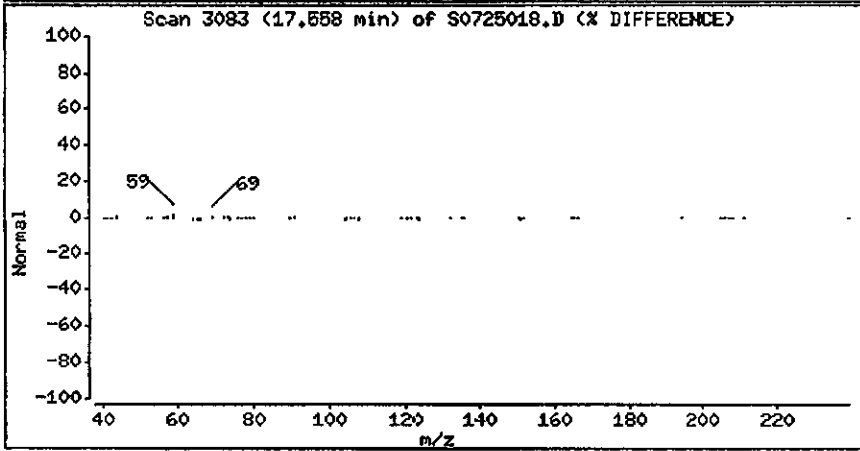
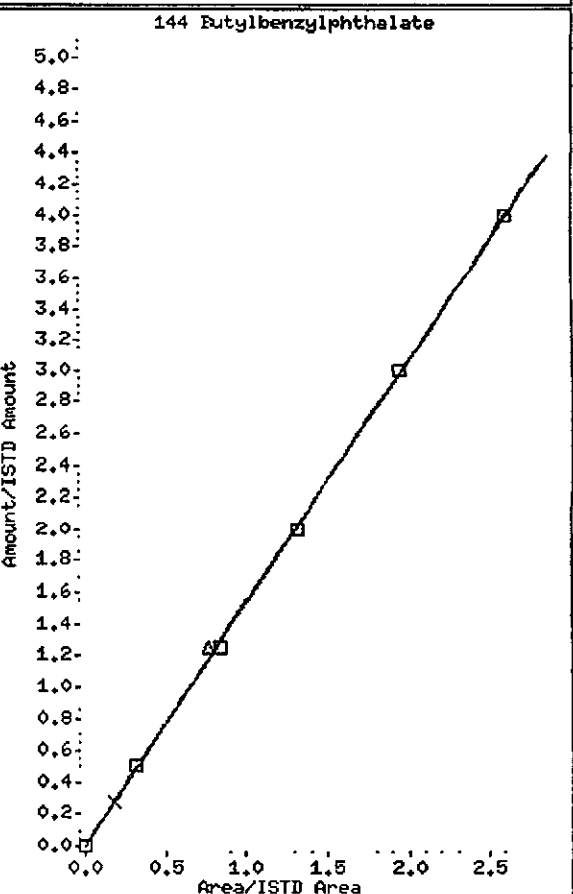
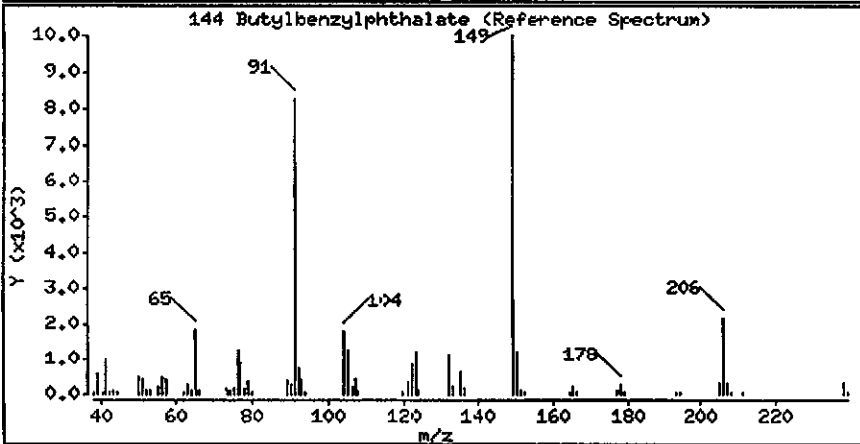
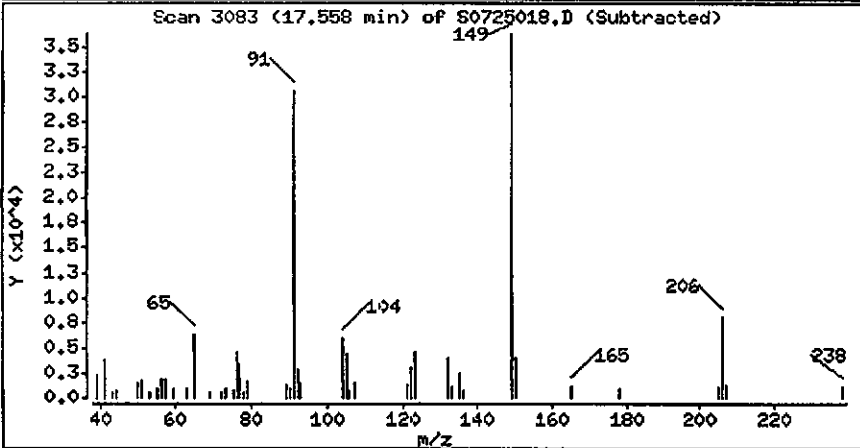
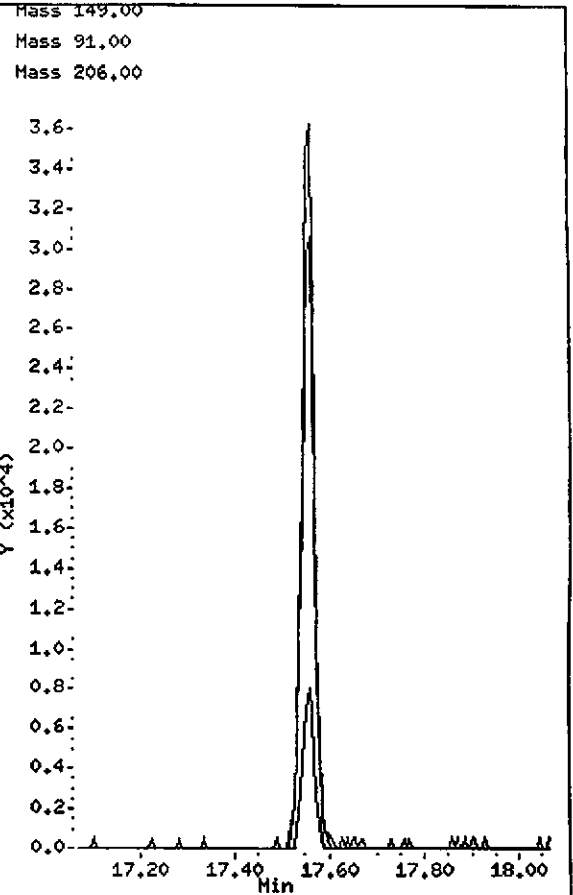
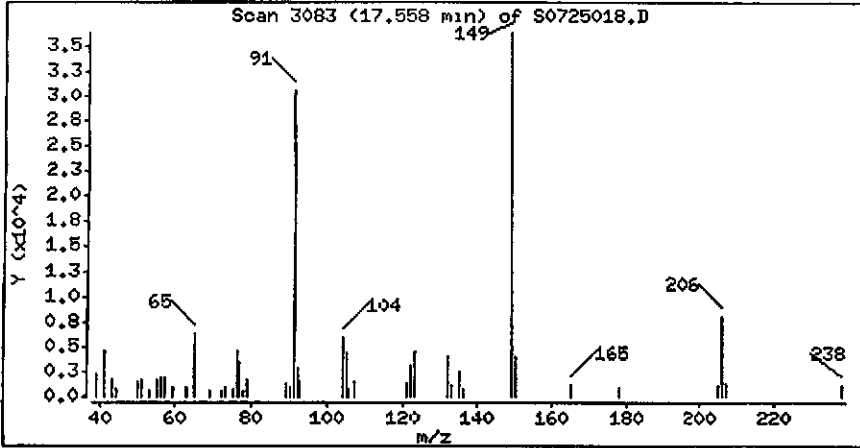
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
27 1,3-Dichlorobenzene	146				Compound Not Detected		
28 1,4-Dichlorobenzene	146				Compound Not Detected.		
29 1,2-Dichlorobenzene	146				Compound Not Detected.		
30 Benzyl Alcohol	108				Compound Not Detected		
31 2-Methylphenol	108				Compound Not Detected.		
32 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
33 N-Nitroso-di-n-propylamine	70				Compound Not Detected		
35 4-Methylphenol	108				Compound Not Detected		
38 Hexachloroethane	117				Compound Not Detected.		
39 Nitrobenzene	77				Compound Not Detected.		
44 Isophorone	82				Compound Not Detected.		
45 2-Nitrophenol	139				Compound Not Detected.		
46 2,4-Dimethylphenol	107				Compound Not Detected		
47 bis(2-Chloroethoxy)methane	93				Compound Not Detected		
51 2,4-Dichlorophenol	162				Compound Not Detected.		
52 Benzoic Acid	122				Compound Not Detected		
53 1,2,4-Trichlorobenzene	179				Compound Not Detected.		
54 Naphthalene	128				Compound Not Detected		
55 4-Chloroaniline	127				Compound Not Detected.		
59 Hexachlorobutadiene	224				Compound Not Detected.		
62 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
65 2-Methylnaphthalene	142				Compound Not Detected		
66 1-Methylnaphthalene	142				Compound Not Detected.		
67 Hexachlorocyclopentadiene	236				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
73 2-Chloronaphthalene	162				Compound Not Detected.		
77 2-Nitroaniline	65				Compound Not Detected.		
80 Dimethylphthalate	163				Compound Not Detected		
82 2,6-Dinitrotoluene	165				Compound Not Detected		
83 Acenaphthylene	152				Compound Not Detected.		
85 3-Nitroaniline	138				Compound Not Detected.		
86 Acenaphthene	153				Compound Not Detected.		
87 2,4-Dinitrophenol	184				Compound Not Detected.		
89 4-Nitrophenol	109				Compound Not Detected.		
90 Dibenzofuran	168				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
95 2,3,5,6-Tetrachlorophenol	231				Compound Not Detected.		
92 2,3,4,6-Tetrachlorophenol	231				Compound Not Detected.		
96 2-Naphthylamine	143				Compound Not Detected.		
97 Diethylphthalate	149				Compound Not Detected		
98 Fluorene	166				Compound Not Detected.		
99 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
100 4-Nitroaniline	138				Compound Not Detected.		
102 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
103 N-Nitrosodiphenylamine (1)	169				Compound Not Detected		
104 1,2-Diphenylhydrazine	77				Compound Not Detected		

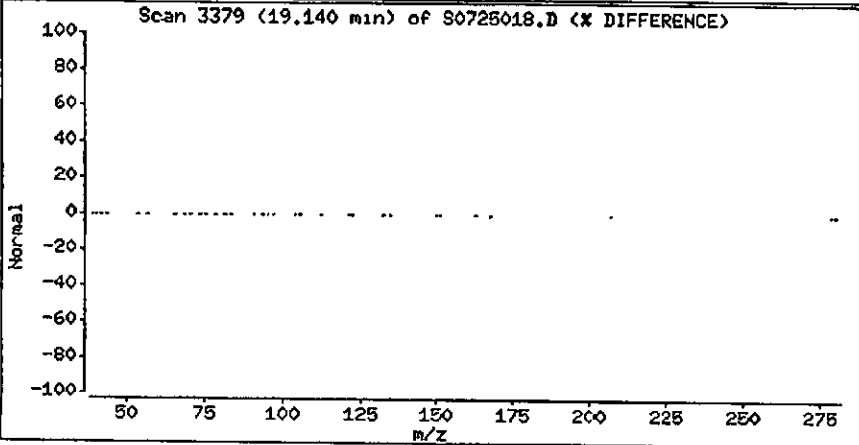
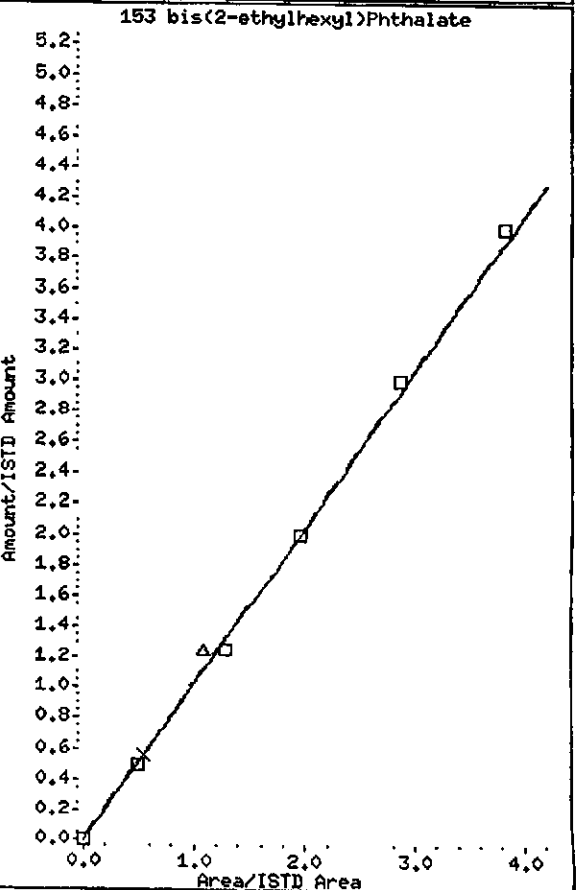
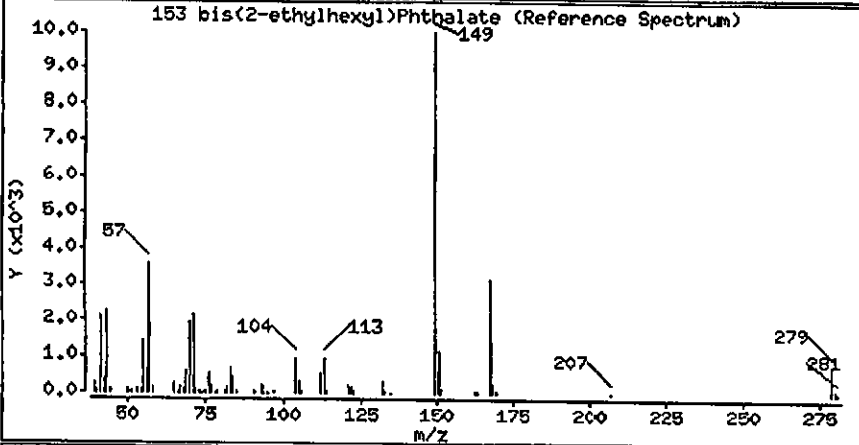
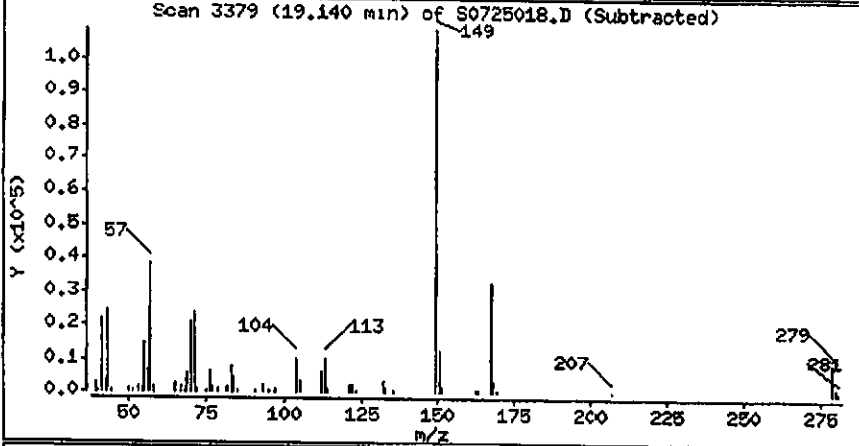
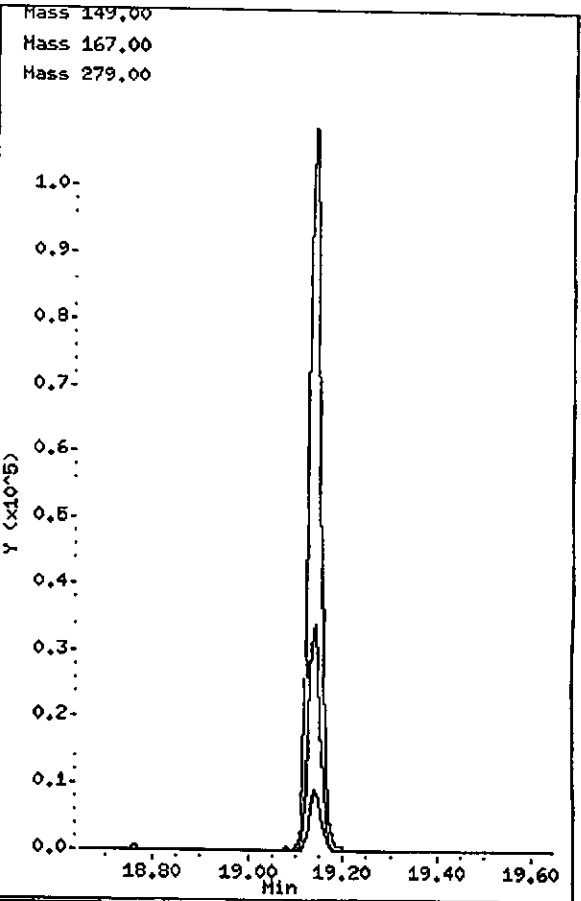
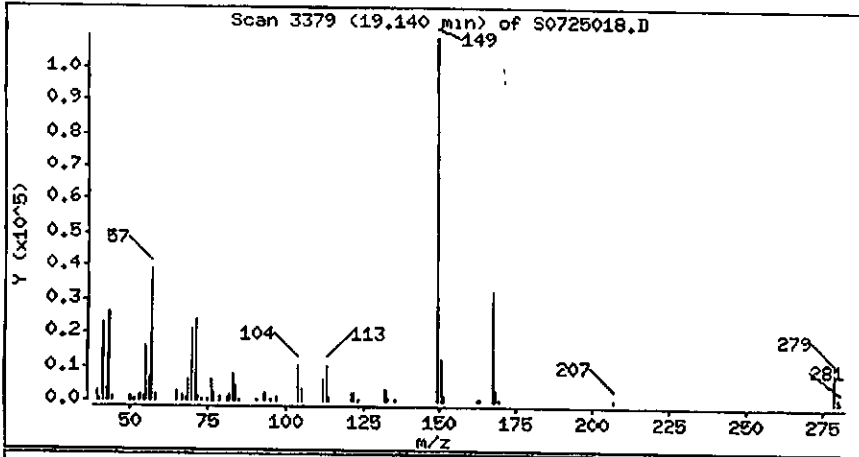
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
112 4-Bromophenyl-phenylether	248				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected		
122 Phenanthrene	178				Compound Not Detected		
123 Anthracene	178				Compound Not Detected		
126 Carbazole	167				Compound Not Detected.		
130 Di-n-Butylphthalate	149				Compound Not Detected.		
135 Fluoranthene	202				Compound Not Detected		
136 Benzidine	184				Compound Not Detected.		
137 Pyrene	202				Compound Not Detected.		
144 Butylbenzylphthalate	149	17.558	17.567	(0.942)	65257	11.2636	5.6318 (a)
149 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
150 Benzo(a)Anthracene	228				Compound Not Detected.		
151 Chrysene	228				Compound Not Detected		
153 bis(2-ethylhexyl)Phthalate	149	19.139	19.148	(1.027)	194983	22.3914	11.196
155 Di-n-octylphthalate	149				Compound Not Detected.		
157 Benzo(b)fluoranthene	252				Compound Not Detected		
158 Benzo(k)fluoranthene	252				Compound Not Detected.		
159 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
167 Benzo(a)pyrene	252				Compound Not Detected		
169 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected		
170 Dibenz(a,h)anthracene	278				Compound Not Detected		
171 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.212	5.216	(0.865)	290266	78.0908	39.045
\$ 173 2-Fluorobiphenyl	172	7.664	7.663	(0.863)	438773	79.2574	39.629
\$ 174 Terphenyl-d14	244	16.137	16.136	(0.866)	681477	95.5432	47.772
\$ 175 Phenol-d5	99	4.363	4.361	(0.950)	417861	113.455	56.727
\$ 176 2-Fluorophenol	112	3.310	3.314	(0.721)	270643	97.8906	48.945
\$ 177 2,4,6-Tribromophenol	330	10.581	10.580	(0.875)	120839	149.729	74.864
\$ 178 2-Chlorophenol-d4	132	4.422	4.420	(0.963)	326984	126.603	63.301
\$ 179 1,2-Dichlorobenzene-d4	152	4.790	4.789	(1.043)	129707	72.5405	36.270

QC Flag Legend

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

144 Butylbenzylphthalate





664 1103

**GC/MS SEMIVOLATILE
CALIBRATION DATA**

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

664 1104

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Instrument ID: 71

Calibration Date(s): 07/20/00

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF1	=S0720CC1.D	RRF2	=S0720CC2.D	RRF3	=S0720CC3.D	RRF4	=S0720CC4.D	RRF5	=S0720CC5.D		
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	\overline{RRF}	% RSD					
Phenol	* 2.029	1.971	1.996	1.892	1.837	1.945	4.1*					
bis(2-Chloroethyl) ether	1.623	1.638	1.634	1.588	1.563	1.609	2.0					
2-Chlorophenol	1.436	1.444	1.433	1.351	1.329	1.399	3.9					
1,3-Dichlorobenzene	1.581	1.577	1.571	1.495	1.494	1.544	2.9					
1,4-Dichlorobenzene	* 1.605	1.634	1.589	1.516	1.513	1.571	3.5*					
1,2-Dichlorobenzene	1.495	1.490	1.469	1.399	1.369	1.444	3.9					
2-Methylphenol	1.375	1.387	1.380	1.276	1.240	1.332	5.2					
2,2'-oxybis(1-Chloropropane	2.658	2.664	2.598	2.489	2.413	2.564	4.3					
4-Methylphenol	1.448	1.466	1.442	1.356	1.298	1.402	5.1					
Hexachloroethane	0.677	0.678	0.681	0.660	0.660	0.671	1.5					
Nitrobenzene	0.520	0.527	0.527	0.519	0.523	0.523	0.7					
Isophorone	0.801	0.804	0.810	0.778	0.779	0.794	1.9					
2-Nitrophenol	* 0.195	0.198	0.204	0.197	0.200	0.199	1.7*					
2,4-Dimethylphenol	0.371	0.392	0.404	0.393	0.396	0.391	3.2					
bis(2-Chloroethoxy)methane	0.478	0.478	0.479	0.466	0.470	0.474	1.2					
N-Nitroso-di-n-propylamine	# 1.322	1.324	1.323	1.250	1.230	1.290	3.6#					
2,4-Dichlorophenol	* 0.279	0.282	0.283	0.272	0.269	0.277	2.3*					
1,2,4-Trichlorobenzene	0.296	0.296	0.296	0.289	0.292	0.294	1.2					
Naphthalene	1.113	1.114	1.105	1.067	1.061	1.092	2.4					
4-Chloroaniline	0.422	0.419	0.421	0.400	0.402	0.413	2.6					
Hexachlorobutadiene	* 0.162	0.164	0.165	0.160	0.163	0.163	1.3*					
4-Chloro-3-Methylphenol	* 0.333	0.334	0.337	0.323	0.325	0.330	1.8*					
2-Methylnaphthalene	0.706	0.707	0.700	0.673	0.672	0.692	2.5					
Hexachlorocyclopentadiene	# 0.250	0.289	0.323	0.324	0.345	0.306	12.1#					
2,4,6-Trichlorophenol	* 0.332	0.346	0.348	0.340	0.344	0.342	1.8*					
2,4,5-Trichlorophenol	0.358	0.363	0.369	0.362	0.352	0.361	1.6					
2-Chloronaphthalene	1.169	1.166	1.179	1.146	1.150	1.162	1.2					
2-Nitroaniline	0.481	0.500	0.515	0.512	0.532	0.508	3.7					
Dimethylphthalate	1.282	1.303	1.294	1.287	1.305	1.294	0.8					
Acenaphthylene	1.880	1.878	1.903	1.858	1.863	1.876	0.9					
2,6-Dinitrotoluene	0.276	0.291	0.290	0.292	0.298	0.289	2.8					
3-Nitroaniline	0.317	0.334	0.340	0.349	0.365	0.341	5.2					
Acenaphthene	* 1.178	1.181	1.190	1.156	1.160	1.173	1.2*					
2,4-Dinitrophenol	# 0.104	0.143	0.172	0.193	0.211	0.165	25.7#					
4-Nitrophenol	# 0.186	0.214	0.226	0.251	0.270	0.229	14.2#					
Dibenzofuran	1.588	1.616	1.612	1.580	1.591	1.597	1.0					
2,4-Dinitrotoluene	0.356	0.378	0.377	0.391	0.413	0.383	5.4					

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Instrument ID: 71

Calibration Date(s): 07/20/00 07/20/00

Calibration Time(s): 1355 1602

LAB FILE ID:	RRF20 =S0720CC1	RRF50 =S0720CC2					
RRF80 =S0720CC3	RRF120=S0720CC4	RRF160=S0720CC5					
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Diethylphthalate	1.292	1.331	1.309	1.328	1.381	1.328	2.5
4-Chlorophenyl-phenylether	0.572	0.577	0.577	0.561	0.573	0.572	1.1
Fluorene	1.278	1.278	1.275	1.241	1.259	1.266	1.3
4-Nitroaniline	0.290	0.315	0.326	0.360	0.382	0.335	10.9
4,6-Dinitro-2-methylphenol	0.126	0.136	0.152	0.161	0.160	0.147	10.5
N-Nitrosodiphenylamine (1)	0.605	0.530	0.573	0.552	0.540	0.560	5.3
4-Bromophenyl-phenylether	0.197	0.193	0.192	0.182	0.179	0.189	4.1
Hexachlorobenzene	0.200	0.198	0.198	0.188	0.187	0.194	3.2
Pentachlorophenol	0.078	0.102	0.104	0.108	0.115	0.101	13.7
Phenanthrene	1.056	1.056	1.055	1.029	1.026	1.044	1.5
Anthracene	1.083	1.081	1.087	1.073	1.066	1.078	0.8
Carbazole	0.954	0.983	1.002	1.040	1.064	1.009	4.3
Di-n-Butylphthalate	1.216	1.274	1.320	1.369	1.386	1.313	5.3
Fluoranthene	0.969	1.008	1.054	1.141	1.163	1.067	7.8
Pyrene	1.128	1.135	1.081	0.999	1.003	1.069	6.1
Butylbenzylphthalate	0.636	0.670	0.663	0.650	0.652	0.654	2.0
3,3'-Dichlorobenzidine	0.466	0.449	0.472	0.474	0.467	0.466	2.1
Benzo (a) Anthracene	1.101	1.130	1.131	1.107	1.111	1.116	1.2
Chrysene	1.044	1.075	1.059	1.029	1.032	1.048	1.9
bis (2-ethylhexyl) Phthalate	0.996	1.025	0.981	0.956	0.959	0.983	2.9
Di-n-octylphthalate	1.604	1.633	1.531	1.454	1.414	1.527	6.2
Benzo (b) fluoranthene	1.051	1.083	1.145	1.161	1.364	1.161	10.5
Benzo (k) fluoranthene	1.160	1.154	1.113	0.944	0.805	1.035	15.1
Benzo (a) pyrene	1.066	1.081	1.079	1.042	1.046	1.063	1.7
Indeno (1,2,3-cd) pyrene	1.333	1.325	1.383	1.341	1.442	1.365	3.6
Dibenz (a, h) anthracene	1.344	1.350	1.358	1.331	1.408	1.358	2.2
Benzo (g, h, i) perylene	1.346	1.347	1.354	1.360	1.411	1.364	2.0
Pyridine	1.711	1.512	1.707	1.663	1.662	1.651	4.9
N-Nitrosodimethylamine	0.967	0.970	0.976	0.955	0.957	0.965	0.9
Aniline	2.571	2.067	2.394	2.256	2.186	2.295	8.5
Benzyl Alcohol	1.075	1.021	1.016	1.009	0.981	1.020	3.3
Benzoic Acid	0.057	0.112	0.159	0.175	0.189	0.138	38.8
1-Methylnaphthalene	0.669	0.634	0.644	0.627	0.616	0.638	3.2
2,3,4,6-Tetrachlorophenol	0.237	0.239	0.250	0.258	0.256	0.248	3.9
2,3,5,6-Tetrachlorophenol	0.229	0.239	0.247	0.253	0.262	0.246	5.2
1,2-Diphenylhydrazine	1.227	1.185	1.208	1.135	1.205	1.192	2.9
Benzidine	0.645	0.462	0.619	0.576	0.543	0.569	12.5

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

664 1107 INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0720CC5.D
Analysis Type: NONE

Injection Date: 20-JUL-2000 16:02
Lab Sample ID: sstd160
Method File: \\Qpitpa02\D\chem\71.i\s072000.b\

COMPOUND	%RSD
Benzo(b)fluoranthene	10.5
7,12-dimethylbenz(a)anthracene	2.3
Benzo(k)fluoranthene	15.1
Benzo(a)pyrene	1.7
Indeno(1,2,3-cd)pyrene	3.4
Dibenz(a,h)anthracene	2.2
Benzo(g,h,i)perylene	2.0

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

664 1108

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0720CC5.D
Analysis Type: NONE

Injection Date: 20-JUL-2000 16:02
Lab Sample ID: sstd160
Method File: \\Qpitpa02\D\chem\71.i\s072000.b\

COMPOUND	%RSD
2-Chloronaphthalene	1.2
2-Nitroaniline	3.7
Dimethylphthalate	0.8
Acenaphthylene	0.9
2,6-Dinitrotoluene	2.8
3-Nitroaniline	5.2
Acenaphthene	1.2
2,4-Dinitrophenol	25.7
Dibenzofuran	1.0
4-Nitrophenol	14.2
2,4-Dinitrotoluene	5.4
2,3,5,6-Tetrachlorophenol	5.2
2-Naphthylamine	20.9
2,3,4,6-Tetrachlorophenol	3.9
Diethylphthalate	2.5
Fluorene	1.3
4-Chlorophenyl-phenylether	1.1
4-Nitroaniline	10.9
4,6-Dinitro-2-methylphenol	10.5
N-Nitrosodiphenylamine (1)	5.3
1,2-Diphenylhydrazine	2.9
2,4,6-Tribromophenol	1.0
4-Bromophenyl-phenylether	4.1
Hexachlorobenzene	3.2
Pentachlorophenol	13.7
Phenanthrene	1.5
Anthracene	0.8
Carbazole	4.3
Di-n-Butylphthalate	5.3
Fluoranthene	7.8
Benzidine	12.5
Pyrene	6.1
Terphenyl-d14	4.2
Butylbenzylphthalate	2.0
Benzo(a)Anthracene	1.2
3,3'-Dichlorobenzidine	2.1
Chrysene	1.9
bis(2-ethylhexyl)Phthalate	2.9
Di-n-octylphthalate	6.2

664 1109

INITIAL CALIBRATION REPORT

Instrument ID: 71.1
 Lab File ID: S0720CC5.D
 Analysis Type: NONE

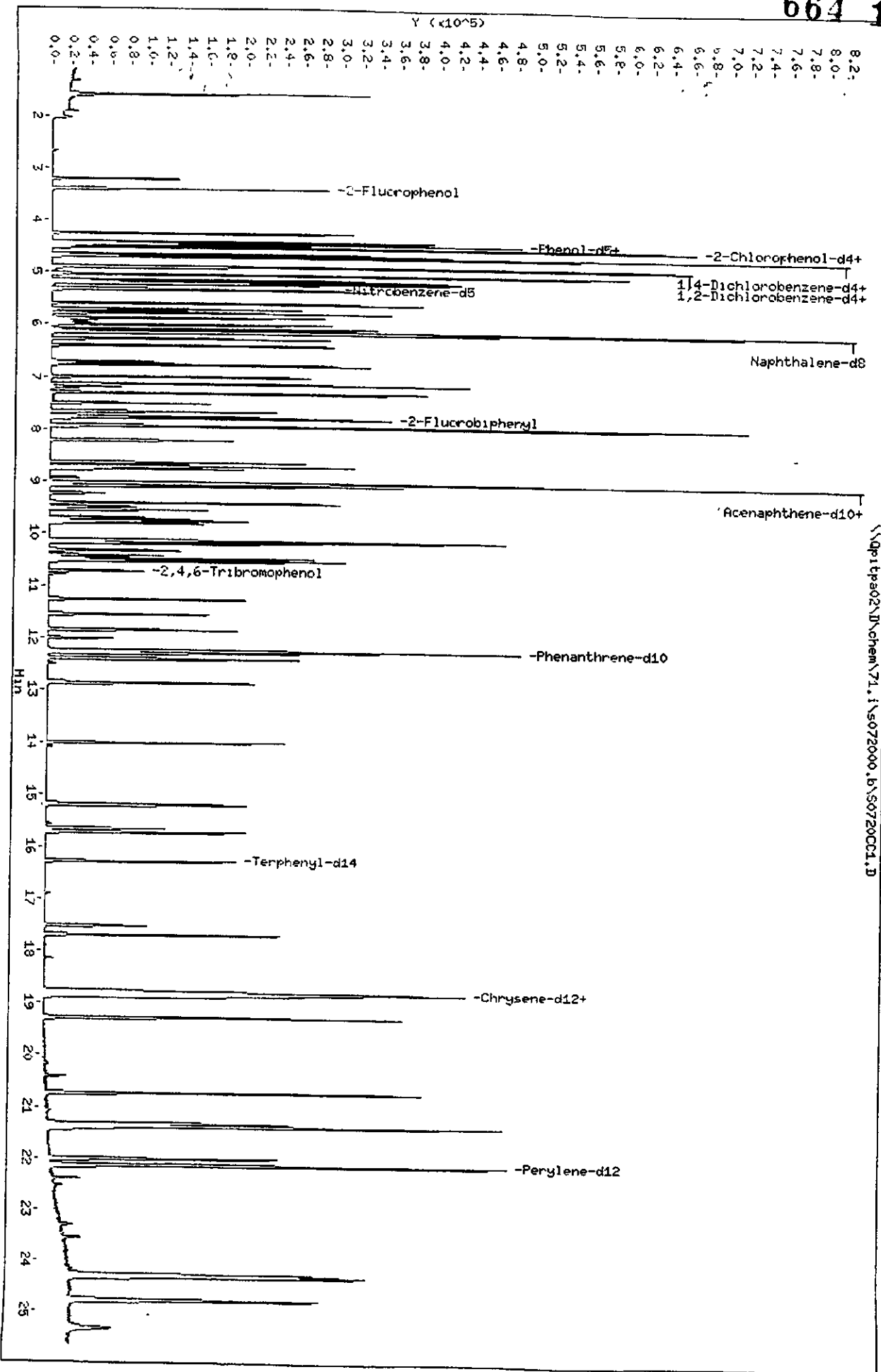
Injection Date: 20-JUL-2000 16:02
 Lab Sample ID: sstd160
 Method File: \\Qpitpa02\D\chem\71.i\s072000.b\

COMPOUND	%RSD
Pyridine	5.2
N-Nitrosodimethylamine	1.0
Methyl methanesulfonate	18.8
2-Fluorophenol	1.9
Aniline	8.5
Phenol-d5	4.5
Phenol	4.1
bis(2-Chloroethyl) ether	2.0
2-Chlorophenol-d4	3.5
2-Chlorophenol	3.9
1,3-Dichlorobenzene	2.9
1,4-Dichlorobenzene	3.5
1,2-Dichlorobenzene-d4	3.2
Benzyl Alcohol	3.3
1,2-Dichlorobenzene	3.9
2,2'-oxybis(1-Chloropropane)	4.3
2-Methylphenol	5.2
N-Nitroso-di-n-propylamine	3.6
4-Methylphenol	5.1
Hexachloroethane	1.5
Nitrobenzene-d5	2.2
Nitrobenzene	0.7
Isophorone	1.9
2-Nitrophenol	1.7
2,4-Dimethylphenol	3.2
bis(2-Chloroethoxy)methane	1.2
2,4-Dichlorophenol	2.3
Benzoic Acid	38.8
1,2,4-Trichlorobenzene	1.2
Naphthalene	2.4
4-Chloroaniline	2.6
Hexachlorobutadiene	1.3
4-Chloro-3-Methylphenol	1.8
2-Methylnaphthalene	2.5
1-Methylnaphthalene	3.2
Hexachlorocyclopentadiene	12.1
2,4,6-Trichlorophenol	1.8
2,4,5-Trichlorophenol	1.6
2-Fluorobiphenyl	1.6

Data File: \\Qp1tpa02\chem\71.1\5072000.b\50720001.D
Date: 20-JUL-2000 14:27
Client ID: sstd020
Sample Info: sstd20(10 ug/ml) 194-175-10 8270/olp

Column phases: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



664 1111

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072000.b\S0720CC1.D
Lab Smp Id: sstd20 Client Smp ID: sstd020
Inj Date : 20-JUL-2000 14:27
Operator : 045183 Inst ID: 71.i
Smp Info : sstd20(10 ug/ml) 194-175-10 8270/clp
Misc Info : sstd20,s072000.b,8270clp.m,1-8270l.sub,1,1
Comment :
Method : \\Qpitpa02\D\chem\71.i\s072000.b\8270clp.m
Meth Date : 20-Jul-2000 15:59 bachas Quant Type: ISTD
Cal Date : 20-JUL-2000 15:30 Cal File: S0720CC4.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist; 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

*wwh
7/29/00*

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	4.684	4.684	(1.000)	119051	40.0000	
* 2 Naphthalene-d8	136	6.131	6.131	(1.000)	465315	40.0000	
* 3 Acenaphthene-d10	164	9.021	9.021	(1.000)	243134	40.0000	
* 4 Phenanthrene-d10	188	12.248	12.248	(1.000)	368987	40.0000	
* 5 Chrysene-d12	240	18.808	18.808	(1.000)	324274	40.0000	
* 6 Perylene-d12	264	22.142	22.142	(1.000)	416986	40.0000	
13 N-Nitrosodimethylamine	74	1.564	1.564	(0.334)	57549	20.0000	19.998 (M)
10 Pyridine	79	1.569	1.569	(0.335)	101873	20.0000	20.827 (M)
19 Methyl methanesulfonate	80	3.204	3.204	(0.694)	61333	20.0000	22.867
22 Aniline	93	4.400	4.400	(0.940)	153066	20.0000	22.147
23 Phenol	94	4.443	4.443	(0.949)	120806	20.0000	20.582
24 bis(2-Chloroethyl) ether	93	4.470	4.470	(0.954)	96598	20.0000	20.026
25 2-Chlorophenol	126	4.518	4.518	(0.965)	85504	20.0000	20.287
27 1,3-Dichlorobenzene	146	4.641	4.641	(0.991)	94104	20.0000	20.318
28 1,4-Dichlorobenzene	146	4.700	4.700	(1.003)	95555	20.0000	20.242
29 1,2-Dichlorobenzene	146	4.892	4.892	(1.044)	89003	20.0000	20.438
30 Benzyl Alcohol	108	4.870	4.870	(1.040)	63986	20.0000	20.866
31 2-Methylphenol	108	5.036	5.036	(1.075)	81845	20.0000	20.300
32 2,2'-oxybis(1-Chloropropane)	45	5.025	5.025	(1.073)	158244	20.0000	20.430
33 N-Nitroso-di-n-propylamine	70	5.175	5.175	(1.105)	78671	20.0000	20.261
35 4-Methylphenol	108	5.191	5.191	(1.108)	86179	20.0000	20.276
38 Hexachloroethane	117	5.212	5.212	(1.113)	40315	20.0000	20.092
39 Nitrobenzene	77	5.325	5.325	(0.868)	120949	20.0000	19.864
44 Isophorone	82	5.586	5.586	(0.911)	186286	20.0000	20.060
45 2-Nitrophenol	139	5.693	5.693	(0.929)	45417	20.0000	19.647
46 2,4-Dimethylphenol	107	5.773	5.773	(0.942)	86230	20.0000	19.003

*wwh
7/29/00*

664,1112

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
47 bis(2-Chloroethoxy)methane	93	5.869	5.869	(0.957)	111323	20.0000	20.131
51 2,4-Dichlorophenol	162	5.998	5.998	(0.978)	64955	20.0000	19.987
52 Benzoic Acid	122	5.896	5.896	(0.952)	13353	20.0000	9.1109(H)
53 1,2,4-Trichlorobenzene	180	6.078	6.078	(0.991)	58900	20.0000	20.112
54 Naphthalene	128	6.153	6.153	(1.003)	258937	20.0000	20.238
55 4-Chloroaniline	127	6.270	6.270	(1.023)	98214	20.0000	20.311
59 Hexachlorobutadiene	225	6.398	6.398	(1.044)	37671	20.0000	19.886
62 4-Chloro-3-Methylphenol	107	6.997	6.997	(1.141)	77583	20.0000	20.088
65 2-Methylnaphthalene	142	7.136	7.136	(1.164)	164334	20.0000	20.277
66 1-Methylnaphthalene	142	7.306	7.306	(1.192)	155633	20.0000	20.788
67 Hexachlorocyclopentadiene	237	7.504	7.504	(0.832)	30444	20.0000	16.870
69 2,4,6-Trichlorophenol	196	7.664	7.664	(0.850)	40421	20.0000	19.460
70 2,4,5-Trichlorophenol	196	7.745	7.745	(0.858)	43588	20.0000	19.757
73 2-Chloronaphthalene	162	7.937	7.937	(0.880)	142163	20.0000	20.074
77 2-Nitroaniline	65	8.215	8.215	(0.911)	58439	20.0000	19.147
80 Dimethylnaphthalene	163	8.631	8.631	(0.957)	155829	20.0000	19.848
82 2,6-Dinitrotoluene	165	8.760	8.760	(0.971)	33537	20.0000	19.214
83 Acenaphthylene	152	8.711	8.711	(0.966)	228499	20.0000	20.000
85 3-Nitroaniline	138	9.021	9.021	(1.000)	38539	20.0000	18.927
86 Acenaphthene	153	9.080	9.080	(1.007)	143226	20.0000	20.028
87 2,4-Dinitrophenol	184	9.230	9.230	(1.023)	12676	20.0000	13.617
89 4-Nitrophenol	109	9.486	9.486	(1.052)	22598	20.0000	16.956
90 Dibenzofuran	168	9.406	9.406	(1.043)	193086	20.0000	19.863
91 2,4-Dinitrotoluene	165	9.545	9.545	(1.058)	43322	20.0000	18.983
95 2,3,5,6-Tetrachlorophenol	232	9.700	9.700	(1.075)	27807	20.0000	18.909
92 2,3,4,6-Tetrachlorophenol	232	9.796	9.796	(1.086)	28826	20.0000	19.273
96 2-Naphthylamine	143	9.753	9.753	(1.081)	121683	20.0000	23.914
97 Diethylphthalate	149	10.122	10.122	(1.122)	157102	20.0000	19.655
98 Fluorene	166	10.138	10.138	(1.124)	155382	20.0000	20.159
99 4-Chlorophenyl-phenylether	204	10.181	10.181	(1.128)	69563	20.0000	20.014
100 4-Nitroaniline	138	10.319	10.319	(1.144)	35263	20.0000	17.981
102 4,6-Dinitro-2-methylphenol	198	10.416	10.416	(0.850)	23212	20.0000	17.498
103 N-Nitrosodiphenylamine (1)	169	10.474	10.474	(0.855)	111614	20.0000	21.403
104 1,2-Diphenylhydrazine	77	10.522	10.522	(0.859)	226313	20.0000	20.638
112 4-Bromophenyl-phenylether	248	11.265	11.265	(0.920)	36333	20.0000	20.626
113 Hexachlorobenzene	284	11.548	11.548	(0.943)	36965	20.0000	20.401
117 Pentachlorophenol	266	12.013	12.013	(0.981)	14478	20.0000	15.943
122 Phenanthrene	178	12.296	12.296	(1.004)	194853	20.0000	20.134
123 Anthracene	178	12.403	12.403	(1.013)	199845	20.0000	20.040
126 Carbazole	167	12.862	12.862	(1.050)	175950	20.0000	19.177
130 Di-n-Butylphthalate	149	14.000	14.000	(1.143)	224339	20.0000	18.782
135 Fluoranthene	202	15.197	15.197	(1.241)	178731	20.0000	18.579
136 Benzadine	184	15.646	15.646	(0.832)	104580	20.0000	22.411
137 Pyrene	202	15.726	15.726	(0.836)	182960	20.0000	20.781
144 Butylbenzylphthalate	149	17.697	17.697	(0.941)	103186	20.0000	19.438
149 3,3'-Dichlorobenzadine	252	18.840	18.840	(1.002)	75539	20.0000	20.024
150 Benzo(a)Anthracene	228	18.765	18.765	(0.998)	178497	20.0000	19.707

664 1113

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	18.867	18.867	(1.003)	169356	20.0000	19.860
153 bis(2-ethylhexyl)Phthalate	149	19.278	19.278	(1.025)	161531	20.0000	20.134
155 Di-n-octylphthalate	149	20.737	20.737	(0.927)	334469	20.0000	20.624
157 Benzo(b)fluoranthene	252	21.324	21.324	(0.963)	219218	20.0000	18.941
158 Benzo(k)fluoranthene	252	21.383	21.383	(0.966)	241958	20.0000	21.238
159 7,12-dimethylbenz(a)anthracen	256	21.388	21.388	(0.966)	96431	20.0000	19.357
167 Benzo(a)pyrene	252	22.013	22.013	(0.994)	222286	20.0000	19.979
169 Indeno(1,2,3-cd)pyrene	276	24.273	24.273	(1.096)	277873	20.0000	18.354 (M)
170 Dibenzo(a,h)anthracene	278	24.316	24.316	(1.098)	280156	20.0000	19.968
171 Benzo(g,h,i)perylene	276	24.786	24.786	(1.119)	280688	20.0000	19.918
\$ 172 Nitrobenzene-d5	82	5.309	5.309	(0.866)	108753	20.0000	19.526
\$ 173 2-Fluorobiphenyl	172	7.787	7.787	(0.863)	157027	20.0000	19.833
\$ 174 Terphenyl-d14	244	16.281	16.281	(0.866)	133855	20.0000	20.301
\$ 175 Phenol-d5	99	4.432	4.432	(0.946)	113052	20.0000	20.861
\$ 176 2-Fluorophenol	112	3.396	3.396	(0.725)	61877	20.0000	20.218
\$ 177 2,4,6-Tribromophenol	330	10.720	10.720	(0.875)	18628	20.0000	20.058
\$ 178 2-Chlorophenol-d4	132	4.502	4.502	(0.961)	78172	20.0000	20.650
\$ 179 1,2-Dichlorobenzene-d4	152	4.876	4.876	(1.041)	52907	20.0000	20.203

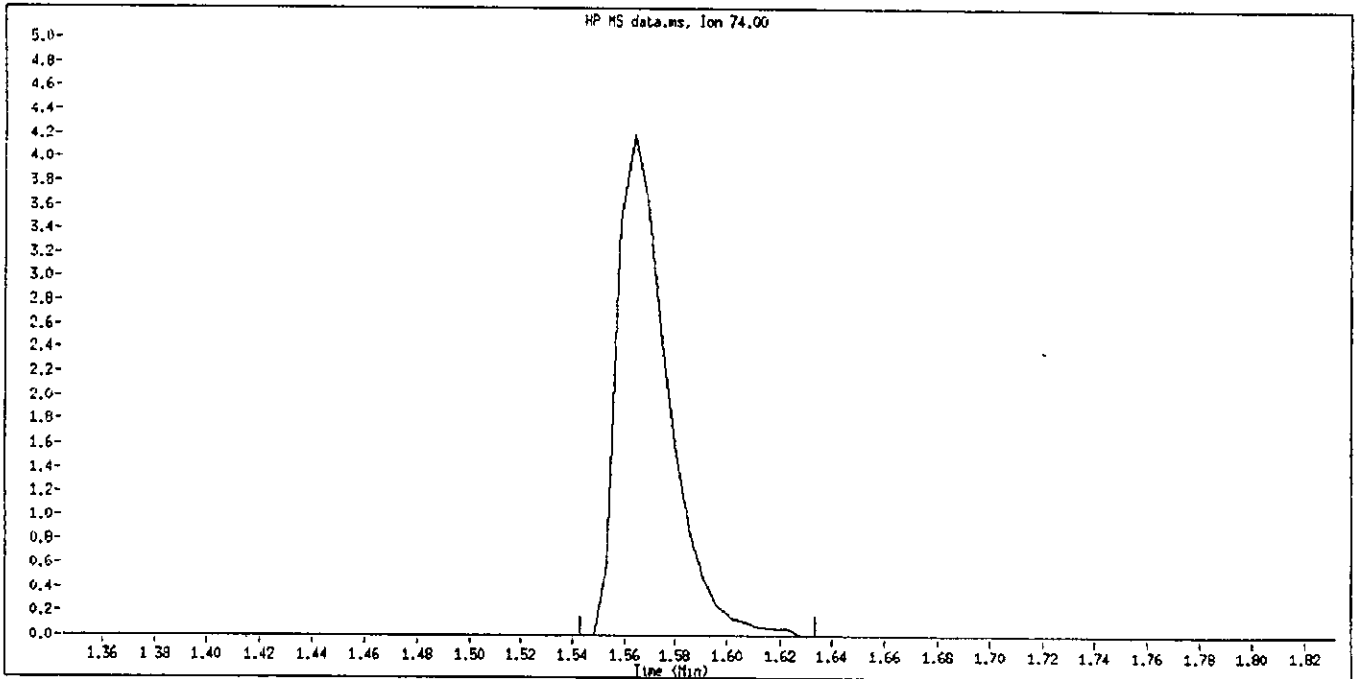
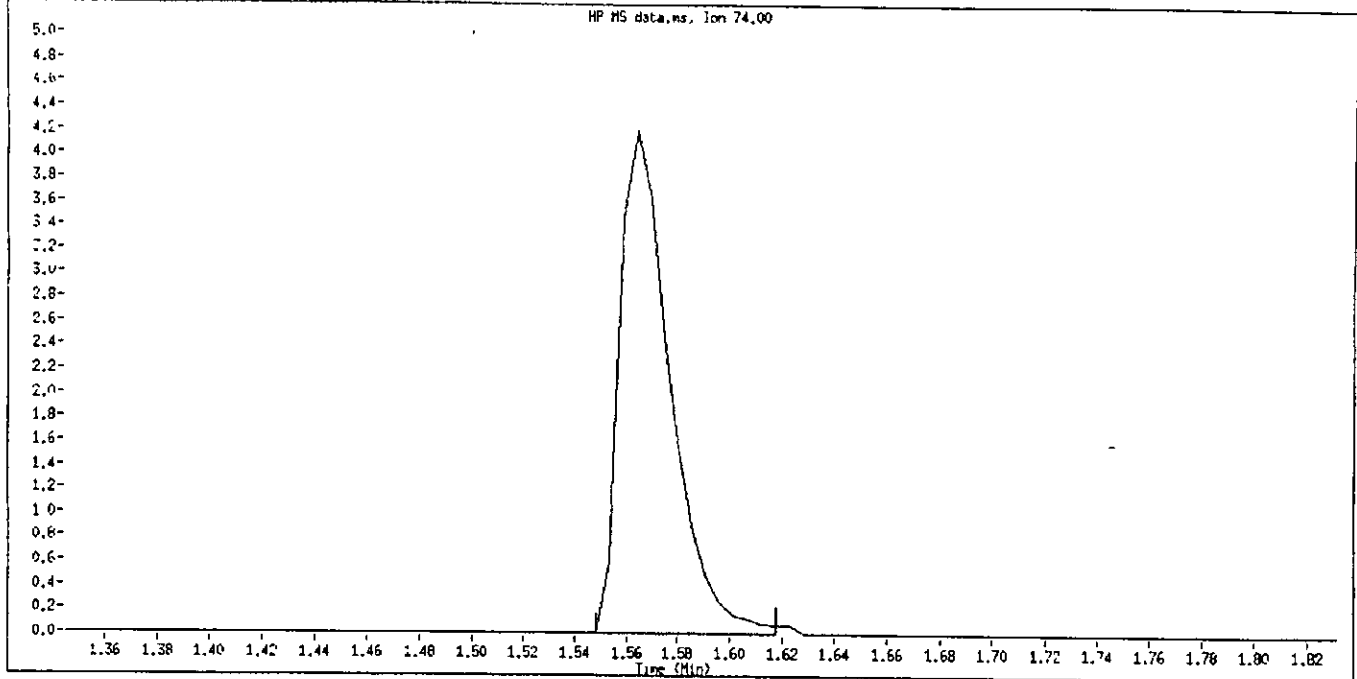
Handwritten note:
 7/25/00

QC Flag Legend

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

Data File Name S0720CC1.D
Inj Date and Time 20-JUL-2000 14:27
Instrument ID 711
Client ID 5475020
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 07/20/2000

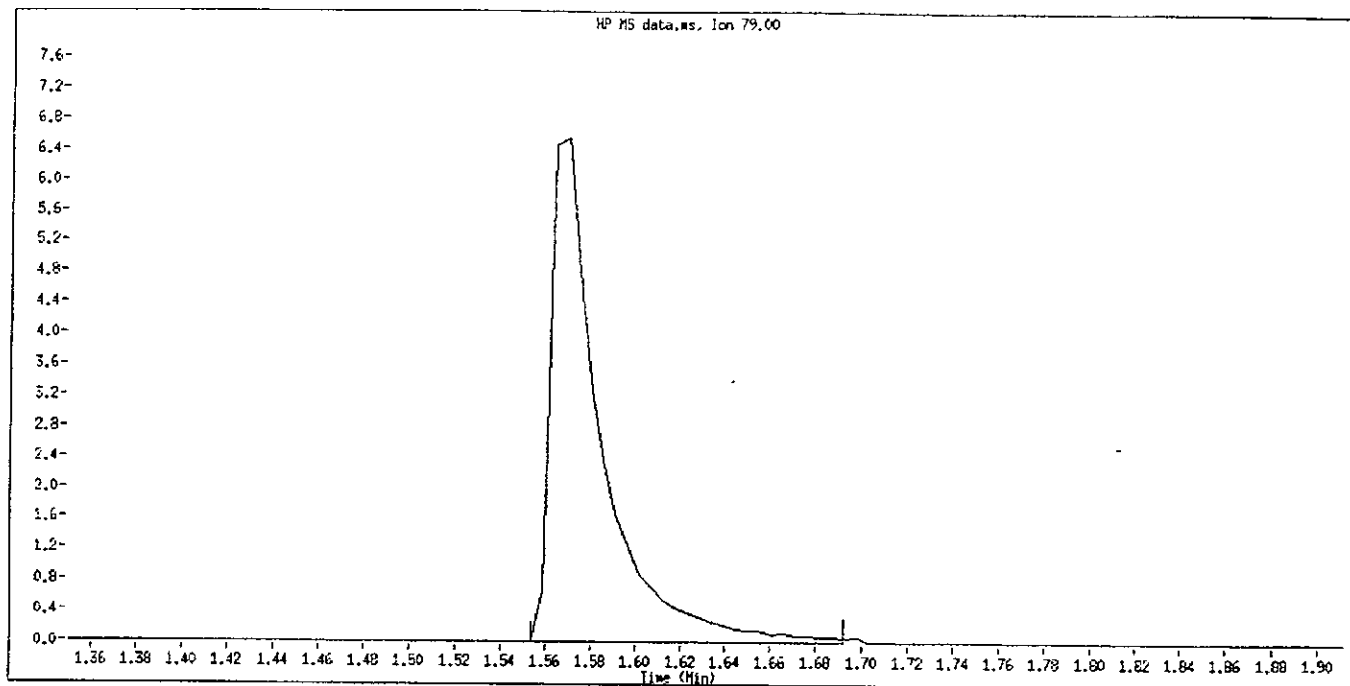
664 1114



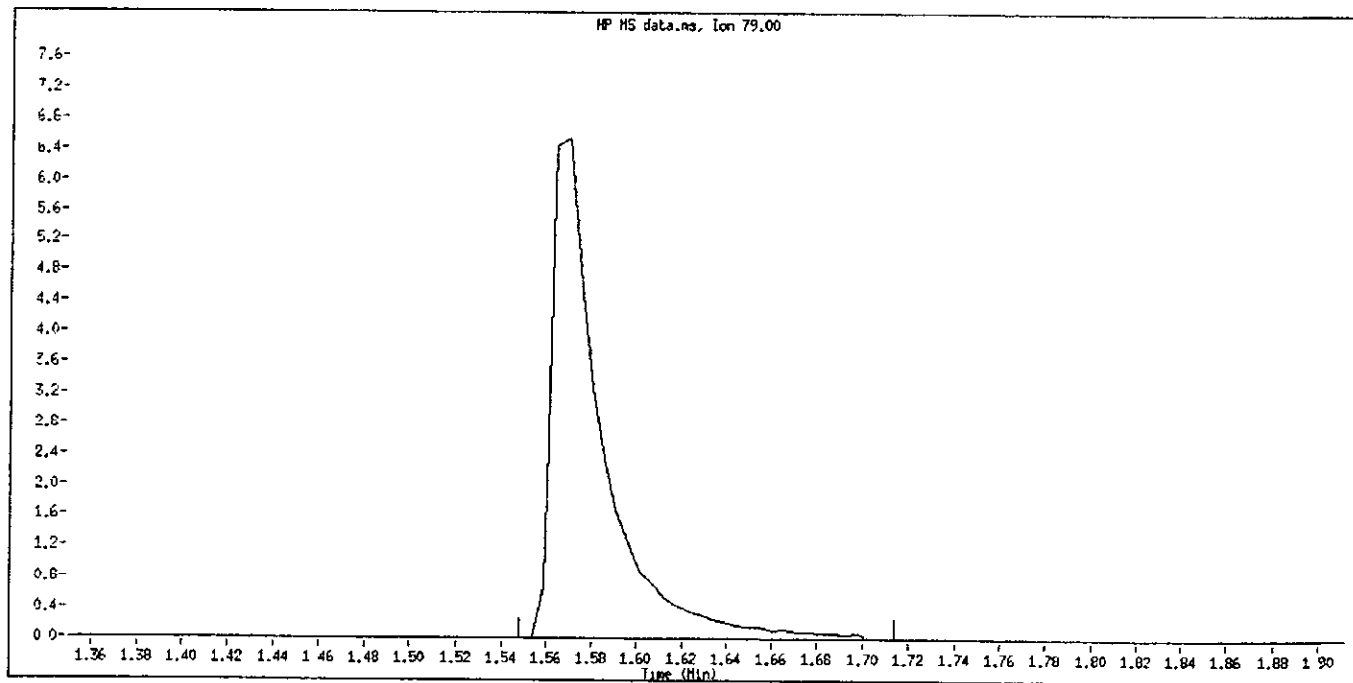
Manually Integrated By Bachas *WVP* 7/20/00
Manual Integration Reason: Poor Chromatography

Data File Name S072CCC1.D
Inj Date and Time 20-JUL-2000 14:27
Instrument ID 711
Client ID ssta020
Compound Name Fyralone
CAS # 110-86-1
Report Date 07/20/2000

664 1115



Original Integration

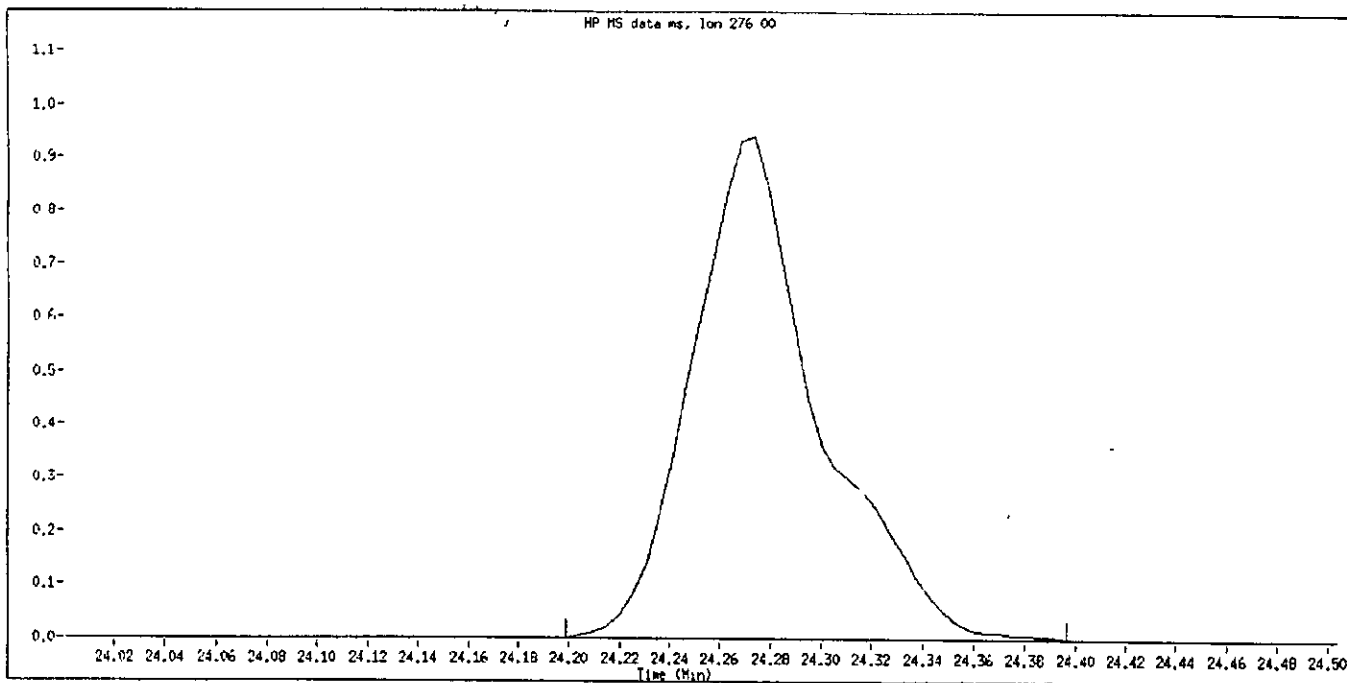


Manual Integration

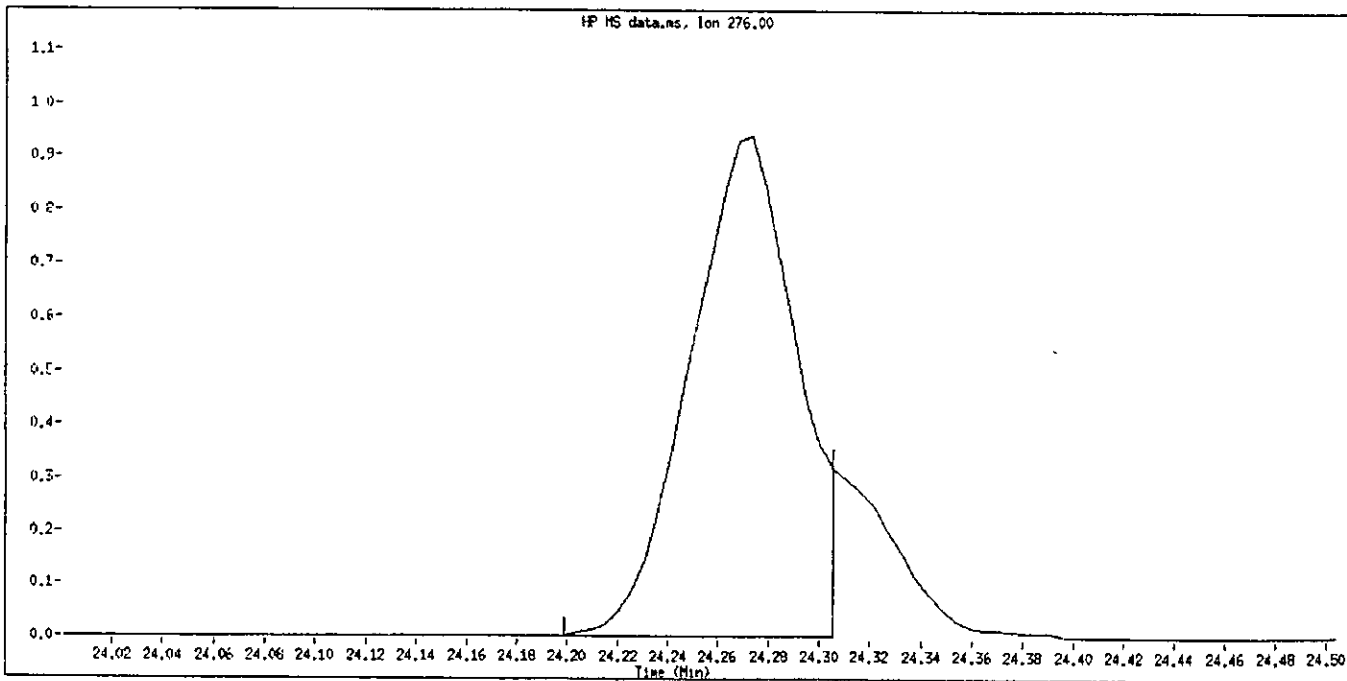
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Manual Integration Reason: Poor Chromatography

Data File Name S0720CC1.D
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Instrument ID 711
Client ID sst3020
Compound Name Itraeno (1,2,3-cd)pyrene
CAS # 193-19-5
Report Date 07/20/2000

664 1116



Original Integration



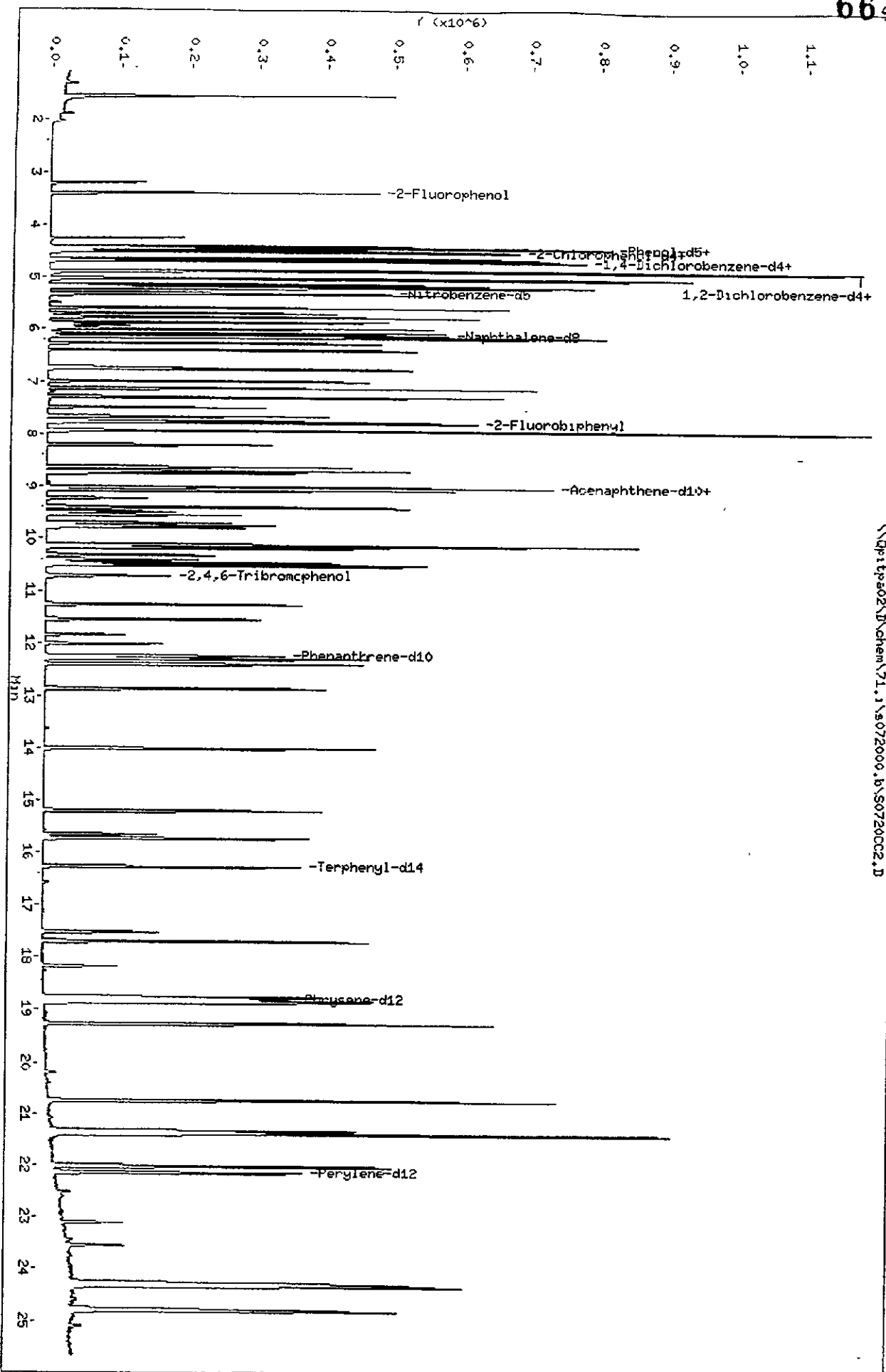
Manual Integration

Manually Integrated By Bacnas /w/ 7/20/00
Manual Integration Reason Poor Chromatography

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Date: 20-JUL-2000 13:55
Client ID: sst0050
Sample Info: sst00(25 ug/ml) 194-188-1 8270/olp
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

\\Qp1tpa02\D\chem\71.1\5072000.b\50720002.D



664 1118

STL Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072000.b\S0720CC2.D
 Lab Smp Id: sstd50 Client Smp ID: sstd050
 Inj Date : 20-JUL-2000 13:55
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd50(25 ug/ml) 194-182-1 8270/clp
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 Comment :
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 Cal Date : 20-JUL-2000 13:55 Cal File: S0720CC2.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

7/24/00

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	4 680	4 680	(1.000)	81232	40 0000	
* 2 Naphthalene-d8	136	6 128	6 128	(1.000)	316158	40 0000	
* 3 Acenaphthene-d10	164	9 018	9 018	(1.000)	165182	40 0000	
* 4 Phenanthrene-d10	188	12.244	12 244	(1.000)	263166	40 0000	
* 5 Chrysene-d12	240	18 810	18 810	(1.000)	238604	40 0000	
* 6 Perylene-d12	264	22 143	22 143	(1.000)	309042	40 0000	
-3 N-Nitrosodimethylamine	74	1.560	1.560	(0.333)	98549	50 0000	53 415
10 Pyridine	79	1 566	1 566	(0.335)	153511	50 0000	47.165 (M)
19 Methyl methanesulfonate	80	3 200	3 200	(0.684)	62010	50 0000	38.865
22 Aniline	93	4 402	4 402	(0.941)	209932	50 0000	44 483
23 Phenol	94	4 445	4 445	(0.950)	200097	50.0000	50 155
24 bis(2-Chloroethyl) ether	93	4 466	4 466	(0.954)	166309	50 0000	51.663
25 2-Chlorophenol	128	4.520	4 520	(0.966)	146623	50 0000	51 941
27 1,3-Dichlorobenzene	146	4 643	4 643	(0.992)	160163	50 0000	51 509
28 1,4-Dichlorobenzene	146	4 696	4.696	(1.003)	165883	50 0000	52.820
29 1,2-Dichlorobenzene	146	4 888	4 888	(1.045)	151266	50 0000	52.857
30 Benzyl Alcohol	108	4 872	4 872	(1.041)	104415	50 0000	51.516 (M)
31 2-Methylphenol	108	5 038	5.038	(1.076)	140852	50 0000	53 866
32 2,2'-oxybis(1-Chloropropane)	45	5 022	5 022	(1.073)	270540	50 0000	62 907
33 N-Nitroso-di-n-propylamine	70	5 177	5 177	(1.106)	134414	50 0000	59.296
35 4-Methylphenol	108	5.193	5.193	(1.110)	148829	50 0000	53 820
38 Hexachloroethane	117	5 209	5 209	(1.113)	68807	50 0000	54 584
39 Nitrobenzene	77	5 326	5 326	(0.869)	208435	50 0000	58 038
44 Isophorone	82	5 588	5 588	(0.912)	317829	50 0000	56 624
45 2-Nitrophenol	139	5 695	5 695	(0.929)	78301	50 0000	50.367
46 2,4-Dimethylphenol	107	5 775	5 775	(0.942)	155023	50 0000	55 069

664 1119

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy methane	93	5.866	5.866	(0.957)	188852	50.0000	52.676
51 2,4-Dichlorophenol	162	5.994	5.994	(0.978)	111625	50.0000	52.206
52 Benzoic Acid	122	5.925	5.925	(0.967)	46499	50.0000	38.768
53 1,3,4-Trichlorobenzene	180	6.080	6.080	(0.992)	117131	50.0000	51.153
54 Naphthalene	128	6.154	6.154	(1.004)	440456	50.0000	53.283
55 4-Chloroaniline	127	6.272	6.272	(1.024)	165661	50.0000	51.302
59 Hexachlorobutadiene	225	6.395	6.395	(1.044)	65040	50.0000	53.602
62 4-Chloro-3-Methylphenol	107	6.998	6.998	(1.142)	132060	50.0000	55.080
65 2-Methylnaphthalene	142	7.137	7.137	(1.165)	279255	50.0000	53.058
66 1-Methylnaphthalene	142	7.303	7.303	(1.192)	250608	50.0000	51.493
67 Hexachlorocyclopentadiene	237	7.501	7.501	(0.832)	59751	50.0000	45.015
69 2,4,6-Trichlorophenol	196	7.666	7.666	(0.850)	71366	50.0000	50.506
70 2,4,5-Trichlorophenol	196	7.746	7.746	(0.859)	74938	50.0000	50.307
73 2-Chloronaphthalene	162	7.939	7.939	(0.880)	240692	50.0000	52.795
77 2-Nitroaniline	65	8.216	8.216	(0.911)	103250	50.0000	60.342
80 Dimethylphthalate	163	8.638	8.638	(0.958)	269047	50.0000	53.222
82 2,6-Dinitrotoluene	165	8.756	8.756	(0.971)	60078	50.0000	51.733
83 Acenaphthylene	152	8.713	8.713	(0.966)	387770	50.0000	51.533
85 3-Nitroaniline	138	9.023	9.023	(1.001)	69022	50.0000	49.825
86 Acenaphthene	153	9.082	9.082	(1.007)	243939	50.0000	51.998
87 2,4-Dinitrophenol	184	9.231	9.231	(1.024)	29537	50.0000	52.690
89 4-Nitrophenol	109	9.488	9.488	(1.052)	44182	50.0000	60.545
90 Dibenzoofuran	168	9.408	9.408	(1.043)	333685	50.0000	51.607
91 2,4-Dinitrotoluene	165	9.552	9.552	(1.059)	78048	50.0000	50.492
95 2,3,3',6'-Tetrachlorophenol	232	9.702	9.702	(1.076)	49331	50.0000	48.766
92 2,3,4,6-Tetrachlorophenol	232	9.798	9.798	(1.086)	49270	50.0000	48.908
96 2-Naphthylamine	143	9.755	9.755	(1.082)	196587	50.0000	48.441
97 Diethylphthalate	149	10.124	10.124	(1.123)	274748	50.0000	55.391
98 Fluorene	166	10.134	10.134	(1.124)	263824	50.0000	51.835
99 4-Chlorophenyl-phenylether	204	10.182	10.182	(1.129)	119100	50.0000	50.887
100 4-Nitroaniline	138	10.327	10.327	(1.145)	65038	50.0000	47.521
102 4,6-Dinitro-2-methylphenol	198	10.417	10.417	(0.851)	44781	50.0000	53.295
103 N-Nitrosodiphenylamine (1)	169	10.476	10.476	(0.856)	174524	50.0000	49.749
104 1,2-Diphenylhydrazine	77	10.524	10.524	(0.860)	389719	50.0000	60.768
112 4-Bromophenyl-phenylether	248	11.267	11.267	(0.920)	63467	50.0000	51.950
113 Hexachlorobenzene	284	11.550	11.550	(0.943)	65310	50.0000	51.293
117 Pentachlorophenol	266	12.015	12.015	(0.981)	33637	50.0000	50.048
122 Phenanthrene	178	12.298	12.298	(1.004)	347555	50.0000	52.386
123 Anthracene	178	12.399	12.399	(1.013)	355475	50.0000	52.180
126 Carbazole	167	12.864	12.864	(1.051)	323459	50.0000	50.743
130 Di-n-Butylphthalate	149	14.002	14.002	(1.144)	419270	50.0000	52.747
135 Fluoranthene	202	15.199	15.199	(1.241)	331699	50.0000	49.674
136 Benzidine	184	15.642	15.642	(0.832)	137958	50.0000	39.709
137 Pyrene	202	15.727	15.727	(0.836)	338557	50.0000	50.227
144 Butylbenzylphthalate	149	17.699	17.699	(0.941)	199853	50.0000	49.760
149 3,3'-Dichlorobenzidine	252	18.842	18.842	(1.002)	134028	50.0000	48.897
150 Benzo(a)Anthracene	228	18.767	18.767	(0.998)	337008	50.0000	49.717

664 1120

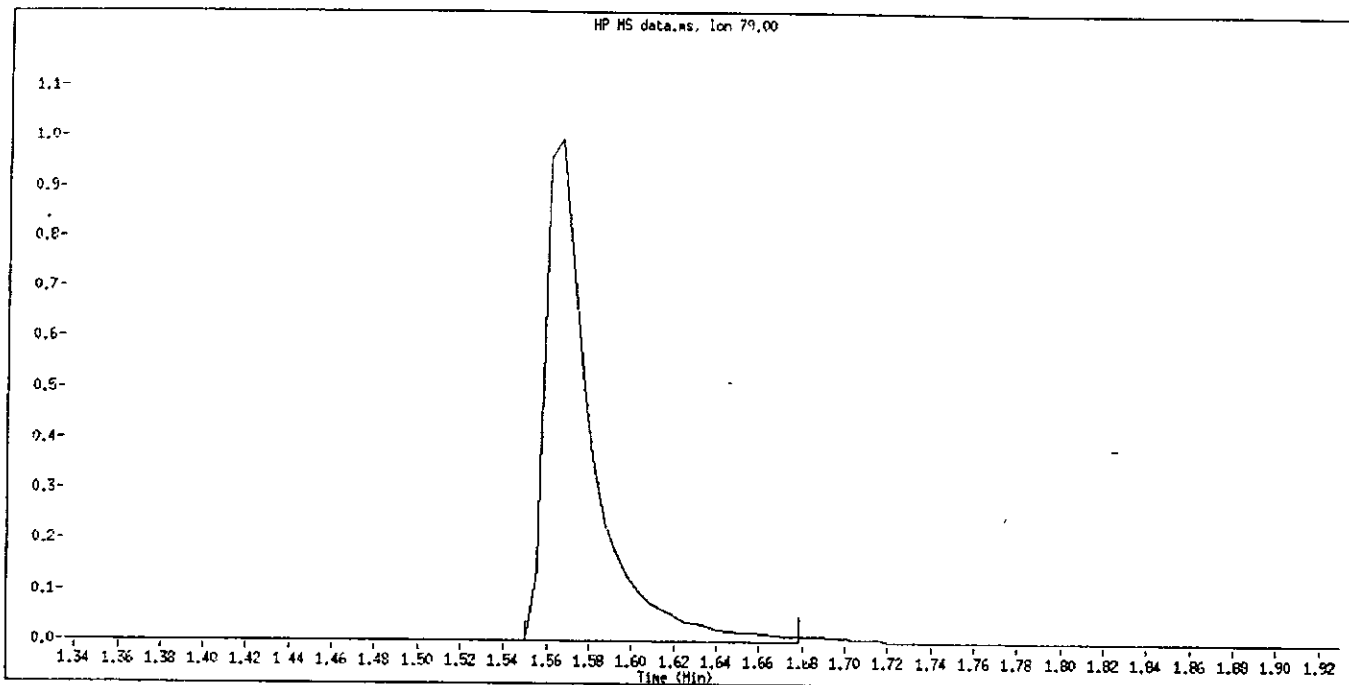
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	18.869	18.869	(1.003)	320718	50.0000	50.136
153 bis(2-ethylhexyl)Phthalate	149	19.280	19.280	(1.025)	305632	50.0000	46.417
155 Di-n-octylphthalate	149	20.738	20.738	(0.937)	631005	50.0000	50.232
157 Benzo(b)fluoranthene	252	21.331	21.331	(0.963)	418512	50.0000	50.093
158 Benzo(k)fluoranthene	252	21.390	21.390	(0.966)	445871	50.0000	57.624
159 7,12-dimethylbenz[a]anthracen	256	21.390	21.390	(0.966)	184650	50.0000	54.555
167 Benzo(a)pyrene	252	22.021	22.021	(0.994)	417666	50.0000	52.683
169 Indeno(1,2,3-cd)pyrene	276	24.280	24.280	(1.096)	511759	50.0000	45.885 (M)
170 Dibenz(a,h)anthracene	278	24.323	24.323	(1.098)	521588	50.0000	52.982
171 Benzo(g,h,i)perylene	276	24.798	24.798	(1.120)	520257	50.0000	51.850
\$ 172 Nitrobenzene-d5	82	5.305	5.305	(0.866)	186892	50.0000	56.650
\$ 173 2-Fluorobiphenyl	172	7.784	7.784	(0.863)	264202	50.0000	50.612
\$ 174 Terphenyl-d4	244	16.278	16.278	(0.865)	249365	50.0000	49.046
\$ 175 Phenol-d5	99	4.429	4.429	(0.945)	183285	50.0000	52.737
\$ 176 2-Fluorophenol	112	3.393	3.393	(0.725)	135392	50.0000	49.314
\$ 177 2,4,6-Tribromophenol	330	10.722	10.722	(0.876)	32650	50.0000	48.834
\$ 178 2-Chlorophenol-d4	132	4.504	4.504	(0.962)	128609	50.0000	50.959
\$ 179 1,2-Dichlorobenzene-d4	152	4.878	4.878	(1.042)	90597	50.0000	52.614

QC Flag Legend

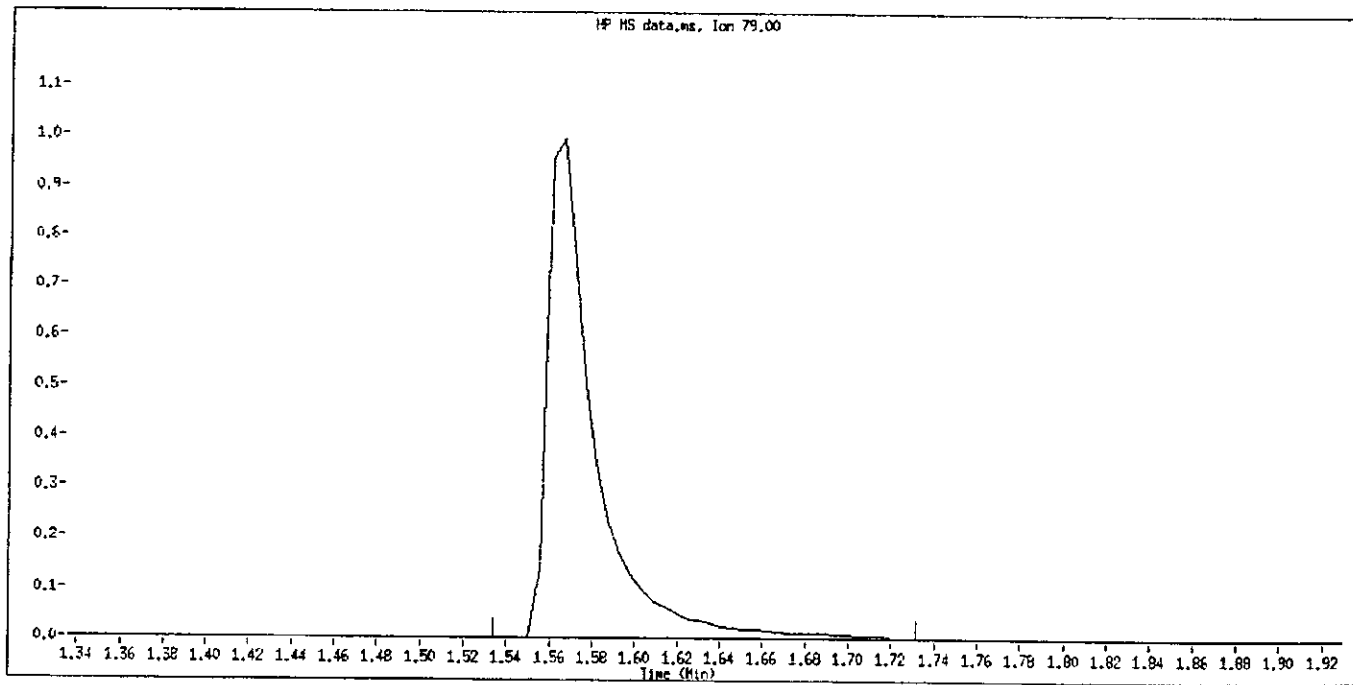
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Instrument ID 71
Client ID sstd050
Compound Name Pyridine
CAS # 110-86-1
Report Date 07/20/2000

664 1121



Original Integration

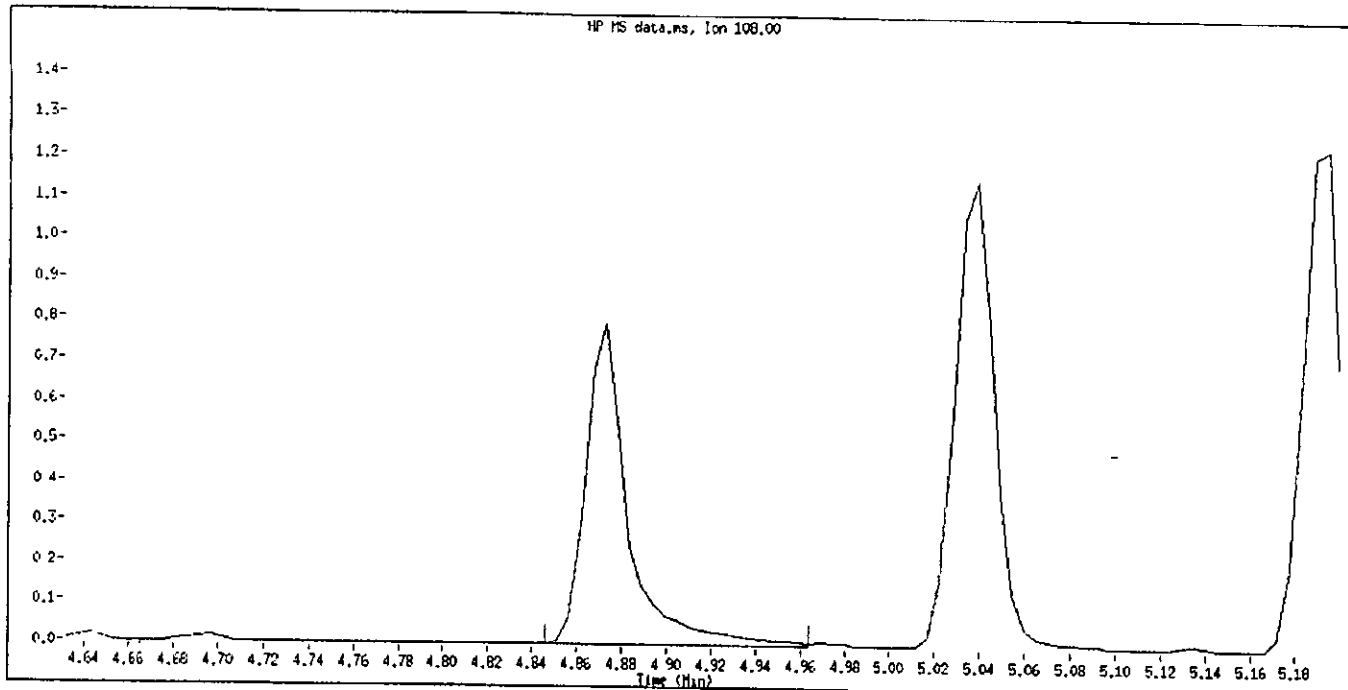


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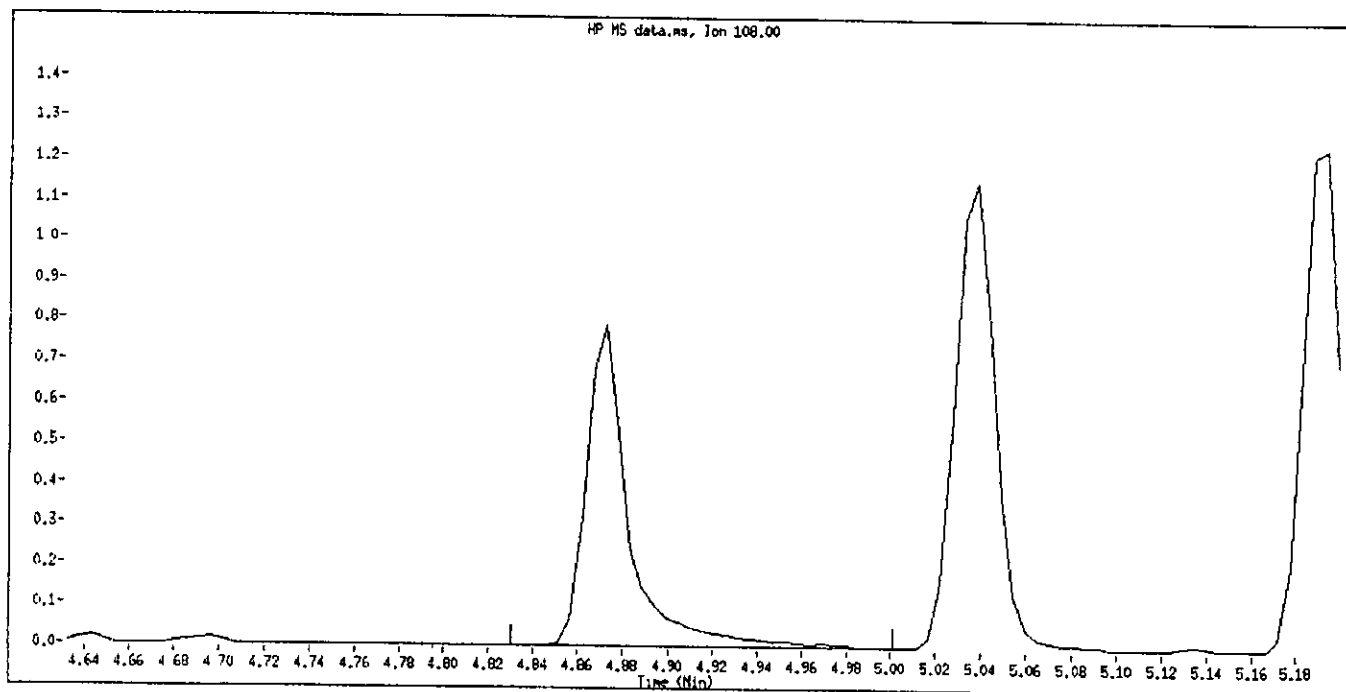
Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

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Inj Date and Time 20-JUL-2000 13:55
Instrument ID 71.1
Client ID sstd050
Compound Name Benzyl Alcohol
CAS # 100-51-6
Report Date 07/20/2000

664 1122



Original Integration

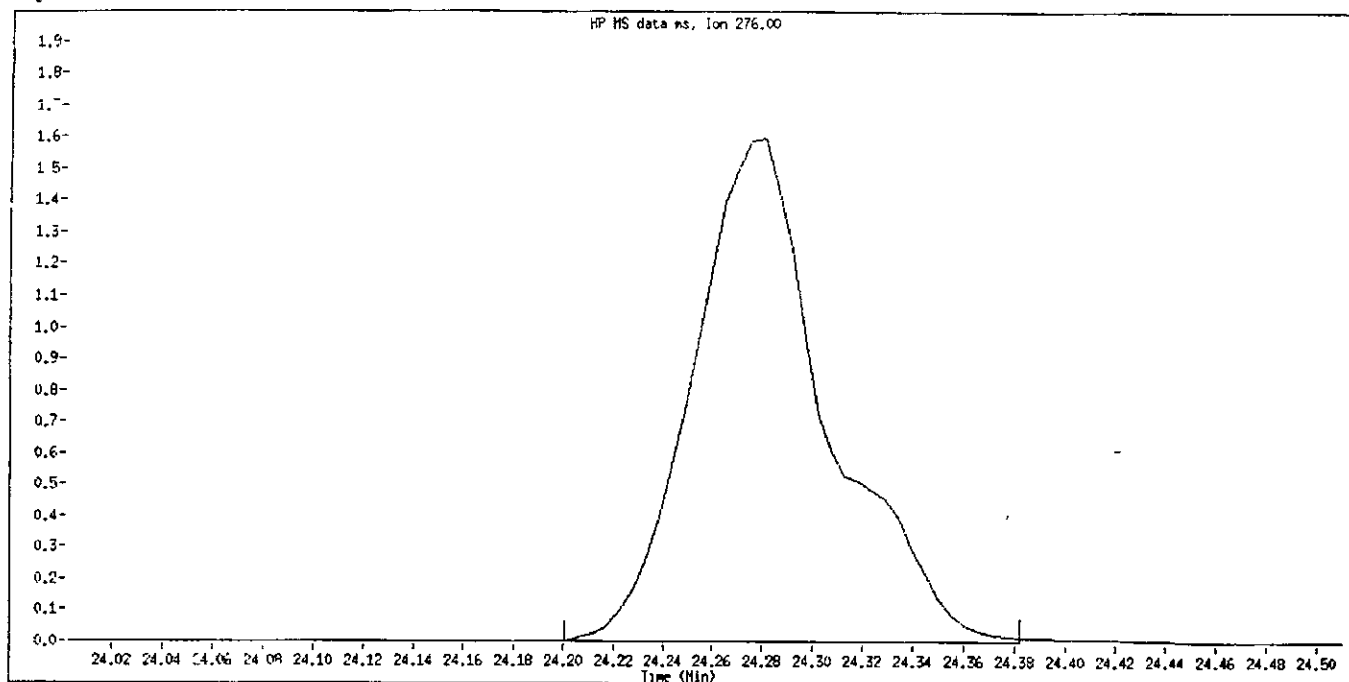


Manual Integration

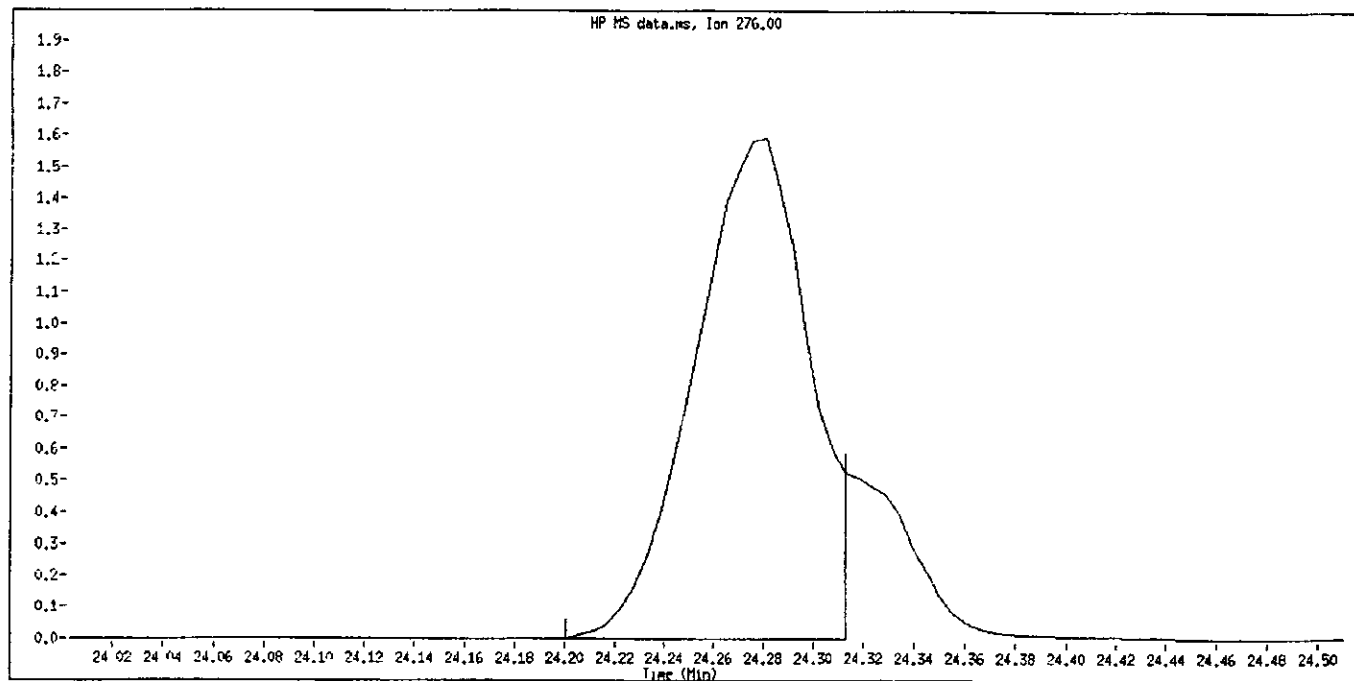
Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File Name S0720002.D
Inj Date and Time 27-JUL-2000 13:55
Instrument ID 711
Client ID: sstd050
Compound Name: Indeno 1,2,3-cd,pyrene
CAS #: 193-39-5
Report Date 07/20/2000

664 1123



Original Integration

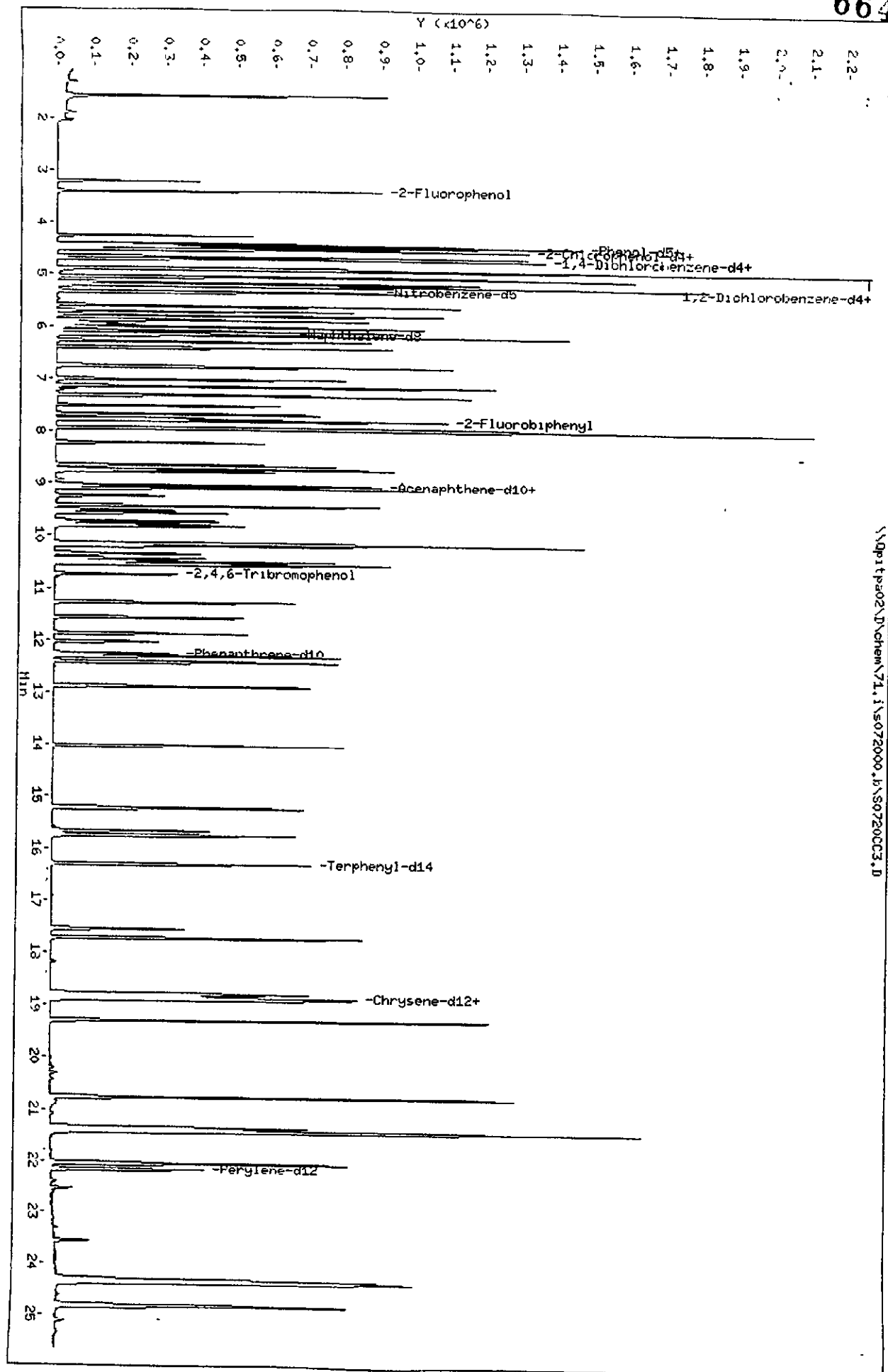


Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

Data File: \\Qp1tpa02\Nchem\71.1\5072000.B\507200C3.D
Date: 20-JUL-2000 14:58
Client ID: SSTD80
Sample Info: sst80(40 ug/ml) 194-175-12 8270/cip
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



664 1125

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072000.b\S0720CC3.D
 Lab Smp Id: sstd80 Client Smp ID: SSTD80
 Inj Date : 20-JUL-2000 14:58
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd80(40 ug/ml) 194-175-12 8270/clp
 Misc Info : sstd80,s072000.b,8270clp.m,1-82701.sub,1,3
 Comment :
 Method : \\Qpitpa02\D\chem\71.i\s072000.b\8270clp.m
 Meth Date : 20-Jul-2000 16:02 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 15:30 Cal File: S0720CC4.D
 Dil bottle: 4 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC050

7/20/00

Compound Sublist: 1-82701.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	4.688	4.688	(1.000)	92225	40.0000	
* 2 Naphthalene-d8	136	6.141	6.141	(1.000)	351867	40.0000	
* 3 Acenaphthene-d10	164	9.031	9.031	(1.000)	178711	40.0000	
* 4 Phenanthrene-d10	188	12.263	12.263	(1.000)	291019	40.0000	
* 5 Chrysene-d12	240	18.828	18.828	(1.000)	280811	40.0000	
* 6 Perylene-d12	264	22.162	22.162	(1.000)	365160	40.0000	
13 N-Nitrosodimethylamine	74	1.573	1.573	(0.336)	180129	80.0000	80.867
10 Pyridine	79	1.563	1.563	(0.333)	314891	80.0000	83.150 (M)
19 Methyl methanesulfonate	80	3.208	3.208	(0.684)	186732	80.0000	89.870
22 Aniline	93	4.410	4.410	(0.941)	441518	80.0000	82.463
23 Phenol	94	4.453	4.453	(0.950)	368223	80.0000	80.982
24 bis(2-Chloroethyl) ether	93	4.479	4.479	(0.956)	301328	80.0000	80.639
25 2-Chlorophenol	128	4.528	4.528	(0.966)	264294	80.0000	80.949
27 1,3-Dichlorobenzene	146	4.650	4.650	(0.992)	289847	80.0000	80.785
28 1,4-Dichlorobenzene	146	4.704	4.704	(1.003)	293100	80.0000	80.149
29 1,2-Dichlorobenzene	146	4.896	4.896	(1.044)	270884	80.0000	80.299
30 Benzyl Alcohol	108	4.880	4.880	(1.041)	187360	80.0000	78.871
31 2-Methylphenol	108	5.046	5.046	(1.076)	254584	80.0000	81.513
32 2,2'-oxybis(1-Chloropropane)	45	5.035	5.035	(1.074)	479274	80.0000	79.875
33 N-Nitroso-di-n-propylamine	70	5.190	5.190	(1.107)	243989	80.0000	81.116
35 4-Methylphenol	106	5.201	5.201	(1.109)	266037	80.0000	80.799
38 Hexachloroethane	117	5.222	5.222	(1.114)	125698	80.0000	80.866
39 Nitrobenzene	77	5.340	5.340	(0.870)	370913	80.0000	80.556
44 Isophorone	82	5.601	5.601	(0.912)	570272	80.0000	81.208
45 2-Nitrophenol	139	5.703	5.703	(0.929)	143672	80.0000	82.189
46 2,4-Dimethylphenol	107	5.788	5.788	(0.943)	284456	80.0000	82.898

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664 1126

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	5.879	5.879	(0.957)	337157	80.0000	80.629
51 2,4-Dichlorophenol	162	6.007	6.007	(0.978)	199477	80.0000	81.169
52 Benzoic Acid	122	5.965	5.965	(0.971)	112000	80.0000	101.06
53 1,2,4-Trichlorobenzene	180	6.093	6.093	(0.992)	208607	80.0000	80.526
54 Naphthalene	128	6.168	6.168	(1.004)	777669	80.0000	80.376
55 4-Chloroaniline	127	6.280	6.280	(1.023)	296166	80.0000	80.994
59 Hexachlorobutadiene	225	6.408	6.408	(1.043)	116105	80.0000	81.051
62 4-Chloro-3-Methylphenol	107	7.012	7.012	(1.142)	237149	80.0000	81.201
65 2-Methylnaphthalene	142	7.145	7.145	(1.164)	492966	80.0000	80.437
66 1-Methylnaphthalene	142	7.316	7.316	(1.191)	453289	80.0000	80.066
67 Hexachlorocyclopentadiene	237	7.514	7.514	(0.832)	115601	80.0000	87.153
69 2,4,6-Trichlorophenol	196	7.679	7.679	(0.850)	124329	80.0000	81.517
70 2,4,5-Trichlorophenol	196	7.765	7.765	(0.860)	131758	80.0000	81.250
73 2-Chloronaphthalene	162	7.952	7.952	(0.881)	421378	80.0000	80.951
77 2-Nitroaniline	65	8.230	8.230	(0.911)	184227	80.0000	82.119
80 Dimethylphthalate	163	8.652	8.652	(0.958)	462552	80.0000	80.156
82 2,6-Dinitrotoluene	165	8.775	8.775	(0.972)	103751	80.0000	80.869
83 Acenaphthylene	152	8.726	8.726	(0.966)	680258	80.0000	81.004
85 3-Nitroaniline	138	9.042	9.042	(1.001)	121473	80.0000	81.164
86 Acenaphthene	153	9.095	9.095	(1.007)	425477	80.0000	80.944
87 2,4-Dinitrophenol	184	9.250	9.250	(1.024)	61416	80.0000	89.761
89 4-Nitrophenol	109	9.506	9.506	(1.053)	80830	80.0000	82.513
90 Dibenzofuran	168	9.426	9.426	(1.044)	576377	80.0000	80.667
91 2,4-Dinitrotoluene	165	9.571	9.571	(1.060)	134616	80.0000	80.252
95 2,3,5,6-Tetrachlorophenol	232	9.720	9.720	(1.076)	88369	80.0000	81.755
92 2,3,4,6-Tetrachlorophenol	232	9.811	9.811	(1.086)	89443	80.0000	81.360
96 2-Naphthylamine	143	9.774	9.774	(1.082)	259970	80.0000	69.509
97 Diethylphthalate	149	10.142	10.142	(1.123)	467823	80.0000	79.628
98 Fluorene	166	10.153	10.153	(1.124)	455712	80.0000	80.435
99 4-Chlorophenyl-phenylether	204	10.201	10.201	(1.130)	206262	80.0000	80.737
100 4-Nitroaniline	138	10.350	10.350	(1.146)	116426	80.0000	80.770
102 4,6-Dinitro-2-methylphenol	198	10.447	10.447	(0.852)	65682	80.0000	84.809
103 N-Nitrosodiphenylamine (1)	169	10.495	10.495	(0.856)	322279	80.0000	81.145
104 1,2-Diphenylhydrazine	77	10.543	10.543	(0.860)	679185	80.0000	81.326
112 4-Bromophenyl-phenylether	248	11.280	11.280	(0.920)	108006	80.0000	80.508
113 Hexachlorobenzene	284	11.568	11.568	(0.943)	111536	80.0000	80.828
117 Pentachlorophenol	266	12.033	12.033	(0.981)	58733	80.0000	84.921
122 Phenanthrene	178	12.316	12.316	(1.004)	592824	80.0000	80.432
123 Anthracene	178	12.423	12.423	(1.013)	610912	80.0000	80.439
126 Carbazole	167	12.883	12.883	(1.051)	563076	80.0000	80.582
130 Di-n-Butylphthalate	149	14.021	14.021	(1.143)	741839	80.0000	81.550
135 Fluoranthene	202	15.217	15.217	(1.241)	592124	80.0000	80.818
136 Benzidine	184	15.666	15.666	(0.832)	347805	80.0000	86.068
137 Pyrene	202	15.751	15.751	(0.837)	607115	80.0000	79.631
144 Butylbenzylphthalate	149	17.723	17.723	(0.941)	372140	80.0000	80.953
149 3,3'-Dichlorobenzidine	252	18.866	18.866	(1.002)	264954	80.0000	81.104
150 Benzo(a)Anthracene	228	18.786	18.786	(0.998)	635097	80.0000	80.970

664 1127

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	18.893	18.893	(1.003)	594734	80.0000	80.538
153 bis(2-ethylhexyl)Phthalate	149	19.299	19.299	(1.025)	551098	80.0000	79.322
155 Di-n-octylphthalate	149	20.762	20.762	(0.937)	1118064	80.0000	78.728
157 Benzo(b)fluoranthene	252	21.361	21.361	(0.964)	836130	80.0000	82.499
158 Benzo(k)fluoranthene	252	21.430	21.430	(0.967)	812757	80.0000	81.467
159 7,12-dimethylbenz[a]anthracen	256	21.425	21.425	(0.967)	357048	80.0000	81.844
167 Benzo(a)pyrene	252	22.050	22.050	(0.995)	788090	80.0000	80.888
169 Indeno(1,2,3-cd)pyrene	276	24.315	24.315	(1.097)	1010172	80.0000	73.279 (M)
170 Fluoranthene	278	24.363	24.363	(1.099)	992909	80.0000	80.734
171 Benzo(g,h,i)perylene	276	24.844	24.844	(1.121)	988874	80.0000	80.130
\$ 172 Nitrobenzene-d5	82	5.318	5.318	(0.866)	346102	80.0000	82.178
\$ 173 2-Fluorobiphenyl	172	7.797	7.797	(0.863)	477017	80.0000	81.967
\$ 174 Terphenyl-d14	244	16.302	16.302	(0.866)	465391	80.0000	81.508
\$ 175 Phenol-d5	99	4.442	4.442	(0.948)	336046	80.0000	80.045
\$ 176 2-Fluorophenol	112	3.400	3.400	(0.725)	252230	80.0000	80.798
\$ 177 2,4,6-Tribromophenol	330	10.735	10.735	(0.875)	57240	80.0000	80.929
\$ 178 2-Chlorophenol-d4	132	4.512	4.512	(0.962)	235487	80.0000	80.301
\$ 179 1,2-Dichlorobenzene-d4	152	4.885	4.885	(1.042)	164330	80.0000	81.003

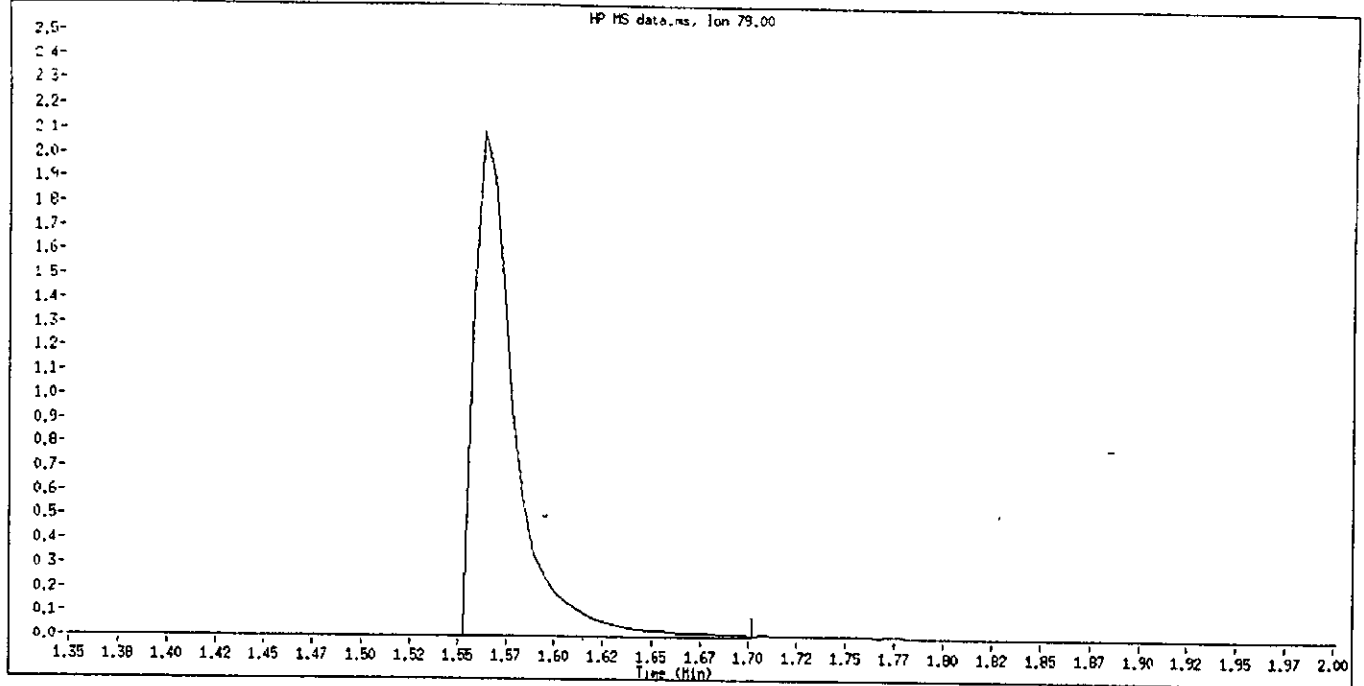
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QC Flag Legend

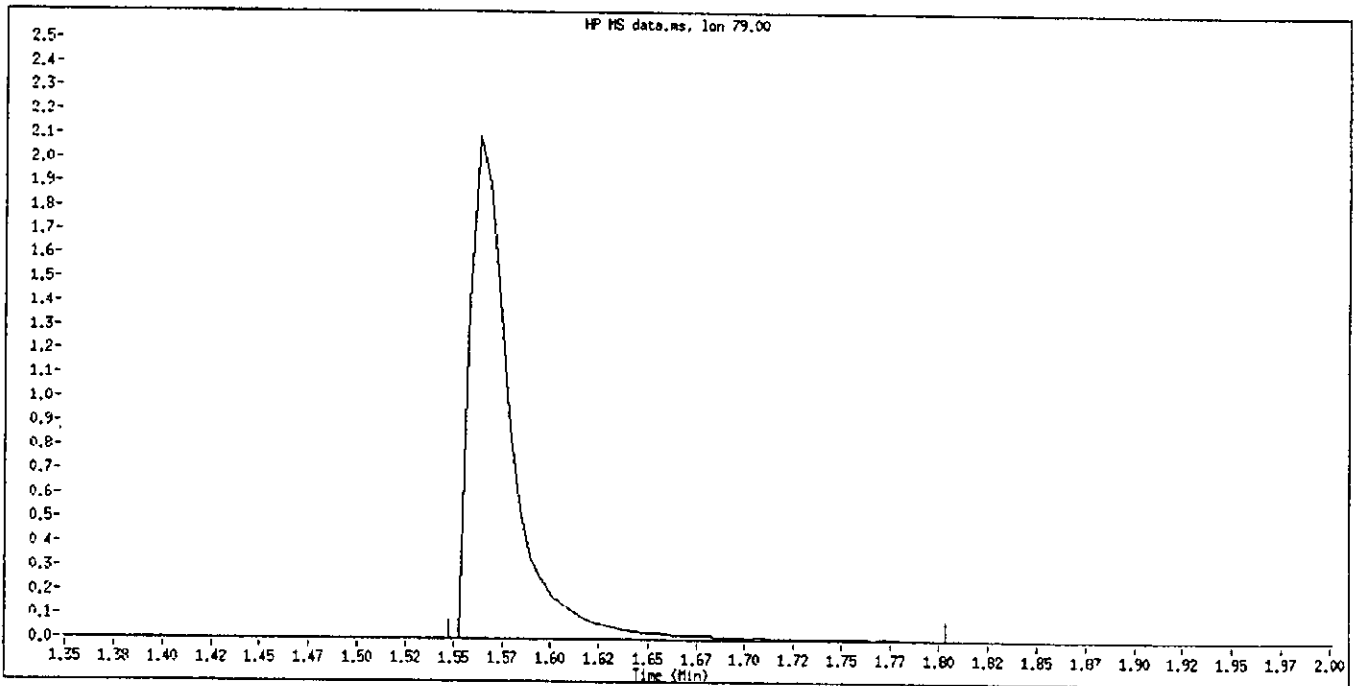
M - Compound response manually integrated.

Data File Name S0720CC3.D
Inj Date and Time 20-JUL-2000 14:56
Instrument ID 71.1
Client ID SSTD80
Compound Name Pyridine
CAS # 110-86-1
Report Date 07/20/2000

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Original Integration

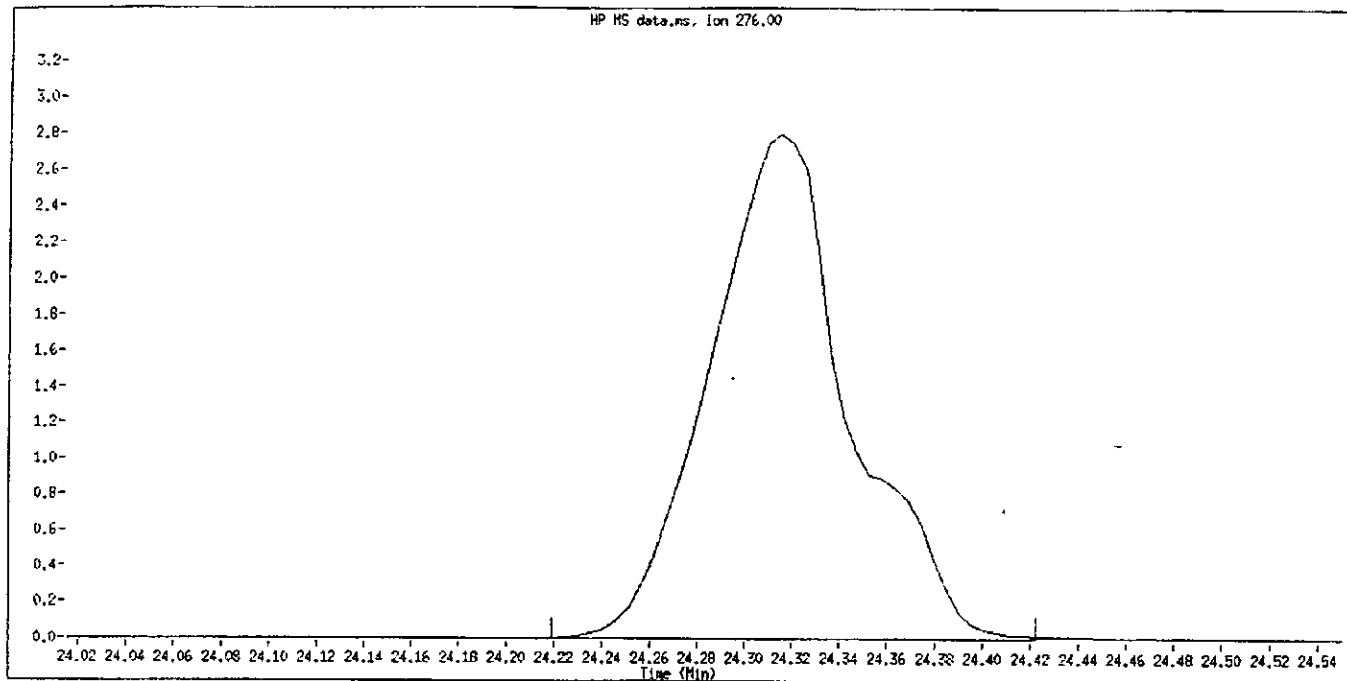


Manual Integration

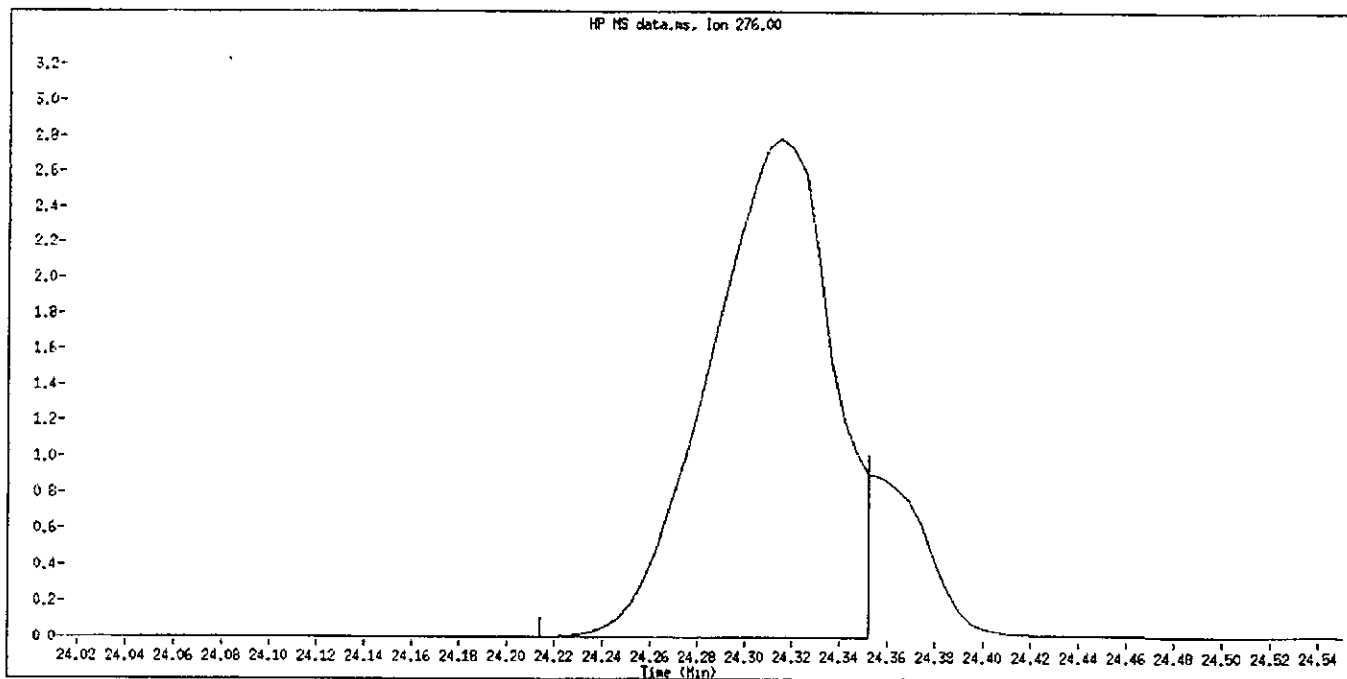
Manually Integrated By Bachas, *VUP* 7/20/00
Manual Integration Reason Poor Chromatography

Data File Name S0720CC3.D
Inj Date and Time 20-JUL-2000 14:58
Instrument ID 71.1
Client ID SSTD80
Compound Name Indeno(1,2,3-cd)pyrene
CAS # 193-39-5
Report Date 07/20/2000

664 1129



Original Integration



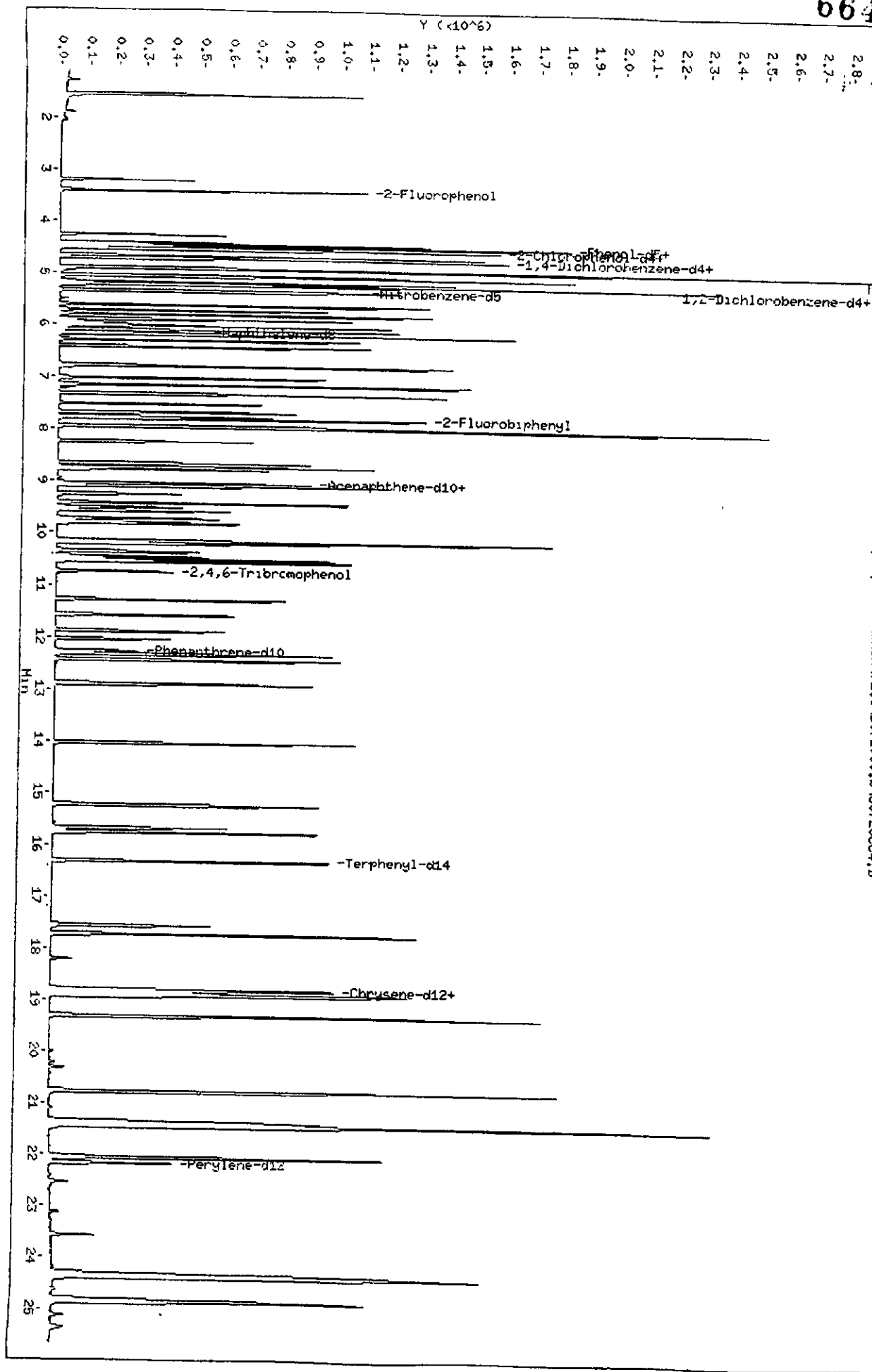
Manual Integration

Manually Integrated By Bacnas /VUP 7/20/00
Manual Integration Reason Poor Chromatography

Data File: \\Qp1tpa02\chem\71.1\5072000.b\50720004.D
Date: 20-JUL-2000 15:30
Client ID: SST0120
Sample Info: sst0120(60 ug/ml) 194-175-13 8270/c1p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

\\Qp1tpa02\chem\71.1\5072000.b\50720004.D



664 1131

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Opitpa02\D\chem\71.i\s072000.b\S0720CC4.D
 Lab Smp Id: sstd120 Client Smp ID: SSTD120
 Inj Date : 20-JUL-2000 15:30
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd120(60 ug/ml) 194-175-13 8270/clp
 Misc Info : sstd120,s072000.b,8270clp.m,1-82701.sub,1,4
 Comment :
 Method : \\Opitpa02\D\chem\71.i\s072000.b\8270clp.m
 Meth Date : 20-Jul-2000 16:10 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 15:30 Cal File: S0720CC4.D
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

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Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-CGL (ng)
* 1 1,4-Dichlorobenzene-d4	152	4.694	4.694	(1.000)	78155	40.0000	
* 2 Napthalene-d8	136	6.141	6.141	(1.000)	288882	40.0000	
* 3 Acenaphthene-d10	164	9.037	9.037	(1.000)	143653	40.0000	
* 4 Phenanthrene-d10	188	12.263	12.263	(1.000)	240497	40.0000	
* 5 Chrysene-d12	240	18.840	18.840	(1.000)	283448	40.0000	
* 6 Perylene-d12	264	22.178	22.178	(1.000)	373615	40.0000	
13 N-Nitrosodimethylamine	74	1.568	1.568	(0.334)	223981	120.000	118.59 (M)
10 Pyridine	79	1.558	1.558	(0.332)	389895	120.000	121.66 (M)
19 Methyl methanesulfonate	80	3.214	3.214	(0.685)	223084	120.000	126.68
22 Aniline	93	4.410	4.410	(0.940)	529058	120.000	116.59
23 Phenol	94	4.459	4.459	(0.950)	443670	120.000	115.13
24 bis(2-Chloroethyl)etner	93	4.485	4.485	(0.956)	372501	120.000	117.62
25 2-Chlorophenol	128	4.528	4.528	(0.965)	316810	120.000	114.49
27 1,3-Dichlorobenzene	146	4.651	4.651	(0.991)	350555	120.000	115.28
28 1,4-Dichlorobenzene	146	4.710	4.710	(1.003)	355581	120.000	114.72
29 1,2-Dichlorobenzene	146	4.902	4.902	(1.044)	328057	120.000	114.74
30 Benzyl Alcohol	108	4.886	4.886	(1.041)	236641	120.000	117.54
31 2-Methylphenol	108	5.052	5.052	(1.076)	299247	120.000	113.05
32 2,2'-oxybis(1-Chloropropane)	45	5.036	5.036	(1.073)	583578	120.000	114.75
33 N-Nitroso-di-n-propylamine	70	5.196	5.196	(1.107)	293163	120.000	115.00
35 4-Methylphenol	106	5.206	5.206	(1.109)	318083	120.000	113.98
38 Hexachloroethane	117	5.222	5.222	(1.113)	154839	120.000	117.53
39 Nitrobenzene	77	5.345	5.345	(0.870)	450103	120.000	119.07
44 Isophorone	82	5.607	5.607	(0.913)	674192	120.000	116.94
45 2-Nitrophenol	139	5.709	5.709	(0.930)	171061	120.000	119.19
46 2,4-Dimethylphenol	107	5.789	5.789	(0.943)	340767	120.000	120.96

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	5.885	5.885	(0.958)	403853	120.000	117.64
51 2,4-Dichlorophenol	162	6.013	6.013	(0.979)	236072	120.000	117.00
52 Benzoic Acid	122	5.986	5.986	(0.975)	151498	120.000	166.50(A)
53 1,2,4-Trichlorobenzene	180	6.093	6.093	(0.992)	250475	120.000	117.77
54 Naphthalene	128	6.173	6.173	(1.005)	924730	120.000	116.41
55 4-Chloroaniline	127	6.286	6.286	(1.023)	347141	120.000	115.63
59 Hexachlorobutadiene	225	6.414	6.414	(1.044)	138577	120.000	117.83
62 4-Chloro-3-Methylphenol	107	7.017	7.017	(1.143)	280267	120.000	116.89
65 2-Methylnaphthalene	142	7.151	7.151	(1.164)	583542	120.000	115.98
66 1-Methylnaphthalene	142	7.322	7.322	(1.192)	543535	120.000	116.94
67 Hexachlorocyclopentadiene	237	7.520	7.520	(0.832)	139756	120.000	131.08
69 2,4,6-Trichlorophenol	196	7.685	7.685	(0.850)	146317	120.000	119.35
70 2,4,5-Trichlorophenol	196	7.765	7.765	(0.859)	155888	120.000	119.59
73 2-Chloronaphthalene	162	7.958	7.958	(0.881)	494009	120.000	118.06
77 2-Nitroaniline	65	8.235	8.235	(0.911)	220789	120.000	122.44
80 Dimethylphthalate	163	8.657	8.657	(0.958)	554842	120.000	119.61
82 2,6-Dinitrotoluene	165	8.780	8.780	(0.972)	125627	120.000	121.82
83 Acenaphthylene	152	8.732	8.732	(0.966)	800612	120.000	118.60
85 3-Nitroaniline	138	9.047	9.047	(1.001)	150308	120.000	124.94
86 Acenaphthene	153	9.101	9.101	(1.007)	498220	120.000	117.91
87 2,4-Dinitrophenol	184	9.256	9.256	(1.024)	83358	120.000	151.56
89 4-Nitrophenol	109	9.512	9.512	(1.053)	108179	120.000	137.38
90 Dibenzofuran	168	9.432	9.432	(1.044)	680952	120.000	118.56
91 2,4-Dinitrotoluene	165	9.576	9.576	(1.060)	168417	120.000	124.90
95 2,3,5,6-Tetrachlorophenol	232	9.726	9.726	(1.076)	108961	120.000	125.41
92 2,3,4,6-Tetrachlorophenol	232	9.822	9.822	(1.087)	111299	120.000	125.95
96 2-Naphthylamine	143	9.779	9.779	(1.082)	287932	120.000	95.773
97 Diethylphthalate	149	10.148	10.148	(1.123)	572382	120.000	121.20
98 Fluorene	166	10.159	10.159	(1.124)	535034	120.000	117.48
99 4-Chlorophenyl-phenylether	204	10.207	10.207	(1.129)	241831	120.000	117.76
100 4-Nitroaniline	138	10.367	10.367	(1.147)	155031	120.000	133.80
102 4,6-Dinitro-2-methylphenol	198	10.452	10.452	(0.852)	116033	120.000	134.20
103 N-Nitrosodiphenylamine (1)	169	10.506	10.506	(0.857)	398512	120.000	117.25
104 1,2-Diphenylhydrazine	77	10.549	10.549	(0.860)	818960	120.000	114.58
112 4-Bromophenyl-phenylether	248	11.286	11.286	(0.920)	131159	120.000	114.24
113 Hexachlorobenzene	284	11.574	11.574	(0.944)	135874	120.000	115.06
117 Pentachlorophenol	266	12.039	12.039	(0.982)	78318	120.000	132.32
122 Phenanthrene	178	12.328	12.328	(1.005)	742388	120.000	117.70
123 Anthracene	178	12.429	12.429	(1.014)	774377	120.000	119.14
126 Carbazole	167	12.894	12.894	(1.051)	750094	120.000	125.43
130 Di-n-Butylphthalate	149	14.026	14.026	(1.144)	987623	120.000	126.86
135 Fluorantene	202	15.228	15.228	(1.242)	823113	120.000	131.27
136 Benzidine	184	15.672	15.672	(0.832)	489509	120.000	120.01
137 Pyrene	202	15.763	15.763	(0.837)	849908	120.000	110.44
144 Butylbenzylphthalate	149	17.728	17.728	(0.941)	552856	120.000	119.15
149 3,3'-Dichlorobenzidine	252	18.877	18.877	(1.002)	403356	120.000	122.32
150 Benzo(a)Anthracene	228	18.802	18.802	(0.998)	941721	120.000	118.94

664 1133

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	18.909	18.909	(1.004)	874771	120.000	117.36
153 bis(7-ethylnonyl)Phthalate	149	19.304	19.304	(1.025)	813227	120.000	115.96
155 Di-n-octylphthalate	149	20.773	20.773	(0.937)	1629779	120.000	112.16
157 Benzo(b)fluoranthene	252	21.382	21.382	(0.964)	1302442	120.000	125.50
158 Benzo(k)fluoranthene	252	21.452	21.452	(0.967)	1057797	120.000	103.63
159 7,12-dimethylbenz(a)anthracene	256	21.447	21.447	(0.967)	540367	120.000	121.06
167 Benzo(a)pyrene	252	22.072	22.072	(0.995)	1169568	120.000	117.22
169 Indeno(1,2,3-cd)pyrene	276	24.337	24.337	(1.097)	1502714	120.000	106.95 (M)
170 Dibenz(a,h)anthracene	278	24.390	24.390	(1.100)	1492099	120.000	119.70
171 Benzo(g,h,i)perylene	276	24.871	24.871	(1.121)	1524623	120.000	120.75
\$ 172 Nitrobenzene-d5	82	5.324	5.324	(0.867)	418541	120.000	121.04
\$ 173 2-Fluorobiphenyl	172	7.803	7.803	(0.863)	562160	120.000	120.17
\$ 174 Terphenyl-d14	244	16.313	16.313	(0.866)	648789	120.000	112.57
\$ 175 Phenol-d5	99	4.443	4.443	(0.947)	412068	120.000	115.81
\$ 176 2-Fluorophenol	112	3.401	3.401	(0.725)	324101	120.000	118.72
\$ 177 2,4,6-Tribromophenol	330	10.746	10.746	(0.876)	72606	120.000	119.95
\$ 178 2-Chlorophenol-d4	132	4.512	4.512	(0.961)	298691	120.000	116.15
\$ 179 1,2-Dichlorobenzene-d4	152	4.886	4.886	(1.041)	198751	120.000	115.59

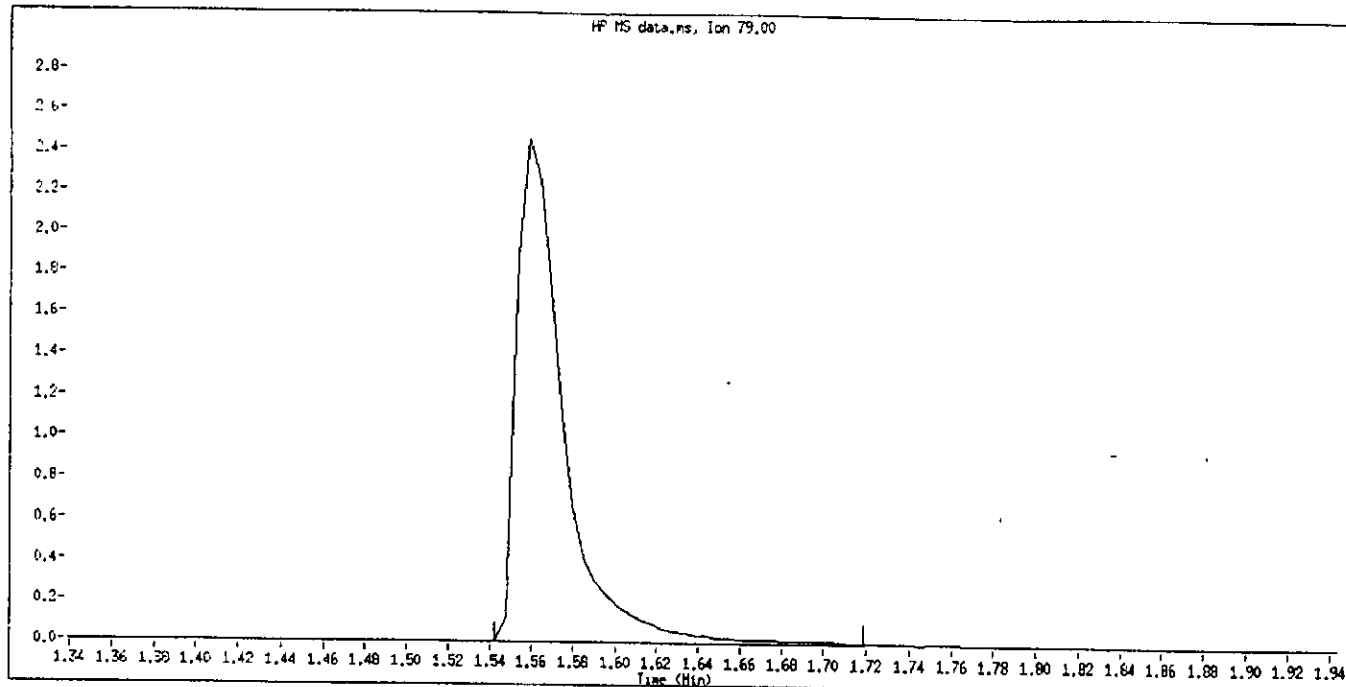
Handwritten: 7/20/00

QC Flag Legend

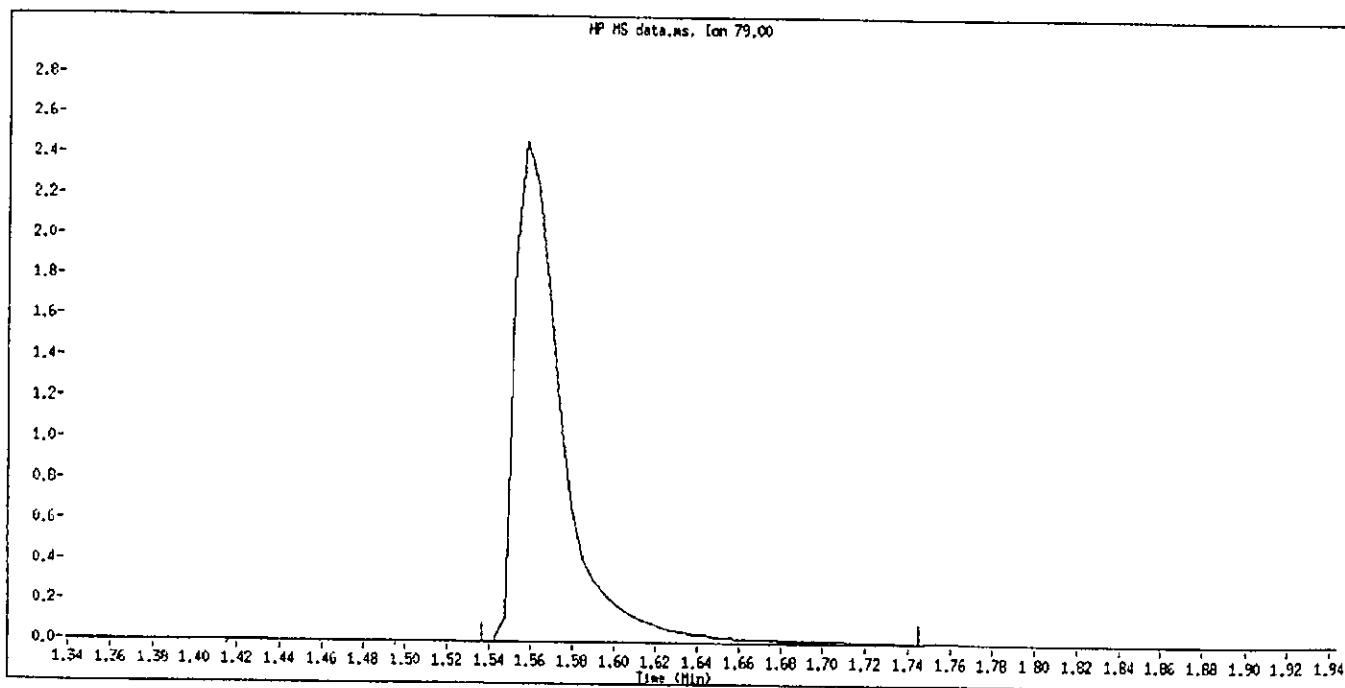
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name SC720CC4.D
Inj Date and Time 20-JUL-2000 15:30
Instrument ID 71.1
Client ID SSTDI20
Compound Name Pyridine
CAS # 110-86-1
Report Date 07/20/2000

664 1134



Original Integration

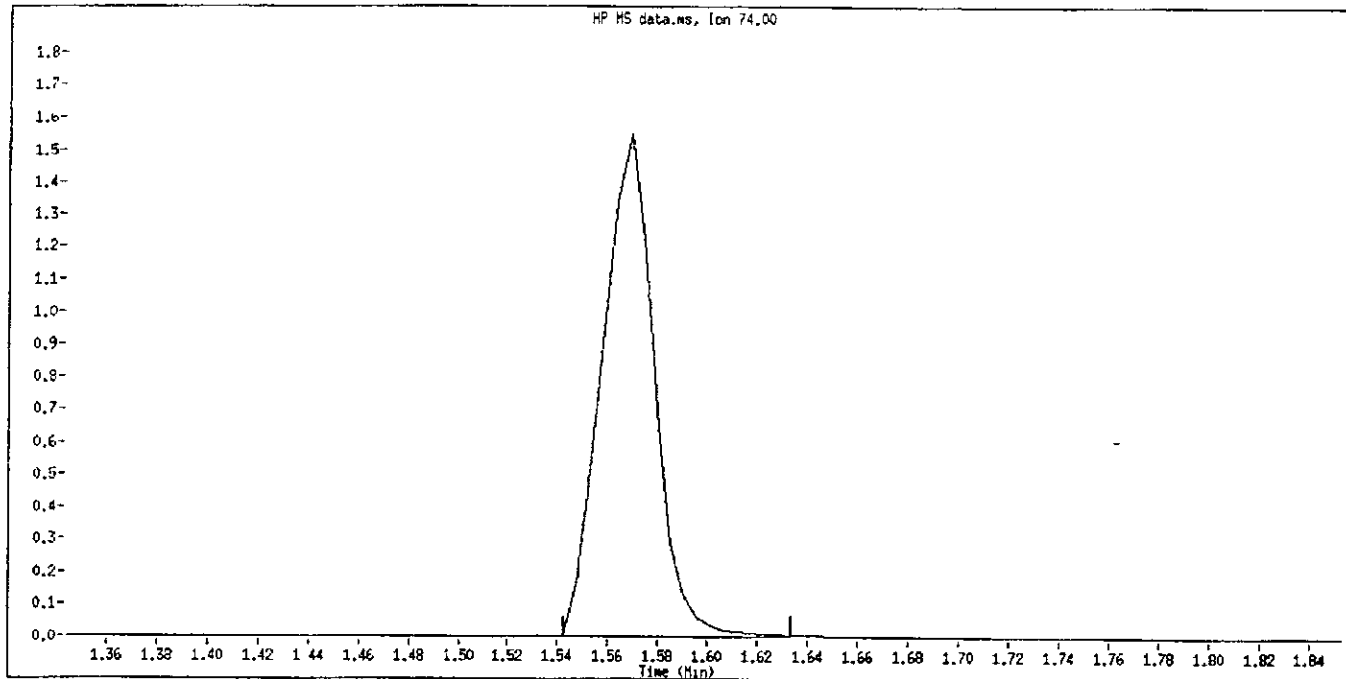


Manual Integration

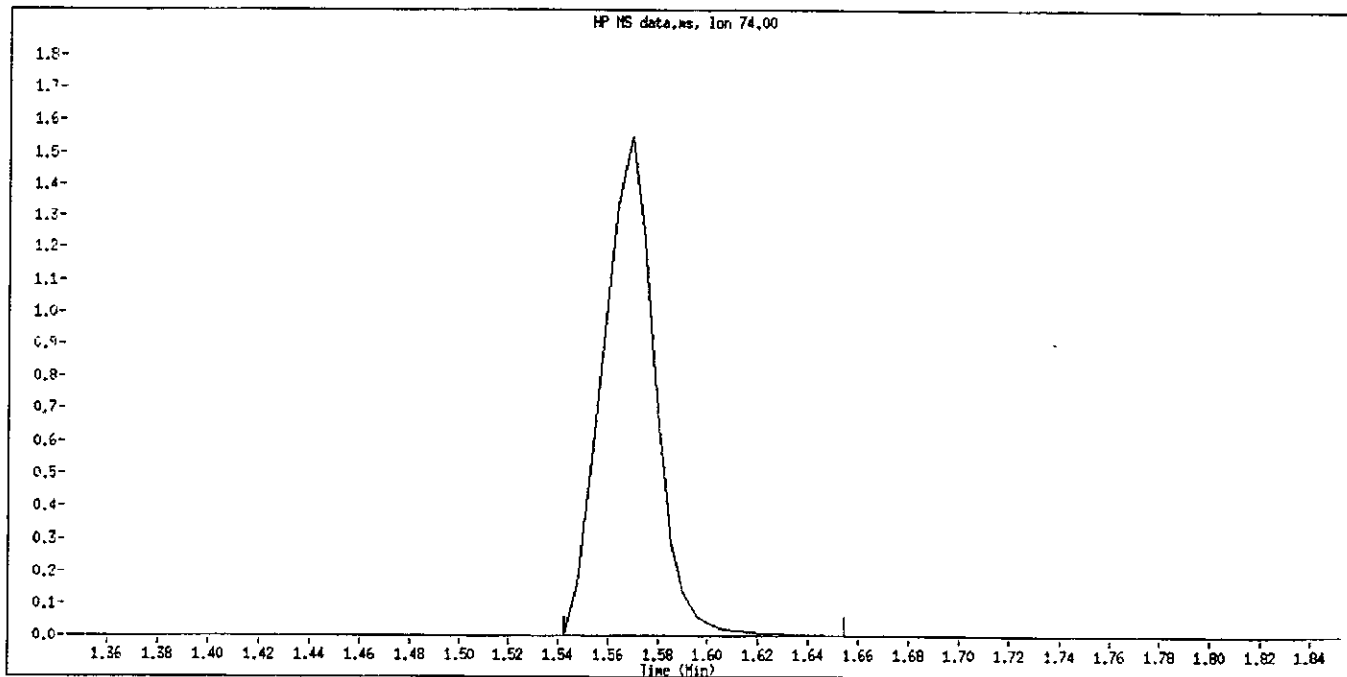
Manually Integrated By Bachas/wf 7/20/00
Manual Integration Reason: Poor Chromatography

Data File Name SG720CC4.D
Inj Date and Time 20-JUL-2000 15:30
Instrument ID 713
Client ID SSTDL20
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 07/20/2000

664 1135



Original Integration

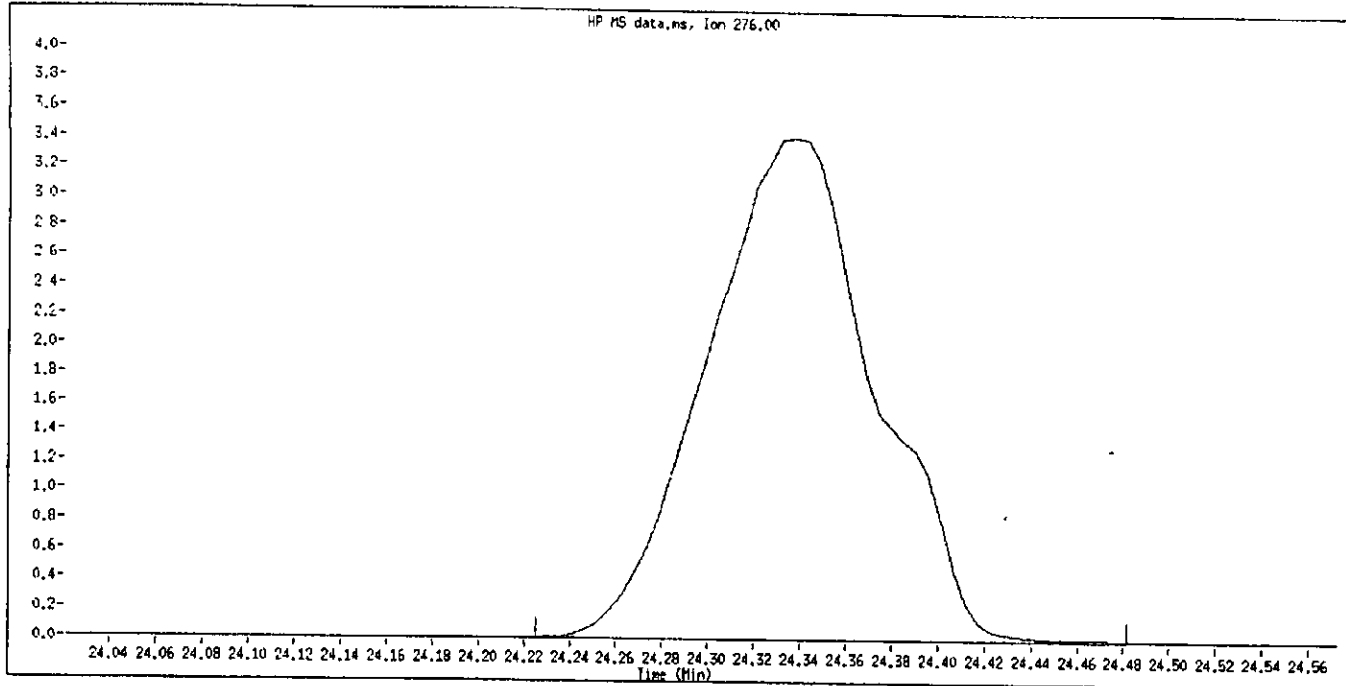


Manual Integration

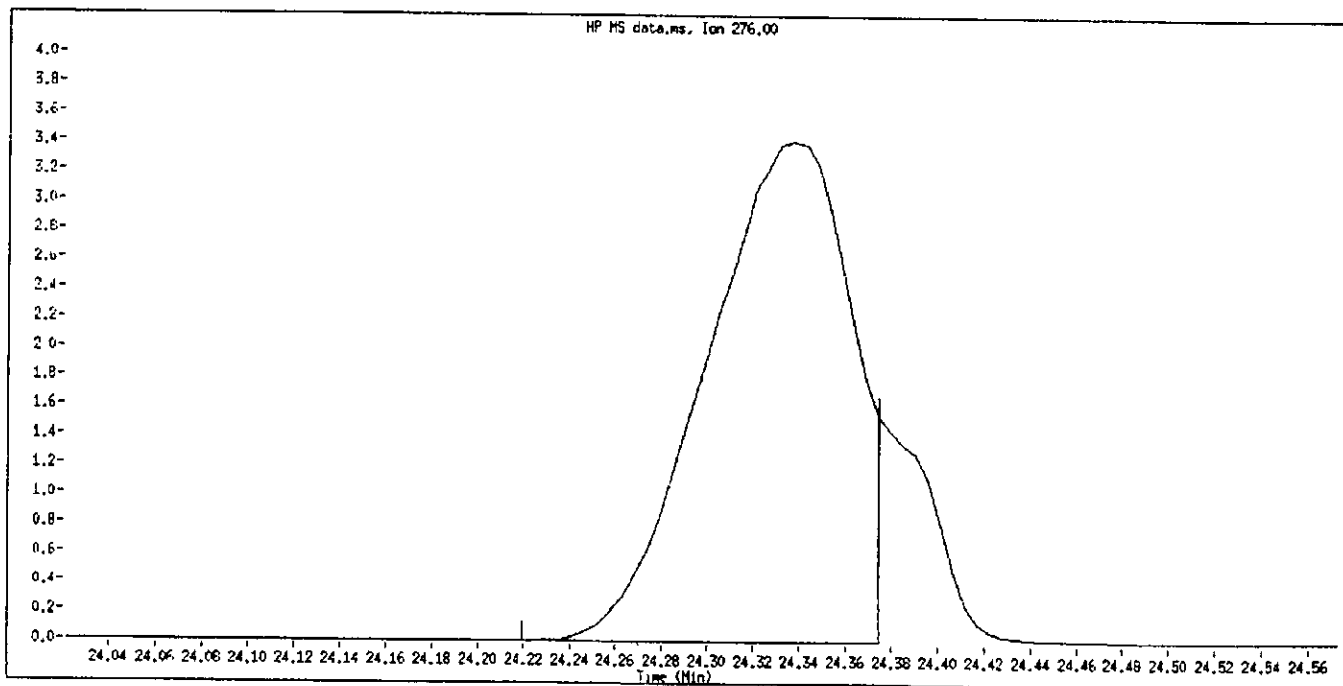
Manually Integrated By Sacnas/WP 7/20/00
Manual Integration Reason Poor Chromatography

Data File Name S0720CC4.D
Inj Date and Time 20-JUL-2000 15:30
Instrument ID 71.1
Client ID SSTD120
Compound Name Indeno(1,2,3-cd)pyrene
CAS # 193-39-5
Report Date 07/20/2000

664 1136



Original Integration



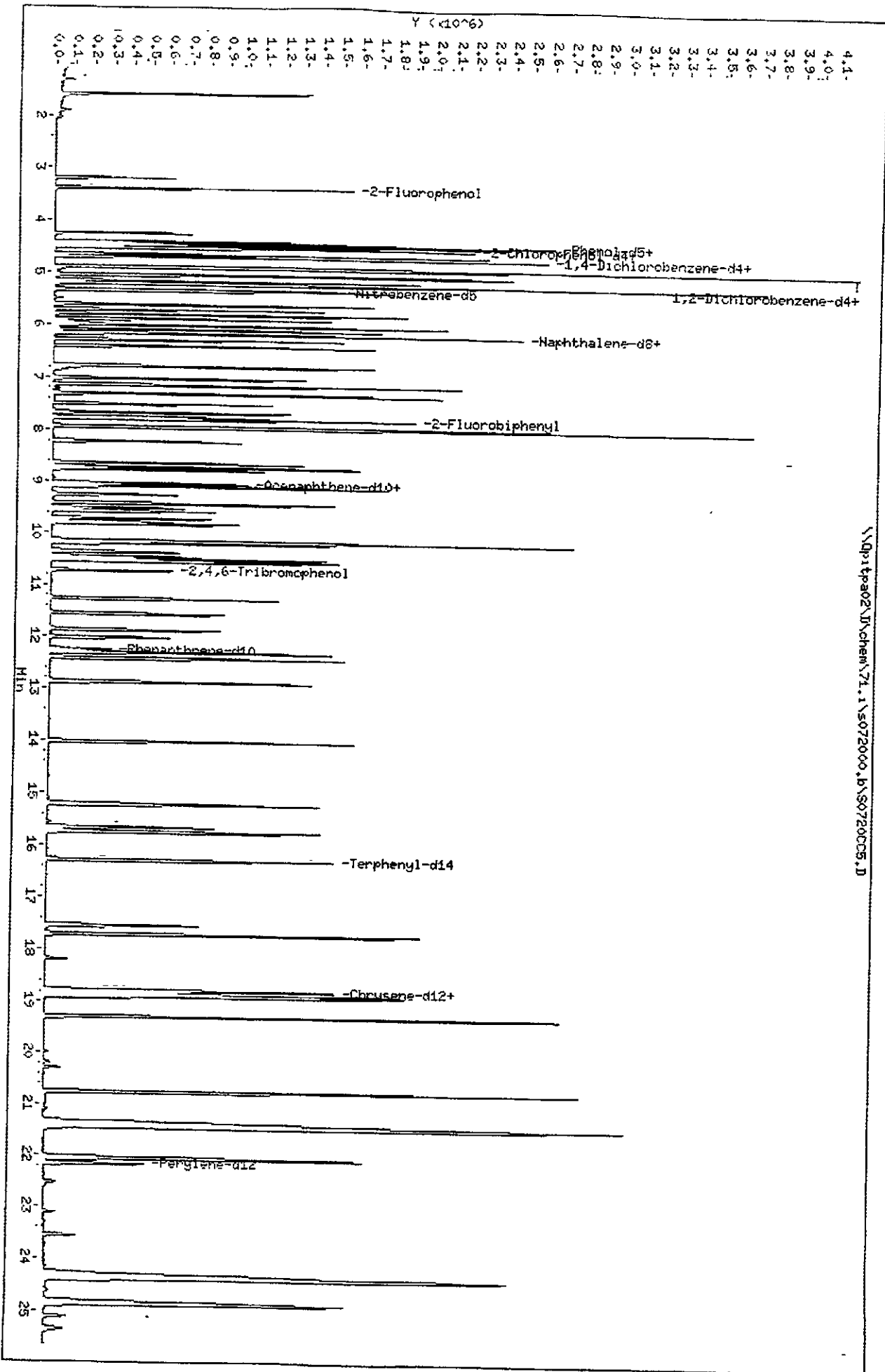
Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File: \\Qp1tpa02\J\chem\71.1\5072000.b\50720005.D
Date: 20-JUL-2000 16:02
Client ID: SST0160
Sample Info: sst0160(80 ug/ml) 194-175-14 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

\\Qp1tpa02\J\chem\71.1\5072000.b\50720005.D



664 1138

STL Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072000.b\S0720CC5.D
 Lab Smp Id: sstd160 Client Smp ID: SSTD160
 Inj Date : 20-JUL-2000 16:02
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd160(80 ug/ml) 194-175-14 8270/clp
 Misc Info : sstd160,s072000.b,8270clp.m,1-82701.sub,1,5
 Comment :
 Method : \\Qpitpa02\D\chem\71.i\s072000.b\8270clp.m
 Meth Date : 20-Jul-2000 16:41 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

*WWS
7/25/00*

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152		4.688	4.688	(1.000)	98036	40.0000	
* 2 Naphthalene-d8	136		6.136	6.136	(1.000)	314762	40.0000	
* 3 Acenaphthene-d10	164		9.026	9.026	(1.000)	155993	40.0000	
* 4 Phenanthrene-d10	186		12.258	12.258	(1.000)	273168	40.0000	
* 5 Chrysene-d12	240		18.834	18.834	(1.000)	327755	40.0000	
* 6 Perylene-d12	264		22.173	22.173	(1.000)	436807	40.0000	
13 N-Nitrosodimethylamine	74		1.584	1.584	(0.338)	336875	160.000	158.74
10 Pyridine	79		1.568	1.568	(0.335)	585415	160.000	161.82 (A)
19 Methyl methanesulfonate	80		3.214	3.214	(0.686)	324372	160.000	162.82 (A)
22 Aniline	93		4.410	4.410	(0.941)	769977	160.000	152.43
23 Phenol	94		4.458	4.458	(0.951)	646792	160.000	151.09
24 bis(2-Chloroethyl)ether	93		4.480	4.480	(0.956)	550391	160.000	155.41
25 2-Chlorophenol	128		4.528	4.528	(0.966)	467999	160.000	152.03
27 1,3-Dichlorobenzene	146		4.651	4.651	(0.992)	526004	160.000	154.82
28 1,4-Dichlorobenzene	146		4.704	4.704	(1.003)	532807	160.000	154.05
29 1,2-Dichlorobenzene	146		4.896	4.896	(1.044)	482182	160.000	151.68
30 Benzyl Alcohol	108		4.886	4.886	(1.042)	345465	160.000	153.82
31 2-Methylphenol	108		5.046	5.046	(1.076)	436573	160.000	148.96
32 2,2'-oxybis(1-Chloropropane)	45		5.030	5.030	(1.073)	849820	160.000	150.56
33 N-Nitroso-di-n-propylamine	70		5.196	5.196	(1.108)	433134	160.000	152.60
35 4-Methylphenol	108		5.201	5.201	(1.109)	457187	160.000	148.15
38 Hexachloroethane	117		5.217	5.217	(1.113)	232577	160.000	157.38
39 Nitrobenzene	77		5.340	5.340	(0.870)	658561	160.000	159.91
44 Isophorone	82		5.602	5.602	(0.913)	980413	160.000	156.84
45 2-Nitrophenol	139		5.703	5.703	(0.929)	251601	160.000	160.72 (A)
46 2,4-Dimethylphenol	107		5.789	5.789	(0.943)	499106	160.000	162.07 (A)

664 1139

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	5.879	5.879	(0.958)	592353	160.000	158.68
51 2,4-Dichlorophenol	162	6.008	6.008	(0.979)	338727	160.000	155.23
52 Benzoic Acid	122	6.008	6.008	(0.979)	238540	160.000	218.58(A)
53 1,2,4-Trichlorobenzene	180	6.088	6.088	(0.992)	367115	160.000	158.73
54 Naphthalene	128	6.162	6.162	(1.004)	1336165	160.000	155.47
55 4-Chloroaniline	127	6.280	6.280	(1.024)	506682	160.000	155.89
59 Hexachlorobutadiene	225	6.403	6.403	(1.044)	205777	160.000	160.47(A)
62 4-Chloro-3-Methylphenol	107	7.017	7.017	(1.144)	408915	160.000	157.20
65 2-Methylnaphthalene	142	7.145	7.145	(1.165)	846546	160.000	155.50
66 1-Methylnaphthalene	142	7.316	7.316	(1.192)	774988	160.000	154.37
67 Hexachlorocyclopentadiene	237	7.509	7.509	(0.832)	215342	160.000	180.14(A)
69 2,4,6-Trichlorophenol	196	7.674	7.674	(0.850)	214670	160.000	161.00(A)
70 2,4,5-Trichlorophenol	196	7.760	7.760	(0.860)	219975	160.000	156.30
73 2-Chloronaphthalene	162	7.952	7.952	(0.881)	717618	160.000	158.35
77 2-Nitroaniline	65	8.230	8.230	(0.912)	331755	160.000	167.44(A)
80 Dimethylphthalate	163	8.652	8.652	(0.959)	814495	160.000	161.36(A)
82 2,6-Dinitrotoluene	165	8.775	8.775	(0.972)	186120	160.000	164.92(A)
83 Acenaphthylene	152	8.727	8.727	(0.967)	1162418	160.000	158.86
85 3-Nitroaniline	138	9.047	9.047	(1.002)	227928	160.000	171.37(A)
86 Acenaphthene	153	9.095	9.095	(1.008)	723839	160.000	158.20
87 2,4-Dinitrophenol	184	9.256	9.256	(1.025)	131775	160.000	205.09(A)
89 4-Nitrophenol	109	9.512	9.512	(1.054)	168245	160.000	188.12(A)
90 Dibenzofuran	168	9.427	9.427	(1.044)	992554	160.000	159.31
91 2,4-Dinitrotoluene	165	9.576	9.576	(1.061)	257760	160.000	172.58(A)
95 2,3,5,6-Tetrachlorophenol	232	9.715	9.715	(1.076)	163642	160.000	170.58(A)
92 2,3,4,6-Tetrachlorophenol	232	9.816	9.816	(1.089)	159761	160.000	165.15(A)
96 2-Naphthylamine	143	9.779	9.779	(1.083)	400845	160.000	128.77
97 Diethylphthalate	149	10.148	10.148	(1.124)	861840	160.000	166.38(A)
98 Fluorene	166	10.153	10.153	(1.125)	785416	160.000	159.05
99 4-Chlorophenyl-phenylether	204	10.196	10.196	(1.130)	357302	160.000	160.18(A)
100 4-Nitroaniline	138	10.372	10.372	(1.149)	238235	160.000	182.64(A)
102 4,6-Dinitro-2-methylphenol	198	10.458	10.458	(0.853)	174815	160.000	174.09(A)
103 N-Nitrosodiphenylamine (1)	169	10.500	10.500	(0.857)	590377	160.000	154.29
104 1,2-Diphenylhydrazine	77	10.543	10.543	(0.860)	1316643	160.000	161.74(A)
112 4-Bromophenyl-phenylether	248	11.280	11.280	(0.920)	195405	160.000	151.77
113 Hexachlorobenzene	284	11.563	11.563	(0.943)	204852	160.000	154.12
117 Pentachlorophenol	266	12.033	12.033	(0.982)	126145	160.000	181.37(A)
122 Phenanthrene	178	12.317	12.317	(1.005)	1120932	160.000	157.15
123 Anthracene	178	12.423	12.423	(1.014)	1164917	160.000	158.23
126 Carbazole	167	12.888	12.888	(1.051)	1162133	160.000	168.75(A)
130 Di-n-Butylphthalate	149	14.015	14.015	(1.143)	1514941	160.000	168.93(A)
135 Fluoranthene	202	15.223	15.223	(1.242)	1270636	160.000	174.40(A)
136 Benzidine	184	15.666	15.666	(0.832)	711767	160.000	152.64
137 Pyrene	202	15.752	15.752	(0.836)	1314904	160.000	150.06
144 Butylbenzylphthalate	149	17.723	17.723	(0.941)	855265	160.000	159.52
149 3,3'-Dichlorobenzidine	252	18.871	18.871	(1.002)	611730	160.000	160.35(A)
150 Benzo(a)Anthracene	228	18.802	18.802	(0.998)	1456187	160.000	159.25

664 1140

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	==	=====	=====	-----	-----	-----
151 Chrysene	228	18 909	18 909	(1 004)	1352558	160 000	157 53
153 Bis(2-ethylhexyl)Phthalate	149	19 299	19 299	(1 025)	1256880	160 000	155 97
155 Di-n-octylphthalate	149	20 773	20 773	(0 937)	2470169	160 000	148 11
157 Benzo(b)fluoranthene	252	21 398	21 398	(0 965)	2383257	160 000	187 98 (A)
158 Benzo(k)fluoranthene	252	21 468	21 468	(0 968)	1405894	160 000	124 36
159 7,12-dimethylbenz[a]anthracen	256	21 452	21 452	(0 967)	855256	160 000	163 10 (A)
167 Benzo(a)pyrene	252	22 071	22.071	(0 995)	1827078	160 000	157 40
169 Indeno(1,2,3-cd)pyrene	276	24 363	24 363	(1 099)	2519109	160 000	150 52 (M)
170 Dibenz(a,h)anthracene	278	24 401	24 401	(1 100)	2460149	160 000	165 86 (A)
171 Benzo(g,h,i)perylene	276	24 887	24.887	(1 122)	2466034	160 000	165 59 (A)
\$ 172 Nitrobenzene-d5	82	5 318	5 318	(0 867)	616407	160 000	162.88 (A)
\$ 173 2-Fluorobiphenyl	172	7 797	7.797	(0.864)	812152	160 000	159 90
\$ 174 Terphenyl-d14	244	16 302	16 302	(0 866)	1015367	160 000	153 83
\$ 175 Phenol-d5	99	4 442	4.442	(0 948)	592646	160 000	150 16
\$ 176 2-Fluorophenol	112	3.401	3 401	(0.725)	463039	160 000	156 29
\$ 177 2,4,6-Tribromophenol	330	10 741	10 741	(0 876)	109038	160 000	158 87
\$ 178 2-Chlorophenol-d4	132	4 512	4 512	(0 962)	422582	160 000	152 68
\$ 179 1,2-Dichlorobenzene-d4	152	4.880	4.880	(1 041)	293507	160 000	153 18

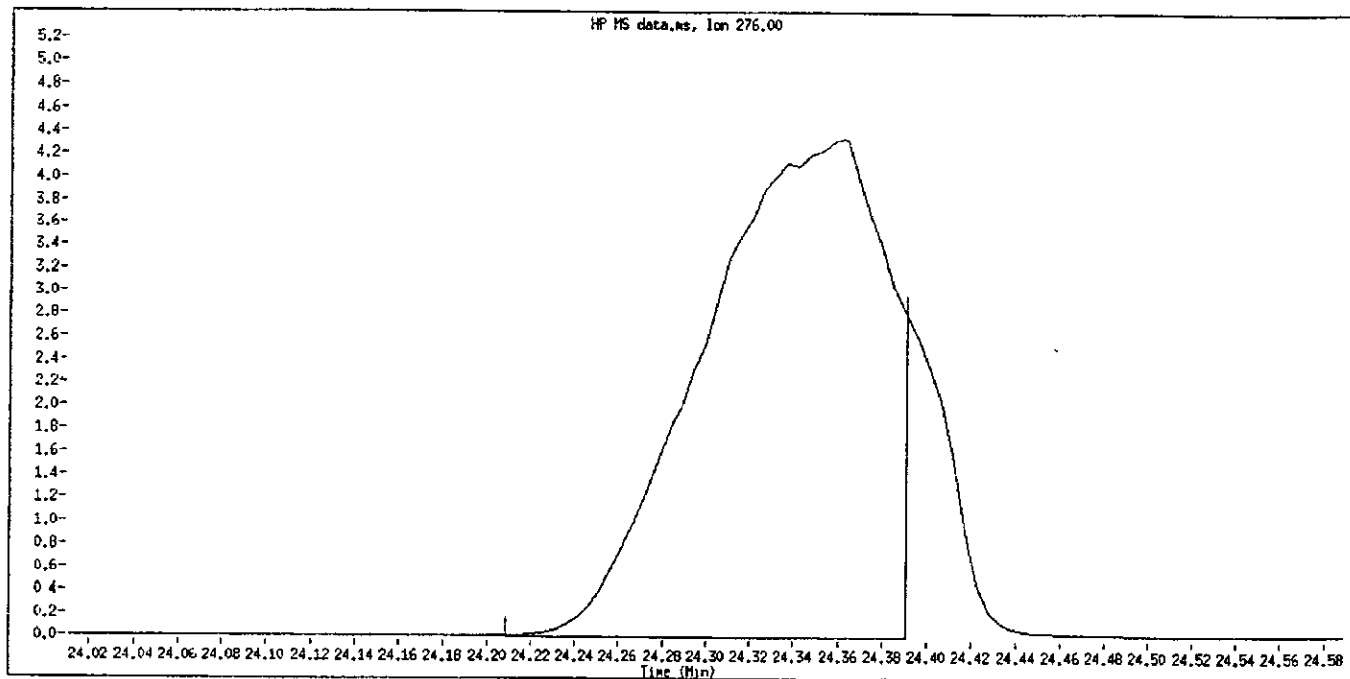
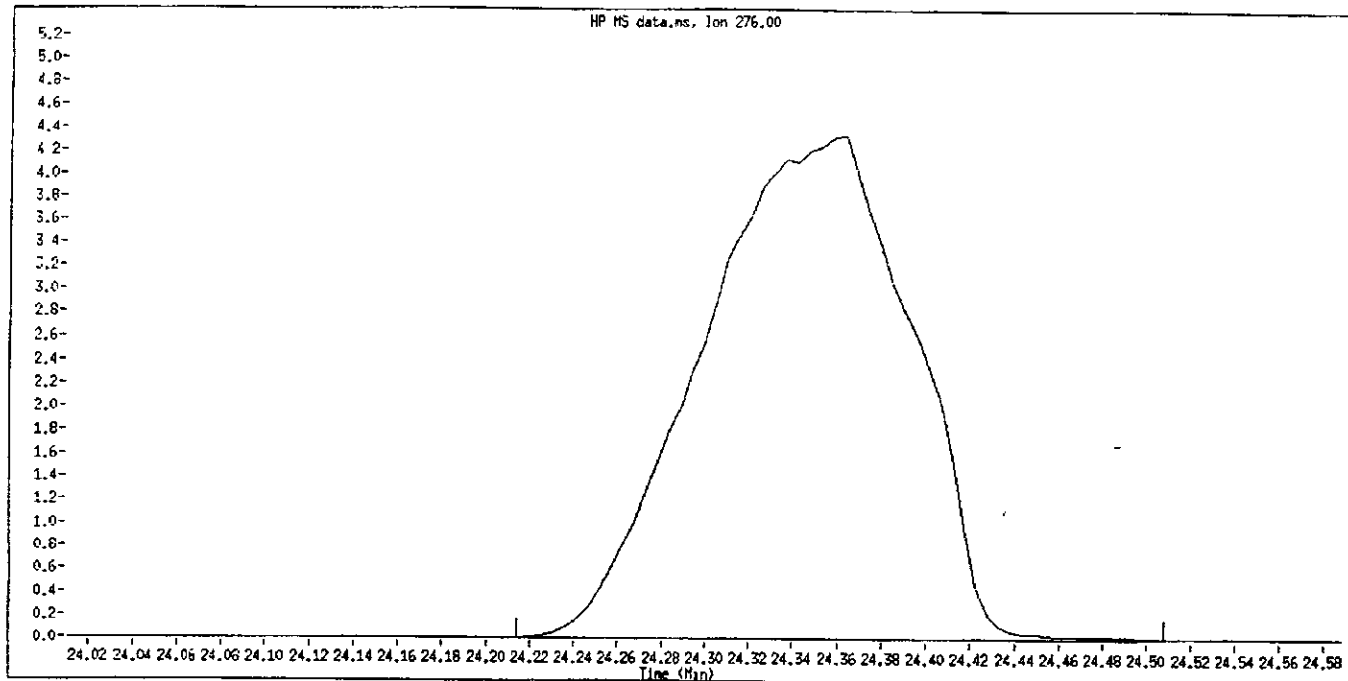
Handwritten note: 7/20/00

QC Flag Legend

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

Data File Name S0720CC5 D
Inj Date and Time 20-JUL-2000 16 02
Instrument ID 71 1
Client ID SSJD160
Compound Name Indeno[1,2,3-cd]pyrene
CAS # 193-39-5
Report Date 07/20/2000

664 1141



Manually Integrated By Bachas
Manual Integration Reason Poor Chromatography

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

664 1142

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: METHODS *1/12/00*

Instrument ID: 71

Calibration Date: 07/25/00

Time: 1213

Lab File ID: S0725CC1

Init. Calib. Date(s): 07/20/00

07/20/00

Init. Calib. Times: 1355

1602

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.945	1.880	0.01	3.3	20.0
bis(2-Chloroethyl) ether	1.609	1.528	0.01	5.0	50.0
2-Chlorophenol	1.399	1.400	0.01	0.1	50.0
1,3-Dichlorobenzene	1.544	1.563	0.01	1.2	50.0
1,4-Dichlorobenzene	1.571	1.597	0.01	1.6	20.0
1,2-Dichlorobenzene	1.444	1.477	0.01	2.3	50.0
2-Methylphenol	1.332	1.298	0.01	2.6	50.0
2,2'-oxybis(1-Chloropropane)	2.564	2.322	0.01	9.4	50.0
4-Methylphenol	1.402	1.383	0.01	1.4	50.0
Hexachloroethane	0.671	0.646	0.01	3.7	50.0
Nitrobenzene	0.523	0.506	0.01	3.2	50.0
Isophorone	0.794	0.772	0.01	2.8	50.0
2-Nitrophenol	0.199	0.200	0.01	0.5	20.0
2,4-Dimethylphenol	0.391	0.392	0.01	0.2	50.0
bis(2-Chloroethoxy)methane	0.474	0.450	0.01	5.1	50.0
N-Nitroso-di-n-propylamine	1.290	1.208	0.05	6.4	50.0
2,4-Dichlorophenol	0.277	0.290	0.01	4.7	20.0
1,2,4-Trichlorobenzene	0.294	0.311	0.01	5.8	50.0
Naphthalene	1.092	1.101	0.01	0.8	50.0
4-Chloroaniline	0.413	0.422	0.01	2.2	50.0
Hexachlorobutadiene	0.163	0.182	0.01	11.6	20.0
4-Chloro-3-Methylphenol	0.330	0.335	0.01	1.5	20.0
2-Methylnaphthalene	0.692	0.714	0.01	3.2	50.0
Hexachlorocyclopentadiene	0.306	0.297	0.05	2.9	50.0
2,4,6-Trichlorophenol	0.342	0.348	0.01	1.8	20.0
2,4,5-Trichlorophenol	0.361	0.369	0.01	2.2	50.0
2-Chloronaphthalene	1.162	1.137	0.01	2.2	50.0
2-Nitroaniline	0.508	0.483	0.01	4.9	50.0
Dimethylphthalate	1.294	1.359	0.01	5.0	50.0
Acenaphthylene	1.876	1.844	0.01	1.7	50.0
2,6-Dinitrotoluene	0.289	0.300	0.01	3.8	50.0
3-Nitroaniline	0.341	0.362	0.01	6.2	50.0
Acenaphthene	1.173	1.169	0.01	0.3	20.0
2,4-Dinitrophenol	0.165	0.162	0.05	1.8	50.0
4-Nitrophenol	0.229	0.257	0.05	12.2	50.0
Dibenzofuran	1.597	1.638	0.01	2.6	50.0
2,4-Dinitrotoluene	0.383	0.420	0.01	9.7	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

664 1143

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: METHODS

CUG 20210

5/7/01

Instrument ID: 71

Calibration Date: 07/25/00

Time: 1213

Lab File ID: S0725CC1

Init. Calib. Date(s): 07/20/00

07/20/00

Init. Calib. Times: 1355

1602

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.328	1.447	0.01	9.0	50.0
4-Chlorophenyl-phenylether	0.572	0.612	0.01	7.0	50.0
Fluorene	1.266	1.341	0.01	5.9	50.0
4-Nitroaniline	0.335	0.371	0.01	10.7	50.0
4,6-Dinitro-2-methylphenol	0.147	0.129	0.01	12.2	50.0
N-Nitrosodiphenylamine (1)	0.560	0.507	0.01	9.5	20.0
4-Bromophenyl-phenylether	0.189	0.189	0.01	0.0	50.0
Hexachlorobenzene	0.194	0.205	0.01	5.7	50.0
Pentachlorophenol	0.101	0.100	0.01	1.0	20.0
Phenanthrene	1.044	1.060	0.01	1.5	50.0
Anthracene	1.078	1.087	0.01	0.8	50.0
Carbazole	1.009	1.044	0.01	3.5	50.0
Di-n-Butylphthalate	1.313	1.332	0.01	1.4	50.0
Fluoranthene	1.067	1.164	0.01	9.1	20.0
Pyrene	1.069	1.068	0.01	0.1	50.0
Butylbenzylphthalate	0.654	0.617	0.01	5.6	50.0
3,3'-Dichlorobenzidine	0.466	0.448	0.01	3.9	50.0
Benzo(a)Anthracene	1.116	1.112	0.01	0.4	50.0
Chrysene	1.048	1.049	0.01	0.1	50.0
bis(2-ethylhexyl) Phthalate	0.983	0.881	0.01	10.4	50.0
Di-n-octylphthalate	1.527	1.426	0.01	6.6	20.0
Benzo(b)fluoranthene	1.161	1.138	0.01	2.0	50.0
Benzo(k)fluoranthene	1.035	1.194	0.01	15.4	50.0
Benzo(a)pyrene	1.063	1.089	0.01	2.4	20.0
Indeno(1,2,3-cd)pyrene	1.365	1.338	0.01	2.0	50.0
Dibenz(a,h)anthracene	1.358	1.328	0.01	2.2	50.0
Benzo(g,h,i)perylene	1.364	1.320	0.01	3.2	50.0
Pyridine	1.651	1.439	0.01	12.8	50.0
N-Nitrosodimethylamine	0.965	0.909	0.01	5.8	50.0
Aniline	2.295	1.910	0.01	16.8	50.0
Benzyl Alcohol	1.022	0.954	0.01	6.6	50.0
Benzoic Acid	0.138	0.206	0.01	49.3	50.0
1-Methylnaphthalene	0.638	0.638	0.01	0.0	50.0
2,3,4,6-Tetrachlorophenol	0.248	0.264	0.01	6.4	50.0
2,3,5,6-Tetrachlorophenol	0.246	0.272	0.01	10.6	50.0
1,2-Diphenylhydrazine	1.192	1.014	0.01	14.9	50.0
Benzidine	0.569	0.448	0.01	21.3	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

664 1144

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: METHODS

COB 06-20-00
5/20/02

Instrument ID: 71

Calibration Date: 07/25/00

Time: 1213

Lab File ID: S0725CC1

Init. Calib. Date(s): 07/20/00

07/20/00

Init. Calib. Times: 1355

1602

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methyl methanesulfonate	0.905	0.576	0.01	36.4	50.0
2-Naphthylamine	0.798	0.986	0.01	23.6	50.0
7,12-dimethylbenz [a] anthrace	0.480	0.502	0.01	4.6	50.0
Nitrobenzene-d5	0.481	0.453	0.01	5.8	50.0
2-Fluorobiphenyl	1.303	1.262	0.01	3.1	50.0
Terphenyl-d14	0.806	0.821	0.01	1.9	50.0
Phenol-d5	1.793	1.680	0.01	6.3	50.0
2-Fluorophenol	1.346	1.266	0.01	5.9	50.0
2,4,6-Tribromophenol	0.101	0.098	0.01	3.0	50.0
2-Chlorophenol-d4	1.257	1.223	0.01	2.7	50.0
1,2-Dichlorobenzene-d4	0.871	0.890	0.01	2.2	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 71.i
 Lab File ID: S0725CC1.D
 Analysis Type: NONE

Injection Date: 25-JUL-2000 12:13
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\71.i\s072500.b\8270clp

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
67 N-Nitrosodimethylamine	50.0000	47.1129	5.8	50.0
66 Pyridine	50.0000	43.5719	12.9	50.0
87 Methyl methanesulfonate	50.0000	31.8329	36.3	50.0
185 2-Fluorophenol	50.0000	47.0430	5.9	50.0
68 Aniline	50.0000	41.6168	16.8	50.0
184 Phenol-d5	50.0000	46.8303	6.3	50.0
1 Phenol	50.0000	48.3229	3.4	20.0
2 bis(2-Chloroethyl)ether	50.0000	47.4847	5.0	50.0
187 2-Chlorophenol-d4	50.0000	48.6212	2.8	50.0
3 2-Chlorophenol	50.0000	50.0366	0.1	50.0
4 1,3-Dichlorobenzene	50.0000	50.6236	1.2	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	50.8264	1.7	20.0
188 1,2-Dichlorobenzene-d4	50.0000	51.1440	2.3	50.0
69 Benzyl Alcohol	50.0000	46.6935	6.6	50.0
6 1,2-Dichlorobenzene	50.0000	51.1195	2.2	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	45.2780	9.4	50.0
7 2-Methylphenol	50.0000	48.7500	2.5	50.0
18 N-Nitroso-di-n-propylamine	50.0000	46.8552	6.3	50.0
9 4-Methylphenol	50.0000	49.3239	1.4	50.0
12 Hexachloroethane	50.0000	48.1035	3.8	50.0
181 Nitrobenzene-d5	50.0000	47.1082	5.8	50.0
13 Nitrobenzene	50.0000	48.3682	3.3	50.0
14 Isophorone	50.0000	48.5905	2.8	50.0
15 2-Nitrophenol	50.0000	50.3235	0.6	20.0
16 2,4-Dimethylphenol	50.0000	50.1523	0.3	50.0
17 bis(2-Chloroethoxy)methane	50.0000	47.4868	5.0	50.0
71 Benzoic Acid	50.0000	74.1863	48.4	50.0
18 2,4-Dichlorophenol	50.0000	52.3617	4.7	20.0
19 1,2,4-Trichlorobenzene	50.0000	52.8468	5.7	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	50.4058	0.8	50.0
21 4-Chloroaniline	50.0000	51.0830	2.2	50.0
22 Hexachlorobutadiene	50.0000	55.8809	11.8	20.0
23 4-Chloro-3-Methylphenol	50.0000	50.6613	1.3	20.0
24 2-Methylnaphthalene	50.0000	51.6271	3.3	50.0
72 1-Methylnaphthalene	50.0000	50.0391	0.1	50.0
25 Hexachlorocyclopentadiene	50.0000	48.4649	3.1	50.0
26 2,4,6-Trichlorophenol	50.0000	50.8475	1.7	20.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 71.i
 Lab File ID: S0725CC1.D
 Analysis Type: NONE

Injection Date: 25-JUL-2000 12:13
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\71.i\s072500.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	51.1833	2.4	50.0
182 2-Fluorobiphenyl	50.0000	48.4715	3.1	50.0
28 2-Chloronaphthalene	50.0000	48.9219	2.2	50.0
29 2-Nitroaniline	50.0000	47.5289	4.9	50.0
30 Dimethylphthalate	50.0000	52.4836	5.0	50.0
31 Acenaphthylene	50.0000	49.1275	1.7	50.0
32 2,6-Dinitrotoluene	50.0000	51.8213	3.6	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
33 3-Nitroaniline	50.0000	52.9993	6.0	50.0
34 Acenaphthene	50.0000	49.8308	0.3	20.0
35 2,4-Dinitrophenol	50.0000	49.0810	1.8	50.0
37 Dibenzofuran	50.0000	51.2663	2.5	50.0
36 4-Nitrophenol	50.0000	56.0829	12.2	50.0
38 2,4-Dinitrotoluene	50.0000	54.9111	9.8	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	55.2135	10.4	50.0
114 2-Naphthylamine	50.0000	61.7930	23.6	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	53.2949	6.6	50.0
39 Diethylphthalate	50.0000	54.4556	8.9	50.0
41 Fluorene	50.0000	52.9523	5.9	50.0
40 4-Chlorophenyl-phenylether	50.0000	53.5047	7.0	50.0
42 4-Nitroaniline	50.0000	55.4300	10.9	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	43.9712	12.1	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	45.2612	9.5	20.0
78 1,2-Diphenylhydrazine	50.0000	42.5172	15.0	50.0
186 2,4,6-Tribromophenol	50.0000	48.9022	2.2	50.0
45 4-Bromophenyl-phenylether	50.0000	50.1887	0.4	50.0
46 Hexachlorobenzene	50.0000	52.6050	5.2	50.0
47 Pentachlorophenol	50.0000	48.9622	2.1	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	50.7299	1.5	50.0
49 Anthracene	50.0000	50.4239	0.8	50.0
50 Carbazole	50.0000	51.7609	3.5	50.0
51 Di-n-Butylphthalate	50.0000	50.7377	1.5	50.0
52 Fluoranthene	50.0000	54.5777	9.2	20.0
79 Benzidine	50.0000	39.4011	21.2	50.0
53 Pyrene	50.0000	49.9399	0.1	50.0
183 Terphenyl-d14	50.0000	50.9856	2.0	50.0
54 Butylbenzylphthalate	50.0000	47.1628	5.7	50.0
56 Benzo(a)Anthracene	50.0000	49.8269	0.3	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 71.i
 Lab File ID: S0725CC1.D
 Analysis Type: NONE

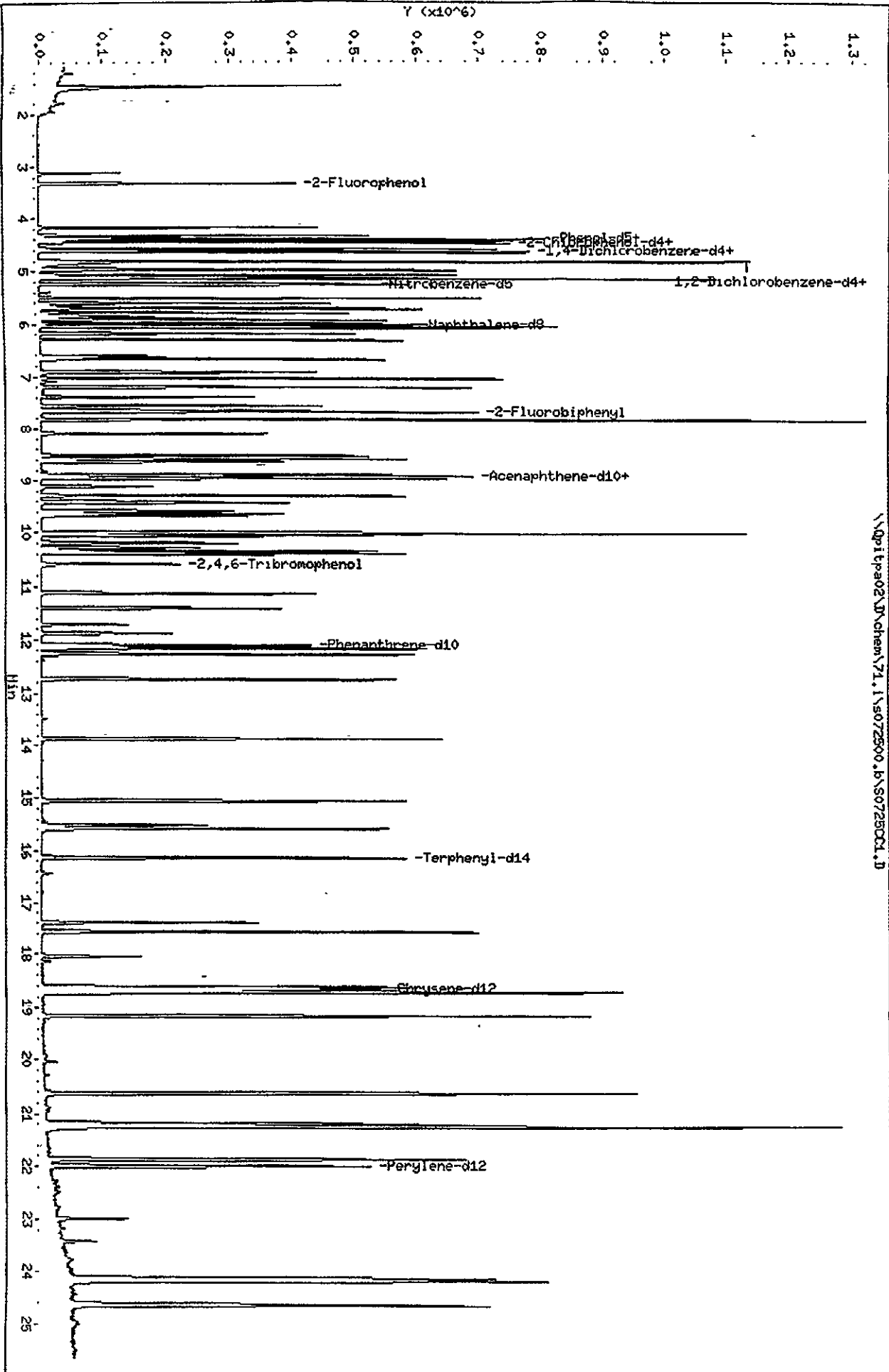
Injection Date: 25-JUL-2000 12:13
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\71.i\s072500.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	48.0829	3.8	50.0
57 Chrysene	50.0000	50.0410	0.1	50.0
58 bis(2-ethylhexyl) Phthalate	50.0000	44.7888	10.4	50.0
59 Di-n-octylphthalate	50.0000	46.6823	6.6	20.0
60 Benzo(b)fluoranthene	50.0000	49.0051	2.0	50.0
61 Benzo(k)fluoranthene	50.0000	57.6698	15.3	50.0
143 7,12-dimethylbenz[<i>a</i>]anthracen	50.0000	52.3042	4.6	50.0
62 Benzo(a)pyrene	50.0000	51.2416	2.5	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3- <i>cd</i>)pyrene	50.0000	49.0376	1.9	50.0
64 Dibenz(a,h)anthracene	50.0000	48.8750	2.3	50.0
65 Benzo(g,h,i)perylene	50.0000	48.4133	3.2	50.0

6641148

Data File: \\Op1tpa02\N\chem\71.1\5072500.B\50725001.D
Date: 25-JUL-2000 12:13
Client ID: sst480
Sample Info: sst480(25 ug/ml) 194-182-1 8270/olp
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



664 1149

STL Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s072500.b\S0725CC1.D
 Lab Smp Id: sstd50 Client Smp ID: sstd50
 Inj Date : 25-JUL-2000 12:13
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd50(25 ug/ml) 194-182-1 8270/clp
 Misc Info : sstd50,s072500.b,8270clp.m,1-82701.sub,2,2
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s072500.b\8270clp.m
 Meth Date : 28-Jul-2000 09:29 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

5/7/20

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152		4.597	4.597	(1.000)	87324	40.0000	
* 2 Naphthalene-d8	136		6.023	6.023	(1.000)	325222	40.0000	
* 3 Acenaphthene-d10	164		8.881	8.881	(1.000)	181226	40.0000	
* 4 Phenanthrene-d10	188		12.097	12.097	(1.000)	336706	40.0000	
* 5 Chrysene-d12	240		18.657	18.657	(1.000)	379103	40.0000	
* 6 Perylene-d12	264		21.996	21.996	(1.000)	444761	40.0000	
13 N-Nitrosodimethylamine	74		1.461	1.461	(0.318)	99267	50.0000	47.113
10 Pyridine	79		1.461	1.461	(0.318)	157057	50.0000	43.572 (M)
19 Methyl methanesulfonate	80		3.111	3.111	(0.677)	62905	50.0000	31.833
22 Aniline	93		4.319	4.319	(0.940)	208515	50.0000	41.617
23 Phenol	94		4.372	4.372	(0.951)	205189	50.0000	48.323
24 bis(2-Chloroethyl) ether	93		4.383	4.383	(0.954)	166812	50.0000	47.485
25 2-Chlorophenol	128		4.436	4.436	(0.965)	152783	50.0000	50.036
27 1,3-Dichlorobenzene	146		4.554	4.554	(0.991)	170600	50.0000	50.624
28 1,4-Dichlorobenzene	146		4.613	4.613	(1.003)	174370	50.0000	50.826
29 1,2-Dichlorobenzene	146		4.800	4.800	(1.044)	161189	50.0000	51.119
30 Benzyl Alcohol	108		4.794	4.794	(1.043)	104163	50.0000	46.693 (H)
31 2-Methylphenol	108		4.960	4.960	(1.079)	141722	50.0000	48.750
32 2,2'-oxybis(1-Chloropropane)	45		4.938	4.938	(1.074)	253504	50.0000	45.278
33 N-Nitroso-di-n-propylamine	70		5.088	5.088	(1.107)	131920	50.0000	46.855
35 4-Methylphenol	108		5.115	5.115	(1.113)	150978	50.0000	49.324
38 Hexachloroethane	117		5.120	5.120	(1.114)	70510	50.0000	48.103
39 Nitrobenzene	77		5.232	5.232	(0.869)	205814	50.0000	48.368
44 Isophorone	82		5.494	5.494	(0.912)	313833	50.0000	48.590
45 2-Nitrophenol	139		5.595	5.595	(0.929)	81399	50.0000	50.323
46 2,4-Dimethylphenol	107		5.686	5.686	(0.944)	159577	50.0000	50.152

664 1150

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
47 bis(2-Chloroethoxy)methane	93	5.772	5.772	(0.958)	183157	50.0000	47.487
51 2,4-Dichlorophenol	162	5.900	5.900	(0.980)	118057	50.0000	52.362
52 Benzoic Acid	122	5.863	5.863	(0.973)	83650	50.0000	74.186
53 1,2,4-Trichlorobenzene	180	5.975	5.975	(0.992)	126286	50.0000	52.847
54 Naphthalene	128	6.050	6.050	(1.004)	447597	50.0000	50.406
55 4-Chloroaniline	127	6.167	6.167	(1.024)	171546	50.0000	51.083
59 Hexachlorobutadiene	225	6.290	6.290	(1.044)	74041	50.0000	55.881
62 4-Chloro-3-Methylphenol	107	6.904	6.904	(1.146)	136158	50.0000	50.661
65 2-Methylnaphthalene	142	7.022	7.022	(1.166)	290401	50.0000	51.627
66 1-Methylnaphthalene	142	7.187	7.187	(1.193)	259559	50.0000	50.039
67 Hexachlorocyclopentadiene	237	7.380	7.380	(0.831)	67307	50.0000	48.465
69 2,4,6-Trichlorophenol	196	7.551	7.551	(0.850)	78766	50.0000	50.848
70 2,4,5-Trichlorophenol	196	7.636	7.636	(0.860)	83685	50.0000	51.183
73 2-Chloronaphthalene	162	7.812	7.812	(0.880)	257575	50.0000	48.922
77 2-Nitroaniline	65	8.090	8.090	(0.911)	109400	50.0000	47.529
80 Dimethylphthalate	163	8.512	8.512	(0.958)	307779	50.0000	52.484
82 2,6-Dinitrotoluene	165	8.630	8.630	(0.972)	67942	50.0000	51.821
83 Acenaphthylene	152	8.582	8.582	(0.966)	417628	50.0000	49.127
85 3-Nitroaniline	138	8.897	8.897	(1.002)	81892	50.0000	52.999
86 Acenaphthene	153	8.945	8.945	(1.007)	264874	50.0000	49.831
87 2,4-Dinitrophenol	184	9.100	9.100	(1.025)	36636	50.0000	49.081
89 4-Nitrophenol	109	9.388	9.388	(1.057)	58272	50.0000	56.083
90 Dibenzofuran	168	9.271	9.271	(1.044)	371064	50.0000	51.266
91 2,4-Dinitrotoluene	165	9.420	9.420	(1.061)	95278	50.0000	54.911
95 2,3,5,6-Tetrachlorophenol	232	9.570	9.570	(1.078)	61537	50.0000	55.213
92 2,3,4,6-Tetrachlorophenol	232	9.666	9.666	(1.088)	59896	50.0000	53.295
96 2-Naphthylamine	143	9.618	9.618	(1.083)	223462	50.0000	61.793
97 Diethylphthalate	149	9.992	9.992	(1.125)	327703	50.0000	54.456
98 Fluorene	166	9.992	9.992	(1.125)	303778	50.0000	52.952
99 4-Chlorophenyl-phenylether	204	10.045	10.045	(1.131)	138654	50.0000	53.505
100 4-Nitroaniline	138	10.195	10.195	(1.148)	83996	50.0000	55.430
102 4,6-Dinitro-2-methylphenol	198	10.281	10.281	(0.850)	54425	50.0000	43.971
103 N-Nitrosodiphenylamine (1)	169	10.339	10.339	(0.855)	213476	50.0000	45.261
104 1,2-Diphenylhydrazine	77	10.387	10.387	(0.859)	426602	50.0000	42.517
112 4-Bromophenyl-phenylether	248	11.119	11.119	(0.919)	79649	50.0000	50.189
113 Hexachlorobenzene	284	11.402	11.402	(0.943)	86184	50.0000	52.605
117 Pentachlorophenol	266	11.872	11.872	(0.981)	41975	50.0000	48.962 (M)
122 Phenanthrene	178	12.145	12.145	(1.004)	446011	50.0000	50.730
123 Anthracene	178	12.252	12.252	(1.013)	457575	50.0000	50.424
126 Carbazole	167	12.722	12.722	(1.052)	439368	50.0000	51.761
130 Di-n-Butylphthalate	149	13.865	13.865	(1.146)	560836	50.0000	50.738
135 Fluoranthene	202	15.046	15.046	(1.244)	490137	50.0000	54.578
136 Benzidine	184	15.500	15.500	(0.831)	212511	50.0000	39.401
137 Pyrene	202	15.575	15.575	(0.835)	506157	50.0000	49.940
144 Butylbenzylphthalate	149	17.567	17.567	(0.942)	292476	50.0000	47.163
149 3,3'-Dichlorobenzidine	252	18.705	18.705	(1.003)	212177	50.0000	48.083
150 Benzo(a)Anthracene	228	18.620	18.620	(0.998)	527003	50.0000	49.827

664 1151

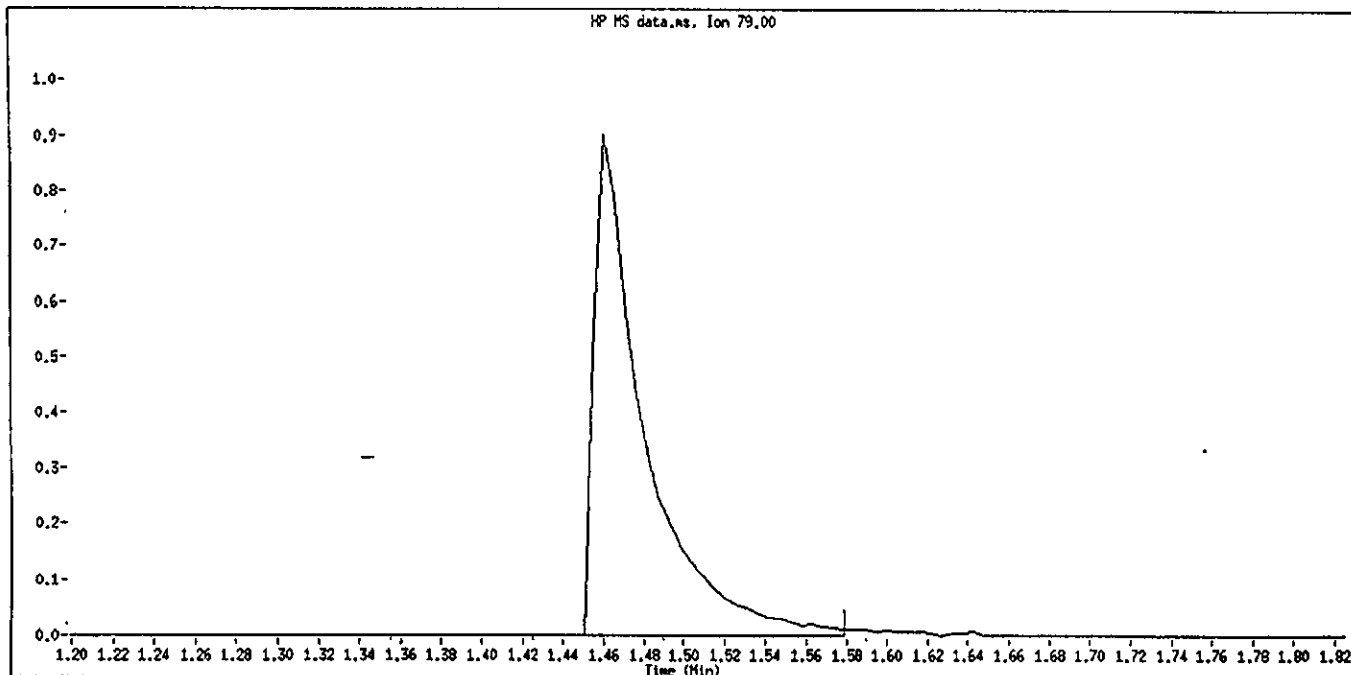
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	18.721	18.721	(1.003)	496957	50.0000	50.041
153 bis(2-ethylhexyl)Phthalate	149	19.148	19.148	(1.026)	417469	50.0000	44.789
155 Di-n-octylphthalate	149	20.618	20.618	(0.937)	792754	50.0000	46.682
157 Benzo(b)fluoranthene	252	21.189	21.189	(0.963)	632600	50.0000	49.005
158 Benzo(k)fluoranthene	252	21.243	21.243	(0.966)	663801	50.0000	57.670
159 7,12-dimethylbenz[a]anthracen	256	21.248	21.248	(0.966)	279271	50.0000	52.304
167 Benzo(a)pyrene	252	21.873	21.873	(0.994)	605620	50.0000	51.242
169 Indeno(1,2,3-cd)pyrene	276	24.127	24.127	(1.097)	744069	50.0000	49.038 (M)
170 Dibenz(a,h)anthracene	278	24.175	24.175	(1.099)	738143	50.0000	48.875
171 Benzo(g,h,i)perylene	276	24.640	24.640	(1.120)	734114	50.0000	48.413
\$ 172 Nitrobenzene-d5	82	5.216	5.216	(0.866)	184206	50.0000	47.108
\$ 173 2-Fluorobiphenyl	172	7.663	7.663	(0.863)	286012	50.0000	48.472
\$ 174 Terphenyl-d14	244	16.136	16.136	(0.865)	389259	50.0000	50.986
\$ 175 Phenol-d5	99	4.361	4.361	(0.949)	183336	50.0000	46.830
\$ 176 2-Fluorophenol	112	3.314	3.314	(0.721)	138249	50.0000	47.043
\$ 177 2,4,6-Tribromophenol	330	10.580	10.580	(0.875)	41369	50.0000	48.902
\$ 178 2-Chlorophenol-d4	132	4.420	4.420	(0.962)	133481	50.0000	48.621
\$ 179 1,2-Dichlorobenzene-d4	152	4.789	4.789	(1.042)	97205	50.0000	51.144

QC Flag Legend

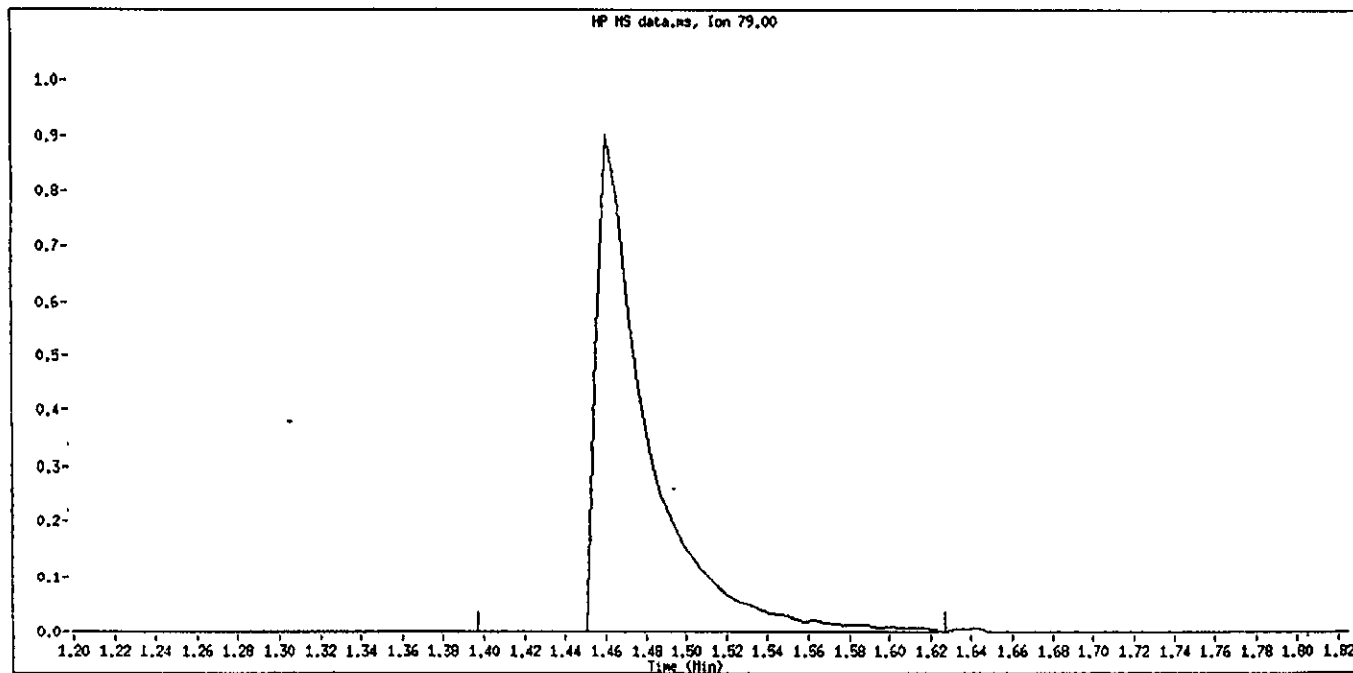
M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File Name S0725CC1.D
Inj. Date and Time 25-JUL-2000 12:13
Instrument ID 71 i
Client ID sstd50
Compound Name Pyridine
CAS #. 110-86-1
Report Date. 07/25/2000

664 1152



Original Integration

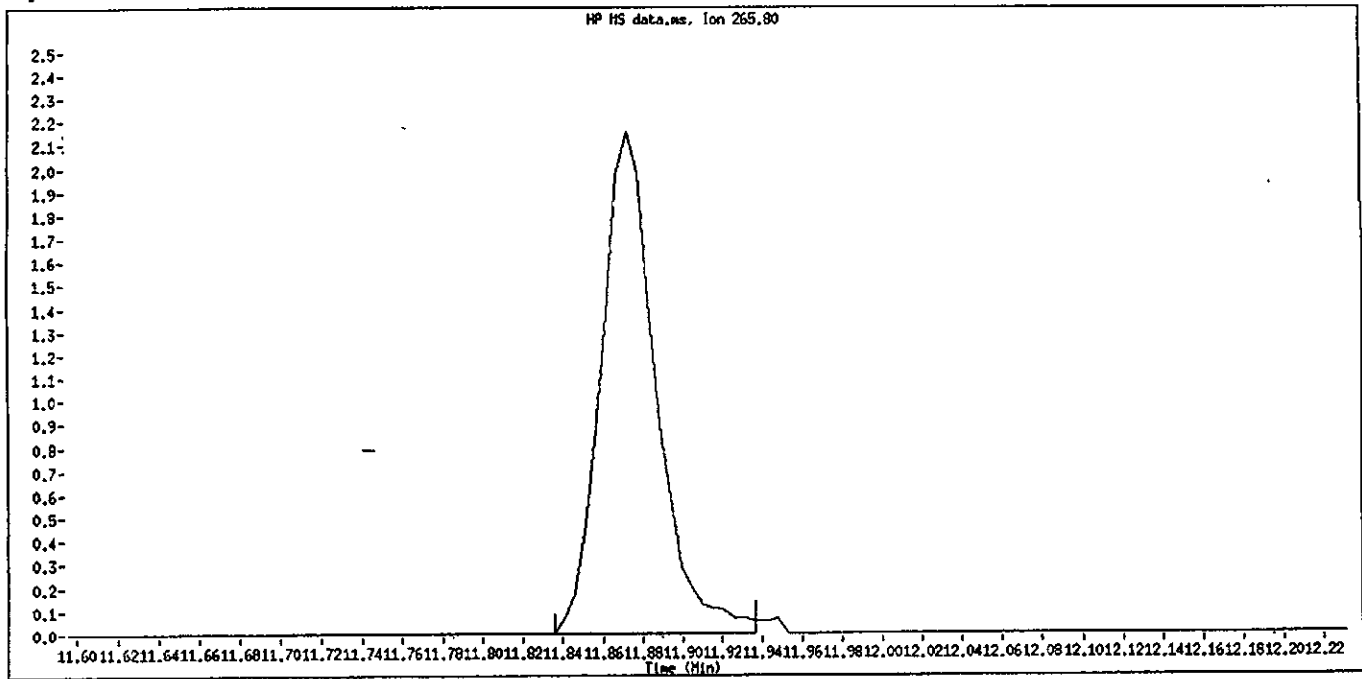


Manual Integration

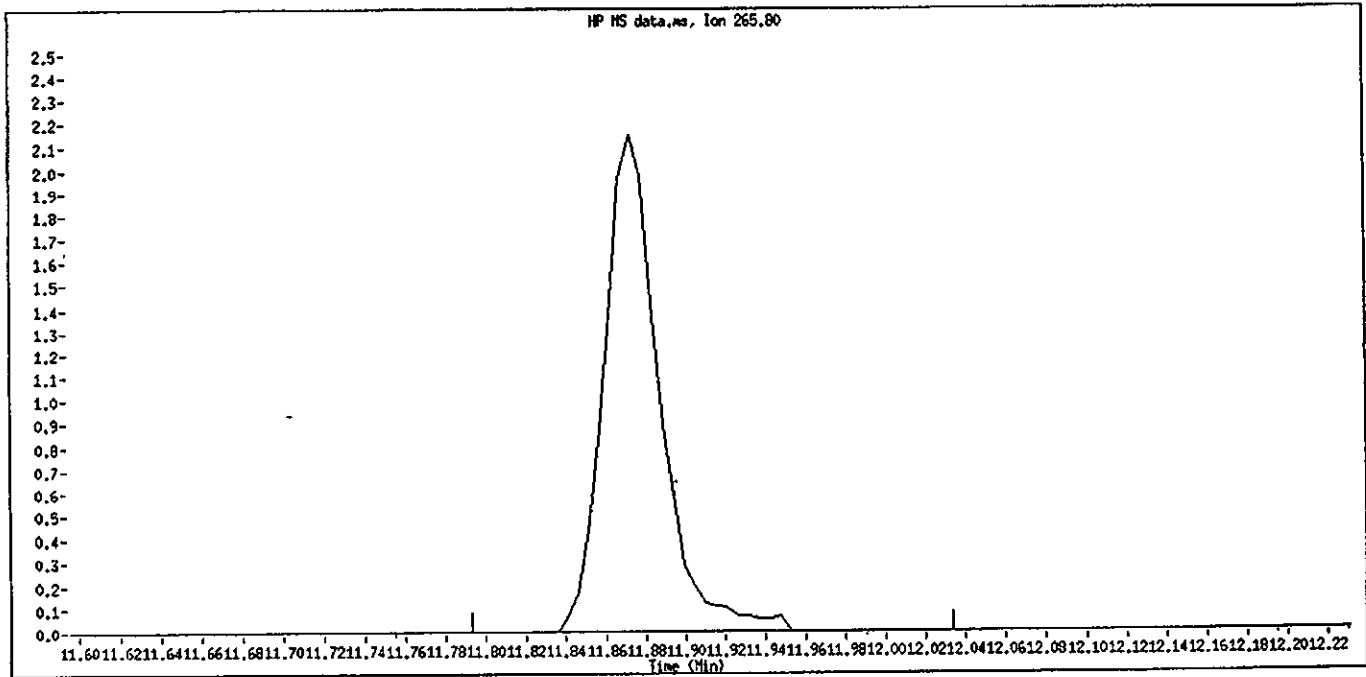
Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name. S0725CC1 D
Inj. Date and Time 25-JUL-2000 12 13
Instrument ID 71.1
Client ID sstd50
Compound Name Pentachlorophenol
CAS # 87-86-5
Report Date: 07/25/2000

664 1153



Original Integration

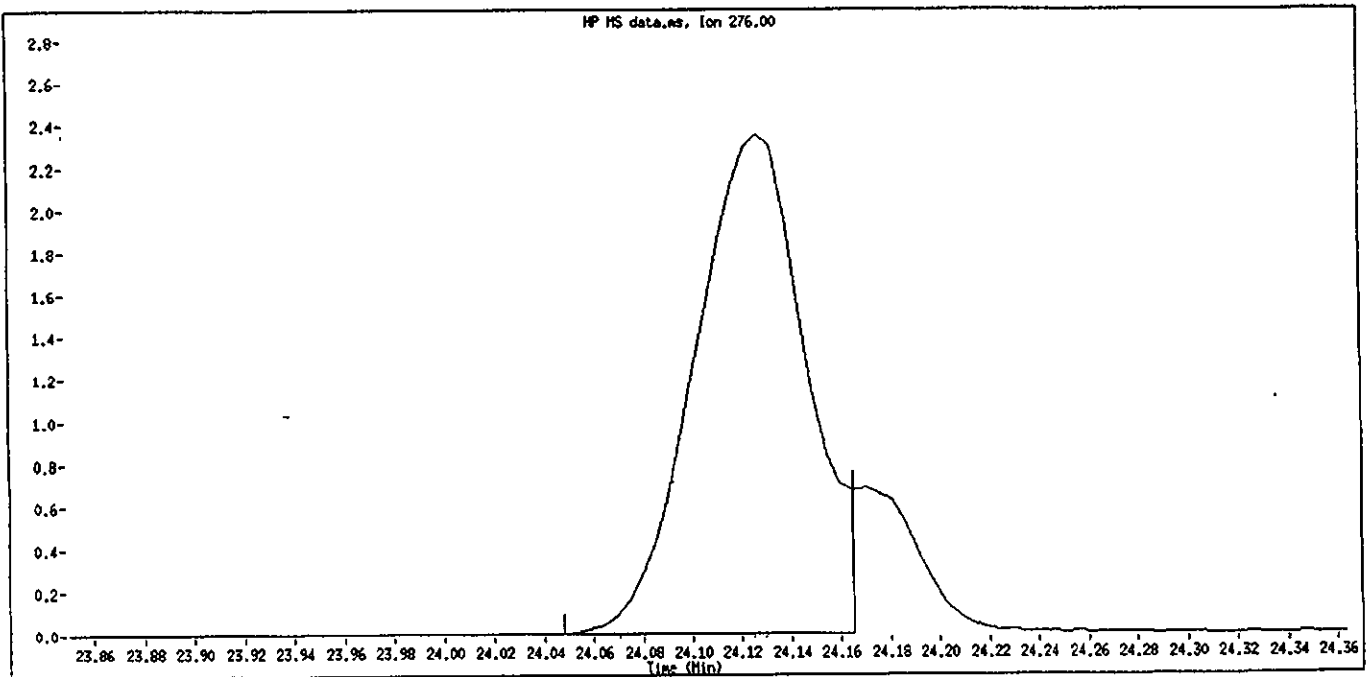
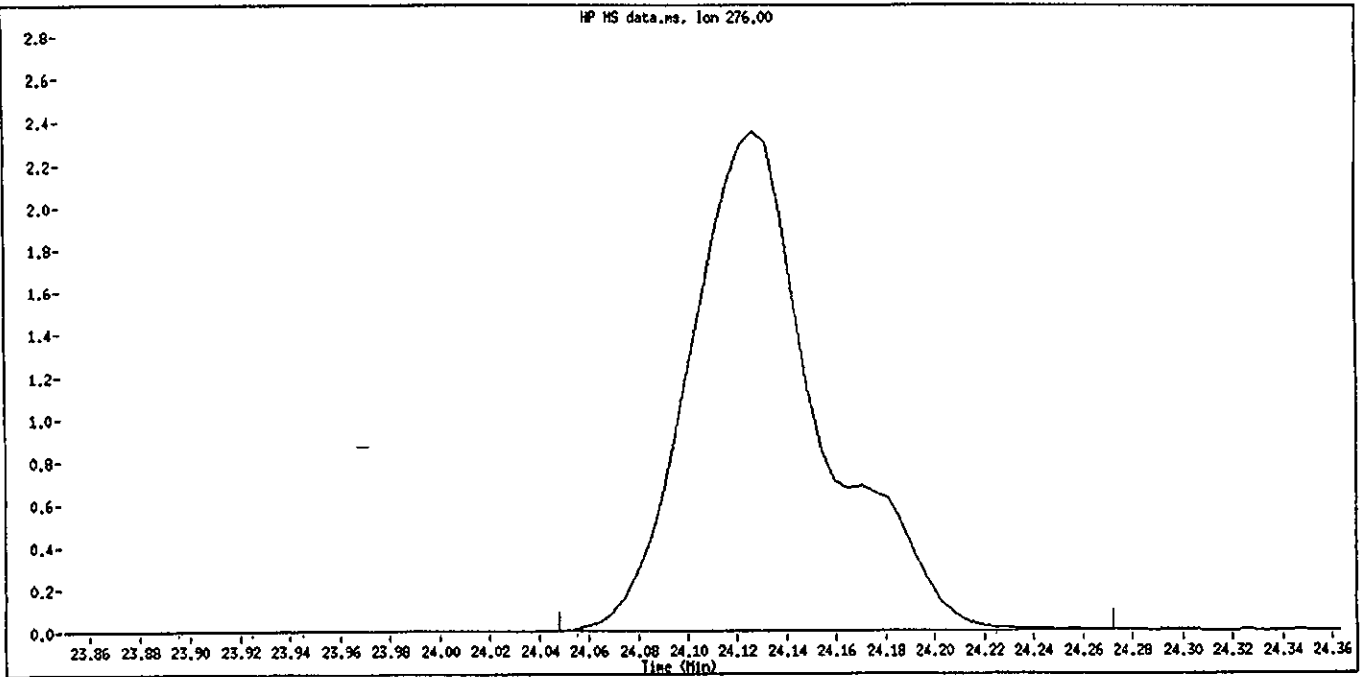


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0725CC1.D
Inj. Date and Time: 25-JUL-2000 12:13
Instrument ID: 71.1
Client ID: sstd50
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/25/2000

664 1154



Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

**GC/MS SEMIVOLATILE
QC DATA**

Date : 20-JUL-2000 13:37

Client ID: DFTPP02

Instrument: 71.1

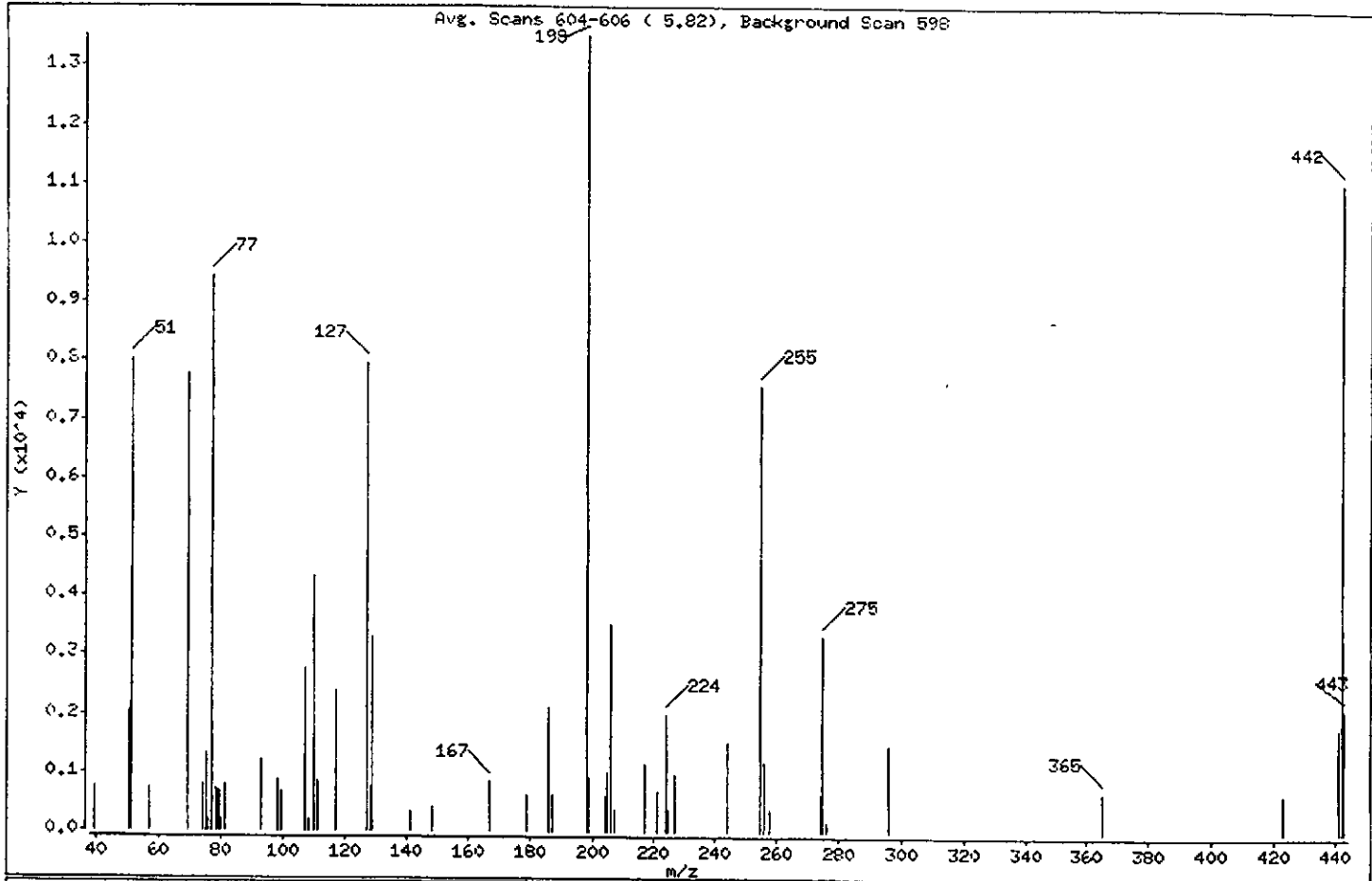
Sample Info: DFTPP050 (25,7,b) 194-152-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	59.31
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	57.57
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	58.78
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	24.59
365	Greater than 1.00% of mass 198	5.10
441	Present, but less than mass 443	13.15
442	Greater than 40.00% of mass 198	82.17
443	17.00 - 23.00% of mass 442	15.71 (19.11)

Data File: \\QPITPA02\chem\71.1\5072000.b\S0720DF2.D

Date : 20-JUL-2000 13:37

Client ID: DFTPP02

Instrument: 71.1

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

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0720DF2.D

Spectrum: Avg. Scans 604-606 (5.82), Background Scan 598

Location of Maximum: 198.00

Number of points: 54

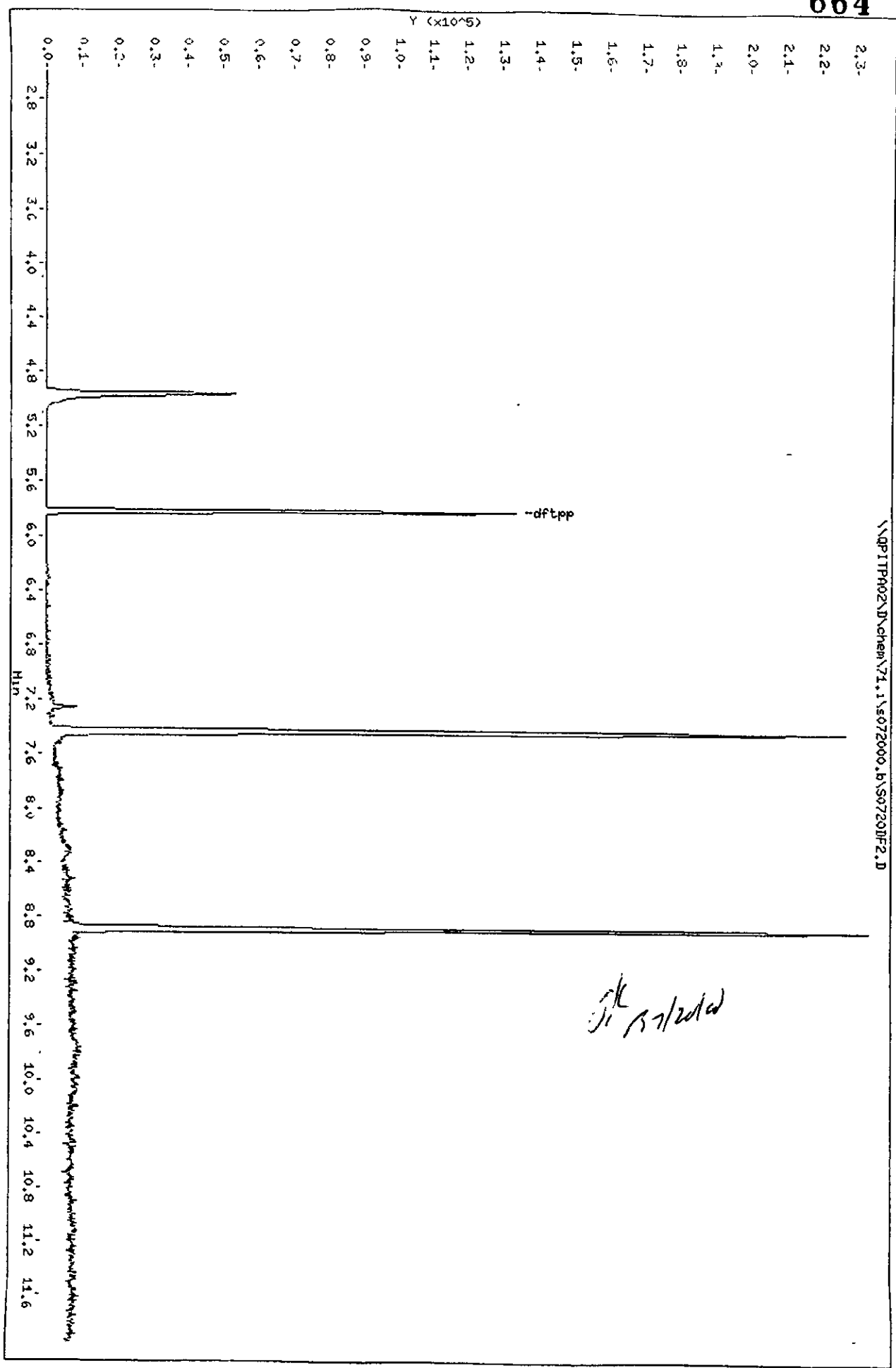
m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 39.00	738	| 98.00	874	| 186.00	2112	| 255.00	7580
| 50.00	2053	| 99.00	680	| 187.00	626	| 256.00	1170
| 51.00	8013	| 107.00	2750	| 198.00	13511	| 258.00	380
| 57.00	736	| 108.00	172	| 199.00	904	| 274.00	632
| 69.00	7778	| 110.00	4317	| 204.00	577	| 275.00	3323
| 74.00	771	| 111.00	841	| 205.00	981	| 276.00	169
| 75.00	1298	| 117.00	2393	| 206.00	3519	| 296.00	1460
| 76.00	175	| 127.00	7942	| 207.00	384	| 365.00	689
| 77.00	9401	| 128.00	744	| 217.00	1149	| 422.00	659
| 78.00	703	| 129.00	3306	| 221.00	675	| 441.00	1777
| 79.00	676	| 141.00	341	| 224.00	1985	| 442.00	11102
| 80.00	177	| 148.00	395	| 225.00	360	| 443.00	2122
| 81.00	790	| 167.00	848	| 227.00	978		
| 93.00	1204	| 179.00	623	| 244.00	1520		

Data File: \\QP1TP02\chem\71.1\5072000.b\50720DF2.D
Date: 20-JUL-2000 13:37
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-158-6

Instrument: 71.1
Operator: 045183
Column diameter: 2.00

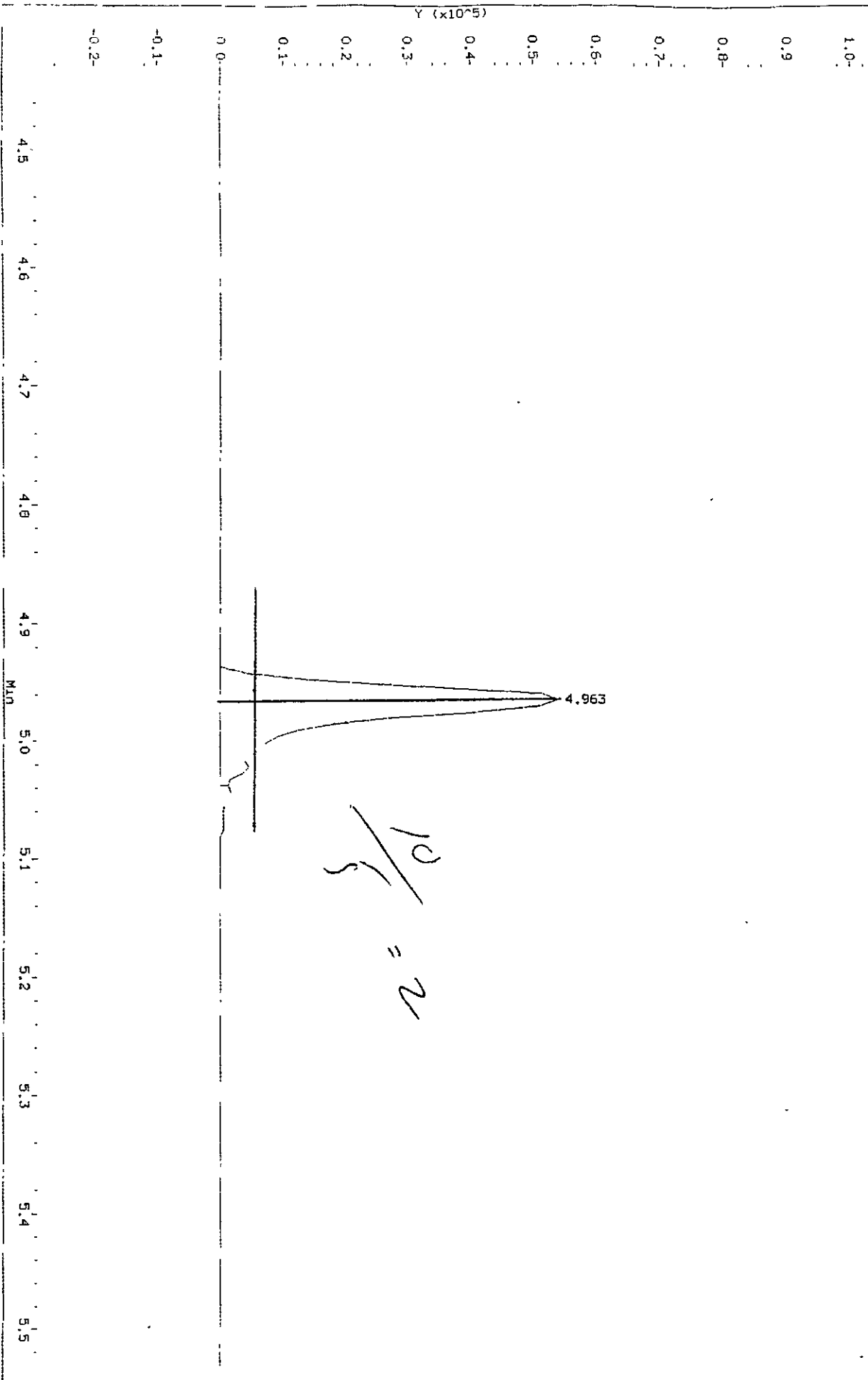
\\QP1TP02\chem\71.1\5072000.b\50720DF2.D

Column phase:



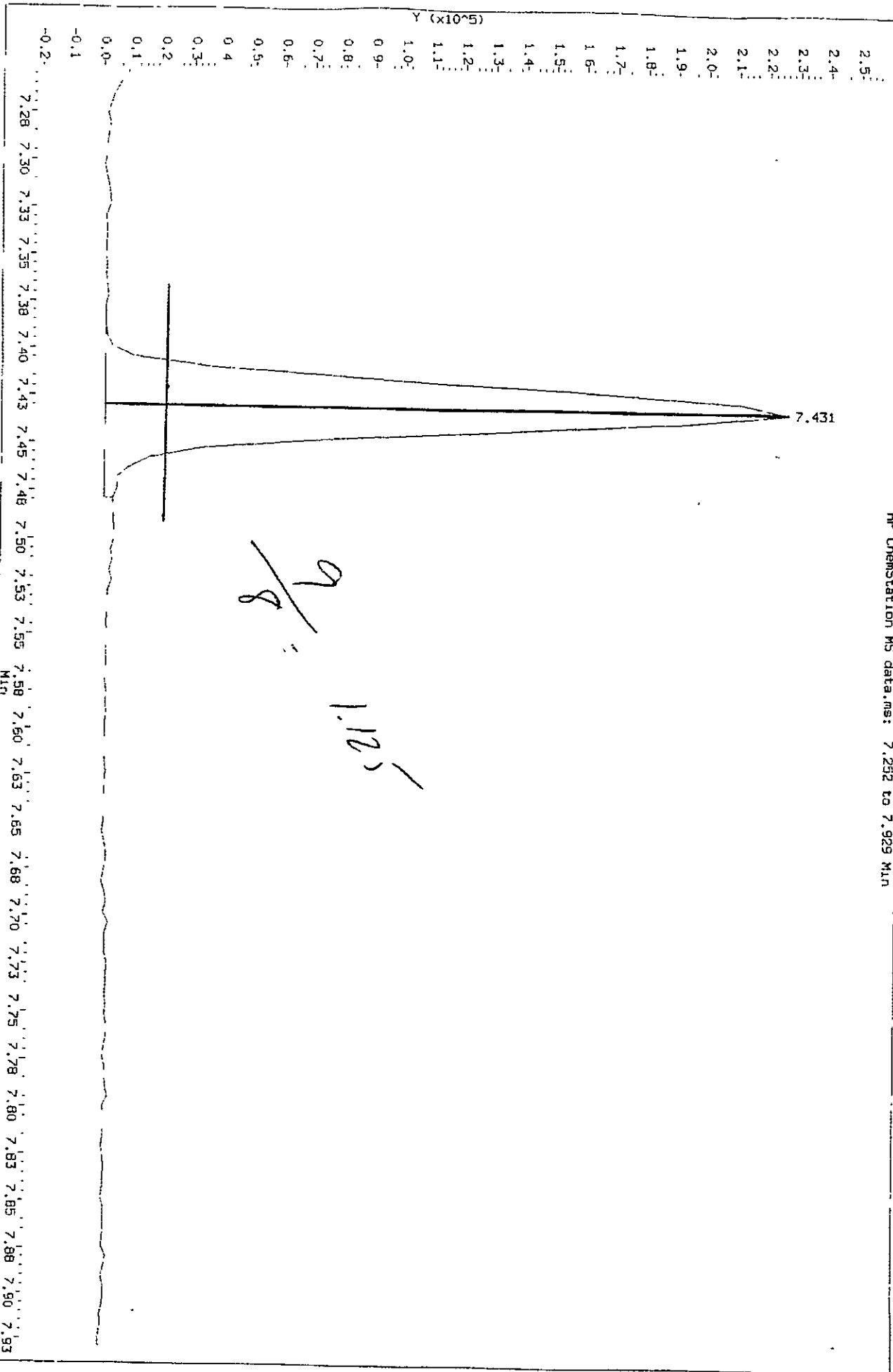
Data File: \\qpltpa02\dychem\71.1\8072000.b\50720DF2.D
Injection Date: 20-JUL-2000 13:37
Instrument: 71.1
Client Sample ID: DF1PF02

HP ChemStation NS data.ms: 4.430 to 5.531 MIN



Data File: \Ndp1tpa02\chem\71.1\5072000.B\50720DF2.D
Injection Date: 20-JUL-2000 13:37
Instrument: 71.1
Client Sample ID: DFTFP02

HP ChemStation MS data.ms: 7.292 to 7.929 Min



6641160

Date : 25-JUL-2000 11:55

Client ID: DFTPP02

Instrument: 71.1

664 1161

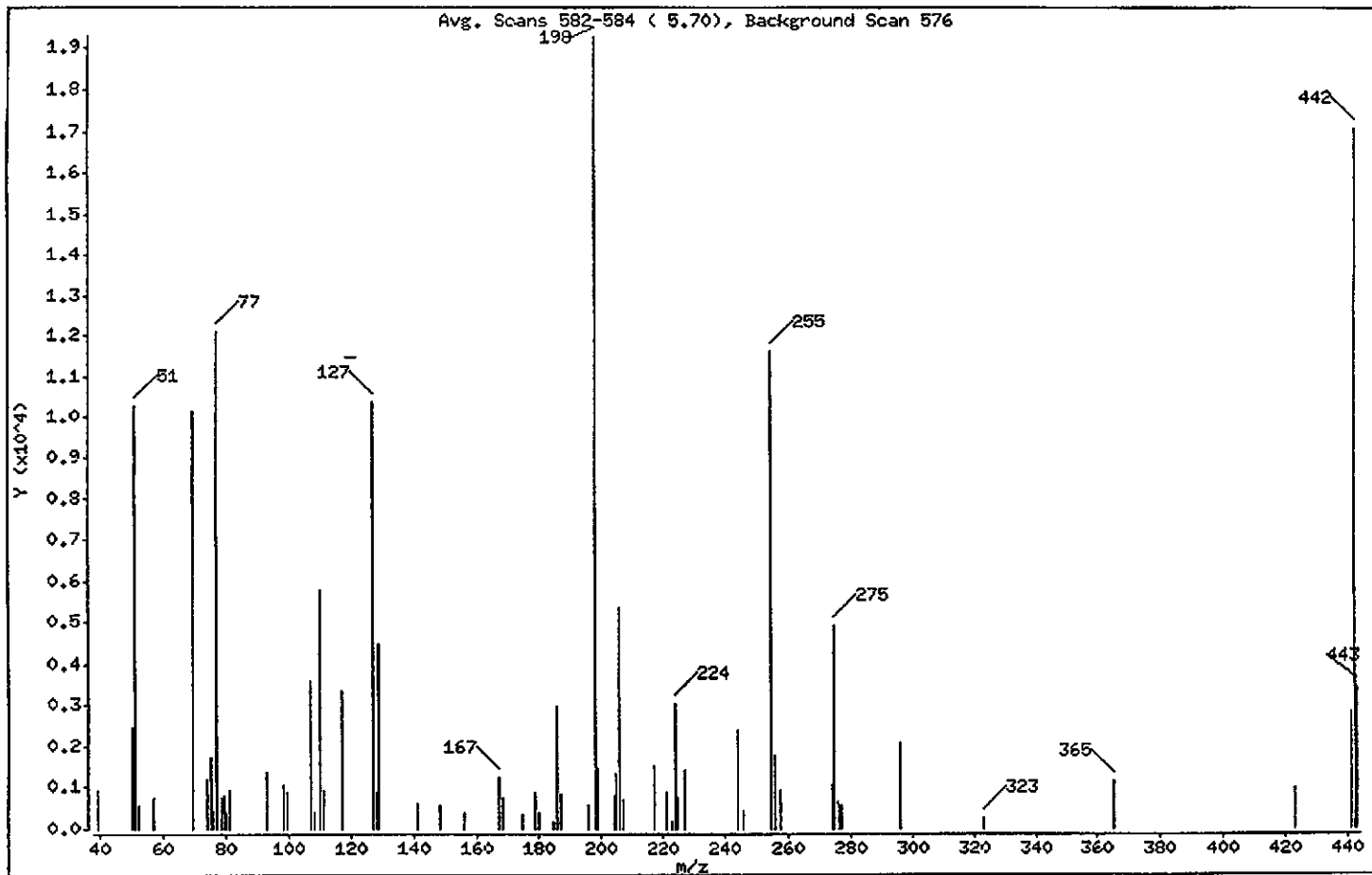
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.40
68	Less than 2.00% of mass 69	0.00 < 0.00
69	Mass 69 relative abundance	52.59
70	Less than 2.00% of mass 69	0.00 < 0.00
127	40.00 - 60.00% of mass 198	53.87
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.63
275	10.00 - 30.00% of mass 198	25.53
365	Greater than 1.00% of mass 198	6.05
441	Present, but less than mass 443	14.61
442	Greater than 40.00% of mass 198	88.43
443	17.00 - 23.00% of mass 442	17.94 < 20.29

Date : 25-JUL-2000 11:55

Client ID: DFTPP02

Instrument: 71.1

664 1162

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

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0725DF2.D

Spectrum: Avg. Scans 582-584 (5.70), Background Scan 576

Location of Maximum: 198.00

Number of points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	914	107.00	3579	186.00	2967	255.00	11596
50.00	2504	108.00	408	187.00	861	256.00	1775
51.00	10300	110.00	5770	196.00	573	258.00	947
52.00	563	111.00	949	198.00	19288	274.00	1051
57.00	747	117.00	3382	199.00	1471	275.00	4924
69.00	10145	127.00	10392	204.00	811	276.00	680
74.00	1176	128.00	900	205.00	1345	277.00	596
75.00	1718	129.00	4465	206.00	5381	296.00	2087
76.00	461	141.00	604	207.00	721	323.00	260
77.00	12126	148.00	587	217.00	1528	365.00	1167
78.00	763	156.00	388	221.00	905	423.00	996
79.00	813	167.00	1231	223.00	167	441.00	2818
80.00	377	168.00	761	224.00	3067	442.00	17056
81.00	941	175.00	338	225.00	753	443.00	3461
93.00	1395	179.00	895	227.00	1403		
98.00	1053	180.00	410	244.00	2413		
99.00	896	185.00	169	246.00	424		

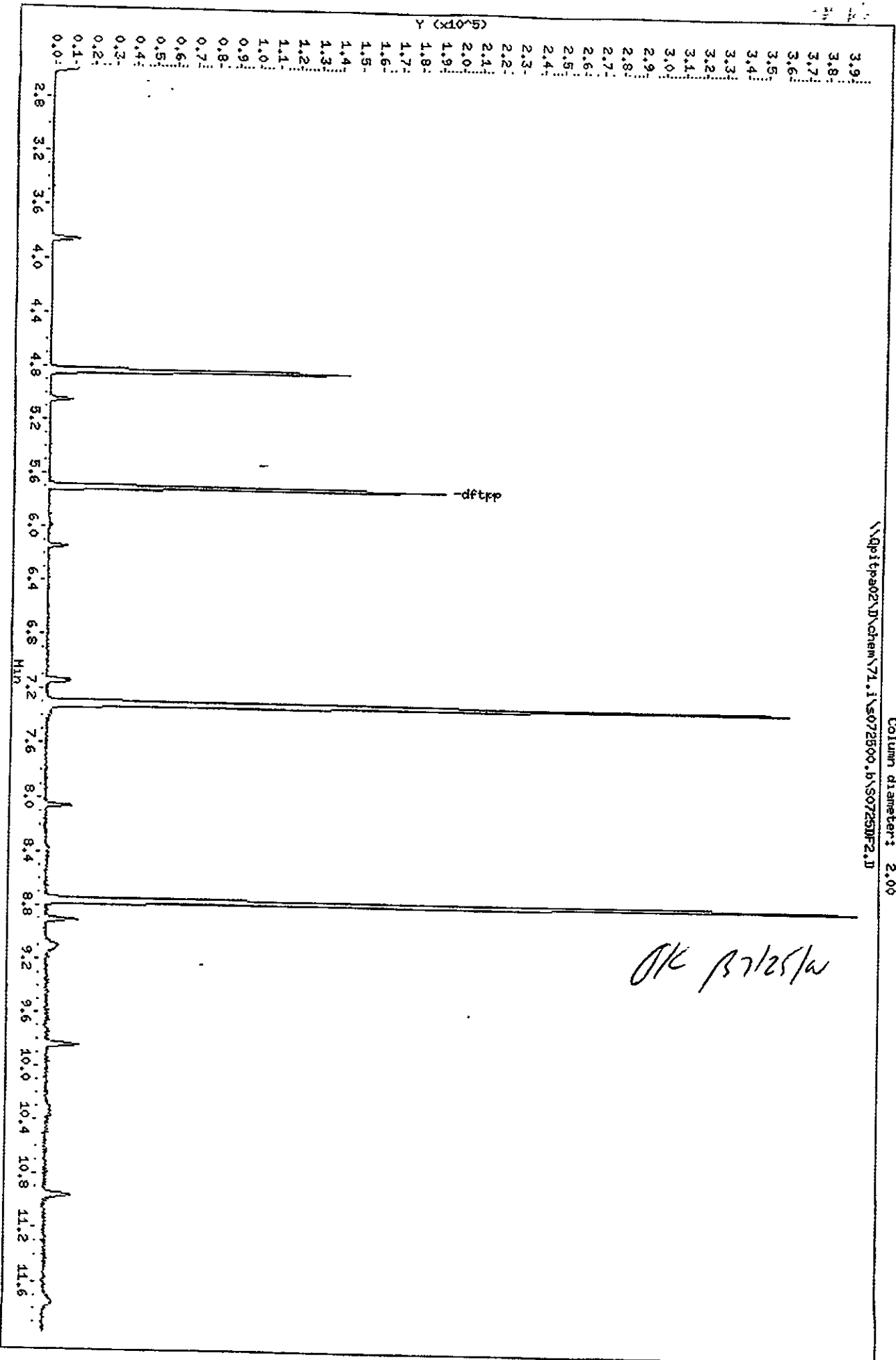
Data File: \\Aptppa02\chem\74.1\5072500.b\5072500F2.D
Date: 25-JUL-2000 14:55
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppm) 194-158-6

Instrument: 71.1

Column phase:

Operator: 045183
Column diameter: 2.00

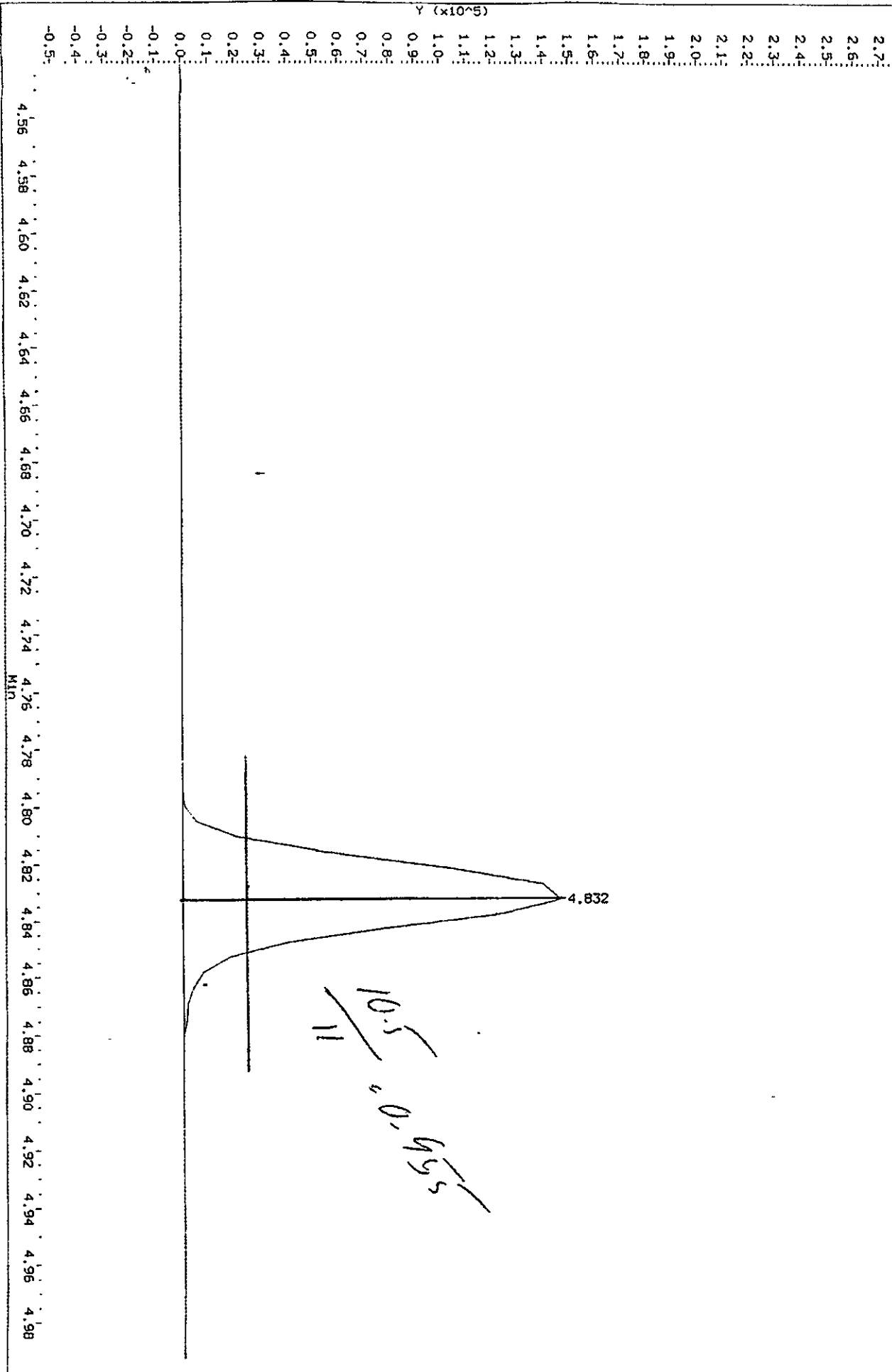
\\Aptppa02\chem\74.1\5072500.b\5072500F2.D



6611699

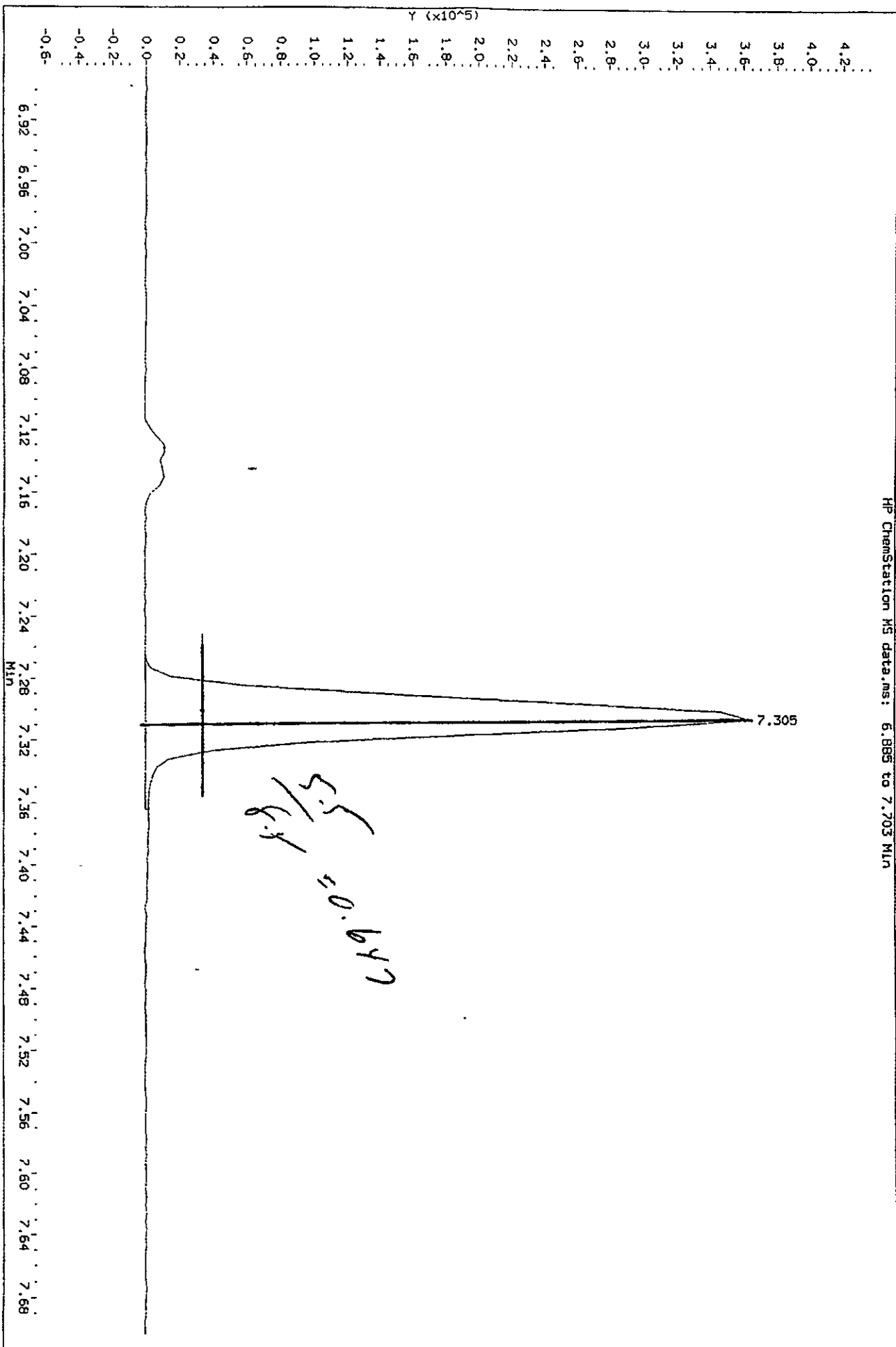
Data File: \\D:\tpa02\chem\71.1\5072500.b\5072502.D
Injection Date: 25-JUL-2000 11:55
Instrument: 71.1
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 4.541 to 4.993 MIN



Data File: \\D:\tpa02\ND\chem\1.1\8072500.b\8072500F2.D
Injection Date: 25-JUL-2000 11:55
Instrument: 71.1
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 6.885 to 7.703 Min



6641165

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

664 1166

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

Matrix: (soil/water) WATER Lab Sample ID: COG210000 319
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00
Work Order: DGL2M101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/25/00
Moisture %: NA

QC Batch: 0203319

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

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

Matrix: (soil/water) WATER Lab Sample ID: C0G210000 319
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/20/00
Work Order: DGL2M101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/25/00
Moisture %: NA

QC Batch: 0203319

Client Sample Id: INTRA-LAB BLANK

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

664 1168

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
 Matrix: (soil/water) WATER Lab Sample ID: COG210000 319
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 07/20/00
 Work Order: DGL2M101 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: NA
 Client Sample Id: INTRA-LAB BLANK QC Batch: 0203319

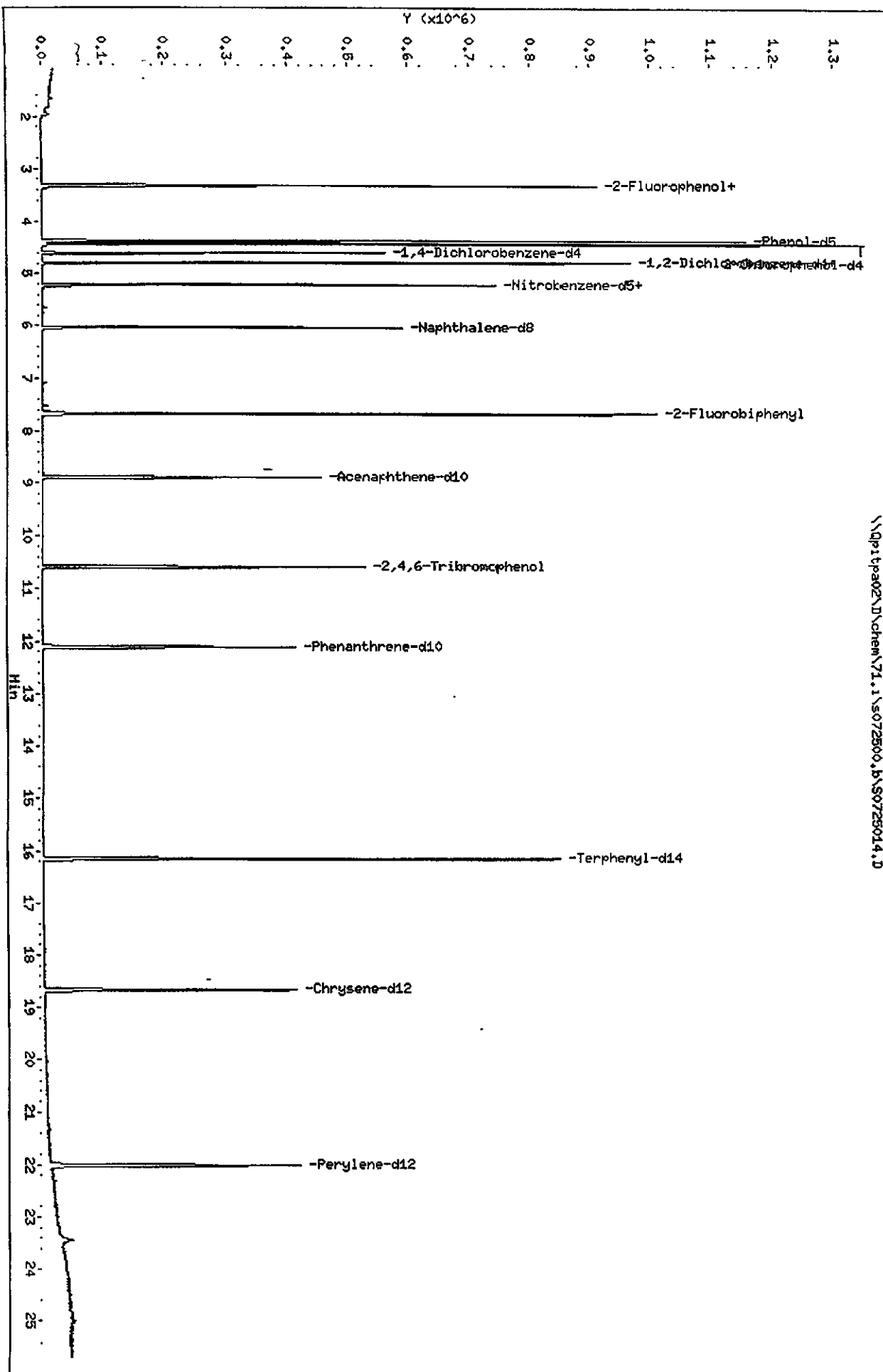
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol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

FORM I

Data File: \\dq1tpa02\chem\71.1\5072500.b\50725014.D
 Date: 25-JUL-2000 12:44
 Client ID: INTRA-LAB BLANK
 Sample Info: c0g200133-sblk 7/21/00 8270c h2o
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 045183
 Column diameter: 0.25

\\dq1tpa02\chem\71.1\5072500.b\50725014.D



664 1170

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072500.b\S0725014.D
 Lab Smp Id: DGL2M101 Client Smp ID: INTRA-LAB BLANK
 Inj Date : 25-JUL-2000 12:44
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0g200133-sblk 7/21/00 8270c h20
 Misc Info : dgl2m101,s072500.b,8270clp.m,1-82701.sub
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s072500.b\8270clp.m
 Meth Date : 25-Jul-2000 13:31 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
 Als bottle: 10 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	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

57/25/00

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.603	4.597	(1.000)	85814	40.0000	
* 2 Naphthalene-d8	136	6.035	6.023	(1.000)	330103	40.0000	
* 3 Acenaphthene-d10	164	8.898	8.881	(1.000)	179203	40.0000	
* 4 Phenanthrene-d10	188	12.109	12.097	(1.000)	318070	40.0000	
* 5 Chrysene-d12	240	18.664	18.657	(1.000)	312894	40.0000	
* 6 Perylene-d12	264	22.008	21.996	(1.000)	353611	40.0000	
13 N-Nitrosodimethylamine	74						Compound Not Detected
10 Pyridine	79						Compound Not Detected
19 Methyl methanesulfonate	80						Compound Not Detected.
22 Aniline	93						Compound Not Detected.
23 Phenol	94						Compound Not Detected.
24 bis(2-Chloroethyl)ether	93						Compound Not Detected.
25 2-Chlorophenol	128						Compound Not Detected.

664 1171

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (ug/L)
27 1,3-Dichlorobenzene	146					Compound Not Detected.		
28 1,4-Dichlorobenzene	146					Compound Not Detected		
29 1,2-Dichlorobenzene	146					Compound Not Detected		
30 Benzyl Alcohol	108					Compound Not Detected		
31 2-Methylphenol	108					Compound Not Detected		
32 2,2'-oxybis(1-Chloropropane)	45					Compound Not Detected		
33 N-Nitroso-di-n-propylamine	70					Compound Not Detected		
35 4-Methylphenol	108					Compound Not Detected		
38 Hexachloroethane	117					Compound Not Detected.		
39 Nitrobenzene	77					Compound Not Detected		
44 Isophorone	82					Compound Not Detected		
45 2-Nitrophenol	139					Compound Not Detected.		
46 2,4-Dimethylphenol	107					Compound Not Detected.		
47 bis(2-Chloroethoxy)methane	93					Compound Not Detected.		
51 2,4-Dichlorophenol	162					Compound Not Detected.		
52 Benzoic Acid	122					Compound Not Detected.		
53 1,2,4-Trichlorobenzene	179					Compound Not Detected.		
54 Naphthalene	128					Compound Not Detected.		
55 4-Chloroaniline	127					Compound Not Detected.		
59 Hexachlorobutadiene	224					Compound Not Detected.		
62 4-Chloro-3-Methylphenol	107					Compound Not Detected		
65 2-Methylnaphthalene	142					Compound Not Detected.		
66 1-Methylnaphthalene	142					Compound Not Detected.		
67 Hexachlorocyclopentadiene	236					Compound Not Detected.		
69 2,4,6-Trichlorophenol	196					Compound Not Detected.		
70 2,4,5-Trichlorophenol	196					Compound Not Detected		
73 2-Chloronaphthalene	162					Compound Not Detected		
77 2-Nitroaniline	65					Compound Not Detected		
80 Dimethylphthalate	163					Compound Not Detected.		
82 2,6-Dinitrotoluene	165					Compound Not Detected		
83 Acenaphthylene	152					Compound Not Detected.		
85 3-Nitroaniline	138					Compound Not Detected		
86 Acenaphthene	153					Compound Not Detected.		
87 2,4-Dinitrophenol	184					Compound Not Detected		
89 4-Nitrophenol	109					Compound Not Detected.		
90 Dibenzofuran	168					Compound Not Detected.		
91 2,4-Dinitrotoluene	165					Compound Not Detected.		
95 2,3,5,6-Tetrachlorophenol	231					Compound Not Detected.		
92 2,3,4,6-Tetrachlorophenol	231					Compound Not Detected.		
96 2-Naphthylamine	143					Compound Not Detected.		
97 Diethylphthalate	149					Compound Not Detected.		
98 Fluorene	166					Compound Not Detected.		
99 4-Chlorophenyl-phenylether	204					Compound Not Detected		
100 4-Nitroaniline	138					Compound Not Detected.		
102 4,6-Dinitro-2-methylphenol	198					Compound Not Detected.		
103 N-Nitrosodiphenylamine (1)	169					Compound Not Detected.		
104 1,2-Diphenylhydrazine	77					Compound Not Detected		

664 1172

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
112 4-Bromophenyl-phenylether	248				Compound Not Detected		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
122 Phenanthrene	178				Compound Not Detected.		
123 Anthracene	178				Compound Not Detected.		
126 Carbazole	167				Compound Not Detected.		
130 Di-n-Butylphthalate	149				Compound Not Detected.		
135 Fluoranthene	202				Compound Not Detected.		
136 Benzidine	184				Compound Not Detected.		
137 Pyrene	202				Compound Not Detected.		
144 Butylbenzylphthalate	149				Compound Not Detected		
149 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
150 Benzo(a)Anthracene	228				Compound Not Detected.		
151 Chrysene	228				Compound Not Detected.		
153 bis(2-ethylhexyl) Phthalate	149				Compound Not Detected.		
155 Di-n-octylphthalate	149				Compound Not Detected.		
157 Benzo(b)fluoranthene	252				Compound Not Detected.		
158 Benzo(k)fluoranthene	252				Compound Not Detected.		
159 7,12-dimethylbenz(a)anthracen	256				Compound Not Detected		
167 Benzo(a)pyrene	252				Compound Not Detected		
169 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
170 Dibenz(a,h)anthracene	278				Compound Not Detected		
171 Benzo(g,h,i)perylene	276				Compound Not Detected		
\$ 172 Nitrobenzene-d5	82	5.223	5.216	(0.865)	283457	71.4185	35.709
\$ 173 2-Fluorobiphenyl	172	7.675	7.663	(0.863)	439157	75.2658	37.633
\$ 174 Terphenyl-d14	244	16.153	16.136	(0.865)	588941	93.4633	46.732
\$ 175 Phenol-d5	99	4.368	4.361	(0.949)	428997	111.509	55.754
\$ 176 2-Fluorophenol	112	3.316	3.314	(0.720)	296183	102.558	51.279
\$ 177 2,4,6-Tribromophenol	330	10.597	10.580	(0.875)	100873	126.228	63.114
\$ 178 2-Chlorophenol-d4	132	4.427	4.420	(0.962)	333290	123.539	61.770
\$ 179 1,2-Dichlorobenzene-d4	152	4.796	4.789	(1.042)	141729	75.8824	37.941

664 1173

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072500.b\S0725014.D
Lab Smp Id: DGL2M101 Client Smp ID: INTRA-LAB BLANK
Inj Date : 25-JUL-2000 12:44
Operator : 045183 Inst ID: 71.i
Smp Info : c0g200133-sblk 7/21/00 8270c h20
Misc Info : dgl2m101,s072500.b,8270clp.m,1-82701.sub
Comment :
Method : \\QPITPA02\D\chem\71.i\s072500.b\8270clp.m
Meth Date : 25-Jul-2000 13:31 bachas Quant Type: ISTD
Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4:04
Processing Host: PITPC050

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

664 1174

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
 Matrix: (soil/water) WATER Lab Sample ID: COG210000 319
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 07/20/00
 Work Order: DGL2M102 Date Extracted: 07/21/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: NA
 Client Sample Id: CHECK SAMPLE QC Batch: 0203319

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	34.5	Q
59-50-7	4-Chloro-3-methylphenol	52.6	
95-57-8	2-Chlorophenol	48.8	
106-46-7	1,4-Dichlorobenzene	32.0	
121-14-2	2,4-Dinitrotoluene	39.5	
100-02-7	4-Nitrophenol	62.1	
621-64-7	N-Nitrosodi-n-propylamine	30.0	
87-86-5	Pentachlorophenol	66.5	
108-95-2	Phenol	47.1	
129-00-0	Pyrene	42.8	
120-82-1	1,2,4-Trichlorobenzene	33.1	

FORM I

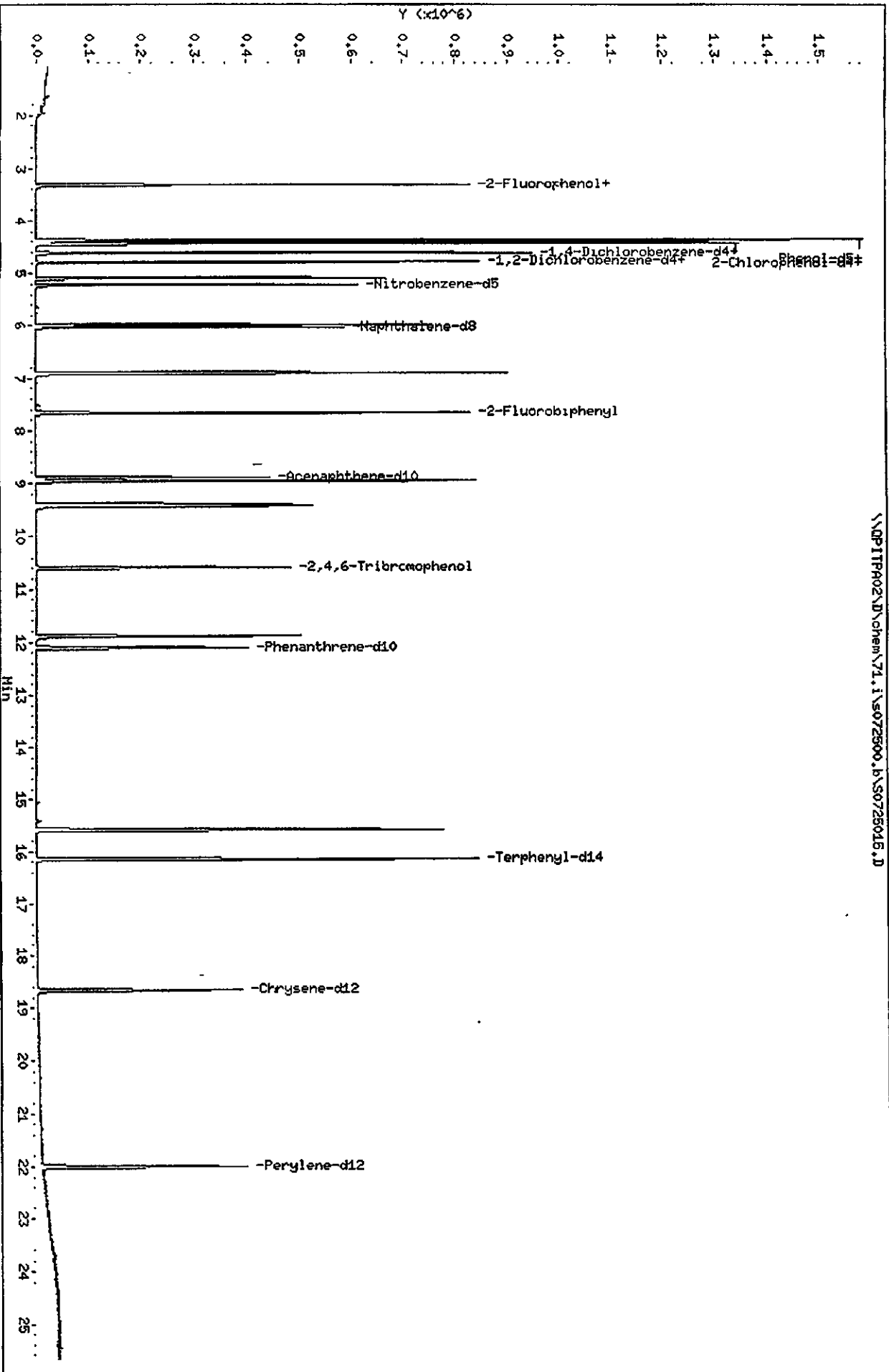
Data File: \\NPITPA02\chem\71.1\5072500.b\50725015.D
 Date: 25-JUL-2000 13:16
 Client ID: INTRA-LAB CHECK
 Sample Info: 008200133-1cs 7/21/00 8270c h2o
 Volume Injected (uL): 2.0
 Column phase: Hp8-HS

Instrument: 71.1
 Operator: 045183
 Column diameter: 0.25

\\NPITPA02\chem\71.1\5072500.b\50725015.D

664 1175

Page 3



664 1176

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\71.i\s072500.b\S0725015.D
 Lab Smp Id: DGL2M102 Client Smp ID: INTRA-LAB CHECK
 Inj Date : 25-JUL-2000 13:16
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0g200133-lcs 7/21/00 8270c h20
 Misc Info : dgl2m102,s072500.b,8270clp.m,1-82701.sub
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s072500.b\8270clp.m
 Meth Date : 25-Jul-2000 13:31 bachas Quant Type: ISTD
 Cal Date : 20-JUL-2000 16:02 Cal File: S0720CC5.D
 Als bottle: 11 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 47.04
 Processing Host: PITPC050

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

3/2/00

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	4.603	4.597	(1.000)	84101	40.0000	
* 2 Naphthalene-d8	136	6.029	6.023	(1.000)	314752	40.0000	
* 3 Acenaphthene-d10	164	8.892	8.881	(1.000)	170903	40.0000	
* 4 Phenanthrene-d10	188	12.103	12.097	(1.000)	307821	40.0000	
* 5 Chrysene-d12	240	18.658	18.657	(1.000)	305886	40.0000	
* 6 Perylene-d12	264	21.997	21.996	(1.000)	343311	40.0000	
13 N-Nitrosodimethylamine	74				Compound Not Detected.		
10 Pyridine	79				Compound Not Detected		
19 Methyl methanesulfonate	80				Compound Not Detected.		
22 Aniline	93				Compound Not Detected		
23 Phenol	94	4.378	4.372	(0.951)	384918	94.1239	47.062
24 bis(2-Chloroethyl) ether	93				Compound Not Detected		
25 2-Chlorophenol	128	4.442	4.436	(0.965)	287294	97.6950	48.848
27 1,3-Dichlorobenzene	146				Compound Not Detected.		

664 1177

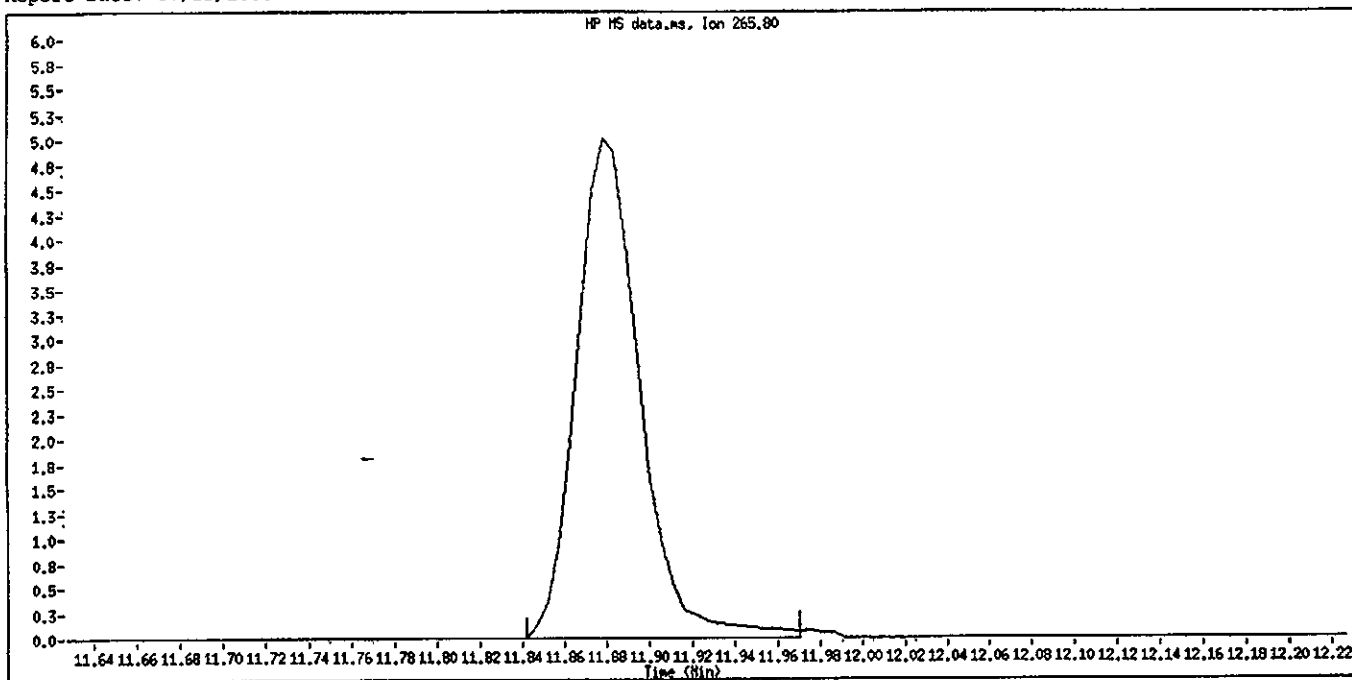
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
28 1,4-Dichlorobenzene	146	4.619	4.613	(1.003)	211339	63.9632	31.982
29 1,2-Dichlorobenzene	146	Compound Not Detected.					
30 Benzyl Alcohol	108	Compound Not Detected.					
31 2-Methylphenol	108	Compound Not Detected.					
32 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
33 N-Nitroso-di-n-propylamine	70	5.094	5.088	(1.107)	162653	59.9849	29.992
35 4-Methylphenol	108	Compound Not Detected.					
38 Hexachloroethane	117	Compound Not Detected.					
39 Nitrobenzene	77	Compound Not Detected.					
44 Isophorone	82	Compound Not Detected.					
45 2-Nitrophenol	139	Compound Not Detected.					
46 2,4-Dimethylphenol	107	Compound Not Detected.					
47 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
51 2,4-Dichlorophenol	162	Compound Not Detected.					
52 Benzoic Acid	122	Compound Not Detected.					
53 1,2,4-Trichlorobenzene	180	5.981	5.975	(0.992)	153034	66.1704	33.085
54 Naphthalene	128	Compound Not Detected.					
55 4-Chloroaniline	127	Compound Not Detected.					
59 Hexachlorobutadiene	224	Compound Not Detected.					
62 4-Chloro-3-Methylphenol	107	6.900	6.904	(1.144)	273417	105.116	52.558
65 2-Methylnaphthalene	142	Compound Not Detected.					
66 1-Methylnaphthalene	142	Compound Not Detected.					
67 Hexachlorocyclopentadiene	236	Compound Not Detected.					
69 2,4,6-Trichlorophenol	196	Compound Not Detected.					
70 2,4,5-Trichlorophenol	196	Compound Not Detected.					
73 2-Chloronaphthalene	162	Compound Not Detected.					
77 2-Nitroaniline	65	Compound Not Detected.					
80 Dimethylphthalate	163	Compound Not Detected.					
82 2,6-Dinitrotoluene	165	Compound Not Detected.					
83 Acenaphthylene	152	Compound Not Detected.					
85 3-Nitroaniline	138	Compound Not Detected.					
86 Acenaphthene	153	8.951	8.945	(1.007)	346044	69.0336	34.517
87 2,4-Dinitrophenol	184	Compound Not Detected.					
89 4-Nitrophenol	109	9.389	9.388	(1.056)	121661	124.163	62.082
90 Dibenzofuran	168	Compound Not Detected.					
91 2,4-Dinitrotoluene	165	9.427	9.420	(1.060)	129149	78.9276	39.464
95 2,3,5,6-Tetrachlorophenol	231	Compound Not Detected.					
92 2,3,4,6-Tetrachlorophenol	231	Compound Not Detected.					
96 2-Naphthylamine	143	Compound Not Detected.					
97 Diethylphthalate	149	Compound Not Detected.					
98 Fluorene	166	Compound Not Detected.					
99 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
100 4-Nitroaniline	138	Compound Not Detected.					
102 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
103 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
104 1,2-Diphenylhydrazine	77	Compound Not Detected.					
112 4-Bromophenyl-phenylether	248	Compound Not Detected.					

664 1178

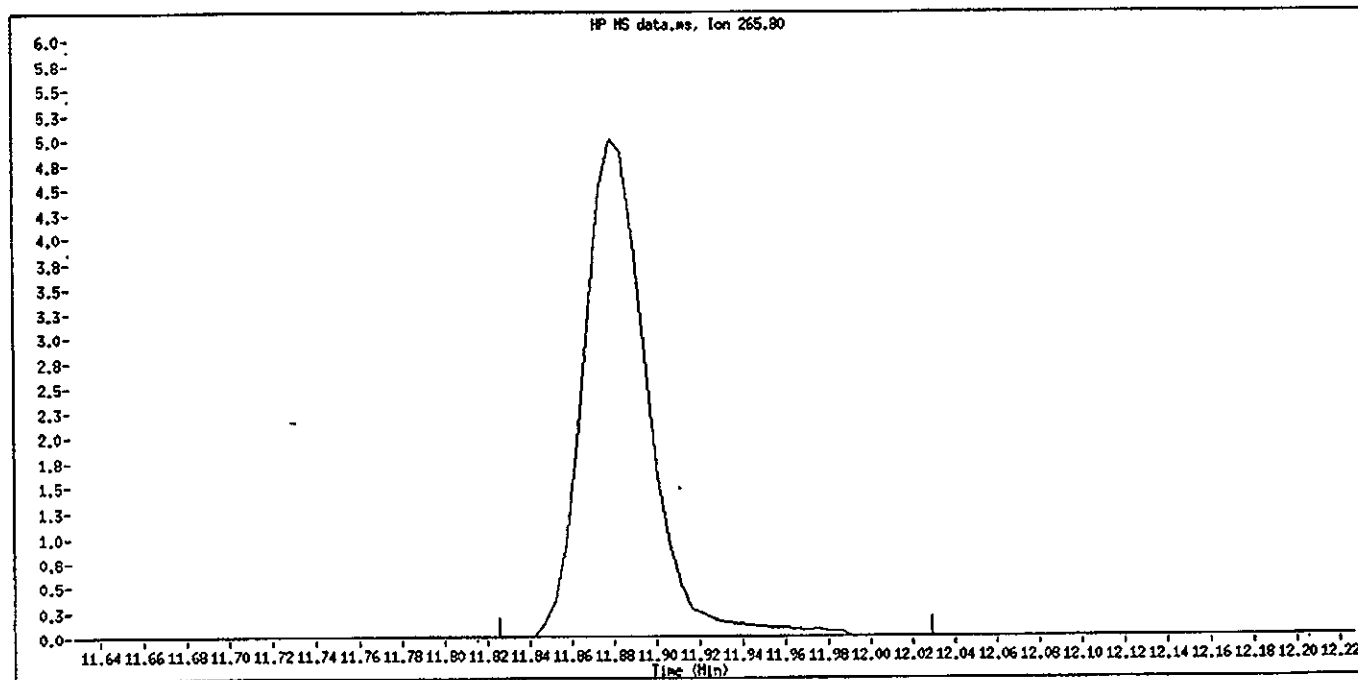
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
113 Hexachlorobenzene	283				Compound Not Detected		
117 Pentachlorophenol	266	11.879	11.872	(0.981)	104200	132.951	66.475 (M)
122 Phenanthrene	178				Compound Not Detected		
123 Anthracene	178				Compound Not Detected.		
126 Carbazole	167				Compound Not Detected.		
130 Di-n-Butylphthalate	149				Compound Not Detected.		
135 Fluoranthene	202				Compound Not Detected.		
136 Benzidine	184				Compound Not Detected.		
137 Pyrene	202	15.586	15.575	(0.835)	699427	85.5268	42.763
144 Butylbenzylphthalate	149				Compound Not Detected		
149 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
150 Benzo(a)Anthracene	228				Compound Not Detected.		
151 Chrysene	228				Compound Not Detected.		
153 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
155 Di-n-octylphthalate	149				Compound Not Detected.		
157 Benzo(b)fluoranthene	252				Compound Not Detected.		
158 Benzo(k)fluoranthene	252				Compound Not Detected		
159 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
167 Benzo(a)pyrene	252				Compound Not Detected.		
169 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected		
170 Dibenz(a,h)anthracene	278				Compound Not Detected.		
171 Benzo(g,h,i)perylene	276				Compound Not Detected		
\$ 172 Nitrobenzene-d5	82	5.222	5.216	(0.866)	239380	63.2547	31.627
\$ 173 2-Fluorobiphenyl	172	7.669	7.663	(0.862)	370444	66.5727	33.286
\$ 174 Terphenyl-d14	244	16.147	16.136	(0.865)	569078	92.3801	46.190
\$ 175 Phenol-d5	99	4.368	4.361	(0.949)	372535	98.8052	49.402
\$ 176 2-Fluorophenol	112	3.315	3.314	(0.720)	265496	93.8047	46.902
\$ 177 2,4,6-Tribromophenol	330	10.591	10.580	(0.875)	87069	112.582	56.291
\$ 178 2-Chlorophenol-d4	132	4.426	4.420	(0.962)	286760	108.457	54.228
\$ 179 1,2-Dichlorobenzene-d4	152	4.795	4.789	(1.042)	120811	66.0003	33.000

QC Flag Legend

M - Compound response manually integrated.



Original Integration



Manual Integration

Manually Integrated By: Bachas

Manual Integration Reason: Poor Chromatography

664 1180

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

2811799

Continuous L-L Extraction Worksheet



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

Began		7/21/2002	Time 11:20	Prep Meth # 3530C		NaOH 0090-09	Solvent Mecl a	Solvent Lot # 108286	NaOH Lot Number T23625	Clean up Method N/A			
Change over		7/22/2002	Time 14:10	Analysis 8270		Extract Vol (mL)	Final Volume mL	pH	Surrogate Lot # 194-179-6	Surrogate Vol (mL) 0.5	Matrix Spike Lot # N/A	MS Vol (mL) N/A	Cleanup Inhibitor N/A
Completed	7:25:00	Time 0945	Analysis 8270	Client ID	NaOH 0090-09	Solvent Mecl a	Solvent Lot # 108286	NaOH Lot Number T23625	Clean up Method N/A				
Lot Number	Sample ID	Client ID	Extract Vol (mL)	Final Volume mL	pH	Surrogate Lot #	Surrogate Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Inhibitor			
1. C0G200279	RIK	N/A	1000	1.0	5/2/11	194-179-6	0.5	N/A	0.5	N/A			
2	LES				7/2/11			194-179-12	0.5				
3.	MS (004)				7/2/11			N/A	N/A				
4	MSD (004)				7/2/11			N/A	N/A				
5.	001				7/2/11								
6	002				7/2/11								
7.	003				7/2/11								
8.	004				7/2/11								
9.	005				7/2/11								
10	C0G200210	001		1.0	7/2/11								
11.	C0G200187	001		2.0	7/2/11								
12.	002			1.0	7/2/11								
13.	C0G200133	006			7/2/11								
14.	007				7/2/11								
15.	H0G200151	001			7/2/11								
16.	002				7/2/11								
17.	003				7/2/11								
18.	H0G200206	001			7/2/11								
19.	003			1.0	7/2/11								
20.													
21.													
22.													
23.													

Extract(s)		WT	Extract(s) Received		WT	KG	Extract(s) Retriumphed		SM	WT	SM	WT	Location
(Record line number from above)		Date	Time	Analyst	Location	Date	Time	Analyst	Location	Date	Time	Analyst	Location
All Above		7-24-00	0950	Ke...	Lab	7-24-00	1000	Ke...	Lab	7-24-00	1000	Ke...	Lab
All Above		7-25-00	0900	Ke...	Lab	7-25-00	0945	Ke...	Lab	7-25-00	0945	Ke...	Lab
Batch Number: 0203319													

6641183

Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)

Operator: 045183

Data Path: D:\HPCHEM\1\DATA\s072500.b\

Pre-Seq Cmd:

Post-Seq Cmd:

Handwritten signature
E/S 194-177-5
E27U

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

Handwritten: 7/25/00

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	S0725DF1	DFTPP1	DFTPP050 (25ppb) 194-158-6
2	Sample	1	S0725DF2	DFTPP1	DFTPP050 (25ppb) 194-158-6
3	Sample	2	S0725CC1	EARLY	sstd50(25 ug/ml) 194-182-1 82
4	Sample	10	S0725014	EARLY	c0g200133-sblk 7/21/00 8270c <i>H₂O</i>
5	Sample	11	S0725015	EARLY	c0g200133-lcs 7/21/00 8270c <i>h₂O</i>
6	Sample	12	S0725016	EARLY	c0g200133-006 7/21/00 8270c h
7	Sample	13	S0725017	EARLY	c0g200133-007 7/21/00 8270c h
8	Sample	14	S0725018	EARLY	c0g200210-001 7/21/00 8270c h
9	Sample	3	S0725007	EARLY	c0g240175-sblk 7/25/00 8270c <i>soils</i>
10	Sample	4	S0725008	EARLY	c0g240175-lcs 7/25/00 8270c s
11	Sample	16	S0725020	EARLY	c0g200187-002 x5 7/21/00 8270 <i>H₂O</i>
12	Sample	15	S0725019	EARLY	c0g200187-001 x100 fv=2ml 7/2 <i>7/20</i>
13	Sample	5	S0725009	EARLY	c0g240175-001 7/25/00 8270c <i>sols</i>
14	Sample	6	S0725010	EARLY	c0g240175-001ms 7/25/00 8270c
15	Sample	7	S0725011	EARLY	c0g240175-001msd 7/25/00 8270
16	Sample	8	S0725012	EARLY	c0g240175-002 x10 7/25/00 827
17	Sample	9	S0725013	EARLY	c0g240175-003 x5 7/25/00 8270

Handwritten: Smith

REQUESTED BY: TROUTB

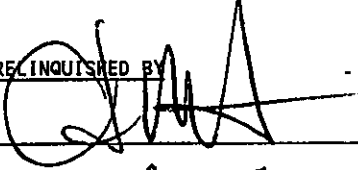
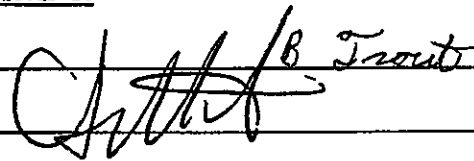
664 1184

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
8B,C	DGHAR-1-02	___	251619	378644	I-49-QL	COG200133	006		WATER	0	4 1
8B,C	DGHCO-1-02	___	251620	378644	I-49-QL	COG200133	007		WATER	0	4 1
8E CLP1	DGJOT-1-03	___	251617	059184	I-49-QL	COG200187	001		WATER	0	8 1
8E CLP1	DGJ14-1-03	___	251618	059184	I-49-QL	COG200187	002		WATER	0	8 1
8E CLP1	DGJ6M-1-02	___	251616	399411	I-49-QL	COG200210	001		WATER	0	13 1
9A,B CLP1	DGJLV-1-02	___	251611	051465	I-49-QL	COG200279	001		WATER	0	6 1
9A,B CLP1	DGJLX-1-02	___	251612	051465	I-49-QL	COG200279	002		WATER	0	6 1
9A,B CLP1	DGJM2-1-02	___	251613	051465	I-49-QL	COG200279	003		WATER	0	6 1
9A,B CLP1	DGJM4-1-04	___	251614	051465	I-49-QL	COG200279	004	QC	WATER	0	23 1
9A,B CLP1	DGJM6-1-02	___	251615	051465	I-49-QL	COG200279	005		WATER	0	7 1

HOG200151-001
 002
 003
 HOG200206 001
 003

Dumped empty sample 1 Liter Jars

RELINQUISHED BY	RECEIVED BY	DATE/TIME
 B Trout	 B Trout	7/21/2000 08:20
		7/21/2000 12:40

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

PESTICIDE DATA

664 1186

**PESTICIDE
QC SUMMARY**

2E
WATER PESTICIDE SURROGATE RECOVERY

664 1187

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C0G200210
 GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 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	PBLK1	88	90	92	58*			1
02	LCS1	86	88	89	57*			1
03	DF/S1/201/WA	82	102	87	91			0
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
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28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene ~~(20-141) 37-130~~
 S2 (DCB) = Decachlorobiphenyl ~~(62-130) 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: QESPIT

SDG No:

Lot #: C0G210000

WO #: DGM9V102

BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.221	88	49 - 137	
Heptachlor	0.250	0.210	84	57 - 124	
Aldrin	0.250	0.217	87	62 - 120	
Dieldrin	0.500	0.458	92	68 - 130	
Endrin	0.500	0.417	83	46 - 137	
4,4'-DDT	0.500	0.450	90	60 - 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

664 1189

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0G200279

WO #: DGJM4108

BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	ND	0.214	86	30 - 148	
Heptachlor	0.250	ND	0.203	81	25 - 135	
Aldrin	0.250	ND	0.208	83	19 - 131	
Dieldrin	0.500	ND	0.445	89	35 - 141	
Endrin	0.500	ND	0.450	90	28 - 148	
4,4'-DDT	0.500	ND	0.448	90	24 - 145	

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 6 outside limits

COMMENTS:

FORM III

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

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0G200279

WO #: DGJM4109

BATCH: 0203469

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
gamma-BHC (Lindane)	0.250	0.212	85	0.70	22	30 - 148	
Heptachlor	0.250	0.204	82	0.44	32	25 - 135	
Aldrin	0.250	0.209	84	0.81	33	19 - 131	
Dieldrin	0.500	0.445	89	0.020	37	35 - 141	
Endrin	0.500	0.452	90	0.33	40	28 - 148	
4,4'-DDT	0.500	0.451	90	0.82	50	24 - 145	

NOTES (S) :

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

RPD: 0 out of 6 outside limits
 Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

664 1191

PBLK1

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0G200210

Lab Sample ID: DGM9V101

Lab File ID: D-A4570

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 07/21/00

Date Analyzed (1): 07/27/00

Date Analyzed (2): 07/27/00

Time Analyzed (1): 0038

Time Analyzed (2): 0038

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column (1): DB608

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	LCS1	DGM9V102	07/27/00	07/27/00
02	DF/S1/201/WA	DGJ6M103	07/27/00	07/27/00
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

664 1192

**PESTICIDE
SAMPLE DATA**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M103

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %: NA

QC Batch: 0203469

Client Sample Id: DF/S1/201/WA/002

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	0.0049	J P
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4581.d
 Lab Smp Id: DGJ6M103 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 27-JUL-2000 08:02
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGJ6M103,4250-G.b,,PEST.sub,,,
 Misc Info : 200210001
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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 (mg/L)
5 alpha-BHC						
6 gamma-BHC (Lindane)						
7 beta-BHC	12 400	12.380	0.020	988	<0.0	0.006389(a)
9 Chlordane						
10 Heptachlor						
8 delta-BHC						
11 Aldrin						
12 Heptachlor epoxide	13 426	13 460	-0 034	1269	<0.0	0.004044(a)
13 gamma-Chlordane						
14 alpha-Chlordane						
15 Endosulfan I						
16 4,4'-DDB						
17 Dieldrin	14.586	14.586	0.000	1568	<0.0	0.004857(a)
20 Endrin						
18 Toxaphene						

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD				Compound Not Detected		
22 Endosulfan II				Compound Not Detected		
23 4,4'-DDT				Compound Not Detected		
24 Endrin aldehyde				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 1 Tetrachloro-m-xylene	5.713	5.720	-0.007	44240	0.02050	0.2050
\$ 30 Decachlorobiphenyl	20.240	20.246	-0.006	28796	0.01826	0.1826

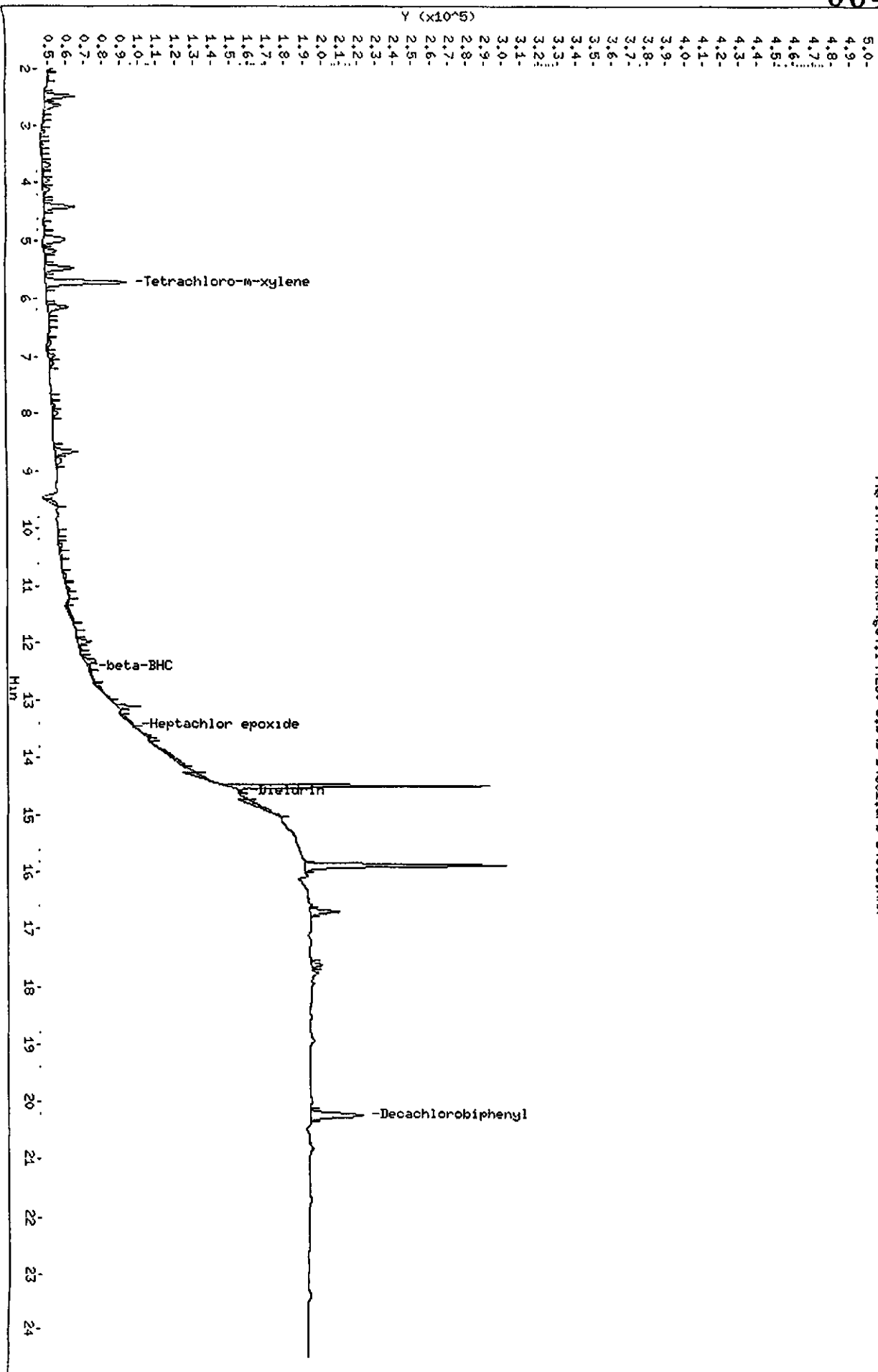
QC Flag Legend

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

Data File: \\QP1TPA02\chem\gc4.1\4250-G.b\D-B4581.d
Date: 27-JUL-2000 08:02
Client ID: DF/S1/201/MR/002
Sample Info: DCJ6H403,4250-G.b,PEST,sub,,
Volume Injected (uL): 1.0
Column phase: DB1701

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

\\QP1TPA02\chem\gc4.1\4250-G.b\D-B4581.d\J-B4581.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4581.d
 Lab Smp Id: DGJ6M103 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 27-JUL-2000 08:02
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGJ6M103,4250-G.b,,PEST.sub,,
 Misc Info : 200210001
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 10:27 matkol Quant Type: ESTD
 Cal Date : 26-JUL-2000 23:15 Cal File: D-A4567.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

Compoundo	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.653	5 660	-0 007	42221	0 01645	0.1645
5 alpha-BHC	7.946	7 940	0 006	1379	<0 0	0.004853(a)
6 gamma-BHC (Lindane)				Compound Not Detected.		
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor				Compound Not Detected.		
8 delta-BHC				Compound Not Detected.		
11 Aldrin				Compound Not Detected.		
2 Diallyte A				Compound Not Detected.		
3 Diallyte B				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane	13.666	13.646	0.020	2217	<0.0	0.009267(a)
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I	14.000	14 000	0 000	1625	<0.0	0.007438(a)
16 4,4'-DDE	14.386	14 386	0.000	4513	0.00191	0.01908(a)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
*****	==	*****	*****	*****	*****	*****
17 Dieldrin	14.513	14.526	-0.013	10243	0.00429	0.04288(a)
20 Endrin	15.100	15.106	-0.006	7828	0.00432	0.04322(a)
21 4,4'-DDD	15.273	15.240	0.033	6655	0.00365	0.03645(a)
18 Toxaphene	Compound Not Detected					
22 Endosulfan II	15.420	15.393	0.027	6369	0.00315	0.03154(a)
23 4,4'-DDT	15.700	15.746	-0.046	4707	0.00266	0.02656(a)
24 Endrin aldehyde	15.980	15.966	0.014	105105	0.06740	0.6740
26 Endosulfan sulfate	16.166	16.193	-0.027	3166	0.00210	0.02103(a)
25 Methoxychlor	Compound Not Detected					
27 Endrin ketone	Compound Not Detected.					
§ 30 Decachlorobiphenyl	21.786	21.800	-0.014	21183	0.01741	0.1741

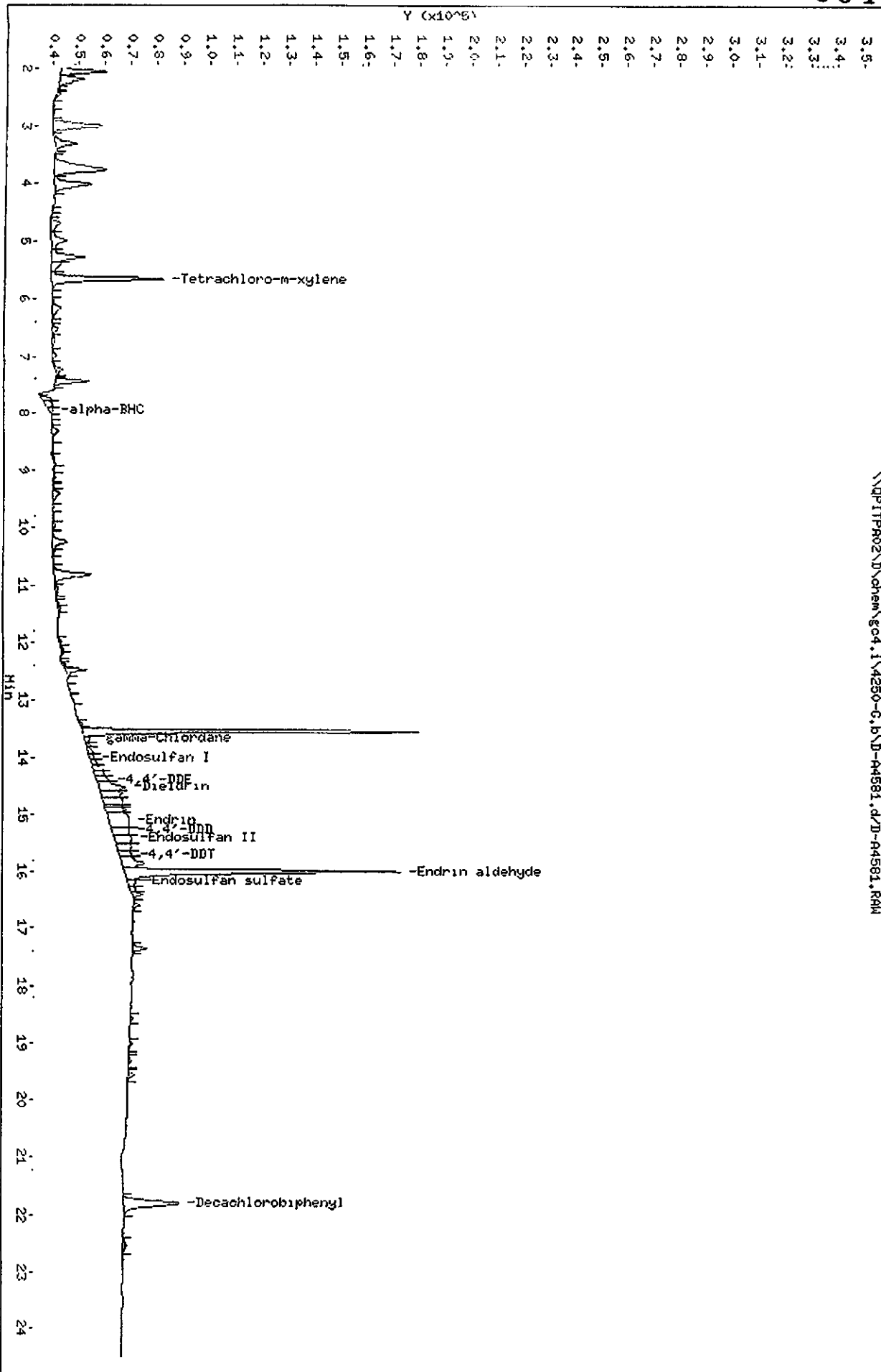
QC Flag Legend

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

Data File: \\GPITPA02\chem\gc4.1\4250-G.b\D-04581.d
 Date : 27-JUL-2000 08:02
 Client ID: DF/SL/201/MA/002
 Sample Info: DCJ6M103,4250-G.b.,PEST,sdb,,
 Volume Injected (uL): 1.0
 Column phase: DB608

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

\\GPITPA02\chem\gc4.1\4250-G.b\D-04581.d\D-04581.RAW



10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

664 1200

EPA SAMPLE NO.

DF/S1/20
 1/WA/002

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0G200210

Lab Sample ID: DGJ6M103

Date(s) Analyzed: 07/27/00 07/27/00

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Dieldrin	1	14.51	14.46	14.56	0.04288	
	2	14.59	14.54	14.64	0.004857	782.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

**PESTICIDE
CALIBRATION DATA**

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 26-Jul-2000 14:29 Number of Cnds : 31
 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
\$ 1 Tetrachloro-m-xylene	5.680	5.630-5.730	2.57e+006
2 Diallate A	7.000	6.950-7.050	
3 Diallate B	7.293	7.243-7.343	
4 HEXACHLOROBENZENE	7.440	7.390-7.490	
5 alpha-BHC	7.973	7.923-8.023	2.84e+006
6 gamma-BHC (Lindane)	9.380	9.330-9.430	2.53e+006
7 beta-BHC	9.660	9.610-9.710	1.44e+006
8 delta-BHC	11.093	11.043-11.143	2.42e+006
9 Chlordane	10.047	9.997-10.097	6.66e+004
	10.667	10.617-10.717	1.20e+005
	13.667	13.617-13.717	2.49e+005
	13.967	13.917-14.017	1.84e+005
10 Heptachlor	10.660	10.610-10.710	2.09e+006
11 Aldrin	11.813	11.763-11.863	1.95e+006
12 Heptachlor epoxide	13.327	13.277-13.377	2.26e+006
13 gamma-Chlordane	13.667	13.617-13.717	2.39e+006
14 alpha-Chlordane	13.973	13.923-14.023	2.38e+006
15 Endosulfan I	14.020	13.970-14.070	2.18e+006
16 4,4'-DDE	14.400	14.350-14.450	2.37e+006
17 Dieldrin	14.547	14.497-14.597	2.39e+006
18 Toxaphene	15.293	15.243-15.343	2.76e+004
	15.453	15.403-15.503	3.89e+004
	15.827	15.777-15.877	2.74e+004
	17.040	16.990-17.090	2.89e+004

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

Compound	RT	RT Window	RF
19 Isodrin	13.413	13.363-13.463	
20 Endrin	15.120	15.070-15.170	1.81e+006
21 4,4'-DDD	15.260	15.210-15.310	1.83e+006
22 Endosulfan II	15.413	15.363-15.463	2.02e+006
23 4,4'-DDT	15.767	15.717-15.817	1.77e+006
24 Endrin aldehyde	15.987	15.937-16.037	1.56e+006
25 Methoxychlor	17.547	17.497-17.597	7.92e+005
26 Endosulfan sulfate	16.220	16.170-16.270	1.51e+006
27 Endrin ketone	18.007	17.957-18.057	1.56e+006
28 MIREX	18.807	18.757-18.857	
29 Kepone	15.993	15.943-16.043	
58 CHLOROBENZILATE	15.780	15.730-15.830	
\$ 30 Decachlorobiphenyl	21.853	21.803-21.903	1.22e+006

Report Date : 27-Jul-2000 10:26

6D
JB 904A
DB608

664 1204

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Quant Method : ESTD Target Version : 4.04
Last Update : 27-Jul-2000 10:26 Number of Cpnds : 31
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
\$ 1 Tetrachloro-m-xylene	5.660	5.610-5.710	2.57e+006
2 Diallate A	6.900	6.850-6.950	1.00e+005
3 Diallate B	7.180	7.130-7.230	2.67e+004
4 HEXACHLOROBENZENE	7.440	7.390-7.490	
5 alpha-BHC	7.940	7.890-7.990	2.84e+006
6 gamma-BHC (Lindane)	9.347	9.297-9.397	2.53e+006
7 beta-BHC	9.627	9.577-9.677	1.44e+006
8 delta-BHC	11.060	11.010-11.110	2.42e+006
9 Chlordane	10.047	9.997-10.097	6.66e+004
	10.667	10.617-10.717	1.20e+005
	13.667	13.617-13.717	2.49e+005
	13.967	13.917-14.017	1.84e+005
10 Heptachlor	10.620	10.570-10.670	2.09e+006
11 Aldrin	11.780	11.730-11.830	1.95e+006
12 Heptachlor epoxide	13.307	13.257-13.357	2.26e+006
13 gamma-Chlordane	13.647	13.597-13.697	2.39e+006
14 alpha-Chlordane	13.953	13.903-14.003	2.38e+006
15 Endosulfan I	14.000	13.950-14.050	2.18e+006
16 4,4'-DDE	14.387	14.337-14.437	2.37e+006
17 Dieldrin	14.527	14.477-14.577	2.39e+006
18 Toxaphene	15.293	15.243-15.343	2.76e+004
	15.453	15.403-15.503	3.89e+004
	15.827	15.777-15.877	2.74e+004
	17.040	16.990-17.090	2.89e+004

Report Date : 27-Jul-2000 10:26

61)
58904A
D8608

664 1205

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

Compound	RT	RT Window	RF
19 Isodrin	13.413	13.363-13.463	2.92e+003
20 Endrin	15.107	15.057-15.157	1.81e+006
21 4,4'-DDD	15.240	15.190-15.290	1.83e+006
22 Endosulfan II	15.393	15.343-15.443	2.02e+006
23 4,4'-DDT	15.747	15.697-15.797	1.77e+006
24 Endrin aldehyde	15.967	15.917-16.017	1.56e+006
25 Methoxychlor	17.520	17.470-17.570	7.92e+005
26 Endosulfan sulfate	16.193	16.143-16.243	1.51e+006
27 Endrin ketone	17.973	17.923-18.023	1.56e+006
28 MIREX	18.807	18.757-18.857	
29 Kepone	15.993	15.943-16.043	
58 CHLOROBENZILATE	15.780	15.730-15.830	
\$ 30 Decachlorobiphenyl	21.800	21.750-21.850	1.22e+006

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2000 17:14
 End Cal Date : 25-JUL-2000 22:19
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Cal Date : 26-Jul-2000 14:29 colussyj
 Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4509.d
 Level 2: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4510.d
 Level 3: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4511.d
 Level 4: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4512.d
 Level 5: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4513.d

Compound	0 00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
2 Diallylate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Diallylate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HEXACHLOROBENZENE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 alpha-BHC	2625400	2691500	2843000	3001660	3046410	2841594	6.509
6 gamma-BHC (Lindane)	2430000	2449800	2513600	2641200	2636770	2534274	3.964
7 beta-BHC	1503600	1539200	1400960	1418580	1325030	1437474	5.929
8 delta-BHC	2137800	2293900	2387800	2641180	2648180	2421772	9.176
9 Chlordane(1)	+++++	+++++	66580	+++++	+++++	66580	0.000
(2)	+++++	+++++	119672	+++++	+++++	119672	0.000
(3)	+++++	+++++	249060	+++++	+++++	249060	0.000
(4)	+++++	+++++	184340	+++++	+++++	184340	0.000
10 Heptachlor	2114200	2104600	2032640	2082760	2115680	2089976	1.658
11 Aldrin	1807400	1892200	1871720	2072980	2093660	1947592	6.572
12 Heptachlor epoxide	2113800	2229000	2193760	2389580	2361330	2257494	5.135
13 gamma-Chlordane	2305200	2391900	2315680	2502080	2447210	2392414	3.530
14 alpha-Chlordane	2232400	2402600	2323800	2501720	2448670	2381838	4.452
15 Endosulfan I	2125600	2136500	2140560	2245960	2274510	2184626	3.203
16 4,4'-DDE	2146800	2281000	2282320	2536480	2580220	2365364	7.831
17 Dieldrin	2363800	2258200	2306520	2454000	2559720	2388448	5.038
18 Toxaphene(1)	+++++	+++++	27569	+++++	+++++	27569	0.000
(2)	+++++	+++++	38935	+++++	+++++	38935	0.000
(3)	+++++	+++++	27356	+++++	+++++	27356	0.000
(4)	+++++	+++++	28870	+++++	+++++	28870	0.000
19 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Endrin	1873000	1713200	1710400	1823960	1934750	1811062	5.453
21 4,4'-DDD	1823200	1750600	1744800	1883440	1925920	1825592	4.379

Report Date : 26-Jul-2000 14:31

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06618

664 1207

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2000 17:14
 End Cal Date : 25-JUL-2000 22:19
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Cal Date : 26-Jul-2000 14:29 colussyj
 Curve Type : Average

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
22 Endosulfan II	1895800	1991100	1935440	2125600	2149910	2019570	5.615
23 4,4'-DDT	1656800	1694500	1733120	1872300	1903620	1772068	6.193
24 Endrin aldehyde	1538600	1594400	1507200	1604280	1553090	1559514	2.572
25 Methoxychlor	791600	786200	773340	803160	805455	791951	1.655
26 Endosulfan sulfate	1379400	1444600	1441200	1606000	1657330	1505706	7.921
27 Endrin ketone	1433000	1520500	1513480	1659340	1661460	1557556	6.419
28 MIREX	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 CHLOROBENZILATE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 1 Tetrachloro-m-xylene	2836200	2725100	2535680	2453940	2284270	2567038	8.516
\$ 30 Decachlorobiphenyl	1294200	1269100	1216640	1176760	1125700	1216480	5.610

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

664 1208

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 07/25/00 07/26/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 07/25/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 1646

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Endrin	15.13	15.04	15.14	0.02441	0.02500	-2.4
4,4'-DDT	15.77	15.69	15.79	0.02437	0.02500	-2.5

4,4'-DDT % breakdown (1): ~~1.19~~ ^{1.6}

Endrin % breakdown (1): ~~9.40~~ ^{7.7}

Combined % breakdown (1): ~~10.60~~ ^{9.3}

J 7/28/00

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

664 1209

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/26/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 07/25/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 2342

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Endrin	15.12	15.04	15.14	0.02260	0.02500	-9.6
4,4'-DDT	15.77	15.69	15.79	0.02441	0.02500	-2.4

4,4'-DDT % breakdown (1): $\frac{1.9}{1.36}$ Endrin % breakdown (1): $\frac{12.7}{15.32}$
 Combined % breakdown (1): $\frac{16.69}{14.5}$

J. J. B. / w

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

664 1210

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/26/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 07/26/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 2056

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Endrin	15.11	15.04	15.14	0.02354	0.02500	-5.8
4,4'-DDT	15.75	15.69	15.79	0.02392	0.02500	-4.3

4,4'-DDT % breakdown (1): ~~2.92~~ ^{3.4} Endrin % breakdown (1): ~~12.15~~ ^{10.0}
 Combined % breakdown (1): ~~15.07~~ ^{13.4}

QABlu

Data File: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4560.d
 Report Date: 27-Jul-2000 10:21

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664 1211

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-JUL-2000 20:00
 Lab File ID: D-A4560.d Init. Cal. Date(s): 25-JUL-2000 26-JUL-2000
 Analysis Type: Init. Cal. Times: 17:14 23:15
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
\$ 1 Tetrachloro-m-xylene	2567038	2513000	0.000	-2.1	15.0
5 alpha-BHC	2841594	2817520	0.010	-0.8	15.0
6 gamma-BHC (Lindane)	2534274	2553080	0.010	0.7	15.0
10 Heptachlor	2089976	1902960	0.010	-8.9	15.0
15 Endosulfan I	2184626	2136800	0.010	-2.2	15.0
17 Dieldrin	2388448	2316320	0.010	-3.0	15.0
20 Endrin	1811062	1781160	0.010	-1.7	15.0
21 4,4'-DDD	1825592	1908080	0.010	4.5	15.0
23 4,4'-DDT	1772068	1709760	0.010	-3.5	15.0
25 Methoxychlor	791951	760820	0.010	-3.9	15.0
\$ 30 Decachlorobiphenyl	1216480	1179120	0.010	-3.1	15.0

Data File: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4561.d
Report Date: 27-Jul-2000 10:21

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DB60P

664 1212

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-JUL-2000 20:28
Lab File ID: D-A4561.d Init. Cal. Date(s): 25-JUL-2000 26-JUL-2000
Analysis Type: Init. Cal. Times: 17:14 23:15
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
11 Aldrin	1947592	1851880	0.010	-4.9	15.0
7 beta-BHC	1437474	1407000	0.010	-2.1	15.0
8 delta-BHC	2421772	2392400	0.010	-1.2	15.0
12 Heptachlor epoxide	2257494	2161200	0.010	-4.3	15.0
13 gamma-Chlordane	2392414	2262440	0.010	-5.4	15.0
14 alpha-Chlordane	2381838	2279000	0.010	-4.3	15.0
16 4,4'-DDE	2365364	2305880	0.010	-2.5	15.0
22 Endosulfan II	2019570	1916240	0.010	-5.1	15.0
24 Endrin aldehyde	1559514	1505720	0.010	-3.4	15.0
26 Endosulfan sulfate	1505706	1542760	0.010	2.5	15.0
27 Endrin ketone	1557556	1571480	0.010	0.9	15.0

Data File: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4588.d
Report Date: 27-Jul-2000 11:42

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DB608

STL Pittsburgh

664 1213

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-JUL-2000 09:00
Lab File ID: D-A4588.d Init. Cal. Date(s): 25-JUL-2000 26-JUL-2000
Analysis Type: Init. Cal. Times: 17:14 23:15
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
\$ 1 Tetrachloro-m-xylene	2567038	2539320	0.000	-1.1 | 15.0
5 alpha-BHC	2841594	2851160	0.010	0.3 | 15.0
6 gamma-BHC (Lindane)	2534274	2578520	0.010	1.7 | 15.0
10 Heptachlor	2089976	1974960	0.010	-5.5 | 15.0
15 Endosulfan I	2184626	2177920	0.010	-0.3 | 15.0
17 Dieldrin	2388448	2313400	0.010	-3.1 | 15.0
20 Endrin	1811062	1763240	0.010	-2.6 | 15.0
21 4,4'-DDD	1825592	1785880	0.010	-2.2 | 15.0
23 4,4'-DDT	1772068	1706240	0.010	-3.7 | 15.0
25 Methoxychlor	791951	784860	0.010	-0.9 | 15.0
\$ 30 Decachlorobiphenyl	1216480	1218040	0.010	0.1 15.0

Data File: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4589.d
Report Date: 27-Jul-2000 11:42

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58904A
DB608

STL Pittsburgh

664 1214

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-JUL-2000 09:28
Lab File ID: D-A4589.d Init. Cal. Date(s): 25-JUL-2000 26-JUL-2000
Analysis Type: Init. Cal. Times: 17:14 23:15
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	1947592	1873040	0.010	-3.8 | 15.0
7 beta-BHC	1437474	1435400	0.010	-0.1 | 15.0
8 delta-BHC	2421772	2411880	0.010	-0.4 | 15.0
12 Heptachlor epoxide	2257494	2208200	0.010	-2.2 | 15.0
13 gamma-Chlordane	2392414	2304000	0.010	-3.7 | 15.0
14 alpha-Chlordane	2381838	2379000	0.010	-0.1 | 15.0
16 4,4'-DDE	2365364	2313920	0.010	-2.2 | 15.0
22 Endosulfan II	2019570	1998000	0.010	-1.1 | 15.0
24 Endrin aldehyde	1559514	1507080	0.010	-3.4 | 15.0
26 Endosulfan sulfate	1505706	1564760	0.010	3.9 | 15.0
27 Endrin ketone	1557556	1598480	0.010	2.6 | 15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

664 1215

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C0G200210
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/26/00
 Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
			TCX: 5.63 DCB: 21.77			
EPA	LAB	DATE	TIME	TCX	DCB	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT #
01	EVALB	07/25/00	1646	5.68		21.86*
02	MEDTOX	07/25/00	1714	5.69*		21.86*
03	MEDCHLOR	07/25/00	1741	5.68		21.85*
04	LOWA	07/25/00	1809	5.69*		21.85*
05	MLOWA	07/25/00	1837	5.69*		21.85*
06	MEDA	07/25/00	1905	5.68		21.85*
07	MHIGHA	07/25/00	1932	5.68		21.85*
08	HIGHA	07/25/00	2000	5.68		21.85*
09	LOWB	07/25/00	2028			
10	MLOWB	07/25/00	2055			
11	MEDB	07/25/00	2123			
12	MHIGHB	07/25/00	2151			
13	HIGHB	07/25/00	2219			
14	2ND A	07/25/00	2246	5.69*		21.85*
15	2ND B	07/25/00	2314			
16	EVALB	07/25/00	2342	5.68		21.85*
17	MEDA	07/26/00	2000	5.66		21.80
18	MEDB	07/26/00	2028			
19	EVALB	07/26/00	2056	5.65		21.79
20	PBLK1 DGM9V101	07/27/00	0038	5.65		21.79
21	LCS1 DGM9V102	07/27/00	0106	5.65		21.79
22	DF/S1/201/WA DGJ6M103	07/27/00	0802	5.65		21.79
23	MEDA	07/27/00	0900	5.65		21.79
24	MEDB	07/27/00	0928			
25						
26						
27						
28						
29						
30						
31						
32						

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

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

664 1216

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4501.d
 Lab Smp Id: EVALB
 Inj Date : 25-JUL-2000 16:46
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	50816	0.01980	0.01980(R)
16 4,4'-DDE	14.406	14.400	0.006	706	<0.0	0.0002985
20 Endrin	15.126	15.120	0.006	44208	0.02441	0.02441
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.766	15.766	0.000	43192	0.02437	0.02437
24 Endrin aldehyde	15.993	15.986	0.007	2017	0.00129	0.001293
27 Endrin ketone	18.006	18.006	0.000	1647	0.00106	0.001057
\$ 30 Decachlorobiphenyl	21.860	21.853	0.007	24425	0.02008	0.02008(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

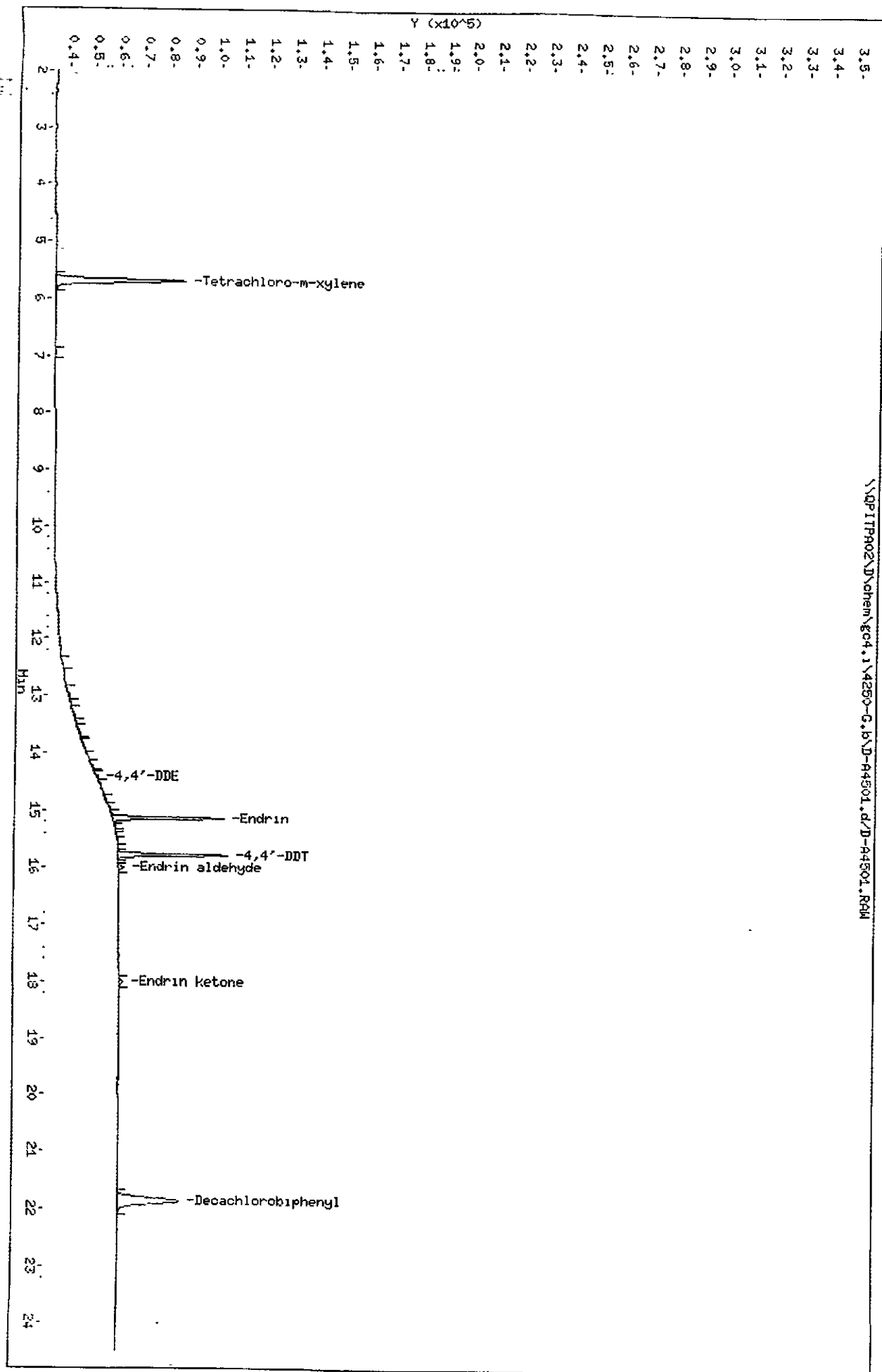
DDT = 1.6
 Endrin = 7.7

$$\text{Endrin Breakdown} = \frac{(2017 + 1647) \times 100}{(2017 + 1647 + 44208)} = 7.7\%$$

$$\text{DDT Breakdown} = \frac{(706) \times 100}{(706 + 43192)} = 1.6\%$$

Data File: \\NPITPA02\Nohem\gc4.1\4250-G.B\D-H4501.d
 Date: 25-JUL-2000 16:46
 Client ID:
 Sample Info: EVALB,4250-G.B, EVALBR,sub,3,1
 Column phase: DB608

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



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4502.d
Lab Smp Id: MEDTOX
Inj Date : 25-JUL-2000 17:14
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,4250-G.b,,1-TOX.sub,,1,3
Misc Info : 190-84-13
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 15-JUL-2000 00:38 Cal File: d-a4251.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
18 Toxaphene	15.293	15.293	0.000	27569	1.00000	1 000(M)
\$ 1 Tetrachloro-m-xylene	5 686	5.680	0.006	63151	0.02500	0 02500(M)
\$ 30 Decachlorobiphenyl	21 860	21 853	0.007	30640	0 02500	0.02500(M)

QC Flag Legend

M - Compound response manually integrated.

6641219

Data File: \\QPITPA02\N\chem\gc4,1\4250-G,b\D-44502.d
Date: 25-JUL-2000 17:14

Client ID:

Sample Info: HEDTOX,4250-G,b,1-TOX,sub,1,3

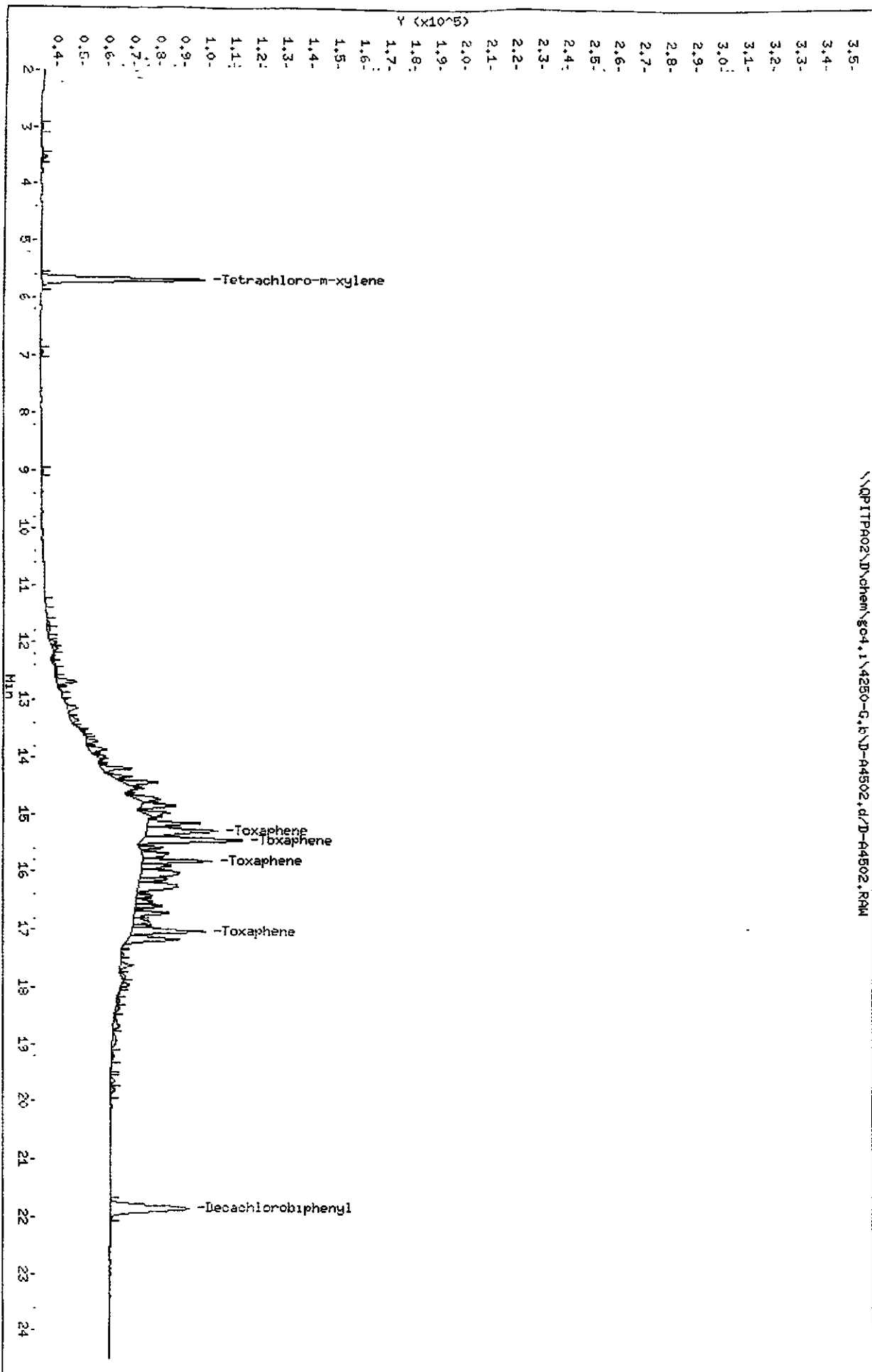
Column phase: DB508

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

\\QPITPA02\N\chem\gc4,1\4250-G,b\D-44502.d\D-44502.RAW



664 1220

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4503.d
Lab Smp Id: MEDCHLOR
Inj Date : 25-JUL-2000 17:41
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,4250-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-85-10
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 14-JUL-2000 23:43 Cal File: d-a4249.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
-----	--	-----	-----	-----	-----	-----	
9 Chlordane	10.046	10.046	0.000	16645	0.25000	0.2500(M)	
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	65437	0.02500	0.02500(M)	
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	32410	0.02500	0.02500(M)	

QC Flag Legend

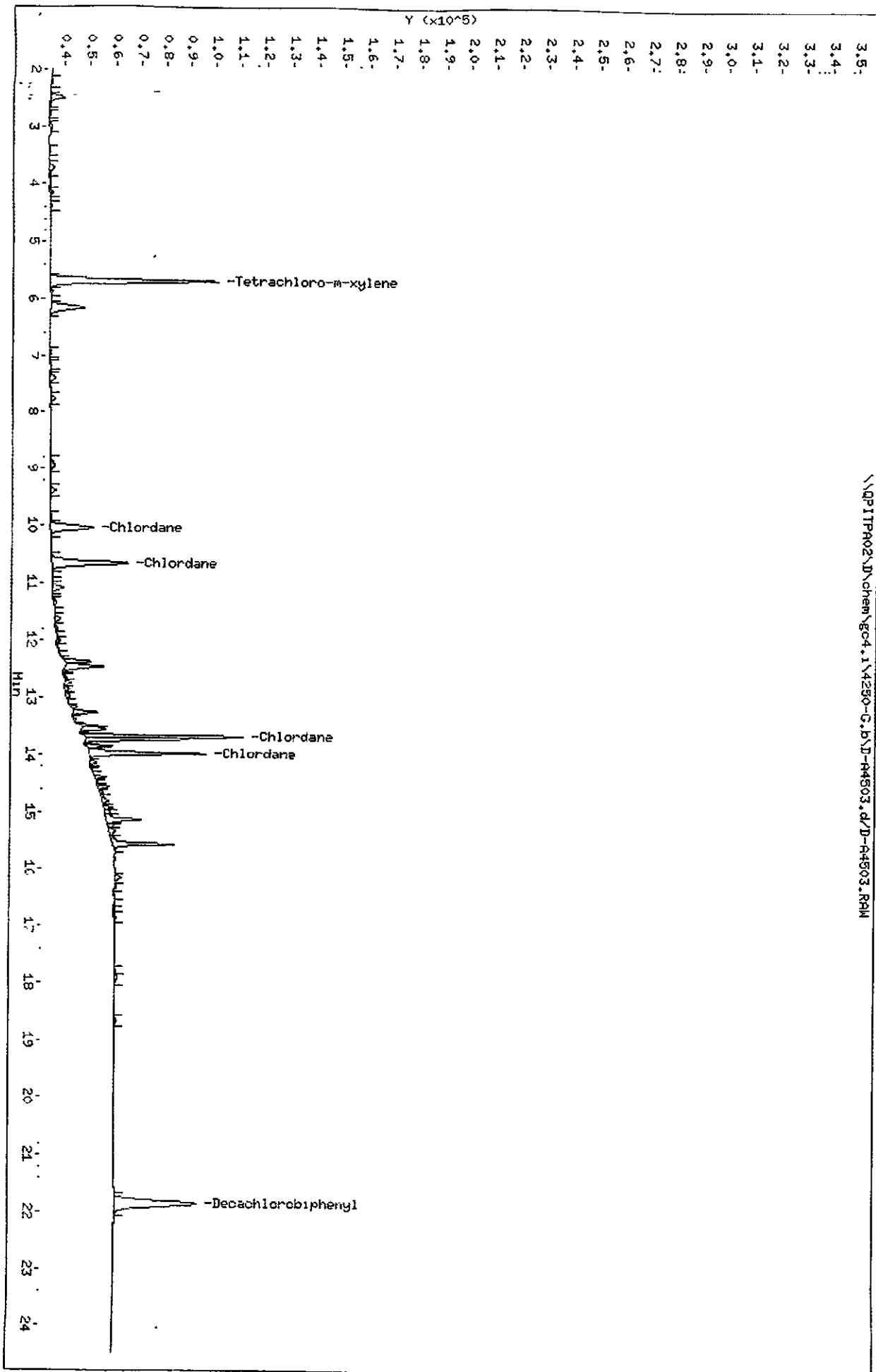
M - Compound response manually integrated.

6641221

Data File: \\QP1TPA02\N\chem\gc4.1\4250-G.b\D-44503.d
Date: 25-JUL-2000 17:41
Client ID:
Sample Info: HEDCHLOR,4250-G.b.,2-CHL0,sub,1,3
Column phase: DB608

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

\\QP1TPA02\N\chem\gc4.1\4250-G.b\D-44503.d\D-44503.RAW



664 1222

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4504.d
Lab Smp Id: LOWA
Inj Date : 25-JUL-2000 18:09
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWA,4250-G.b,,3-INDA.sub,,1,1
Misc Info : 190-84-1
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC085

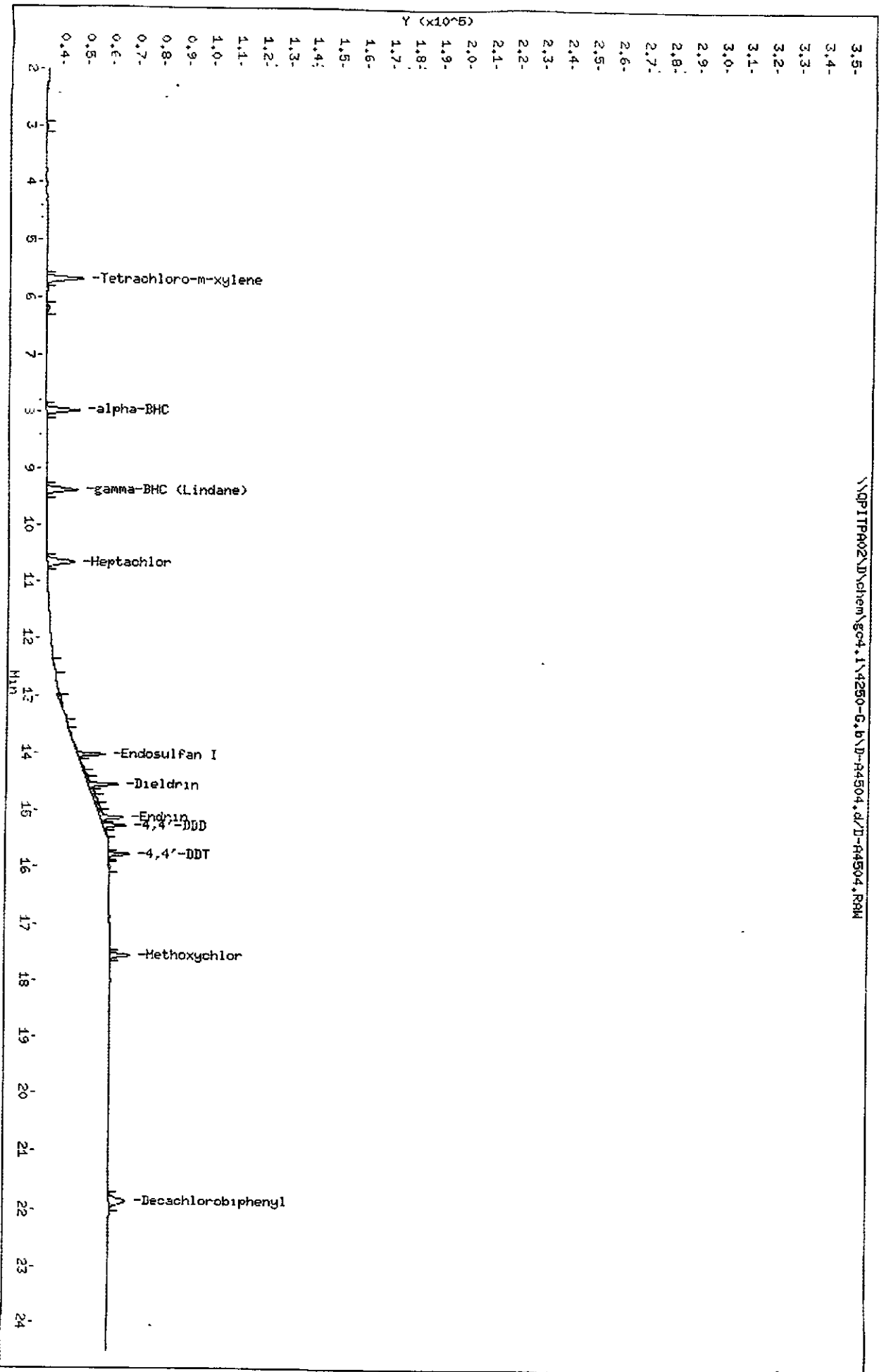
Compounds	RT	BXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	5.686	5.680	0.006	14181	0.00500	0.005280
5 alpha-BHC	7.973	7.973	0.000	13127	0.00500	0.004801
6 gamma-BHC (Lindane)	9.380	9.380	0.000	12150	0.00500	0.004915
10 Heptachlor	10.666	10.660	0.006	10571	0.00500	0.005098
15 Endosulfan I	14.020	14.020	0.000	10628	0.00500	0.004982
17 Dieldrin	14.546	14.546	0.000	11819	0.00500	0.005061
20 Endrin	15.126	15.120	0.006	9365	0.00500	0.005227
21 4,4'-DDD	15.260	15.260	0.000	9116	0.00500	0.005110
23 4,4'-DDT	15.766	15.766	0.000	8284	0.00500	0.004887
25 Methoxychlor	17.546	17.546	0.000	7916	0.01000	0.01012
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	6471	0.00500	0.005154

6641223

Data File: \\QPI1P02\chem\g04.1\4250-G.b\N-44504.d
Date: 25-JUL-2000 18:09
Client ID:
Sample Info: LOMR,4250-G.b,3-INDA,sub,1.1
Column phase: DB608

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

\\QPI1P02\chem\g04.1\4250-G.b\N-44504.d\I-44504.RAW



664 1224

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4505.d
 Lab Smp Id: MLOWA
 Inj Date : 25-JUL-2000 18:37
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWA,4250-G.b,,3-INDA.sub,,1,2
 Misc Info : 190-84-2
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

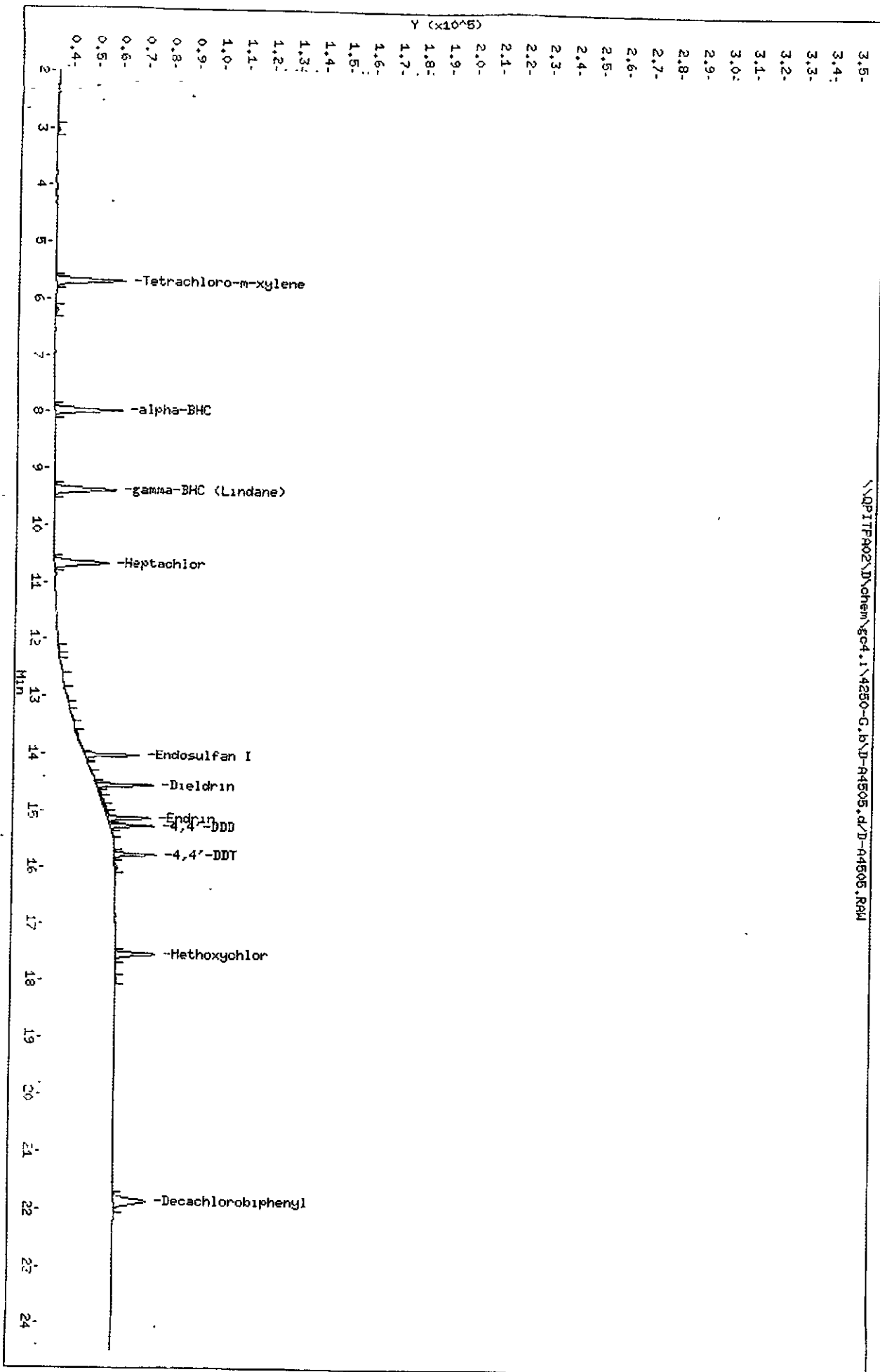
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
§ 1 Tetrachloro-m-xylene	5.686	5.680	0.006	27251	0.01000	0.01010
5 alpha-BHC	7.973	7.973	0.000	26915	0.01000	0.009895
6 gamma-BHC (Lindane)	9.386	9.380	0.006	24498	0.01000	0.009940
10 Heptachlor	10.666	10.660	0.006	21046	0.01000	0.01010
15 Endosulfan I	14.026	14.020	0.006	21365	0.01000	0.01001
17 Dieldrin	14.546	14.546	0.000	22582	0.01000	0.009778
20 Endrin	15.126	15.120	0.006	17132	0.01000	0.009704
21 4,4'-DDD	15.260	15.260	0.000	17506	0.01000	0.009874
23 4,4'-DDT	15.766	15.766	0.000	16945	0.01000	0.009998
25 Methoxychlor	17.546	17.546	0.000	15724	0.02000	0.02006
§ 30 Decachlorobiphenyl	21.853	21.853	0.000	12691	0.01000	0.01007

6641225

Data File: \\NPI1FA02\N\chem\gc4.1\4250-G.b\D-44505.d
Date: 25-JUL-2000 18:37
Client ID:
Sample Info: HLDNA,4250-5.b,3-INDA,sub,1,2
Column phase: DB608

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

\\NPI1FA02\N\chem\gc4.1\4250-G.b\D-44505.d\J-44505.RAW



664 1226

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4506.d
Lab Smp Id: MEDA
Inj Date : 25-JUL-2000 19:05
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,4250-G.b,,3-INDA.sub,,1,3
Misc Info : 190-84-3
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 14-JUL-2000 23:43 Cal File: d-a4249.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	63392	0.02500	0.02500 (M)
5 alpha-BHC	7.973	7.973	0.000	71075	0.02500	0.02500 (M)
6 gamma-BHC (Lindane)	9.380	9.380	0.000	62840	0.02500	0.02500 (M)
10 Heptachlor	10.660	10.660	0.000	50816	0.02500	0.02500 (M)
15 Endosulfan I	14.020	14.020	0.000	53514	0.02500	0.02500 (M)
17 Dieldrin	14.546	14.546	0.000	57663	0.02500	0.02500 (M)
20 Endrin	15.120	15.120	0.000	42760	0.02500	0.02500 (M)
21 4,4'-DDD	15.260	15.260	0.000	43620	0.02500	0.02500 (M)
23 4,4'-DDT	15.766	15.766	0.000	43328	0.02500	0.02500 (M)
25 Methoxychlor	17.546	17.546	0.000	38667	0.05000	0.05000 (M)
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	30416	0.02500	0.02500 (M)

QC Flag Legend

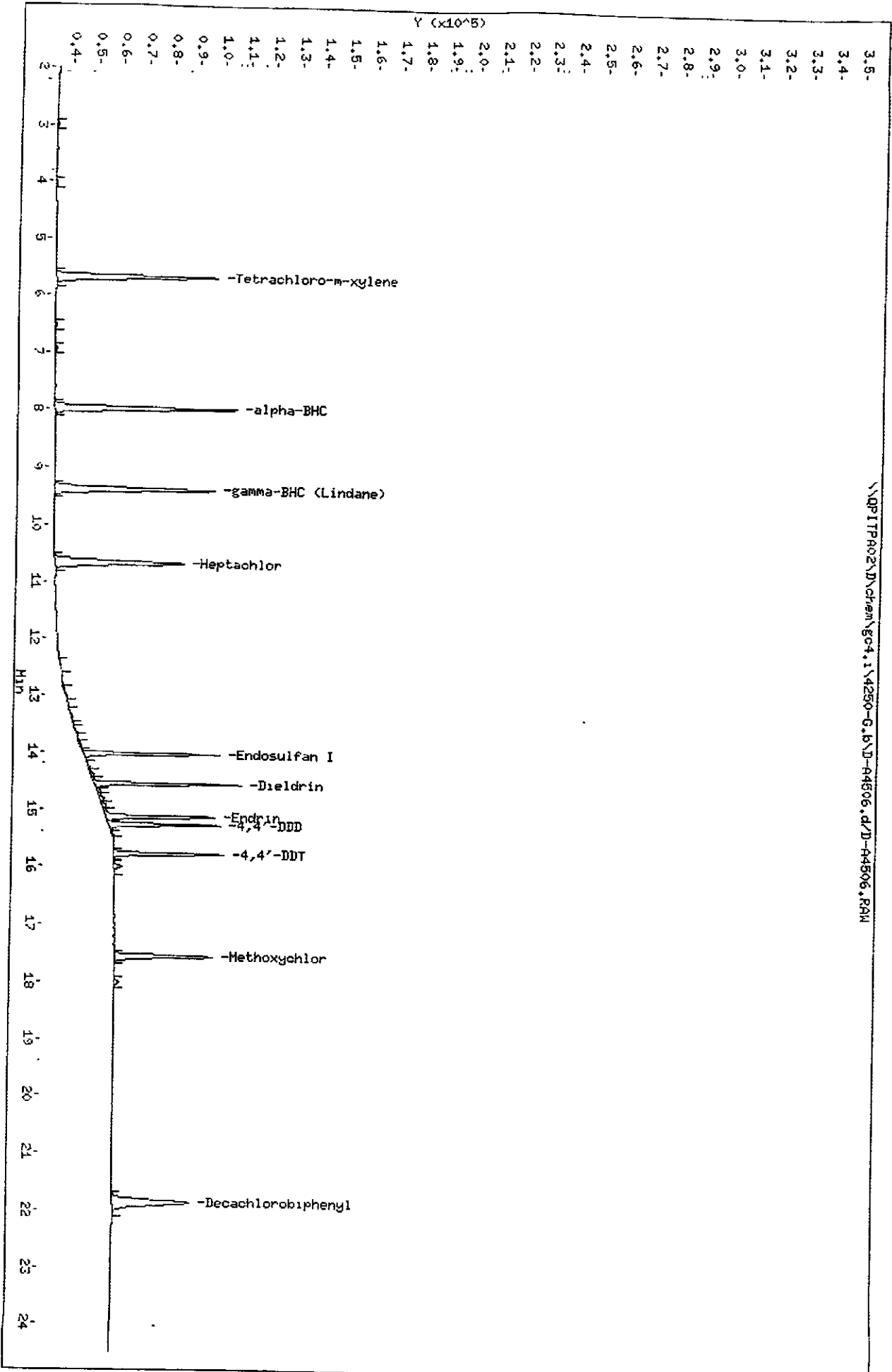
M - Compound response manually integrated.

6641227

Data File: \\QPITPA02\chem\gc4.1\4250-G.b.D-44506.d
Date: 25-JUL-2000 19:05
Client ID:
Sample Info: MEDA, 4250-G.b, 3-INDA, sub, 1,3
Column phase: DB608

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

\\QPITPA02\chem\gc4.1\4250-G.b.D-44506.d\44506.RAW



STL Pittsburgh

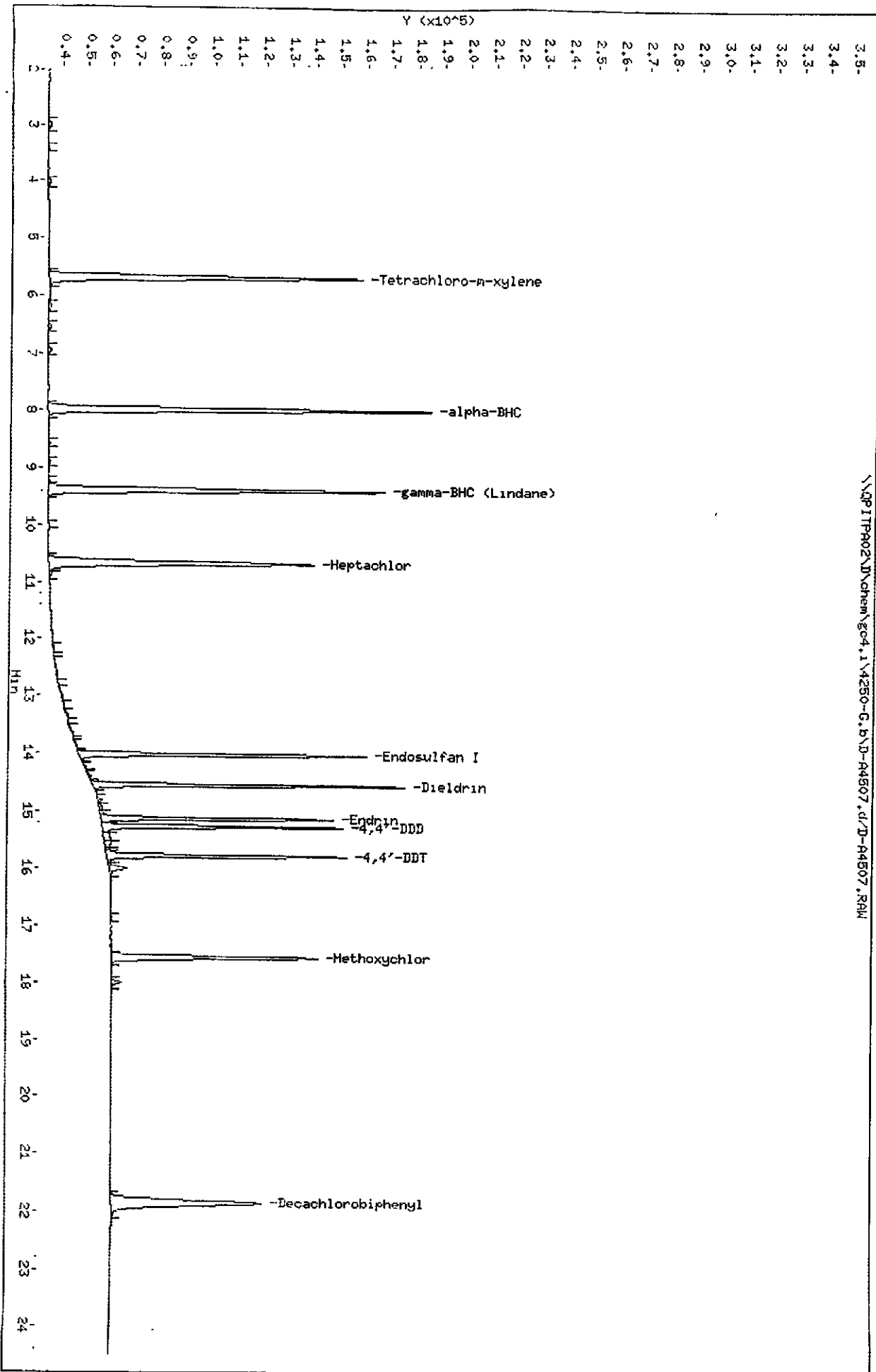
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4507.d
Lab Smp Id: MHIGHA
Inj Date : 25-JUL-2000 19:32
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHA,4250-G.b,,3-INDA.sub,,1,4
Misc Info : 190-84-4
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	122697	0.05000	0.04652
5 alpha-BHC	7.973	7.973	0.000	150083	0.05000	0.05378
6 gamma-BHC (Lindane)	9.380	9.380	0.000	132060	0.05000	0.05264
10 Heptachlor	10.660	10.660	0.000	104138	0.05000	0.04998
15 Endosulfan I	14.020	14.020	0.000	112298	0.05000	0.05194
17 Dieldrin	14.546	14.546	0.000	122700	0.05000	0.05231
20 Endrin	15.126	15.120	0.006	91198	0.05000	0.05123
21 4,4'-DDD	15.260	15.260	0.000	94172	0.05000	0.05230
23 4,4'-DDT	15.766	15.766	0.000	93615	0.05000	0.05383
25 Methoxychlor	17.546	17.546	0.000	80316	0.10000	0.1018
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	58838	0.05000	0.04748

Data File: \\QPITP02\N\chem\sc4.1\4250-G.b.D-A4507.d
Date: 25-JUL-2000 19:32
Client ID:
Sample Info: HHTCHA,4250-G.b.,3-INDA,sub,1,4
Column phase: DB608

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

\\QPITP02\N\chem\sc4.1\4250-G.b.D-A4507.d\A4507.RAW



664 1230

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4508.d
 Lab Smp Id: HIGHA
 Inj Date : 25-JUL-2000 20:00
 Operator : 1891 Inst ID: gc4.i
 Smp Info : HIGHA,4250-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-84-5
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	228427	0.10000	0.08898
5 alpha-BHC	7.980	7.973	0.007	304641	0.10000	0.1072(A)
6 gamma-BHC (Lindane)	9.380	9.380	0.000	263677	0.10000	0.1040(A)
10 Heptachlor	10.660	10.660	0.000	211568	0.10000	0.1012(A)
15 Endosulfan I	14.020	14.020	0.000	227451	0.10000	0.1041(A)
17 Dieldrin	14.546	14.546	0.000	255972	0.10000	0.1072(A)
20 Endrin	15.120	15.120	0.000	193475	0.10000	0.1068(A)
21 4,4'-DDD	15.260	15.260	0.000	192592	0.10000	0.1055(A)
23 4,4'-DDT	15.766	15.766	0.000	190362	0.10000	0.1074(A)
25 Methoxychlor	17.546	17.546	0.000	161091	0.20000	0.2034(A)
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	112570	0.10000	0.09254

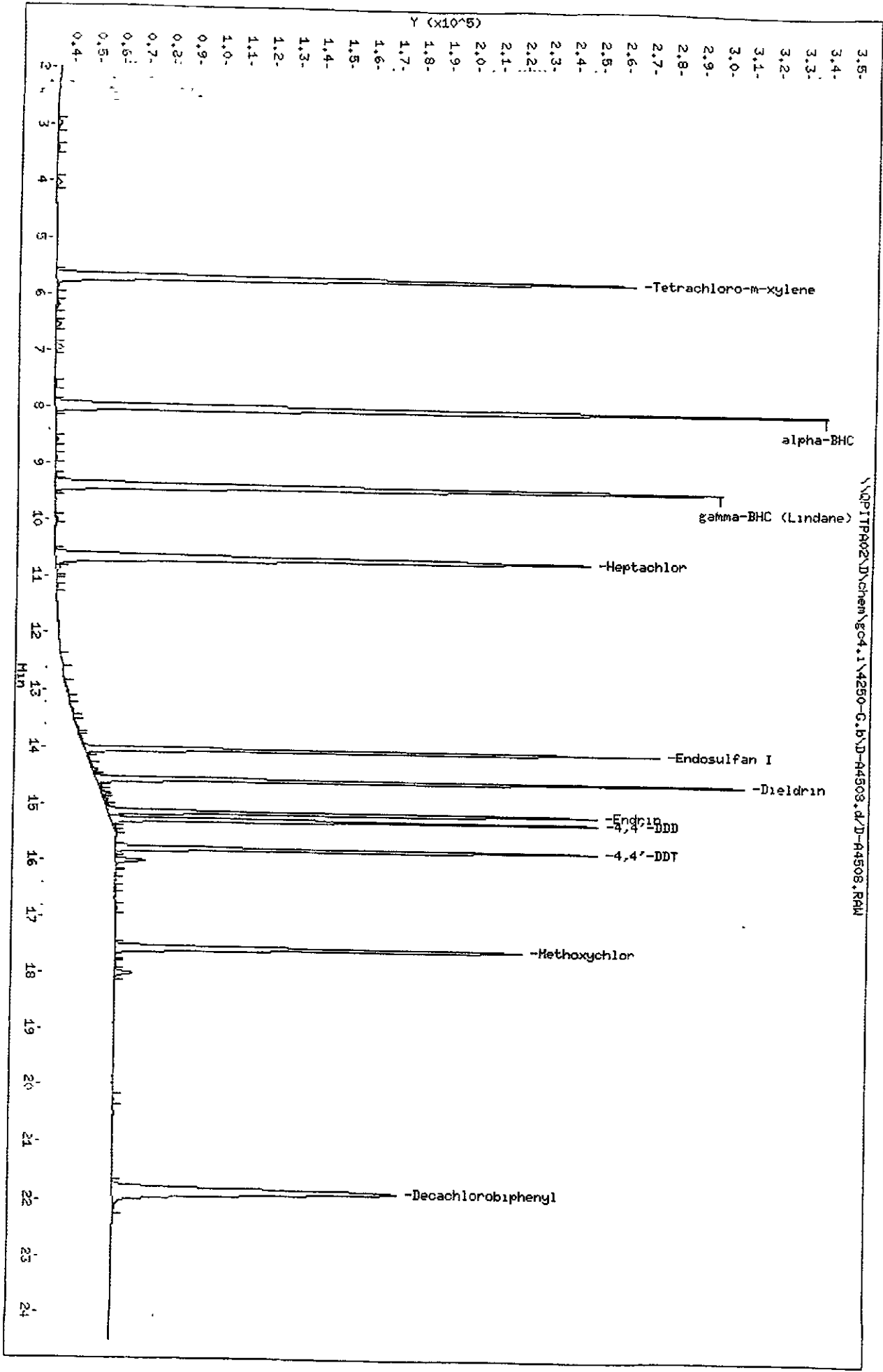
QC Flag Legend

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

6641231

Data File: \\QPI1P002\Inchem\gc4.1\4250-G.b\D-44508.d
Date: 25-JUL-2000 20:00
Client ID:
Sample Info: HIGH, 4250-G, b, 3-INDA, sub, 1, 5
Column phase: DB608

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



664 1232

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4509.d
Lab Smp Id: LOWB
Inj Date : 25-JUL-2000 20:28
Operator : 1891
Smp Info : LOWB,4250-G.b,,4-INDB.sub,,1,1
Misc Info : 190-84-7
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj
Cal Date : 25-JUL-2000 21:23
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085
Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-A4511.d
Calibration Sample, Level: 1
Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	9037	0.00500	0.004912
7 beta-BHC	9.653	9.660	-0.007	7518	0.00500	0.005177
8 delta-BHC	11.086	11.093	-0.007	10689	0.00500	0.004724
12 Heptachlor epoxide	13.326	13.326	0.000	10569	0.00500	0.004907
13 gamma-Chlordane	13.660	13.666	-0.006	11526	0.00500	0.004989
14 alpha-Chlordane	13.966	13.973	-0.007	11162	0.00500	0.004900
16 4,4'-DDE	14.400	14.400	0.000	10734	0.00500	0.004847
22 Endosulfan II	15.413	15.413	0.000	9479	0.00500	0.004948
24 Endrin aldehyde	15.986	15.986	0.000	7693	0.00500	0.005052
26 Endosulfan sulfate	16.213	16.220	-0.007	6897	0.00500	0.004890
27 Endrin ketone	18.000	18.006	-0.006	7165	0.00500	0.004863

6641233

Data File: \\NPITPA02\chem\gc4.1\4250-G.b\44509.d

Date: 25-JUL-2000 20:28

Client ID:

Sample Info: LOMB,4250-G.b,,4-INDR,sub,,1,1

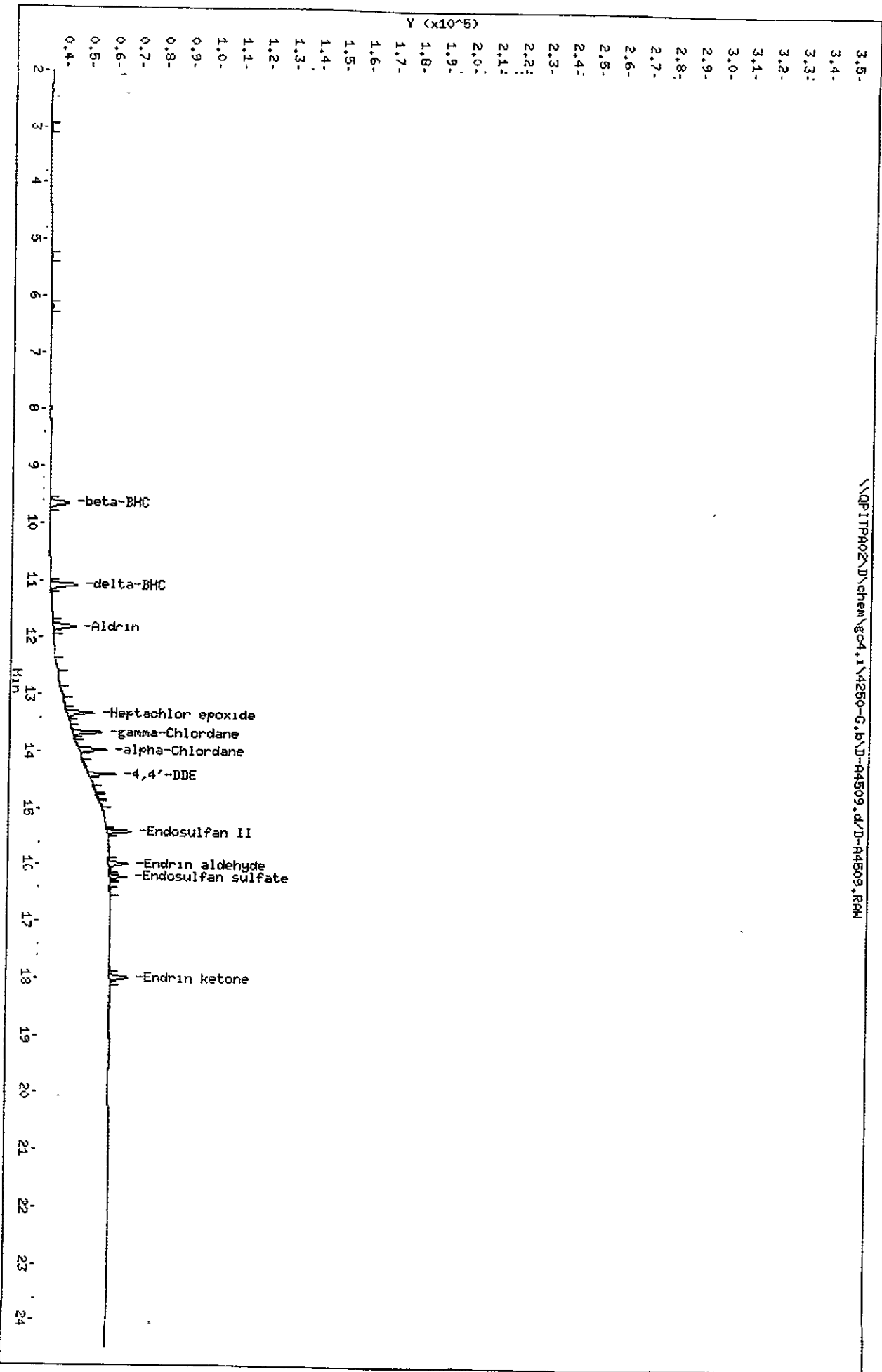
Column phase: DB608

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

\\NPITPA02\chem\gc4.1\4250-G.b\44509.d\44509.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4510.d
 Lab Smp Id: MLOWB
 Inj Date : 25-JUL-2000 20:55
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB,4250-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-84-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

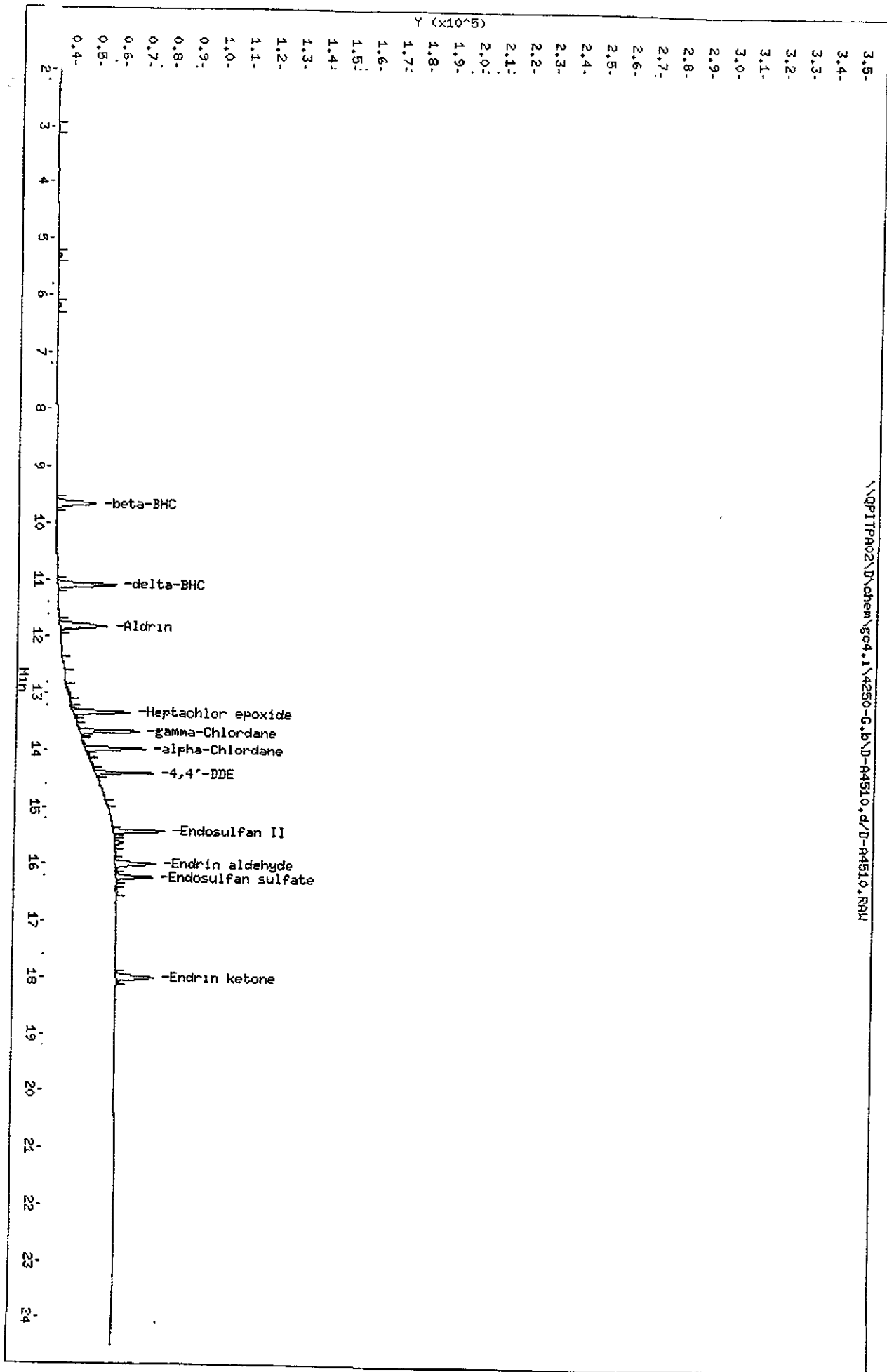
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	18922	0.01000	0.01019
7 beta-BHC	9.660	9.660	0.000	15392	0.01000	0.01039
8 delta-BHC	11.086	11.093	-0.007	22939	0.01000	0.01009
12 Heptachlor epoxide	13.326	13.326	0.000	22290	0.01000	0.01023
13 gamma-Chlordane	13.666	13.666	0.000	23919	0.01000	0.01023
14 alpha-Chlordane	13.966	13.973	-0.007	24026	0.01000	0.01036
16 4,4'-DDE	14.400	14.400	0.000	22810	0.01000	0.01020
22 Endosulfan II	15.413	15.413	0.000	19911	0.01000	0.01026
24 Endrin aldehyde	15.986	15.986	0.000	15944	0.01000	0.01031
26 Endosulfan sulfate	16.220	16.220	0.000	14446	0.01000	0.01016
27 Endrin ketone	18.000	18.006	-0.006	15205	0.01000	0.01021

6641235

Data File: \\QPITPA02\Nchem\gc4.1\4250-G.b\D-04510.d
Date: 25-JUL-2000 20:55
Client ID:
Sample Info: HLDUB, 4250-G.b, 4-INDB, sub, 1,2
Column phase: DB608

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

\\QPITPA02\Nchem\gc4.1\4250-G.b\D-04510.d\T-04510.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4511.d
 Lab Smp Id: MEDB
 Inj Date : 25-JUL-2000 21:23
 Operator : 1891 Inst ID: gc4.1
 Smp Info : MEDB,4250-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-84-9
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-A4511.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	46793	0.02500	0.02500 (M)
7 beta-BHC	9.660	9.660	0.000	35024	0.02500	0.02500 (M)
8 delta-BHC	11.093	11.093	0.000	59695	0.02500	0.02500 (M)
12 Heptachlor epoxide	13.326	13.326	0.000	54844	0.02500	0.02500 (M)
13 gamma-Chlordane	13.666	13.666	0.000	57892	0.02500	0.02500 (M)
14 alpha-Chlordane	13.973	13.973	0.000	58095	0.02500	0.02500 (M)
16 4,4'-DDE	14.400	14.400	0.000	57058	0.02500	0.02500 (M)
22 Endosulfan II	15.413	15.413	0.000	48386	0.02500	0.02500 (M)
24 Endrin aldehyde	15.986	15.986	0.000	37680	0.02500	0.02500 (M)
26 Endosulfan sulfate	16.220	16.220	0.000	36030	0.02500	0.02500 (M)
27 Endrin ketone	18.006	18.006	0.000	37837	0.02500	0.02500 (M)

QC Flag Legend

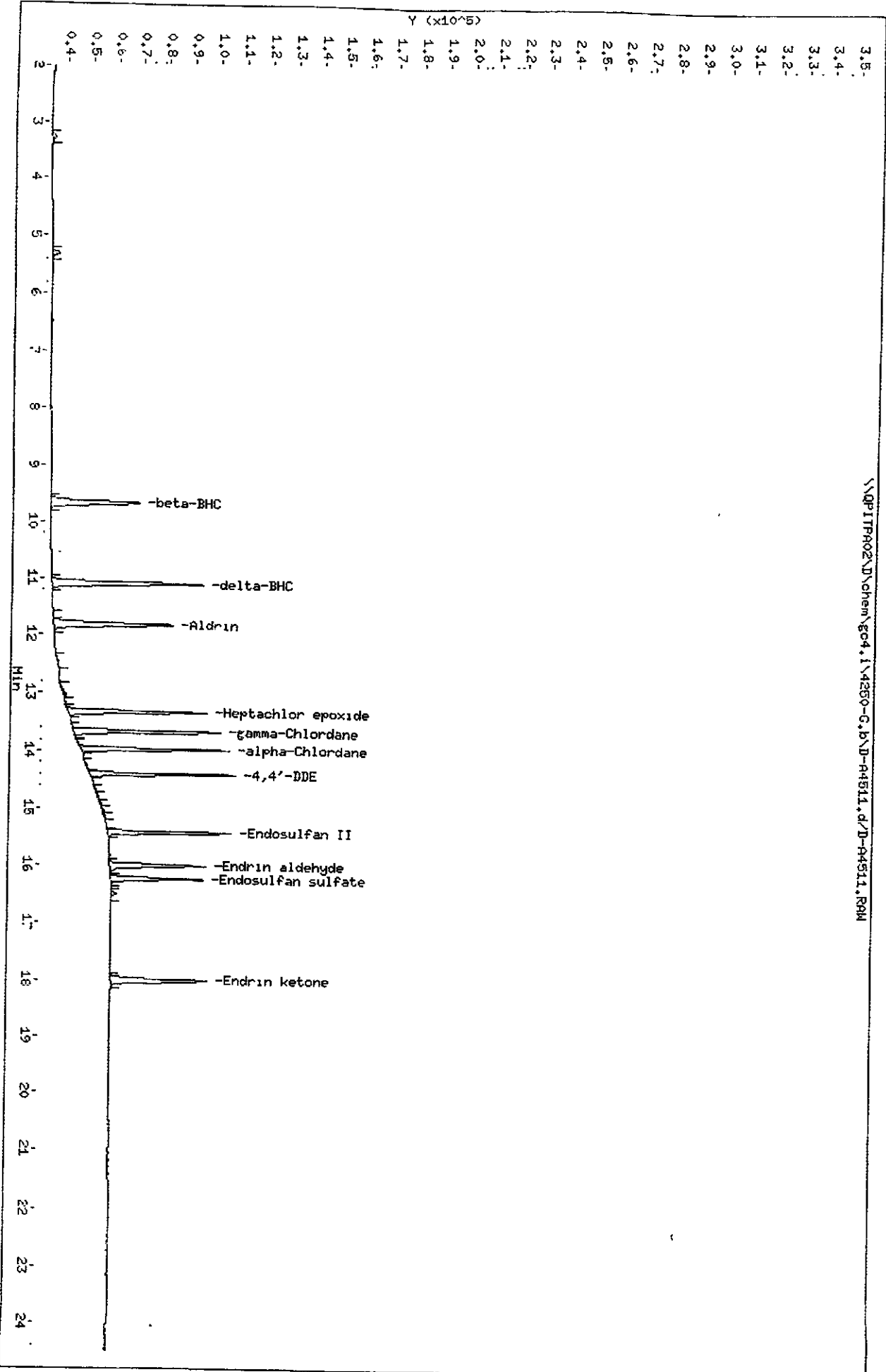
M - Compound response manually integrated.

6641237

Data File: \\QPITPA02\chem\g04.1\4250-G.b\D-44511.d
Date: 25-JUL-2000 21:23
Client ID:
Sample Info: HEDB,4250-G,b,,4-INDB,sub,,1,3
Column phase: DB608

Instrument: g04.1
Operator: 1391
Column diameter: 0.53

\\QPITPA02\chem\g04.1\4250-G.b\D-44511.d\D-44511.RAW



STL Pittsburgh

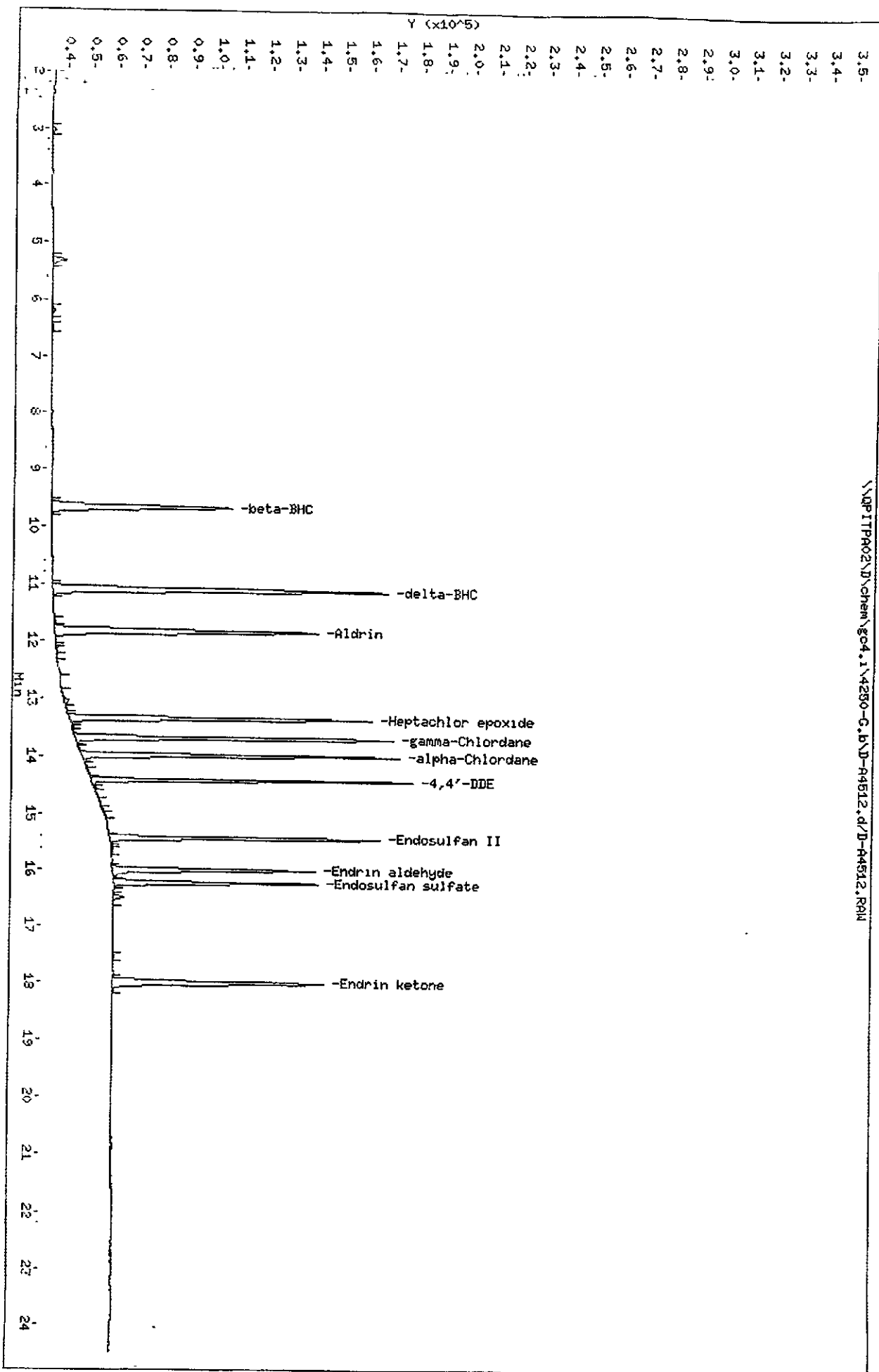
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4512.d
 Lab Smp Id: MHIGHB
 Inj Date : 25-JUL-2000 21:51
 Operator : 1891
 Smp Info : MHIGHB,4250-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-84-10
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj
 Cal Date : 25-JUL-2000 21:51
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.820	11.813	0.007	103649	0.05000	0.05424
7 beta-BHC	9.660	9.660	0.000	70929	0.05000	0.04840
8 delta-BHC	11.093	11.093	0.000	132059	0.05000	0.05583
12 Heptachlor epoxide	13.326	13.326	0.000	119479	0.05000	0.05354
13 gamma-Chlordane	13.666	13.666	0.000	125104	0.05000	0.05259
14 alpha-Chlordane	13.973	13.973	0.000	125086	0.05000	0.05289
16 4,4'-DDE	14.400	14.400	0.000	126824	0.05000	0.05486
22 Endosulfan II	15.413	15.413	0.000	106280	0.05000	0.05349
24 Endrin aldehyde	15.986	15.986	0.000	80214	0.05000	0.05138
26 Endosulfan sulfate	16.220	16.220	0.000	80300	0.05000	0.05471
27 Endrin ketone	18.006	18.006	0.000	82967	0.05000	0.05417

6641239

Data File: \NQP1TPA02\Nchem\gc04.1\4250-G.b\D-44512.d
Date: 25-JUL-2000 21:51
Client ID:
Sample Info: MHIGHB,4250-G.b,4-INDB,sds,1,4
Column phase: DB608

Instrument: gc04.1
Operator: L891
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4513.d
 Lab Smp Id: HIGHB
 Inj Date : 25-JUL-2000 22:19
 Operator : 1891
 Smp Info : HIGHB,4250-G.b,,4-INDB.sub,,1,5
 Misc Info : 190-84-11
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj
 Cal Date : 25-JUL-2000 22:19
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-A4513.d
 Calibration Sample, Level: 5
 Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	209366	0.10000	0.1075 (A)
7 beta-BHC	9.660	9.660	0.000	132503	0.10000	0.09218
8 delta-BHC	11.093	11.093	0.000	264818	0.10000	0.1093 (A)
12 Heptachlor epoxide	13.326	13.326	0.000	236133	0.10000	0.1046 (A)
13 gamma-Chlordane	13.666	13.666	0.000	244721	0.10000	0.1023 (A)
14 alpha-Chlordane	13.966	13.973	-0.007	244867	0.10000	0.1028 (A)
16 4,4'-DDE	14.400	14.400	0.000	258022	0.10000	0.1091 (A)
22 Endosulfan II	15.413	15.413	0.000	214991	0.10000	0.1064 (A)
24 Endrin aldehyde	15.986	15.986	0.000	155309	0.10000	0.09959
26 Endosulfan sulfate	16.220	16.220	0.000	165733	0.10000	0.1101 (A)
27 Endrin ketone	18.000	18.006	-0.006	166146	0.10000	0.1067 (A)

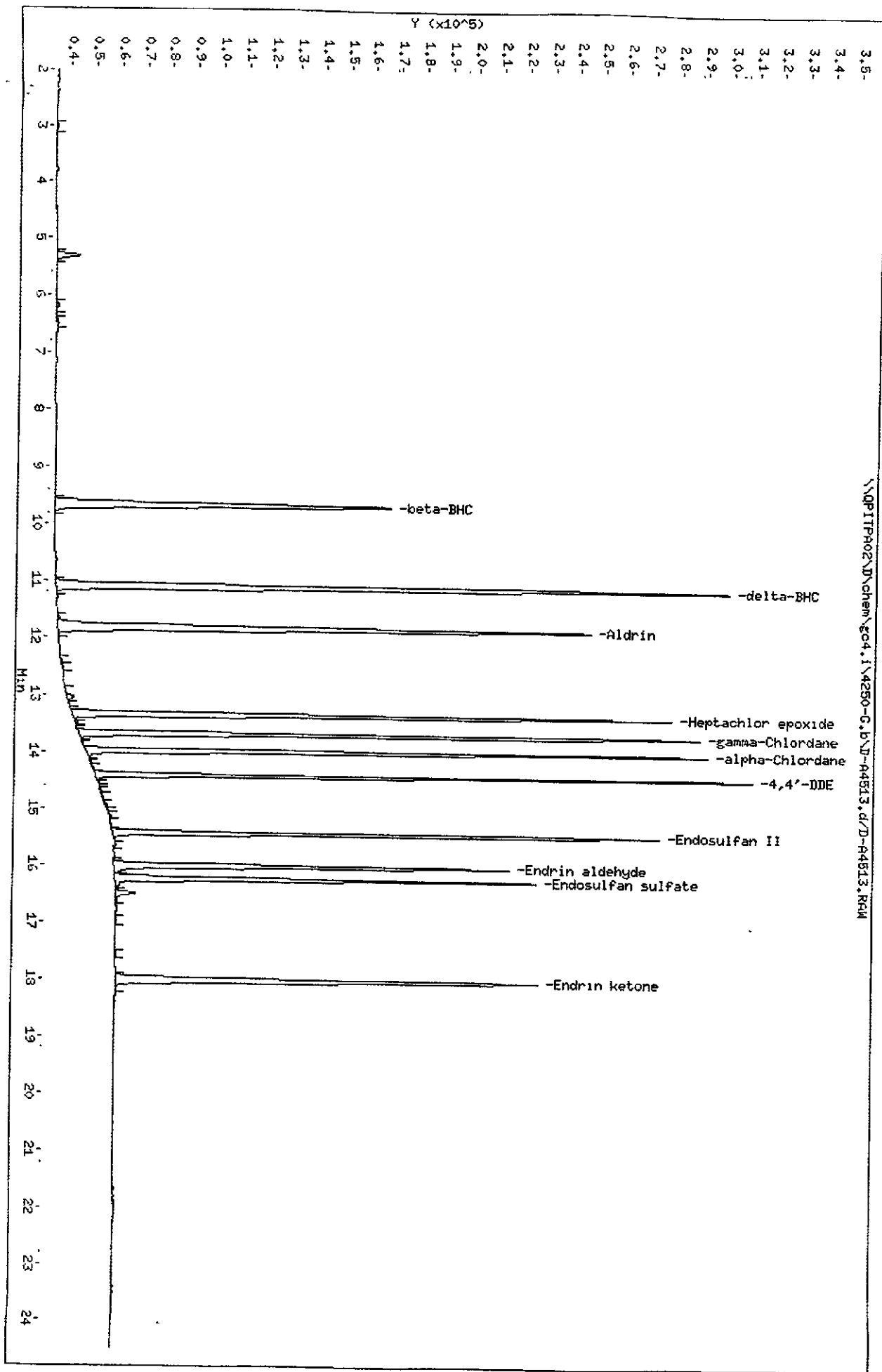
QC Flag Legend

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

6641241

Data File: \\QPI1PA02\N\chem\gc4.1\4250-G.b\ND-44513.d
Date: 25-JUL-2000 22:19
Client ID:
Sample Info: HICB,4250-G.b,4-INDB,sub,1,5
Column phase: DB608

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



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4514.d
 Lab Smp Id: 2ND A
 Inj Date : 25-JUL-2000 22:46
 Operator : 1891
 Smp Info : 2ND A, 4250-G.b, , INDA.sub, , 2, 3
 Misc Info : 190-82-2
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj
 Cal Date : 25-JUL-2000 22:19
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-A4513.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.686	5.680	0.006	50583	0.02500	0.01970
5 alpha-BHC	7.973	7.973	0.000	56504	0.02500	0.01988
6 gamma-BHC (Lindane)	9.380	9.380	0.000	51599	0.02500	0.02036
10 Heptachlor	10.660	10.660	0.000	42052	0.02500	0.02012
15 Endosulfan I	14.020	14.020	0.000	43746	0.02500	0.02002
17 Dieldrin	14.546	14.546	0.000	97907	0.02500	0.04099
20 Endrin	15.120	15.120	0.000	66683	0.02500	0.03682
21 4,4'-DDD	15.260	15.260	0.000	76464	0.02500	0.04188
23 4,4'-DDT	15.766	15.766	0.000	74378	0.02500	0.04197
25 Methoxychlor	17.546	17.546	0.000	163190	0.05000	0.2061 (A)
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	49653	0.02500	0.04082

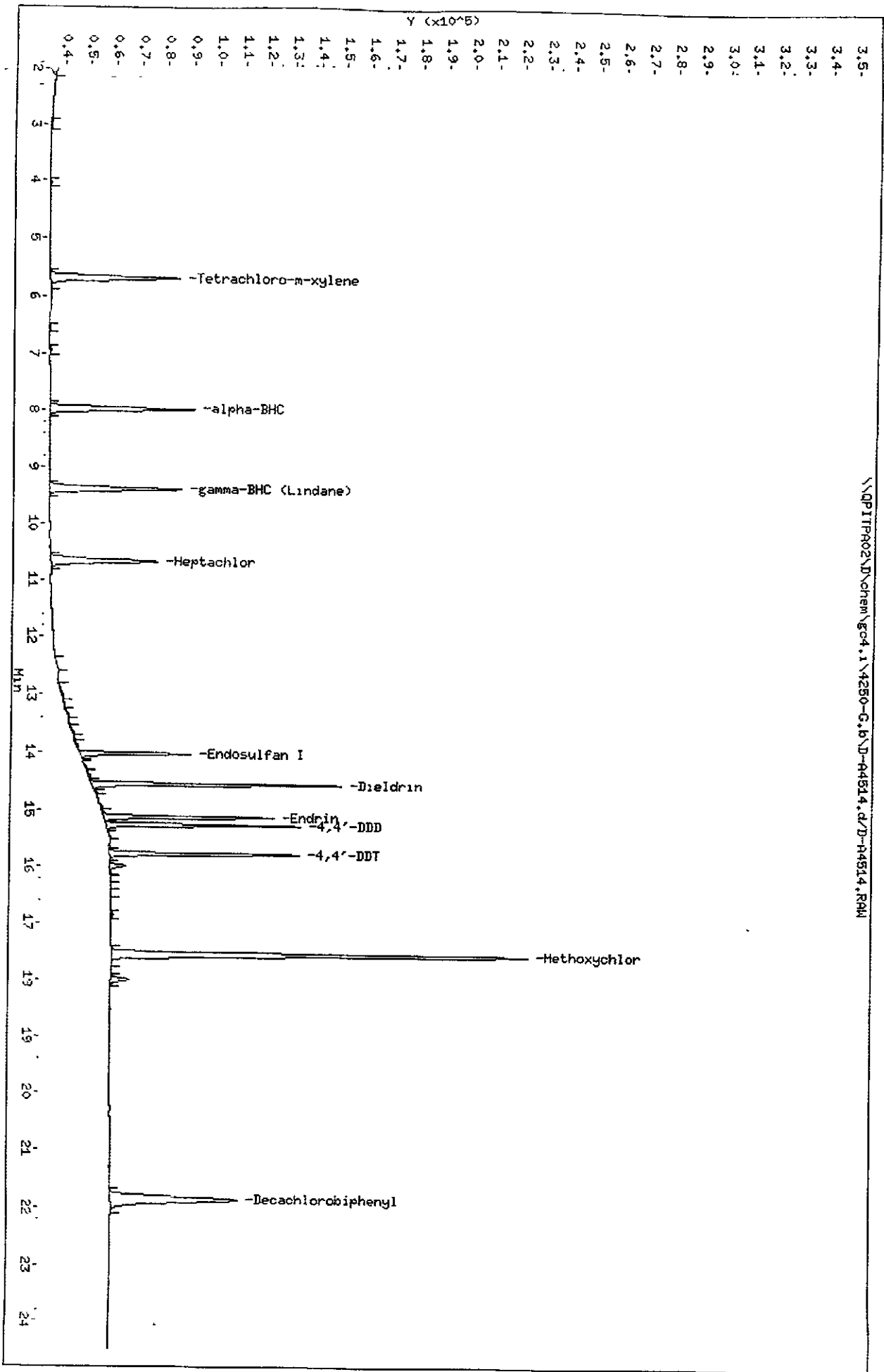
QC Flag Legend

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

Data File: \\QPITPA02\chem\gc4,1\4250-G,b\D-04514.d
Date: 25-JUL-2000 22:46
Client ID:
Sample Info: 2ND 0,4250-G,b, INDA, sub,,2,3
Column phase: DB608

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

\\QPITPA02\chem\gc4,1\4250-G,b\D-04514.d\D-04514.RAW



664 1244

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4515.d
Lab Smp Id: 2ND B
Inj Date : 25-JUL-2000 23:14
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND B,4250-G.b,,INDB.sub,,2,3
Misc Info : 190-82-5
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC085

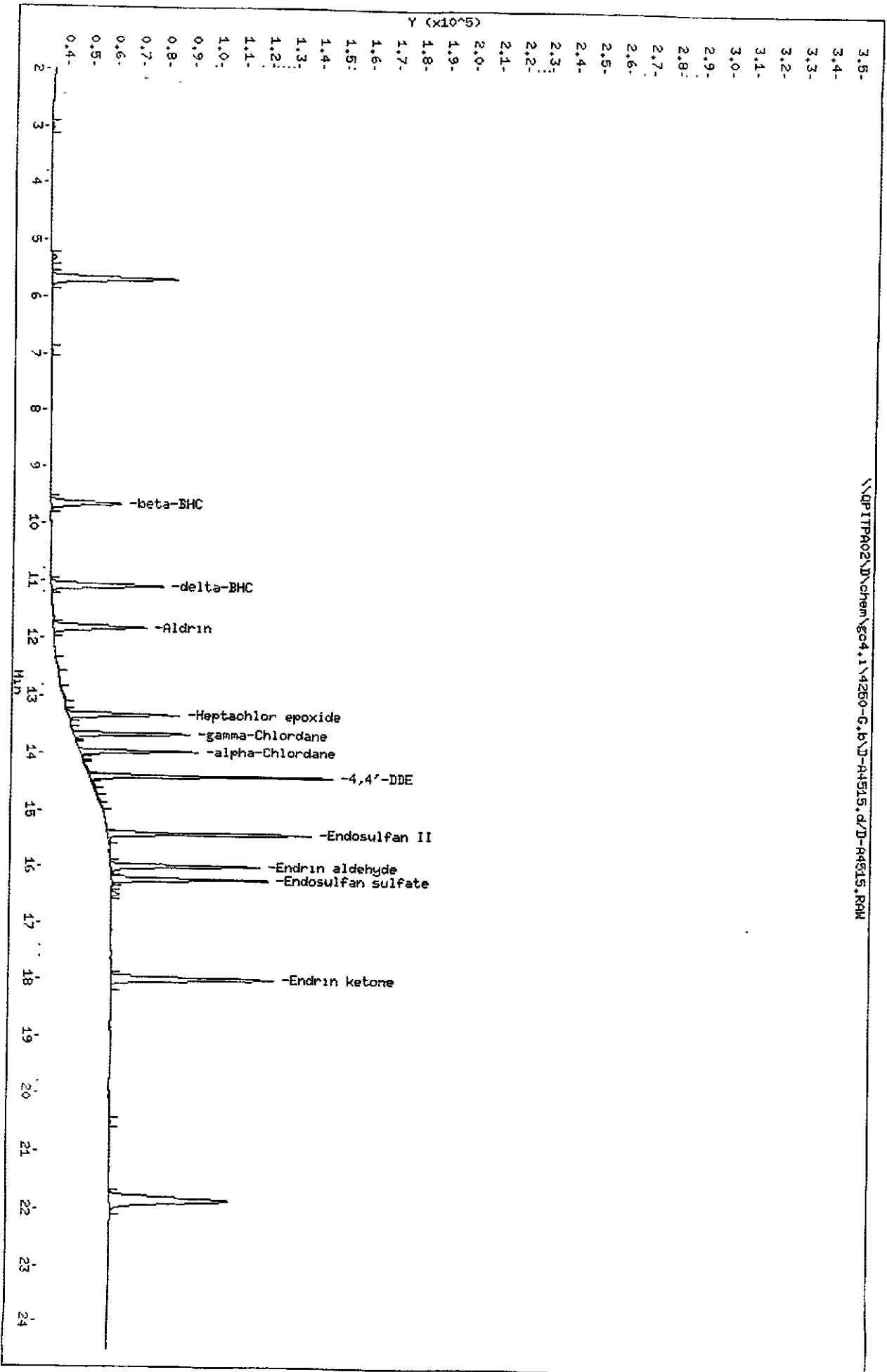
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	36681	0.02500	0.01883
7 beta-BHC	9.660	9.660	0.000	27822	0.02500	0.01935
8 delta-BHC	11.093	11.093	0.000	44332	0.02500	0.01830
12 Heptachlor epoxide	13.326	13.326	0.000	43866	0.02500	0.01943
13 gamma-Chlordane	13.666	13.666	0.000	45750	0.02500	0.01912
14 alpha-Chlordane	13.966	13.973	-0.007	46593	0.02500	0.01956
16 4,4'-DDE	14.400	14.400	0.000	95634	0.02500	0.04043
22 Endosulfan II	15.413	15.413	0.000	80108	0.02500	0.03966
24 Endrin aldehyde	15.986	15.986	0.000	58788	0.02500	0.03770
26 Endosulfan sulfate	16.220	16.220	0.000	61161	0.02500	0.04062
27 Endrin ketone	18.000	18.006	-0.006	63816	0.02500	0.04097

6641245

Data File: \\NPITPA02\chem\gc04.1\4250-G.b\J-44515.d
Date: 25-JUL-2000 23:14
Client ID:
Sample Info: 2ND B,4250-G.b,,INDB,sub,,2,3
Column phase: DB608

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

\\NPITPA02\chem\gc04.1\4250-G.b\J-44515.d\J-44515.PRM



664 1246

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4516.d
 Lab Smp Id: EVALB
 Inj Date : 25-JUL-2000 23:42
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 26-Jul-2000 16:10 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.680	5.680	0.000	51680	0.02013	0.02013 (R)
16 4,4'-DDE	14.406	14.400	0.006	807	<0.0	0.0003412
20 Endrin	15.120	15.120	0.000	40922	0.02260	0.02260
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.766	15.766	0.000	43253	0.02441	0.02441
24 Endrin aldehyde	15.986	15.986	0.000	3531	0.00226	0.002264
27 Endrin ketone	18.000	18.006	-0.006	2441	0.00157	0.001567
\$ 30 Decachlorobiphenyl	21.853	21.853	0.000	24706	0.02031	0.02031 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 1.8
 Endrin = 12.7

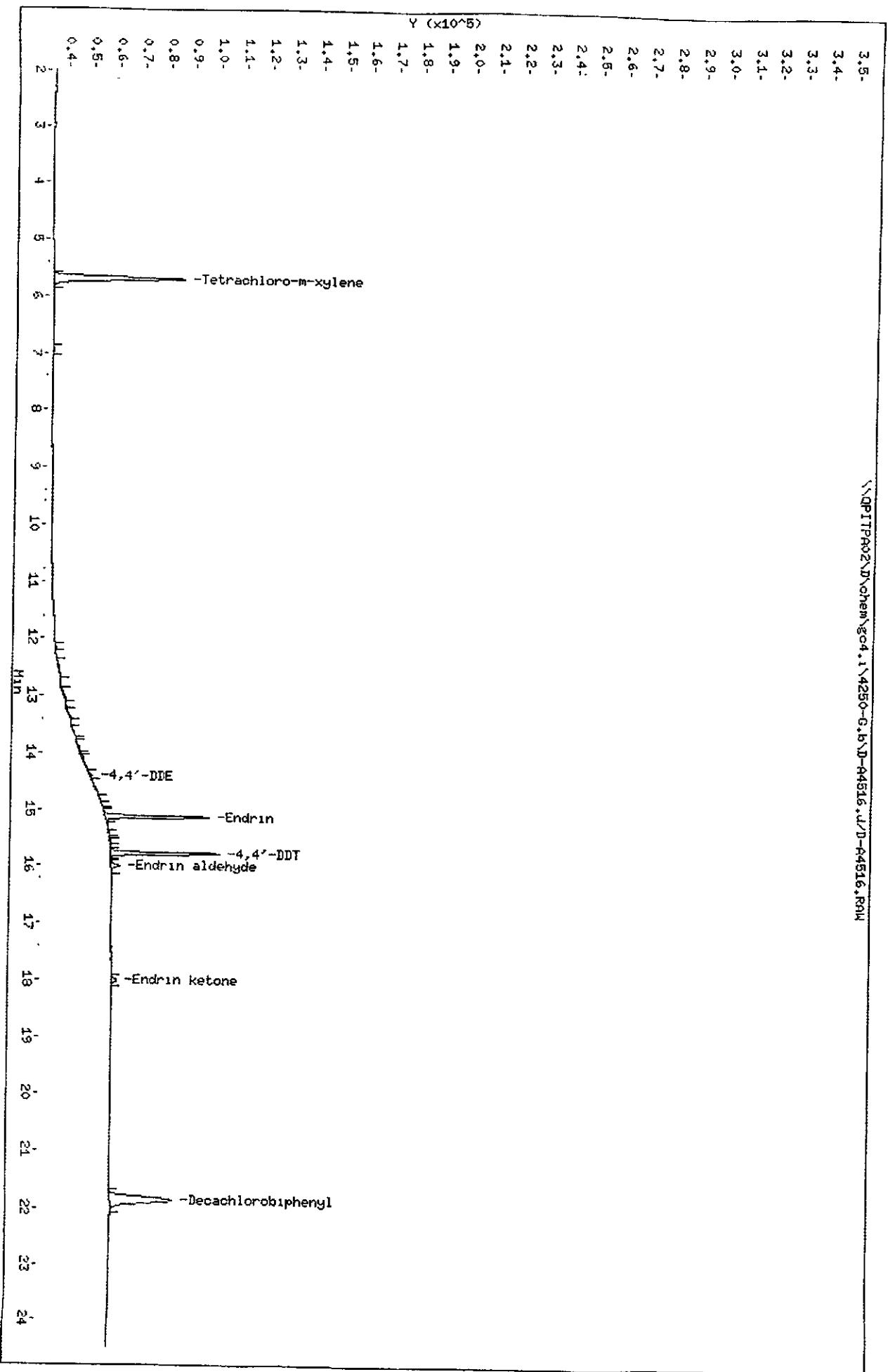
Endrin Recovery $\frac{(3531 + 2441)}{(3531 + 2441 + 40922)} \times 100 = 12.7\%$

DDT Recovery $\frac{(907)}{(907 + 43253)} \times 100 = 1.9\%$

Data File: \\QPITPA02\chem\god.1\4250-G.b\D-04516.1
Date: 25-JUL-2000 23:42
Client ID:
Sample Info: EVALB,4250-G.b, EVALBR,sab.,3,1
Column phase: DB808

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

\\QPITPA02\chem\god.1\4250-G.b\D-04516.1\D-04516.1.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4560.d
 Lab Smp Id: MEDA
 Inj Date : 26-JUL-2000 20:00
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDA,4250-G.b,, INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 09:22 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

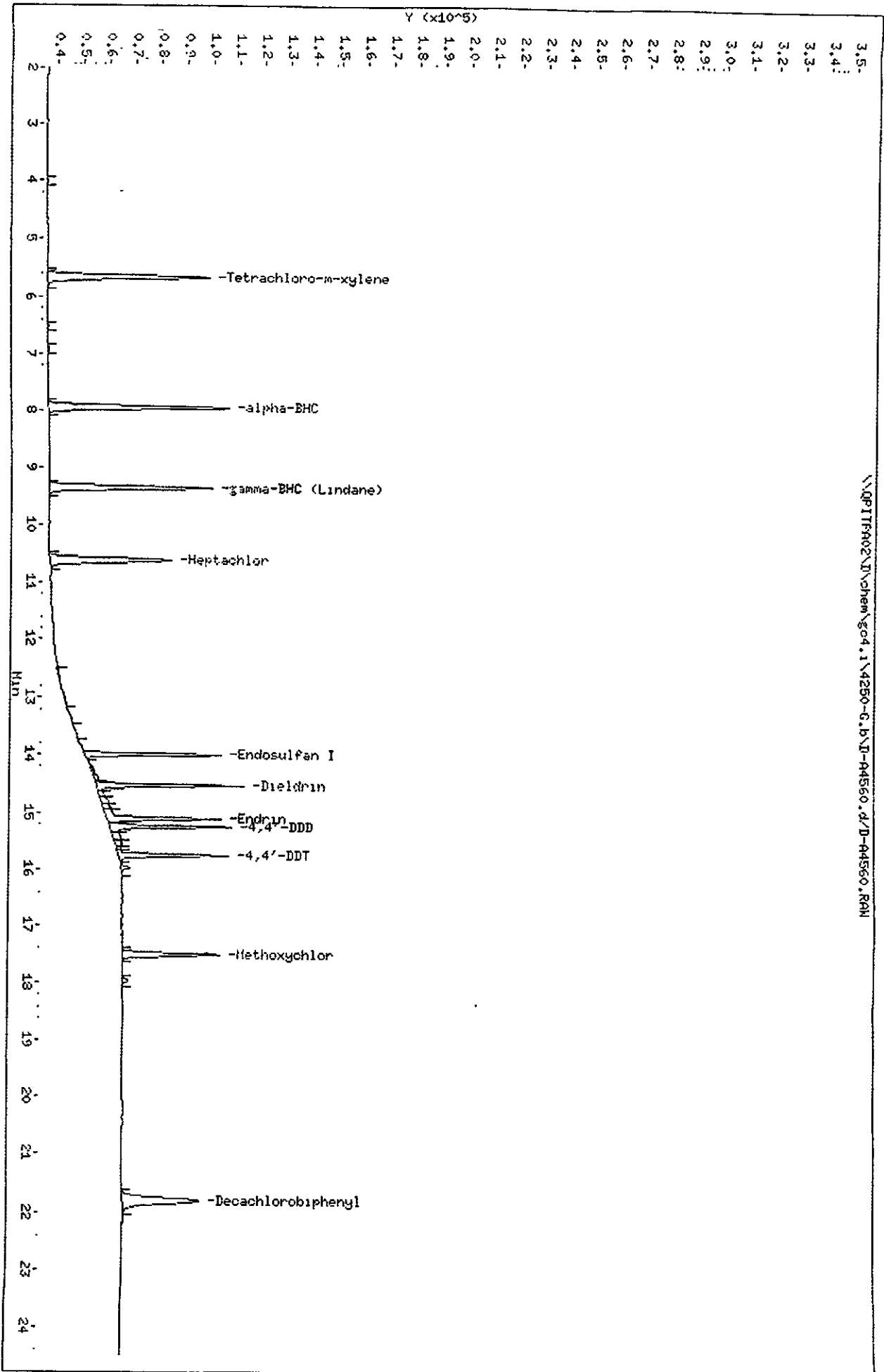
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
§ 1 Tetrachloro-m-xylene	5 660	5 680	-0.020	62825	0.02500	0.02447
5 alpha-BHC	7 940	7 973	-0.033	70438	0.02500	0.02479
6 gamma-BHC (Lindane)	9.346	9.380	-0.034	63827	0.02500	0.02518
10 Heptachlor	10 620	10.660	-0.040	17574	0.02500	0.02276
15 Endosulfan I	14 000	14 020	-0.020	53420	0.02500	0.02445
17 Dieldrin	14 526	14.546	-0.020	57908	0.02500	0.02424
20 Endrin	15 106	15.120	-0.014	44529	0.02500	0.02459
21 4,4'-DDD	15 240	15 260	-0.020	47702	0.02500	0.02613
23 4,4'-DDT	15.746	15.766	-0.020	42744	0.02500	0.02412
25 Methoxychlor	17 520	17.546	-0.026	38041	0.05000	0.04803
§ 30 Decachlorobiphenyl	21.800	21 800	0 000	29478	0.02500	0.02423 (M)

.. QC Flag Legend

M - Compound response manually integrated.

Data File: \\QPITFA02\chem\god.1\4250-G.b\D-04560.d
Date: 26-JUL-2000 20:00
Client ID:
Sample Info: HEMA,4250-G.b.,INDA,sub.,2,3
Column phase: DB608

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



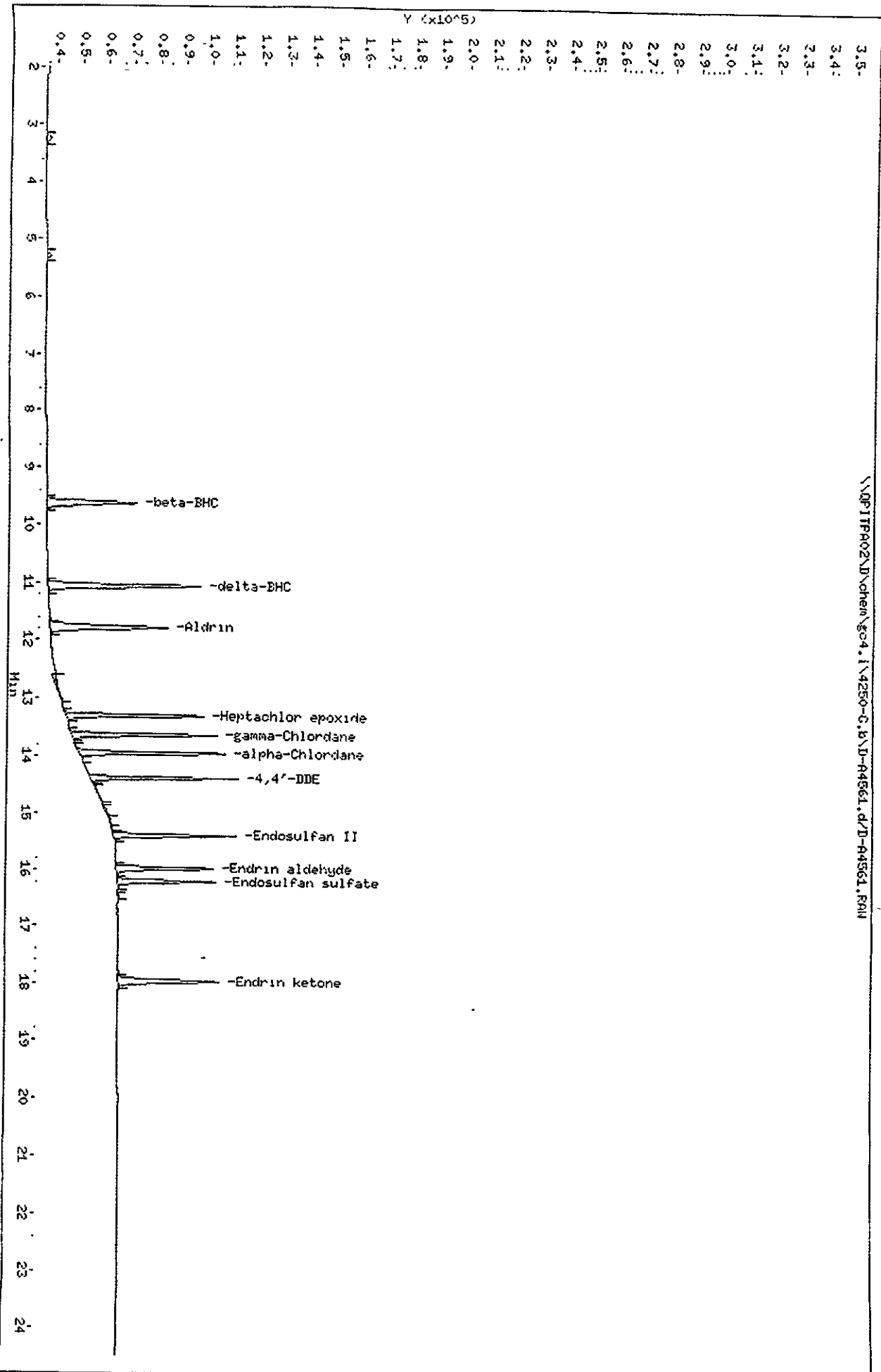
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4561.d
Lab Smp Id: MEDB
Inj Date : 26-JUL-2000 20:28
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,4250-G.b,,INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
Meth Date : 27-Jul-2000 09:22 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.780	11.813	-0.033	46297	0.02500	0.02377
7 beta-BHC	9.626	9.660	-0.034	35175	0.02500	0.02447
8 delta-BHC	11.060	11.093	-0.033	59810	0.02500	0.02470
12 Heptachlor epoxide	13.306	13.326	-0.020	54030	0.02500	0.02393
13 gamma-Chlordane	13.646	13.666	-0.020	56561	0.02500	0.02364
14 alpha-Chlordane	13.953	13.973	-0.020	56975	0.02500	0.02392
16 4,4'-DDE	14.386	14.400	-0.014	57647	0.02500	0.02437
22 Endosulfan II	15.393	15.413	-0.020	47906	0.02500	0.02372
24 Endrin aldehyde	15.966	15.986	-0.020	37643	0.02500	0.02414
26 Endosulfan sulfate	16.193	16.220	-0.027	38569	0.02500	0.02562
27 Endrin ketone	17.973	18.006	-0.033	39287	0.02500	0.02522

Data File: \\NP11FA02\Nohem\gc4.1\4250-G.b\D-44561.d
Date: 28-JUL-2000 20:28
Client ID:
Sample Info: HEDB,4250-G.b.,INUS.suh,,2,3
Column Phase: DR608

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



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4562.d
 Lab Smp Id: EVALB
 Inj Date : 26-JUL-2000 20:56
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 10:27 matkol Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-A4513.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.653	5.660	-0.007	50309	0.01960	0.01960(R)
16 4,4'-DDE	14.393	14.386	0.007	679	<0.0	0.0002870(M)
20 Endrin	15.106	15.106	0.000	42628	0.02354	0.02354(M)
21 4,4'-DDD	15.246	15.240	0.006	807	<0.0	0.0004420(M)
23 4,4'-DDT	15.746	15.746	0.000	42394	0.02392	0.02392(M)
24 Endrin aldehyde	15.966	15.966	0.000	2598	0.00167	0.001666(M)
27 Endrin ketone	17.966	17.973	-0.007	2138	0.00137	0.001373
\$ 30 Decachlorobiphenyl	21.793	21.800	-0.007	24537	0.02017	0.02017(RM)

QC Flag Legend

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

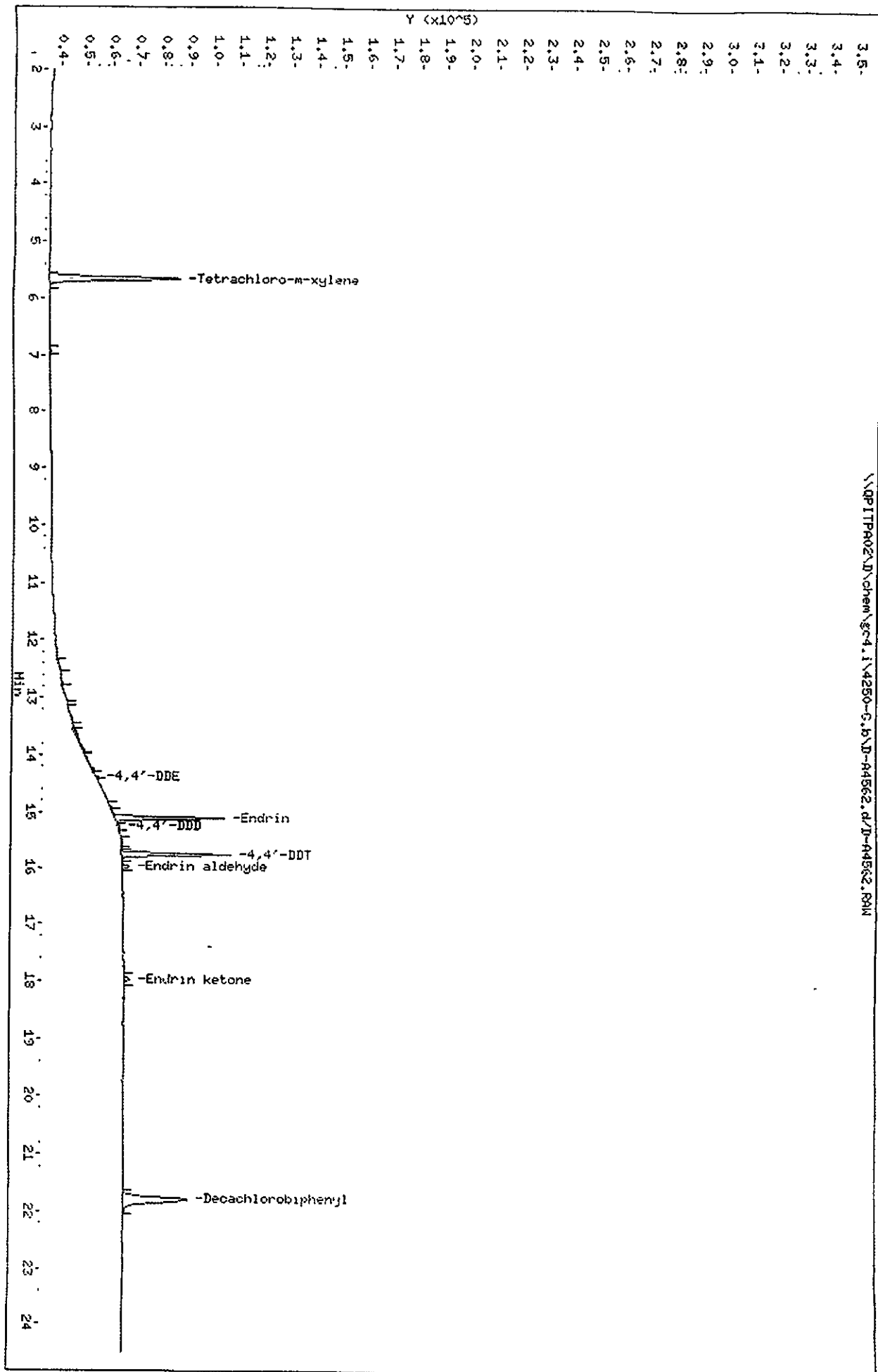
*DDT = 3.4
 Endrin = 10.0*

Endrin Breakdown, $\frac{(2598 + 2138)}{(2598 + 2138 + 42628)} \times 100 = 10.09\%$

DDT Breakdown, $\frac{(679 + 807)}{(679 + 807 + 42394)} \times 100 = 3.40\%$

Data File: \\NPITPA02\chem\gc4.1\4250-C.b\D-04562.d
 Date: 26-JUL-2000 20:56
 Client ID:
 Sample Info: EVALB,4250-C.b,,EVALBR,sub,,3.1
 Column phase: DB608

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



STL Pittsburgh

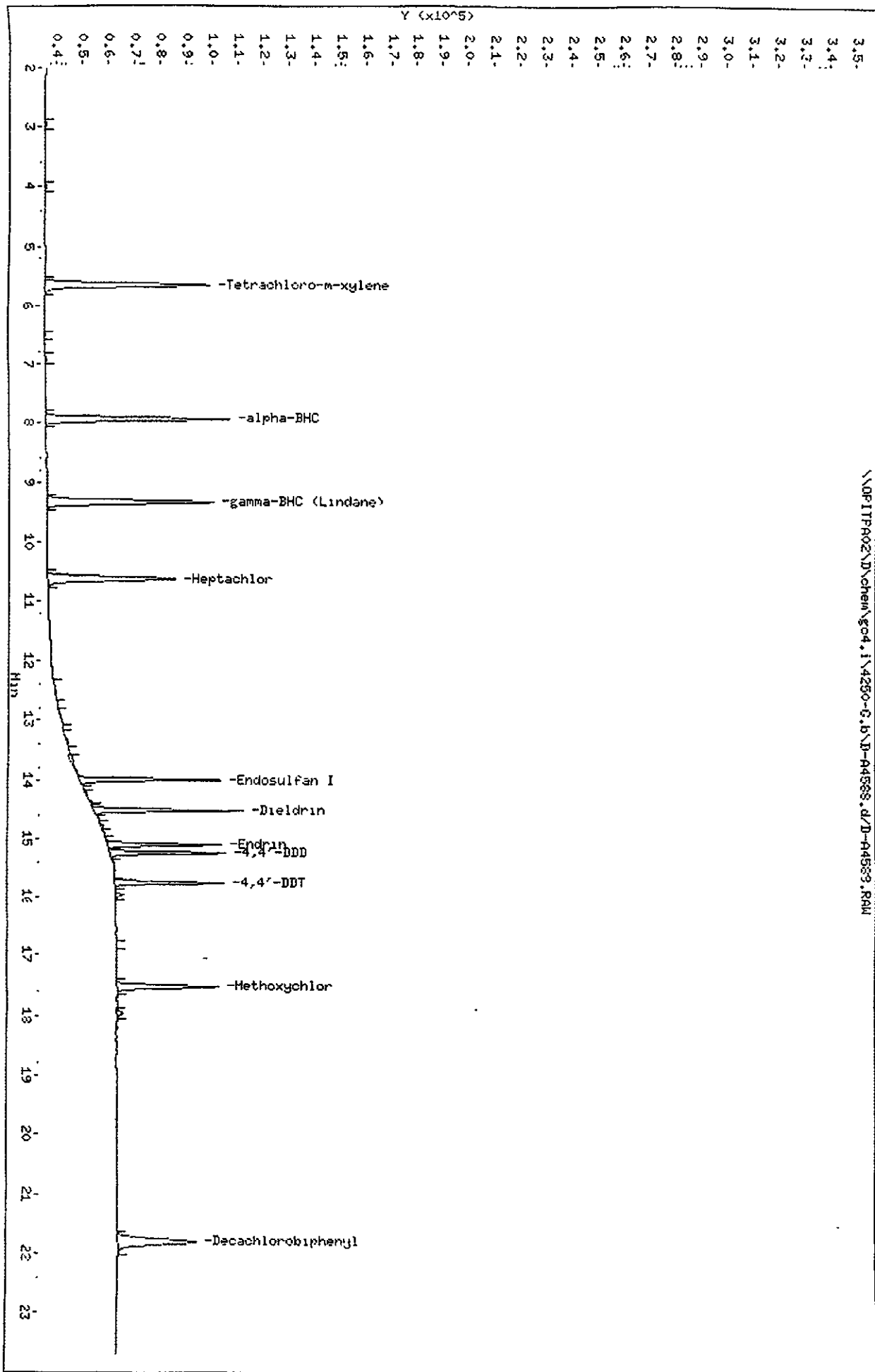
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4588.d
 Lab Smp Id: MEDA
 Inj Date : 27-JUL-2000 09:00
 Operator : 1891
 Smp Info : MEDA,4250-G.b,,INDA.sub,,2,3 Inst ID: gc4.i
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 11:42 colussyj Quant Type: ESTD
 Cal Date : 26-JUL-2000 23:15 Cal File: D-A4567.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.646	5.660	-0.014	63483	0.02500	0.02473
5 alpha-BHC	7.933	7.940	-0.007	71279	0.02500	0.02508
6 gamma-BHC (Lindane)	9.340	9.346	-0.006	64463	0.02500	0.02544
10 Heptachlor	10.620	10.620	0.000	49374	0.02500	0.02362
15 Endosulfan I	14.000	14.000	0.000	54448	0.02500	0.02492
17 Dieldrin	14.520	14.526	-0.006	57835	0.02500	0.02421
20 Endrin	15.100	15.106	-0.006	44081	0.02500	0.02434
21 4,4'-DDD	15.240	15.240	0.000	44647	0.02500	0.02446
23 4,4'-DDT	15.746	15.746	0.000	42656	0.02500	0.02407
25 Methoxychlor	17.513	17.520	-0.007	39243	0.05000	0.04955
\$ 30 Decachlorobiphenyl	21.793	21.800	-0.007	30451	0.02500	0.02503

Data File: \NQPI1P602\chem\gc4,1\4250-G.b\D-04588.d
 Date: 27-JUL-2000 09:00
 Client ID:
 Sample Info: HEDA,4250-G,b,INDA,sub,,2,3
 Column Phase: DB608

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

\\NQPI1P602\chem\gc4,1\4250-G.b\D-04588.d\D-04588.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4589.d
 Lab Smp Id: MEDB
 Inj Date : 27-JUL-2000 09:28
 Operator : 1891
 Smp Info : MEDB,4250-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 11:42 colussyj
 Cal Date : 26-JUL-2000 23:15
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

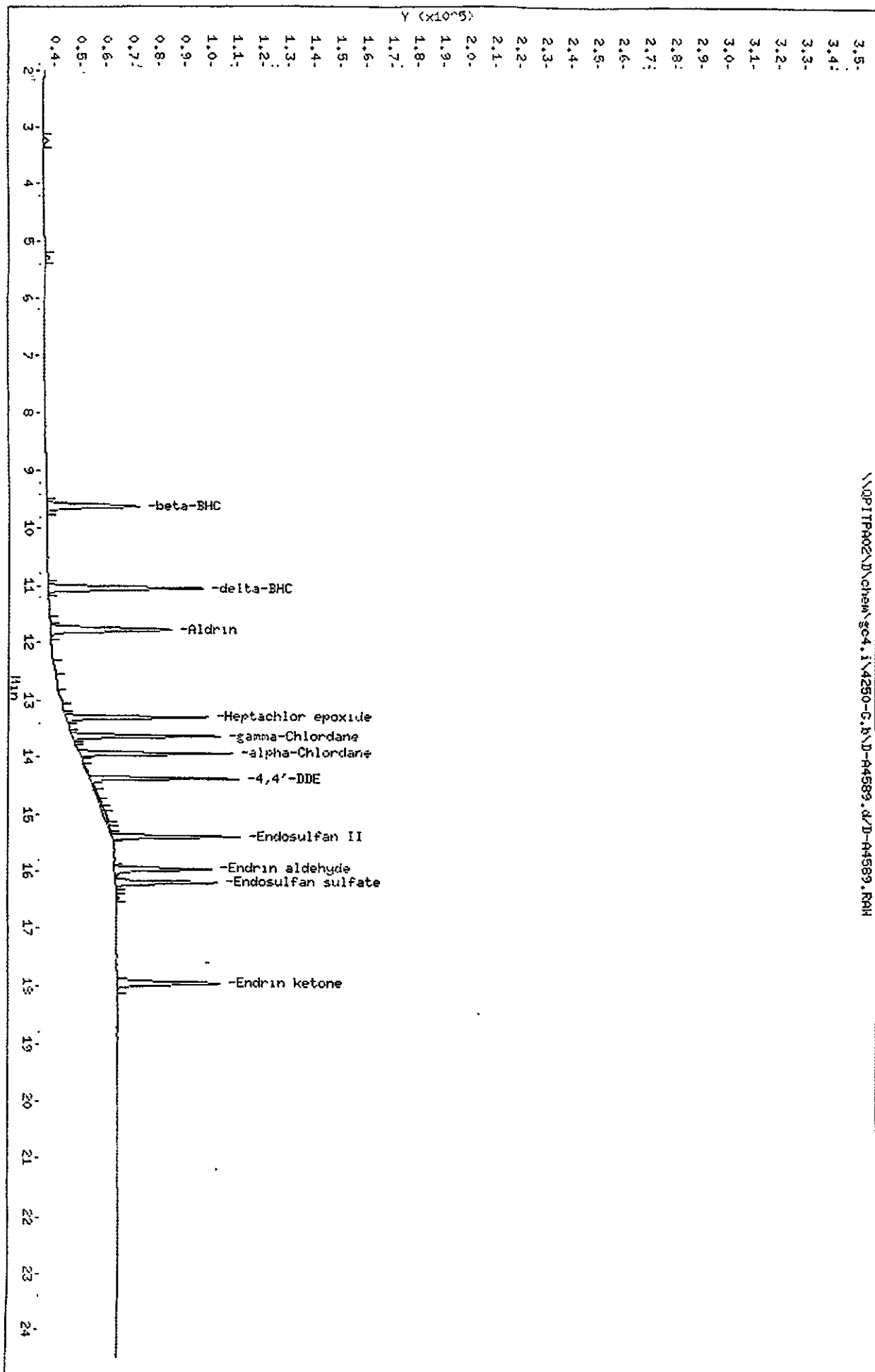
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-A4567.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.766	11.780	-0.014	46826	0.02500	0.02404
7 beta-BHC	9.613	9.626	-0.013	35885	0.02500	0.02496
8 delta-BHC	11.046	11.060	-0.014	60297	0.02500	0.02490
12 Heptachlor epoxide	13.293	13.306	-0.013	55205	0.02500	0.02445
13 gamma-Chlordane	13.633	13.646	-0.013	57600	0.02500	0.02408
14 alpha-Chlordane	13.940	13.953	-0.013	59475	0.02500	0.02497
16 4,4'-DDE	14.373	14.386	-0.013	57848	0.02500	0.02446
22 Endosulfan II	15.386	15.393	-0.007	49950	0.02500	0.02473
24 Endrin aldehyde	15.953	15.966	-0.013	37677	0.02500	0.02416
26 Endosulfan sulfate	16.186	16.193	-0.007	39119	0.02500	0.02598
27 Endrin ketone	17.960	17.973	-0.013	39962	0.02500	0.02566

6641257

Data File: \\NPITPA02\chem\c04.1\4250-G.b\D-44589.d
Date: 27-JUL-2000 09:28
Client ID:
Sample Info: HEDB,4250-G.b.,HDB.sub,2,3
Column phase: DB608

Instrument: c04.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 27-Jul-2000 13:26 Number of Cpnds : 31
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	90.000000
Initial:End Threshold	45.000000
Initial:Area Threshold	900.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
15.000:Start Threshold	672.000000
15.000:End Threshold	336.000000
15.000:Area Threshold	6720.000000

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.733	5.683-5.783	2.16e+006
58 MIREX	17.620	17.570-17.670	
2 Diallate A	7.233	7.183-7.283	
3 Diallate B	7.807	7.757-7.857	
4 HEXACHLOROBENZENE	7.027	6.977-7.077	
5 alpha-BHC	8.573	8.523-8.623	2.80e+006
6 gamma-BHC (Lindane)	9.993	9.943-10.043	2.42e+006
7 beta-BHC	12.400	12.350-12.450	1.55e+006
8 delta-BHC	13.027	12.977-13.077	3.21e+006
9 Chlordane	10.287	10.237-10.337	7.18e+004
	10.867	10.817-10.917	1.55e+005
	14.073	14.023-14.123	3.00e+005
	14.173	14.123-14.223	4.28e+005
10 Heptachlor	10.867	10.817-10.917	2.70e+006
11 Aldrin	11.813	11.763-11.863	2.62e+006
12 Heptachlor epoxide	13.480	13.430-13.530	3.14e+006
13 gamma-Chlordane	14.073	14.023-14.123	3.18e+006
14 alpha-Chlordane	14.167	14.117-14.217	3.10e+006
15 Endosulfan I	14.007	13.957-14.057	2.97e+006
16 4,4'-DDE	14.313	14.263-14.363	3.17e+006
17 Dieldrin	14.600	14.550-14.650	3.23e+006

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

Compound	RT	RT Window	RF
18 Toxaphene	15.353	15.303-15.403	2.49e+004
	15.680	15.630-15.730	2.60e+004
	16.147	16.097-16.197	2.13e+004
	16.900	16.850-16.950	2.75e+004
19 Isodrin	12.833	12.783-12.883	
20 Endrin	14.913	14.863-14.963	2.74e+006
21 4,4'-DDD	15.480	15.430-15.530	2.24e+006
22 Endosulfan II	15.640	15.590-15.690	2.56e+006
23 4,4'-DDT	15.773	15.723-15.823	2.34e+006
24 Endrin aldehyde	16.340	16.290-16.390	1.27e+006
25 Methoxychlor	16.847	16.797-16.897	1.10e+006
26 Endosulfan sulfate	16.947	16.897-16.997	1.64e+006
27 Endrin ketone	17.947	17.897-17.997	1.89e+006
28 Chlorobenzilate	15.213	15.163-15.263	
29 Kepone	17.827	17.777-17.877	
\$ 30 Decachlorobiphenyl	20.273	20.223-20.323	1.58e+006

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 27-Jul-2000 15:05 Number of Cpnds : 31
 Data Type : GC MULTI COMP

Global Integrator : Falcon
 Chromat Events

	Values
Initial:Start Threshold	90.000000
Initial:End Threshold	45.000000
Initial:Area Threshold	900.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
15.000:Start Threshold	672.000000
15.000:End Threshold	336.000000
15.000:Area Threshold	6720.000000

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.720	5.670-5.770	2.16e+006
58 MIREX	17.620	17.570-17.670	
2 Diallate A	7.233	7.183-7.283	
3 Diallate B	7.807	7.757-7.857	
4 HEXACHLOROBENZENE	7.027	6.977-7.077	
5 alpha-BHC	8.547	8.497-8.597	2.80e+006
6 gamma-BHC (Lindane)	9.960	9.910-10.010	2.42e+006
7 beta-BHC	12.380	12.330-12.430	1.55e+006
8 delta-BHC	13.007	12.957-13.057	3.21e+006
9 Chlordane	10.287	10.237-10.337	7.18e+004
	10.867	10.817-10.917	1.55e+005
	14.073	14.023-14.123	3.00e+005
	14.173	14.123-14.223	4.28e+005
10 Heptachlor	10.840	10.790-10.890	2.70e+006
11 Aldrin	11.793	11.743-11.843	2.62e+006
12 Heptachlor epoxide	13.460	13.410-13.510	3.14e+006
13 gamma-Chlordane	14.060	14.010-14.110	3.18e+006
14 alpha-Chlordane	14.153	14.103-14.203	3.10e+006
15 Endosulfan I	13.993	13.943-14.043	2.97e+006
16 4,4'-DDE	14.300	14.250-14.350	3.17e+006
17 Dieldrin	14.587	14.537-14.637	3.23e+006

Report Date : 27-Jul-2000 15:06

40
589046
DB1701

664 1261

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

Compound	RT	RT Window	RF
18 Toxaphene	15.353	15.303-15.403	2.49e+004
	15.680	15.630-15.730	2.60e+004
	16.147	16.097-16.197	2.13e+004
	16.900	16.850-16.950	2.75e+004
19 Isodrin	12.833	12.783-12.883	
20 Endrin	14.900	14.850-14.950	2.74e+006
21 4,4'-DDD	15.460	15.410-15.510	2.24e+006
22 Endosulfan II	15.620	15.570-15.670	2.56e+006
23 4,4'-DDT	15.760	15.710-15.810	2.34e+006
24 Endrin aldehyde	16.320	16.270-16.370	1.27e+006
25 Methoxychlor	16.827	16.777-16.877	1.10e+006
26 Endosulfan sulfate	16.927	16.877-16.977	1.64e+006
27 Endrin ketone	17.920	17.870-17.970	1.89e+006
28 Chlorobenzilate	15.213	15.163-15.263	
29 Kepone	17.827	17.777-17.877	
\$ 30 Decachlorobiphenyl	20.247	20.197-20.297	1.58e+006

WC
389048
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664 1262

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2000 17:14
 End Cal Date : 25-JUL-2000 22:19
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Cal Date : 27-Jul-2000 13:26 colussyj
 Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4509.d
 Level 2: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4510.d
 Level 3: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4511.d
 Level 4: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4512.d
 Level 5: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4513.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRP	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
58 MIREX	++++	++++	++++	++++	++++	++++	++++
2 Diallyate A	++++	++++	++++	++++	++++	++++	++++
3 Diallyate B	++++	++++	++++	++++	++++	++++	++++
4 HEXACHLOROBENZENE	++++	++++	++++	++++	++++	++++	++++
5 alpha-BHC	2433400	2565900	2797840	3054360	3167810	2803862	11.124
6 gamma-BHC (Lindane)	2224800	2285700	2381800	2590820	2634000	2423424	7.511
7 beta-BHC	1496200	1593800	1532520	1582500	1527490	1546502	2.631
8 delta-BHC	2840000	3031700	3149680	3487680	3527460	3207304	9.225
9 Chlordane(1)	++++	++++	71760	++++	++++	71760	0.000
(2)	++++	++++	154668	++++	++++	154668	0.000
(3)	++++	++++	300468	++++	++++	300468	0.000
(4)	++++	++++	427720	++++	++++	427720	0.000
10 Heptachlor	2624600	2667300	2642560	2803380	2751010	2697770	2.830
11 Aldrin	2382800	2537900	2590240	2814340	2792290	2623514	6.905
12 Heptachlor epoxide	2977000	3119800	3072200	3305500	3213430	3137586	4.042
13 gamma-Chlordane	2984000	3191900	3102640	3344780	3287370	3182138	4.532
14 alpha-Chlordane	3008000	3097900	3034000	3190940	3190810	3104330	2.755
15 Endosulfan I	2922000	2990500	2902800	3027600	2990590	2966698	1.762
16 4,4'-DDE	3020600	3127700	3129880	3286920	3307770	3174574	3.802
17 Dieldrin	3155800	3166500	3168520	3318060	3333730	3228522	2.763
18 Toxaphene(1)	++++	++++	24911	++++	++++	24911	0.000
(2)	++++	++++	25961	++++	++++	25961	0.000
(3)	++++	++++	21310	++++	++++	21310	0.000
(4)	++++	++++	27467	++++	++++	27467	0.000
19 Isodrin	++++	++++	++++	++++	++++	++++	++++
20 Endrin	3258400	2749000	2509360	2541200	2634230	2738438	11.147

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DB1701

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2000 17:14
 End Cal Date : 25-JUL-2000 22:19
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Cal Date : 27-Jul-2000 13:26 colussyj
 Curve Type : Average

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
21 4,4'-DDD	2333600	2167100	2178920	2238280	2263320	2236244	3.023
22 Endosulfan II	2461400	2588100	2468160	2653680	2608410	2555950	3.387
23 4,4'-DDT	2315600	2306700	2311520	2362100	2392620	2337708	1.621
24 Endrin aldehyde	1177800	1264000	1222240	1332700	1345310	1268410	5.631
25 Methoxychlor	1108900	1103450	1081440	1102110	1098325	1098845	0.950
26 Endosulfan sulfate	1499800	1621700	1593440	1725520	1742000	1636492	6.096
27 Endrin ketone	1789600	1929700	1851440	1961540	1927540	1891964	3.705
28 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 1 Tetrachloro-m-xylene	2296000	2245700	2150080	2111160	1988570	2158302	5.565
\$ 30 Decachlorobiphenyl	1552000	1613600	1587600	1594680	1535330	1576642	2.037

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: : Contract: **664 1264**
 Lab Code: Case No.: SAS No.: SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/25/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 07/25/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 1646

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
===== Endrin	14.91	14.85	14.95	0.02378	0.02500	-4.9
4,4'-DDT	15.77	15.70	15.80	0.02485	0.02500	-0.6

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

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: _____ Contract: **664 1265**
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/25/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 07/25/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 2342

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
===== Endrin	14.91	14.85	14.95	0.02216	0.02500	-11.4
4,4'-DDT	15.77	15.70	15.80	0.02469	0.02500	-1.2
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: _____ Contract: **664 1266**
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 07/25/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM) : _____ Date Analyzed : 07/26/00
 Lab Sample ID (PEM) : EVALB Time Analyzed : 2056

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
Endrin	14.90	14.85	14.95	0.02330	0.02500	-6.8
4,4'-DDT	15.76	15.70	15.80	0.02420	0.02500	-3.2

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

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-JUL-2000 20:00
 Lab File ID: D-B4560.d Init. Cal. Date(s): 25-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 17:14 22:19
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
\$ 1 Tetrachloro-m-xylene	2158302	2139640	0.000	-0.9	15.0
5 alpha-BHC	2803862	2810120	0.010	0.2	15.0
6 gamma-BHC (Lindane)	2423424	2423880	0.010	0.0	15.0
10 Heptachlor	2697770	2596960	0.010	-3.7	15.0
15 Endosulfan I	2966698	2910280	0.010	-1.9	15.0
17 Dieldrin	3228522	3199400	0.010	-0.9	15.0
20 Endrin	2738438	2483440	0.010	-9.3	15.0
21 4,4'-DDD	2236244	2208840	0.010	-1.2	15.0
23 4,4'-DDT	2337708	2256200	0.010	-3.5	15.0
25 Methoxychlor	1098845	1071180	0.010	-2.5	15.0
\$ 30 Decachlorobiphenyl	1576642	1586400	0.010	0.6	15.0

06/20/

Data File: \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4561.d
Report Date: 27-Jul-2000 14:29

664 1268

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 26-JUL-2000 20:28
Lab File ID: D-B4561.d Init. Cal. Date(s): 25-JUL-2000 25-JUL-2000
Analysis Type: Init. Cal. Times: 17:14 22:19
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
11 Aldrin	2623514	2542760	0.010	-3.1	15.0
7 beta-BHC	1546502	1521360	0.010	-1.6	15.0
8 delta-BHC	3207304	3204120	0.010	-0.1	15.0
12 Heptachlor epoxide	3137586	3053960	0.010	-2.7	15.0
13 gamma-Chlordane	3182138	3077520	0.010	-3.3	15.0
14 alpha-Chlordane	3104330	3019520	0.010	-2.7	15.0
16 4,4'-DDE	3174574	3146840	0.010	-0.9	15.0
22 Endosulfan II	2555950	2481040	0.010	-2.9	15.0
24 Endrin aldehyde	1268410	1261040	0.010	-0.6	15.0
26 Endosulfan sulfate	1636492	1652040	0.010	1.0	15.0
27 Endrin ketone	1891964	1957240	0.010	3.5	15.0

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664 1269

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-JUL-2000 09:01
 Lab File ID: D-B4588.d Init. Cal. Date(s): 25-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 17:14 22:19
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
\$ 1 Tetrachloro-m-xylene	2158302	2135040	0.000	-1.1	15.0
5 alpha-BHC	2803862	2790840	0.010	-0.5	15.0
6 gamma-BHC (Lindane)	2423424	2433520	0.010	0.4	15.0
10 Heptachlor	2697770	2637160	0.010	-2.2	15.0
15 Endosulfan I	2966698	2963520	0.010	-0.1	15.0
17 Dieldrin	3228522	3197920	0.010	-0.9	15.0
20 Endrin	2738438	2524560	0.010	-7.8	15.0
21 4,4'-DDD	2236244	2223920	0.010	-0.6	15.0
23 4,4'-DDT	2337708	2273160	0.010	-2.8	15.0
25 Methoxychlor	1098845	1090840	0.010	-0.7	15.0
\$ 30 Decachlorobiphenyl	1576642	1579600	0.010	0.2	15.0

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 27-JUL-2000 09:28
 Lab File ID: D-B4589.d Init. Cal. Date(s): 25-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 17:14 22:19
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
11 Aldrin	2623514	2594680	0.010	-1.1	15.0	
7 beta-BHC	1546502	1525280	0.010	-1.4	15.0	
8 delta-BHC	3207304	3207600	0.010	0.0	15.0	
12 Heptachlor epoxide	3137586	3049840	0.010	-2.8	15.0	
13 gamma-Chlordane	3182138	3079440	0.010	-3.2	15.0	
14 alpha-Chlordane	3104330	3056680	0.010	-1.5	15.0	
16 4,4'-DDE	3174574	3117040	0.010	-1.8	15.0	
22 Endosulfan II	2555950	2496680	0.010	-2.3	15.0	
24 Endrin aldehyde	1268410	1252600	0.010	-1.2	15.0	
26 Endosulfan sulfate	1636492	1675360	0.010	2.4	15.0	
27 Endrin ketone	1891964	1936200	0.010	2.3	15.0	

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract: **664 1271**
 Lab Code: Case No.: SAS No.: SDG No.: COG200210
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/25/00 08/02/00
 Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
		TCX: 5.73		DCB: 20.27	
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	EVALB	07/25/00	1646	5.73	20.27
02	MEDTOX	07/25/00	1714	5.73	20.27
03	MEDCHLOR	07/25/00	1741	5.73	20.27
04	LOWA	07/25/00	1809	5.73	20.27
05	MLOWA	07/25/00	1837	5.73	20.27
06	MEDA	07/25/00	1905	5.73	20.27
07	MHIGHA	07/25/00	1932	5.73	20.27
08	HIGHA	07/25/00	2000	5.73	20.27
09	LOWB	07/25/00	2028		
10	MLOWB	07/25/00	2055		
11	MEDB	07/25/00	2123		
12	MHIGHB	07/25/00	2151		
13	HIGHB	07/25/00	2219		
14	2ND A	07/25/00	2246	5.74	20.27
15	2ND B	07/25/00	2314		
16	EVALB	07/25/00	2342	5.74	20.27
17	MEDA	07/26/00	2000	5.72	20.25
18	MEDB	07/26/00	2028		
19	EVALB	07/26/00	2056	5.72	20.24
20	PBLK1 DGM9V101	07/27/00	0038	5.72	20.24
21	LCS1 DGM9V102	07/27/00	0106	5.72	20.24
22	DF/S1/201/WA DGJ6M103	07/27/00	0802	5.71	20.24
23	MEDA	07/27/00	0901	5.71	20.25
24	MEDB	07/27/00	0928		
25					
26					
27					
28					
29					
30					
31					
32					

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

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

664 1272

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4501.d
 Lab Smp Id: EVALB
 Inj Date : 25-JUL-2000 16:46
 Operator : 1891
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC085

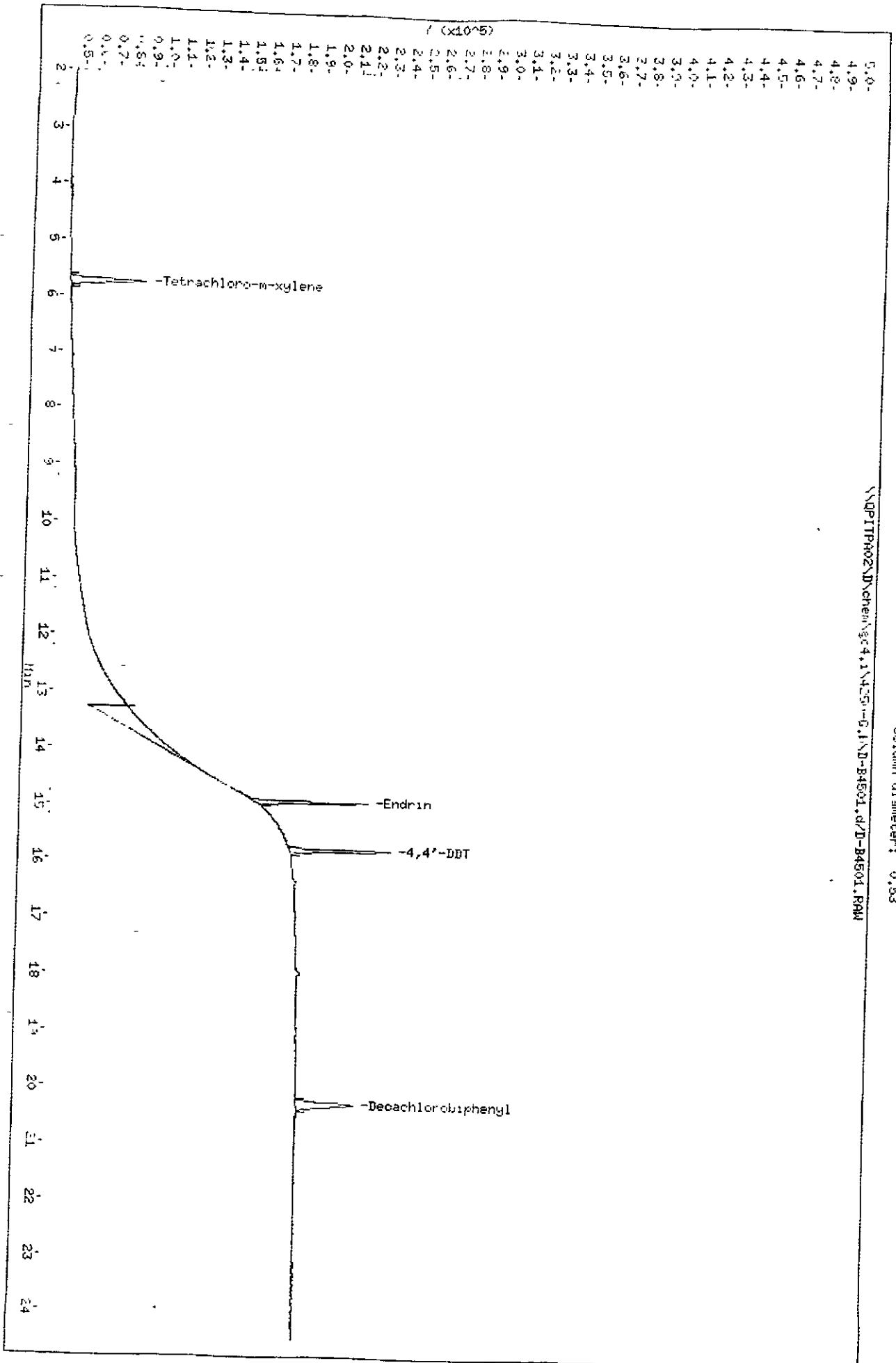
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
1 Tetrachloro-m-xylene	5 733	5 733	0 000	42934	0 01989	0 01989(R)
16 4,4' DDE	Compound Not Detected					
20 Endrin	14 913	14 913	0 000	65132	0 02378	0 02378
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15 773	15 773	0 000	58090	0 02485	0 02485
24 Endrin aldehyde	Compound Not Detected					
27 Endrin ketone	Compound Not Detected					
30 Decachlorobiphenyl	20 273	20 273	0 000	32134	0 02038	0 02038(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \NQPITP02\Nchem\804,1\4250-G.b-D-B4501.d
Date: 26-JUL-2000 16:46
Client ID:
Sample Info: EWLE,4250-G.b,EWALBR.sub,7.1
Column phase: DB1701

Instrument: 804.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4502.d
 Lab Smp Id: MEDTOX
 Inj Date : 25-JUL-2000 17:14
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDTOX,4250-G.b,,1-TOX.sub,,1,3
 Misc Info : 190-84-13
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-TOX.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAI-AMT (ng)	ON-COL (ng)
18 Toxaphene	15.353	15.353	0.000	24911	1.00000	1.000(M)
\$ 1 Tetrachloro-m-xylene	5.733	5.733	0.000	53378	0.02500	0.02500(M)
\$ 20 Decachlorobiphenyl	20.273	20.273	0.000	40351	0.02500	0.02500(M)

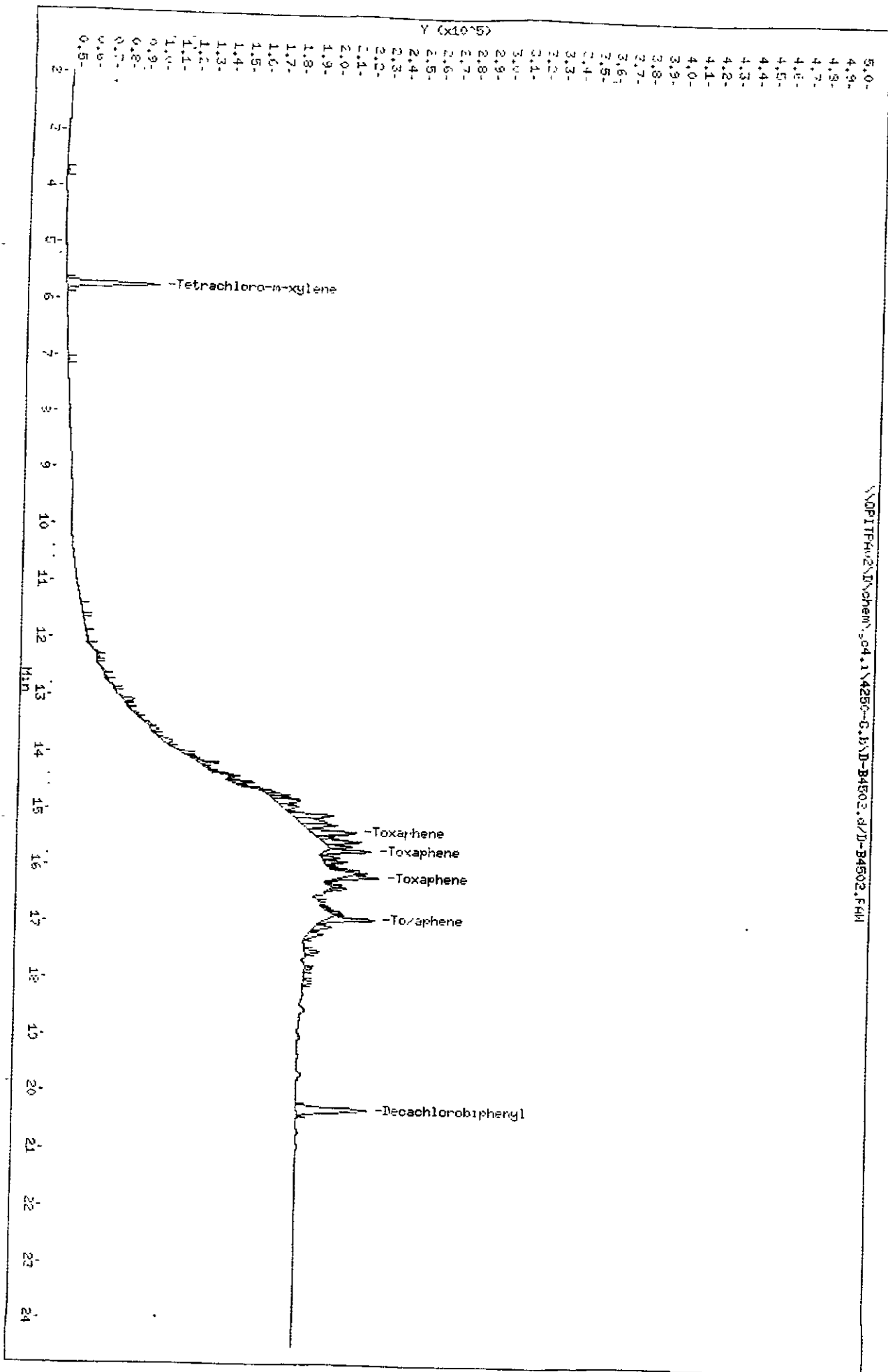
QC Flag Legend

M - Compound response manually integrated.

6641275

Data File: \NOPITPA02D\chem\94.1\4250-G.B.D-B4502.d
Date : 25-JUL-2000 17:14
Client ID:
Sample Ino: MEDTOX,450-G,b.,1-TOX,sub.,1,3
Column phase: DB1701

Instrument: 804.1
Operator: L894
Column diameter: 0.53



664 1276

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4503.d
Lab Smp Id: MEDCHLOR
Inj Date : 25-JUL-2000 17:41
Operator : 1891
Smp Info : MEDCHLOR,4250-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-85-10
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 19:05 Cal File: D-B4506.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COI. (ng)
9 Chlordane	10 286	10 286	0 000	17940	0 25000	0 2500(M)
\$ 1 Tetrachloro-m-xylene	5 733	5.733	0 000	55470	0 02500	0 02500
\$ 30 Decachlorobiphenyl	20 266	20 273	-0 007	42237	0 02500	0 02500

QC Flag Legend

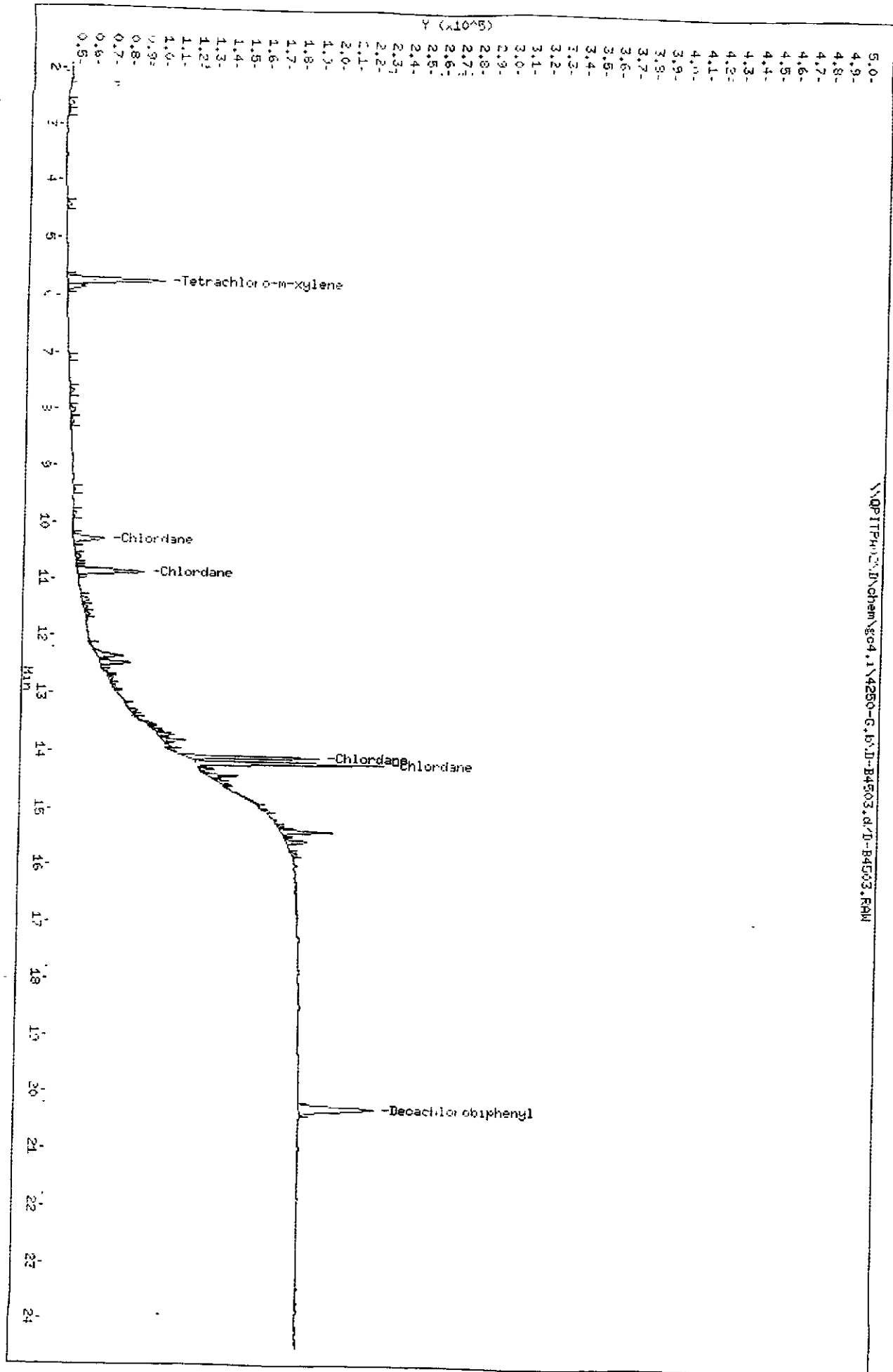
M - Compound response manually integrated.

6641277

Data File: \NQPITPRO2\Inchem\sc4.1\4250-G.B.D-B4503.d
Date: 25-JUL-2000 17:41
Client ID:
Sample Info: HEDCHLOR,4250-G.B.,2-CHLLO,EMB.,1,3
Column phase: DB1701

Instrument: sc4.1
Operator: 1891
Column diameter: 0.53

\NQPITPRO2\Inchem\sc4.1\4250-G.B.D-B4503.d\0-B4503.RAW



664 1278

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4504.d
 Lab Smp Id: LOWA
 Inj Date : 25-JUL-2000 18:09
 Operator : 1891 Inst ID: gc4.i
 Smp Info : LOWA,4250-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-84-1
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 tetrachloro-m-xylene	5 733	5 733	0 000	11480	0 00500	0 005164
5 alpha BHC	8 573	8 573	0 000	12167	0 00500	0 004652
6 gamma BHC (Lindane)	9 993	9 993	0 000	11174	0 00500	0 004830
10 Heptachlor	10 866	10 866	0 000	13123	0 00500	0 004982
15 Endosulfan I	14 006	14 006	0 000	14610	0 00500	0 005016
17 Dieldrin	14 600	14 600	0 000	15779	0 00500	0 004997
20 Endrin	14 920	14 913	0 007	16792	0.00500	0 005619
21 4,4'-DDD	15 480	15 480	0 000	11668	0 00500	0 005171
23 4,4'-DDT	15 773	15 773	0 000	11578	0 00500	0 005004
25 Methoxychlor	16 846	16 846	0 000	11989	0 01000	0 01012
\$ 30 Decachlorobiphenyl	20 273	20 273	0.000	7760	0 00500	0 004943

Data File: \NQPITPA02\Nchem\804.1\4250-G.I.D-P4504.d
Date: 28-JUL-2000 18:03

Client ID:

Sample Info: LONA,4250-G.I.,3-INDA,sub,1,1

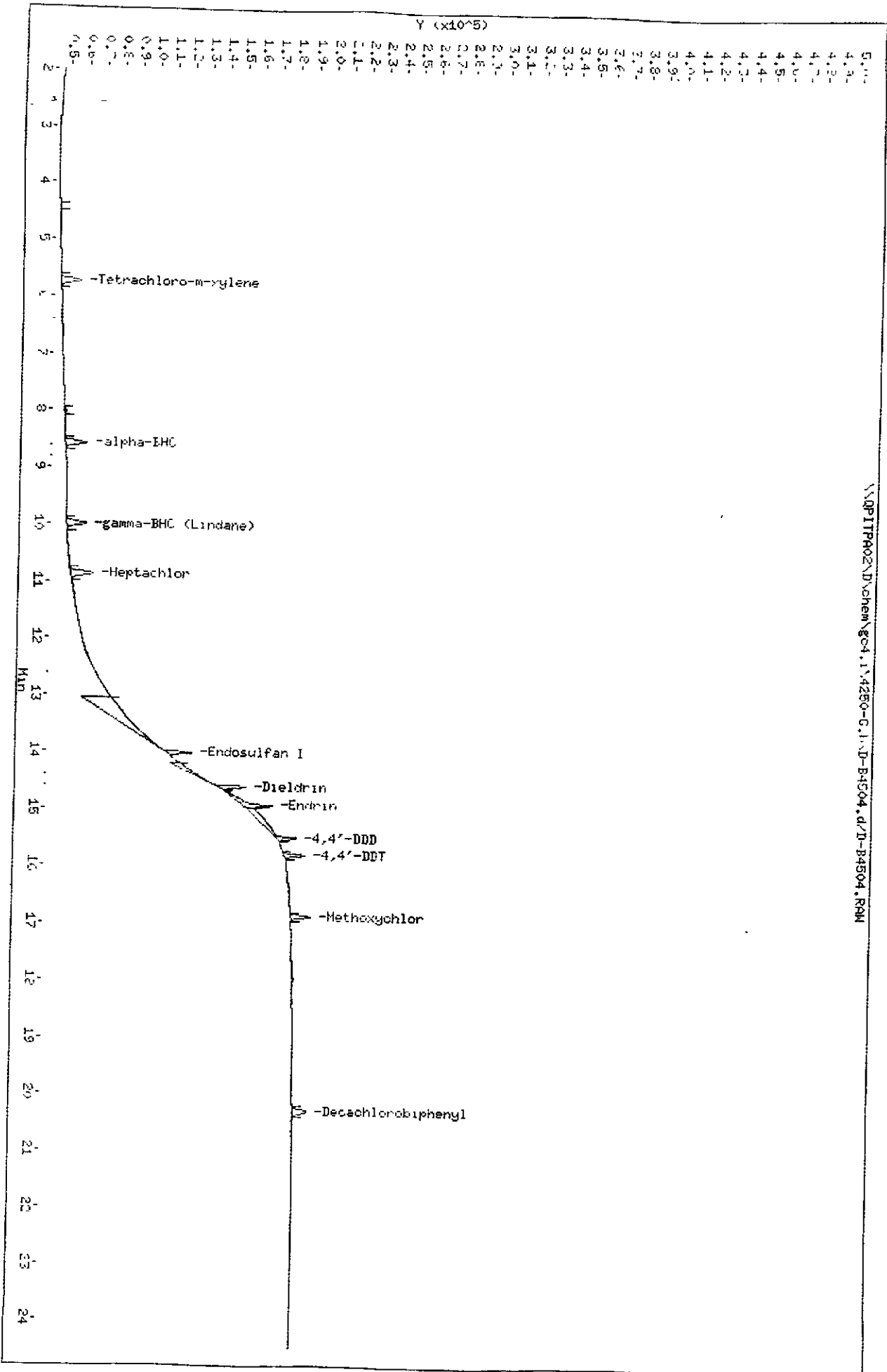
Column phase: DB1701

Instrument: 804.1

Operator: 1831

Column diameter: 0.53

\NQPITPA02\Nchem\804.1\4250-G.I.D-P4504.d\1-P4504.RAW



664 1280

STL Pittsburgh

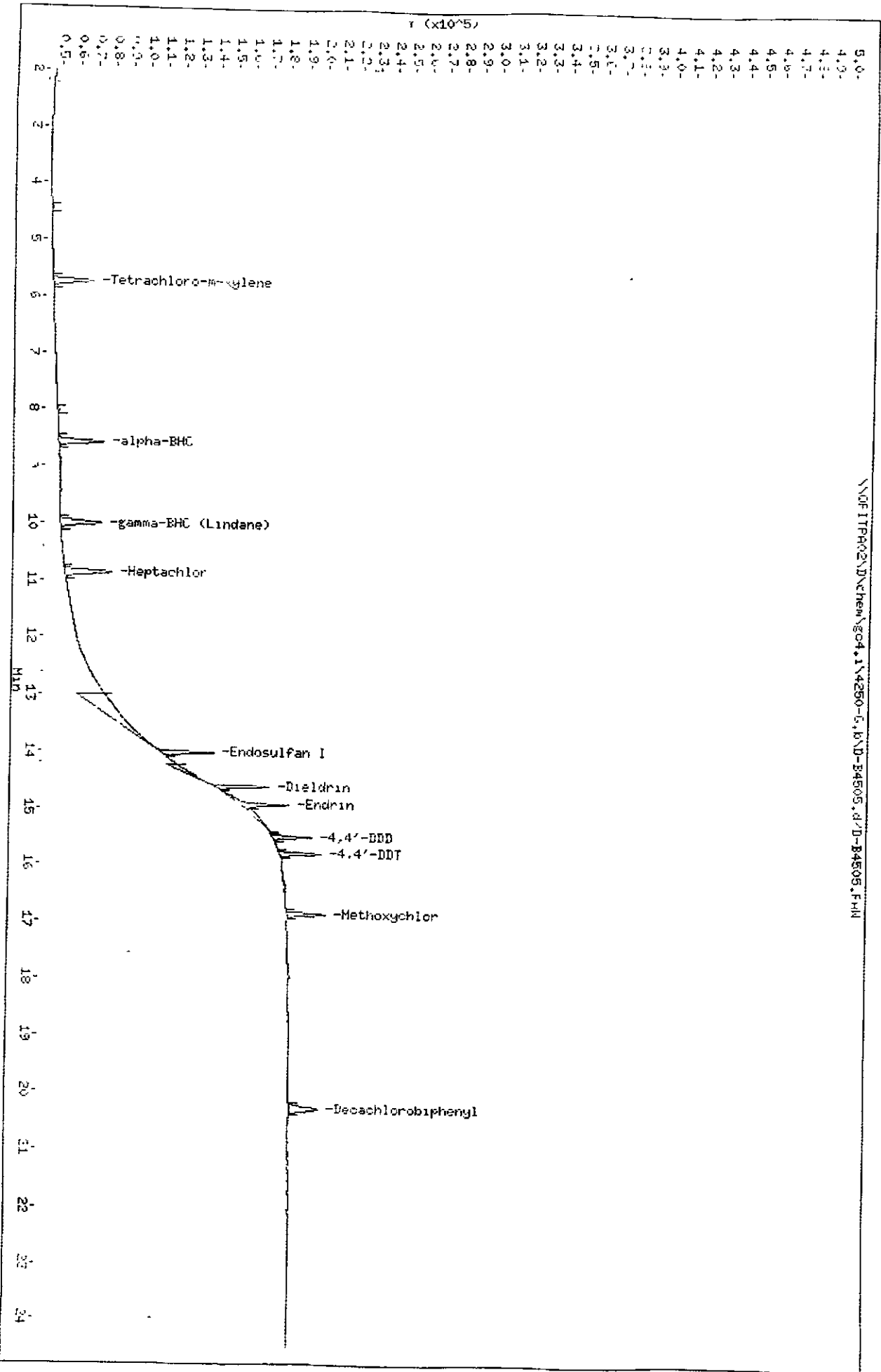
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4505.d
 Lab Smp Id: MLOWA
 Inj Date : 25-JUL-2000 18:37
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWA,4250-G.b,,3-INDA.sub,,1,2
 Misc Info : 190-84-2
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug)	ON-COL (ng)
1 Tetrachloro-m-xylene	5.733	5.733	0.000	22457	0.01000	0.01007
5 alpha-BHC	8.573	8.573	0.000	25659	0.01000	0.009872
6 gamma-BHC (Lindane)	9.993	9.993	0.000	22857	0.01000	0.009949
10 Heptachlor	10.866	10.866	0.000	26673	0.01000	0.01008
15 Endosulfan I	14.006	14.006	0.000	29905	0.01000	0.01018
17 Dieldrin	14.600	14.600	0.000	31665	0.01000	0.01001
20 Endrin	14.913	14.913	0.000	27490	0.01000	0.009683
22 4,4'-DDD	15.480	15.480	0.000	21671	0.01000	0.009733
23 4,4'-DDT	15.773	15.773	0.000	23067	0.01000	0.009980
25 Methoxychlor	16.846	16.846	0.000	22069	0.02000	0.02010
30 Decachlorobiphenyl	20.273	20.273	0.000	16136	0.01000	0.01018

Date File: \NOF1\F02\IN\chem\904.1\4250-6.b.D-B4505.d
Date: 25-JUL-2000 18:37
Client ID:
Sample Info: HLOM4.4250-G.Hr,3-INDH.Sub,1,2
Column phase: DB1701

Instrument: 904.1
Operator: 1891
Column diameter: 0.53

\NOF1\F02\IN\chem\904.1\4250-6.b.D-B4505.d\B4505.FID



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.1\4250-G.b\D-B4506.d
 Lab Smp Id: MEDA
 Inj Date : 25-JUL-2000 19.05
 Operator : 1891
 Smp Info : MEDA,4250-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.1\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 19:05 Cal File: D-B4506.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-p-xy'ene	5 733	5 733	0 000	53752	0 02500	0 02500
5 alpha-BHC	8 573	8 573	0 000	69946	0 02500	0 02500(M)
6 gamma-BHC (Lindane)	9 993	9 993	0 000	59545	0 02500	0 02500(M)
10 Heptachlor	10 866	10 866	0 000	66064	0 02500	0 02500(M)
15 Endosulfan I	14 006	14 006	0 000	72570	0 02500	0 02500(M)
17 Dieldrin	14 600	14 600	0 000	79213	0 02500	0 02500(M)
20 Endrin	14 913	14 913	0 000	62734	0 02500	0 02500(M)
21 4,4' DDB	15 480	15 480	0 000	54473	0 02500	0 02500(M)
23 4,4' -DDT	15 773	15 773	0 000	57788	0 02500	0 02500(M)
25 Methoxychlor	16 846	16 846	0 000	54072	0 05000	0 05000(M)
\$ 30 Decachlorobiphenyl	20 273	20 273	0 000	39690	0 02500	0 02500(M)

QC Flag Legend

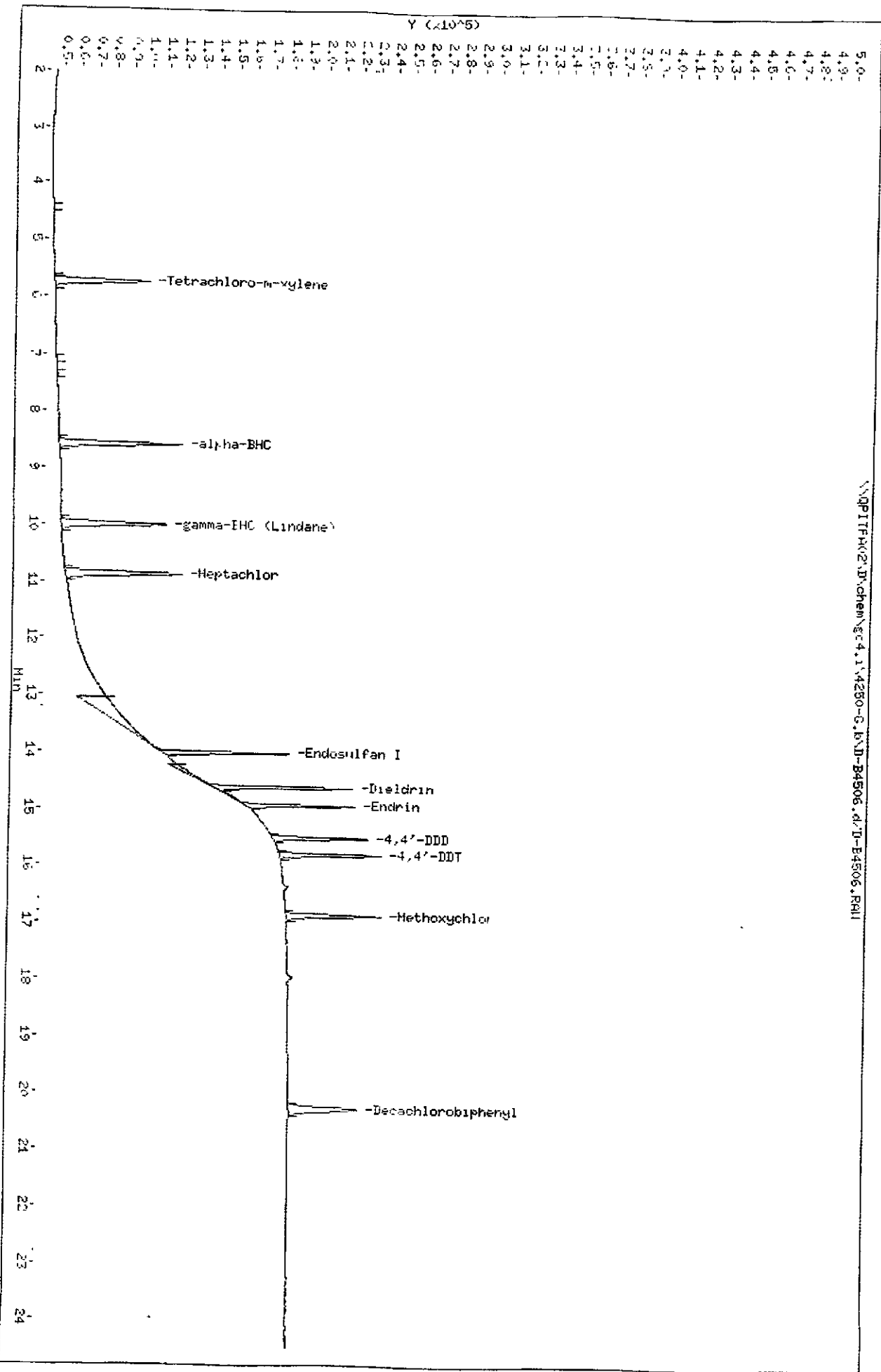
M - Compound response manually integrated.

Data File: \\NPITF\PC2\Inchem\504,1\4250-G.J\N-D-B4506.d
Date: 25-JUL-2000 19:05
Client ID:
Sample Info: MEDA,4250-G,J,3-INDA,sub,1,7

Column phase: DB1701

Instrument: 504.1
Operator: 1391
Column diameter: 0.53

\\NPITF\PC2\Inchem\504,1\4250-G.J\N-D-B4506.d\T-B4506.PRI1



664 1284

STL Pittsburgh

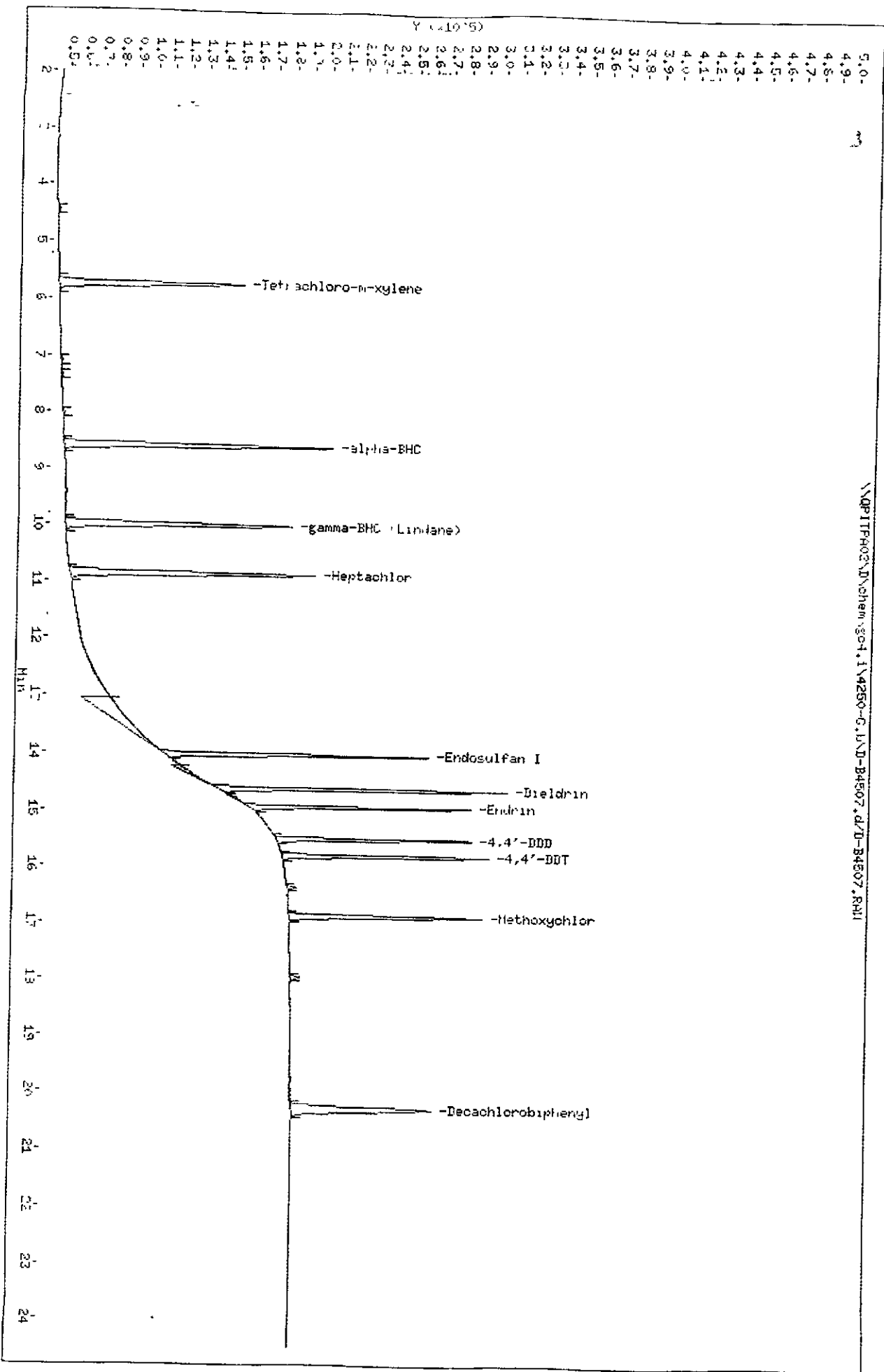
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 Lab Smp Id: MHIGHA
 Inj Date : 25-JUL-2000 19:32
 Operator : 1891 Inst ID: gc4.1
 Smp Info : MHIGHA,4250-G.b,,3-INDA.sub,,1,4
 Misc Info : 190-84-4
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14.35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
§ 1 Tetrachloro-m-xylene	5.733	5.733	0.000	105558	0.05000	0.04796
5 alpha-BHC	8.573	8.573	0.000	152718	0.05000	0.05629
6 gamma BHC (lindane)	9.993	9.993	0.000	129541	0.05000	0.05464
10 Heptachlor	10.866	10.866	0.000	140169	0.05000	0.05221
15 Endosulfan I	14.006	14.006	0.000	151380	0.05000	0.05113
17 Dieldrin	14.600	14.600	0.000	165903	0.05000	0.05181
20 Endrin	14.913	14.913	0.000	127060	0.05000	0.04596
21 4,4'-DDD	15.480	15.480	0.000	111914	0.05000	0.05020
23 4,4'-DDT	15.773	15.773	0.000	118105	0.05000	0.05087
25 Methoxychlor	16.846	16.846	0.000	110211	0.10000	0.10003
§ 30 Decachlorobiphenyl	20.273	20.273	0.000	79734	0.05000	0.05024

Data File: \\QP1TPA02\Diskem\sc04\14250-G.J\ND-B4507.d
Date: 25-JUL-2000 19:12
Client ID:
Sample Info: NHICHR,4250-G.Lv,3-INDH,316,1,4
Column phases: DB1701

Instrument: sc04.1
Operator: 1891
Column diameter: 0.53

\\QP1TPA02\Diskem\sc04\14250-G.J\ND-B4507.d\I-B4507.RH1



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4508.d
 Lab Smp Id: HIGHA
 Inj Date : 25-JUL-2000 20:00
 Operator : 1891 Inst ID: gc4.i
 Smp Info : HIGHA,4250-G.b,,3-INDA sub,,1,5
 Misc Info : 190-84-5
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.733	5.733	0.000	198857	0.10000	0.09214
5 alpha-PKC	8.573	8.573	0.000	316781	0.10000	0.1170(A)
6 gamma-BHC (Lindane)	9.993	9.993	0.000	263470	0.10000	0.1087(A)
10 Heptachlor	10.866	10.866	0.000	275101	0.10000	0.1020(A)
15 Endosulfan I	14.006	14.006	0.000	299059	0.10000	0.1008(A)
17 Dieldrin	14.600	14.600	0.000	333373	0.10000	0.1032(A)
20 Endrin	14.913	14.913	0.000	263423	0.10000	0.09619
21 4,4'-DDD	15.480	15.480	0.000	226332	0.10000	0.1012(A)
23 4,4'-DDT	15.773	15.773	0.000	239262	0.10000	0.1023(A)
25 Methoxychlor	16.840	16.840	-0.006	219665	0.20000	0.1999
\$ 30 Decachlorobiphenyl	20.273	20.273	0.000	153533	0.10000	0.09738

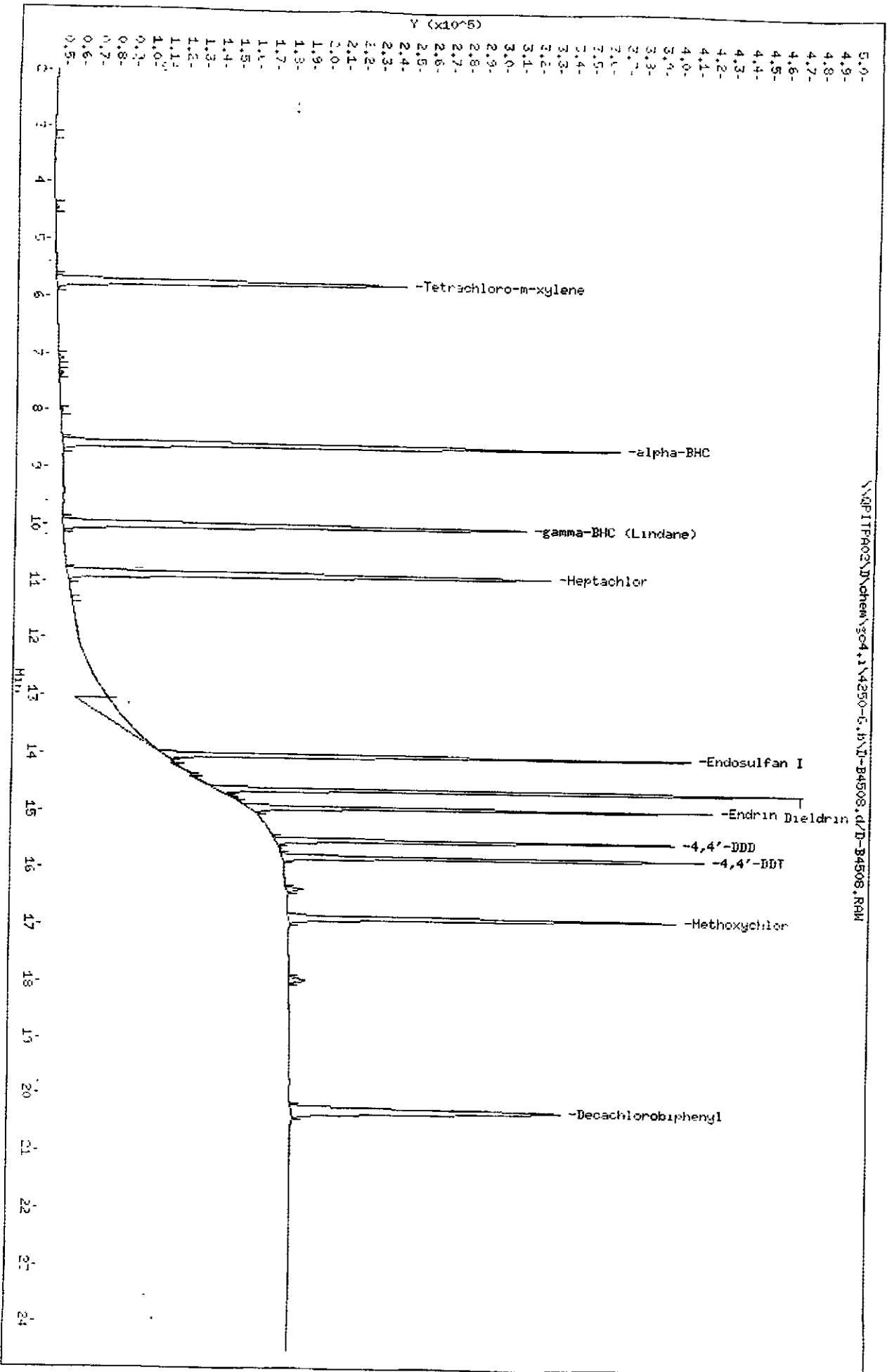
QC Flag Legend

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

Data File: \NQPITF02\Nchem\804.1\4250-G.L\N-D-84508.D
Date: 25-JUL-2000 20:00
Client ID:
Sample Info: HIGH, 4250-G, b, 3-INDH, 818, 1, 5
Column phase: DB1701

Instrument: 804.1
Operator: 1391
Column diameter: 0.53

\NQPITF02\Nchem\804.1\4250-G.L\N-D-84508.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4509.d
Lab Smp Id: LOWB
Inj Date : 25-JUL-2000 20:28
Operator : 1891 Inst ID: gc4.1
Smp Info : LOWB,4250-G.b,,4-INDB.sub,,1,1
Misc Info : 190-84-7
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11 806	11 813	-0 007	11914	0 00500	0 004791
7 beta-BHC	12 400	12 400	0 000	7481	0 00500	0 004940
8 delta-BHC	13 026	13 026	0 000	14200	0 00500	0 004741
12 Heptachlor epoxide	13 473	13 480	-0.007	14885	0.00500	0 004921
13 gamma-Chlordane	14.072	14 073	0 000	14920	0 00500	0 004902
14 alpha-Chlordane	14 166	14 166	0 000	15040	0 00500	0 004978
6 4,4'-DDE	14 313	14 313	0 000	15103	0 00500	0 004911
22 Endosulfan II	15 633	15 640	-0 007	12307	0 00500	0 004993
24 Endrin aldehyde	16 340	16 340	0 000	5889	0 00500	0 004907
26 Endosulfan sulfate	16 946	16 946	0 000	7494	0 00500	0 004849
27 Endrin ketone	17 940	17 946	-0 006	8948	0 00500	0 004915

Data File: \NPI\FR02\Inchem\sc4.1\4250-G,6\N-D-84509.d

Date: 25-JUL-2000 20:28

Client ID:

Sample Info: LOWB, 4250-G, b, 4-INDE, sub, 1.1

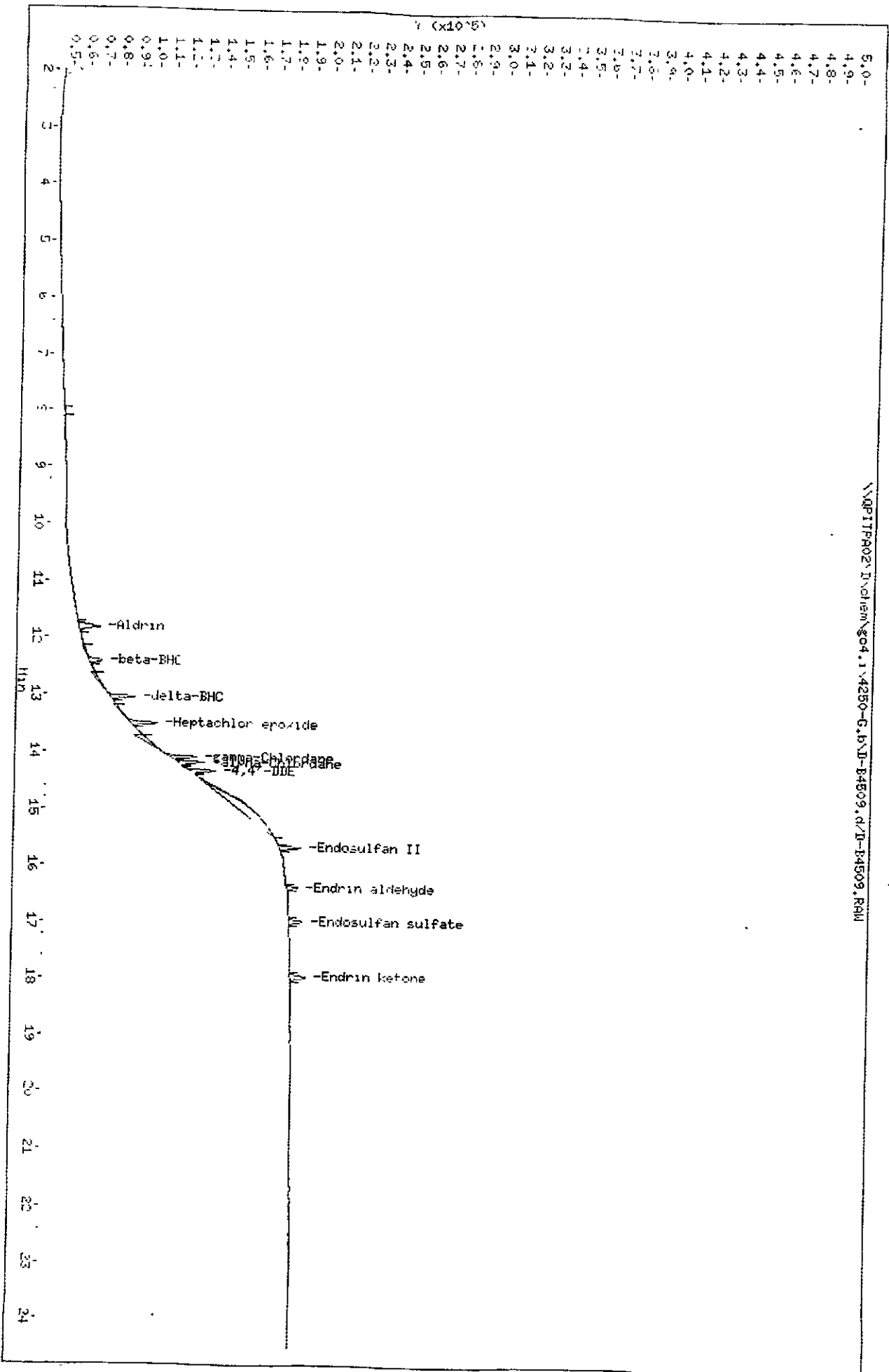
Instrument: 804.1

Column Phase: DB1701

Operator: 1891

Column diameter: 0.53

\NPI\FR02\Inchem\sc4.1\4250-G,6\N-D-84509.d\N-D-84509.FRM



STL Pittsburgh

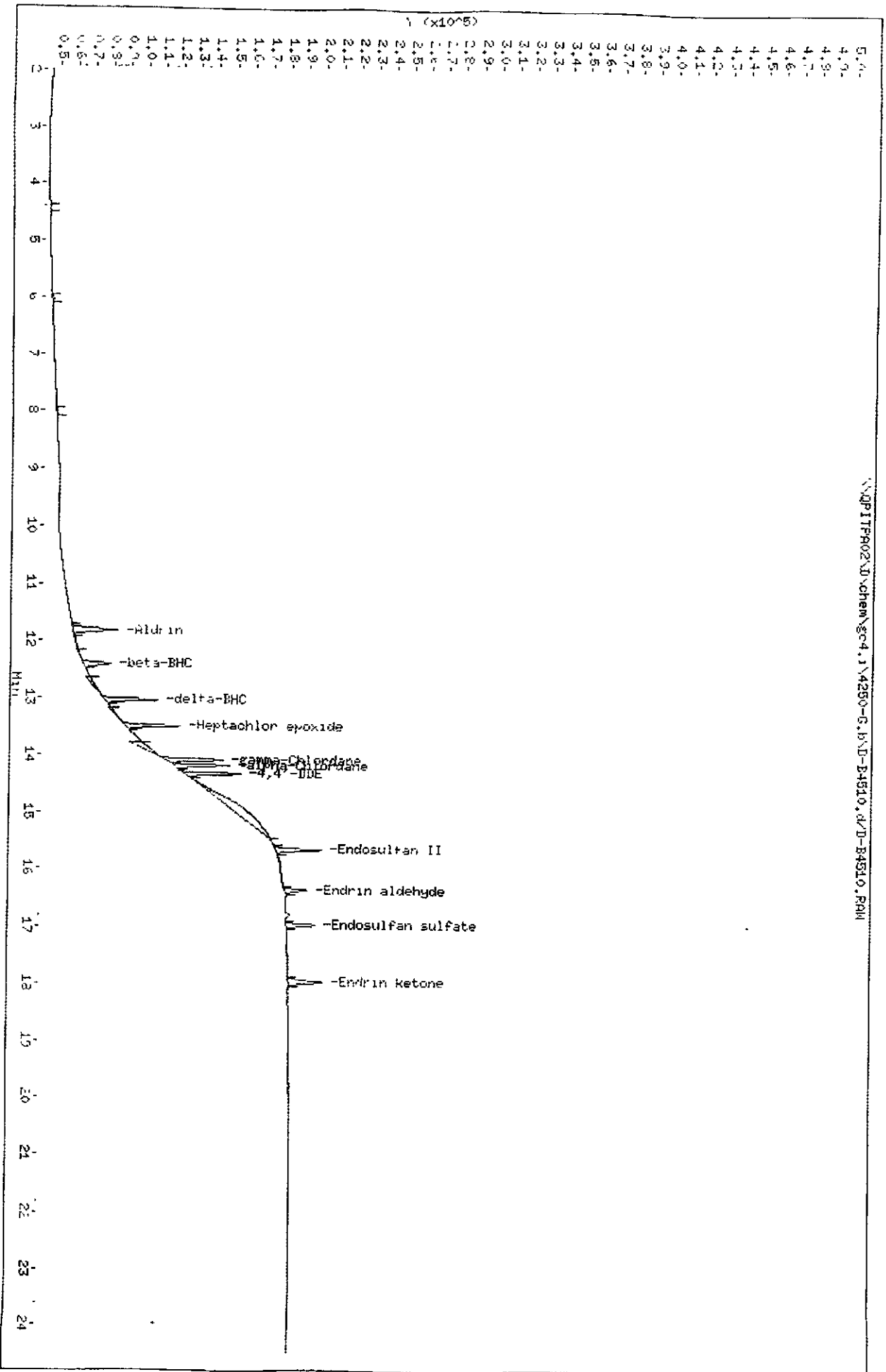
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4510.d
 Lab Smp Id: MLOWB
 Inj Date : 25-JUL-2000 20.55
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB,4250-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-84-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 21:23 Cal File: D-B4511.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-NHT (ng)	ON-COL (ng)
11 Aldrin	11 813	11 813	0 000	25379	0 01000	0 01014
7 beta-BHC	12 400	12 400	0 000	15938	0 01000	0 01034
8 delta-BHC	13 026	13.026	0 000	30317	0.01000	0 01008
12 Heptachlor epoxide	13 480	13 480	0 000	31138	0 01000	0 01021
13 gamma-Chlordane	14 073	14 073	0 000	31919	0 01000	0 01032
14 alpha-Chlordane	14 166	14 166	0 000	30979	0 01000	0 01017
16 4,4'-DDE	14.313	14 313	0 000	31277	0 01000	0 01011
22 Endosulfan II	15 640	15 640	0 000	25881	0 01000	0 01033
24 Endrin aldehyde	16 340	16 340	0 000	12640	0 01000	0 01035
26 Endosulfan sulfate	16 946	16 946	0 000	16217	0 01000	0 01032
27 Endrin ketone	17 946	17 946	0 000	19297	0 01000	0 01039

Data File: \NDF1\PRO2\N\chem\sc4.1\4250-G.b\D-B4510.d
Date: 25-JUL-2000 20:55
Client ID:
Sample Info: MLQWB,4250-G.b,74-INDB,sub,1.2
Column phase: DBL701

Instrument: GC4.1
Operator: LSP1
Column diameter: 0.53

\NDF1\PRO2\N\chem\sc4.1\4250-G.b\D-B4510.d\D-B4510.FRM



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4 i\4250-G.b\D-B4511.d
 Lab Smp Id: MEDB
 Inj Date : 25-JUL-2000 21.23
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDB,4250-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-84-9
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 19:05 Cal File: D-B4506.d
 Als bottle: 1 Calibration Sample, Level. 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11 813	11 813	0 000	64756	0 02500	0 02500 (M)
7 beta-BHC	12 400	12 400	0 000	38313	0 02500	0 02500 (M)
8 delta-BHC	13 026	13 026	0 000	78742	0 02500	0 02500 (M)
12 Heptachlor epoxide	13 480	13 480	0 000	76805	0 02500	0 02500 (M)
13 gamma-Chlordane	14 073	14 073	0 000	77566	0 02500	0 02500 (M)
14 alpha-Chlordane	14 166	14 166	0 000	75850	0 02500	0 02500 (M)
15 4,4' DDE	14 313	14 313	0 000	78247	0 02500	0 02500 (M)
22 Endosulfan II	15 640	15 640	0 000	61704	0 02500	0 02500 (M)
24 Endrin aldehyde	16 340	16 340	0 000	30556	0 02500	0 02500 (M)
26 Endosulfan sulfate	16 946	16 946	0 000	39836	0 02500	0 02500 (M)
27 Endrin ketone	17 946	17 946	0 000	46286	0 02500	0 02500 (M)

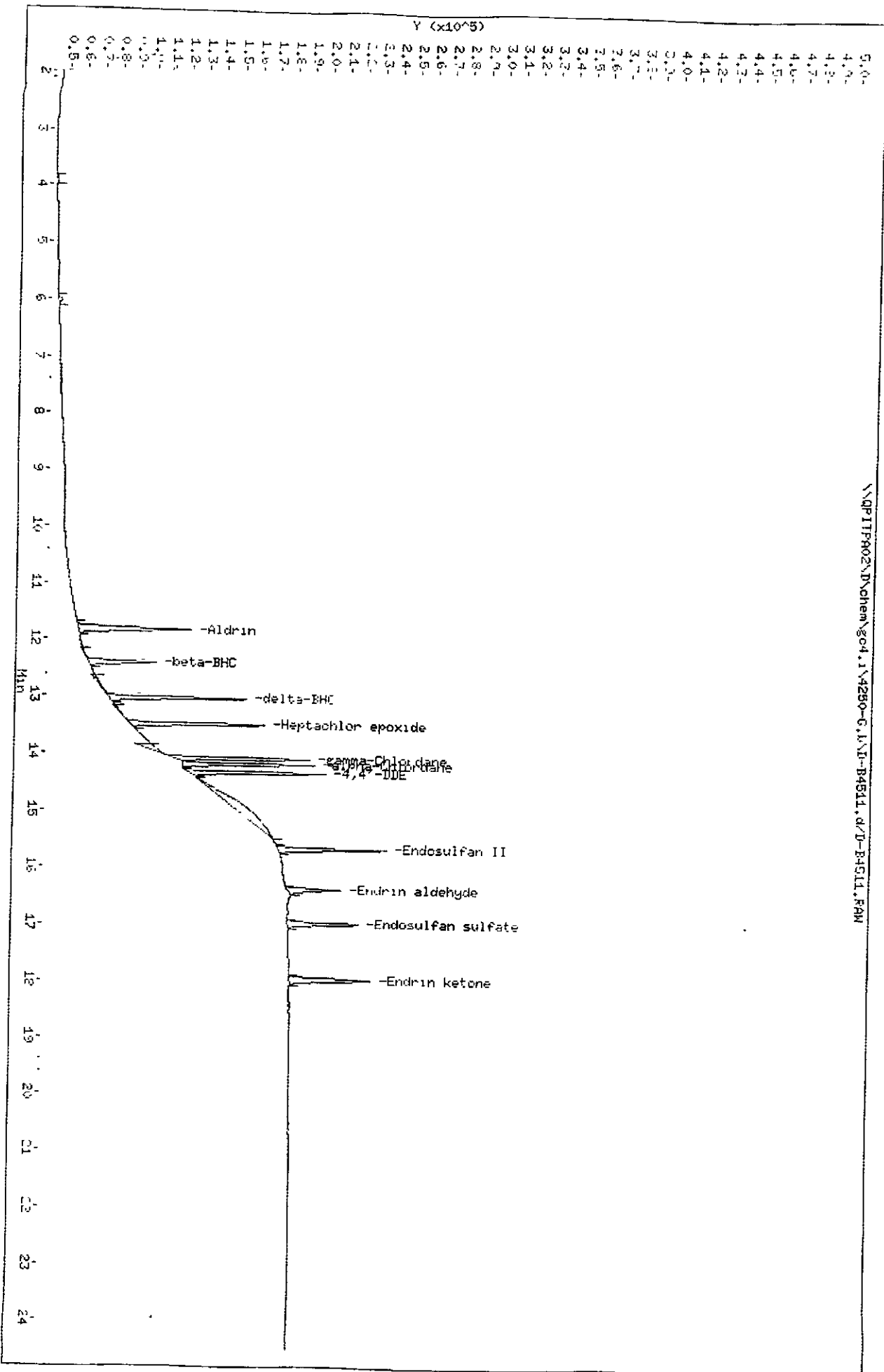
QC Flag Legend

M - Compound response manually integrated.

Data File: \\NQ11P902.D\chem\gc4.1\4250-G.I\ND-B4511.d
 Date: 25-JUL-2000 21:23
 Client ID:
 Sample Info: MEUB,4250-G.I,4-INDE,SOLU,1,3
 Column phase: DB1701

Instrument: gc4.1
 Operator: 1894
 Column diameter: 0.53

\\NQ11P902.D\chem\gc4.1\4250-G.I\ND-B4511.d\ND-B4511.FAM



STL Pittsburgh

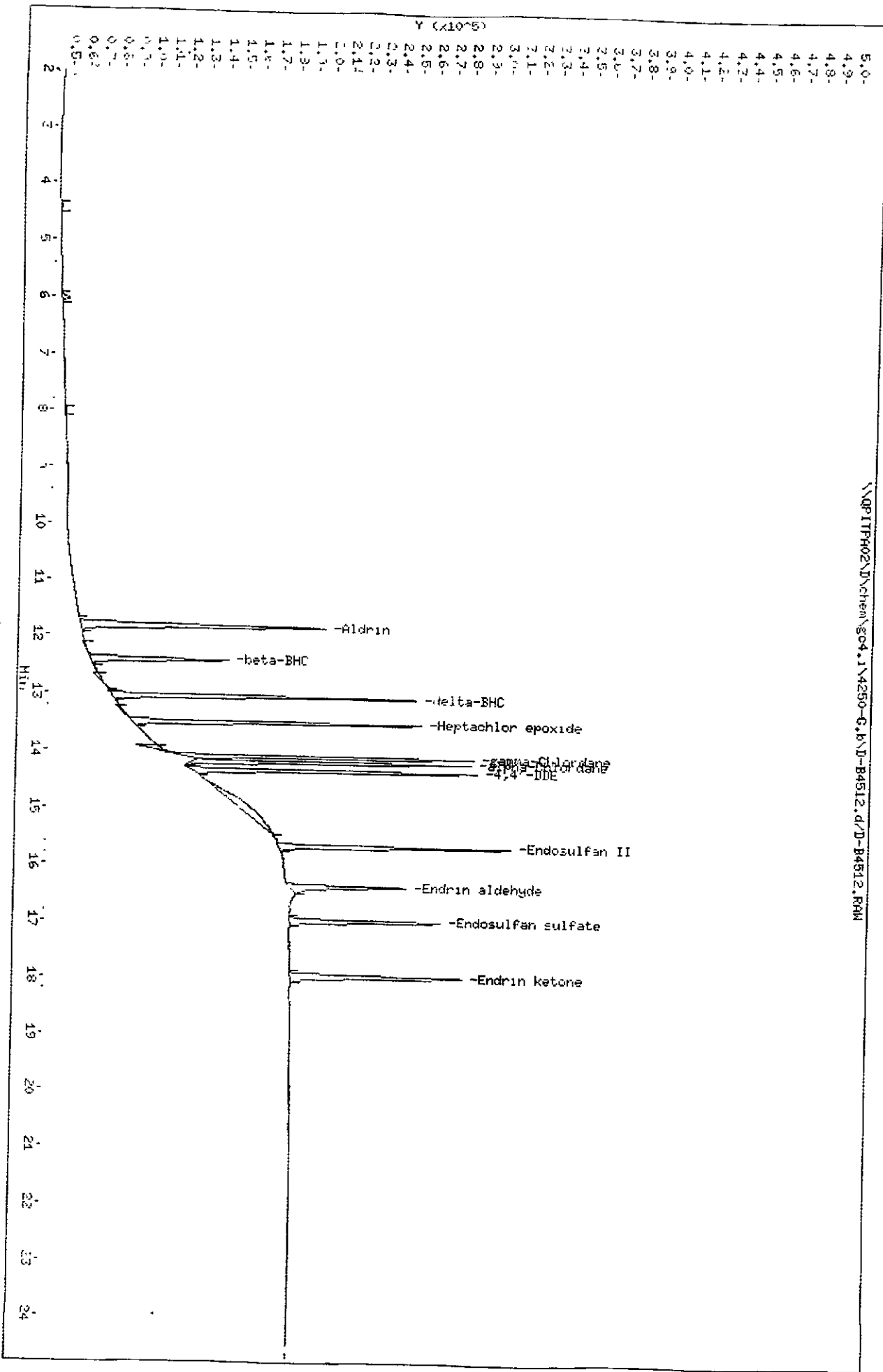
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4512.d
 Lab Smp Id: MHIGHB
 Inj Date : 25-JUL-2000 21:51
 Operator : 1891
 Smp Info : MHIGHB,4250-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-84-10
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14 35 colussyj
 Cal Date : 25-JUL-2000 21:51
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11 813	11 813	0 000	140717	0 05000	0 05451
7 beta-BHC	12 400	12 400	0 000	79125	0 05000	0 05101
8 delta-BHC	13 033	13 026	0 007	174384	0 05000	0 05576
12 Heptachlor epoxide	13 480	13 480	0 000	165275	0 05000	0 05300
13 gamma-Chlordane	14 073	14 073	0 000	167229	0 05000	0 05299
14 alpha-Chlordane	14 173	14 166	0 007	159547	0 05000	0 05176
16 4,4'-DDE	14 313	14 313	0 000	164346	0 05000	0 05232
22 Endosulfan II	15 640	15 640	0 000	132684	0 05000	0 05718
24 Endrin aldehyde	16 340	16 340	0 000	66635	0 05000	0 05334
26 Endosulfan sulfate	16 946	16 946	0 000	86276	0 05000	0 05358
27 Endrin ketone	17 946	17 946	0 000	98077	0 05000	0 05208

Date File: \NQP17P02\Nchem\sc4.1\4250-G.b.D-B4512.d
Date: 25-JUL-2000 21:51
Client ID:
Sample Info: HHCHE, 4250-G.b., 4-INDE, sub., 1,4
Column Phase: DB1701

Instrument: sc4.1
Operator: 1891
Column diameter: 0.53

\NQP17P02\Nchem\sc4.1\4250-G.b.D-B4512.d\T-B4512.FRM



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4513.d
Lab Smp Id: HIGHB
Inj Date : 25-JUL-2000 22:19
Operator : 1891
Smp Info : HIGHB,4250-G.b,,4-INDB.sub,,1,5
Misc Info : 190-84-11
Comment :
Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
Meth Date : 27-Jul-2000 14:35 colussyj
Cal Date : 25-JUL-2000 22:19
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-B4513.d
Calibration Sample, Level: 5
Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.813	11.813	0.000	279229	0.10000	0.1064(A)
7 beta-BHC	12.400	12.400	0.000	152749	0.10000	0.09877
8 delta-BHC	13.026	13.026	0.000	352746	0.10000	0.1100(A)
12 Heptachlor epoxide	13.480	13.480	0.000	321343	0.10000	0.1024(A)
13 gamma-Chlordane	14.073	14.073	0.000	328737	0.10000	0.1033(A)
14 alpha-Chlordane	14.166	14.166	0.000	319081	0.10000	0.1028(A)
16 4,4'-DDE	14.313	14.313	0.000	320777	0.10000	0.1042(A)
22 Endosulfan II	15.640	15.640	0.000	260841	0.10000	0.1020(A)
24 Endrin aldehyde	16.340	16.340	0.000	134531	0.10000	0.1061(A)
26 Endosulfan sulfate	16.946	16.946	0.000	174200	0.10000	0.1064(A)
27 Endrin ketone	17.946	17.946	0.000	192754	0.10000	0.1019(A)

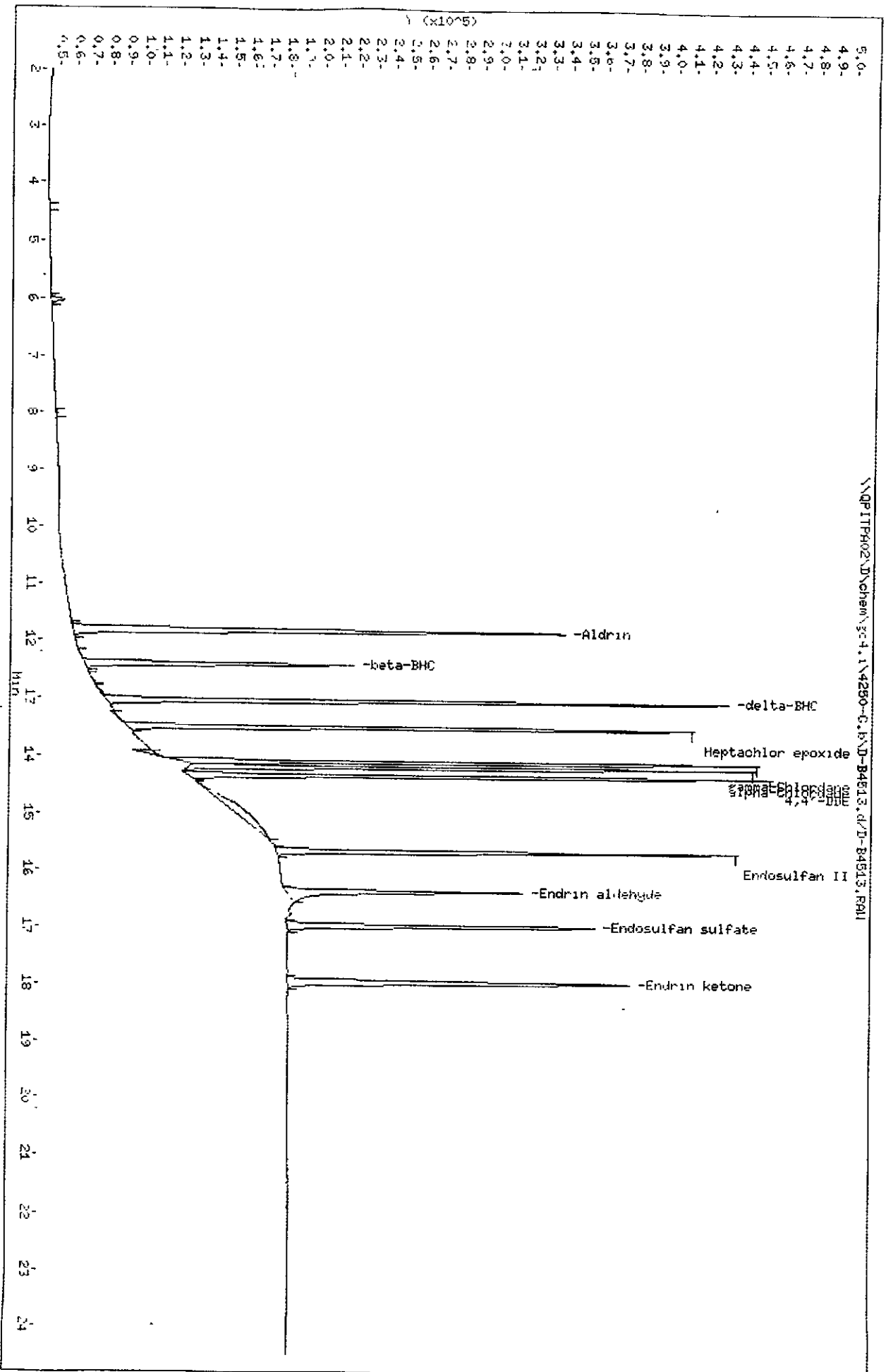
QC Flag Legend

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

Data File: \NPI17PA02\Inchem\sc4.1\4250-G.IND-B4513.d
Date: 35-JUL-2000 22:19
Client ID:
Sample Info: HCHB,4250-G,b,,4-IND,sub,,1,5
Column Phase: DB1701

Instrument: 874.1
Operator: 1891
Column diameter: 0.53

\NPI17PA02\Inchem\sc4.1\4250-G.b\D-B4513.d\T-B4513.F01



664 1298

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4516.d
 Lab Smp Id: EVALB
 Inj Date : 25-JUL-2000 23:42
 Operator : 1891
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085
 Compound Sublist: EVALBR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-p-xylene	5.740	5.733	0.007	42953	0.01990	0.01990(R)
16 4,4'-DDE	Compound Not Detected					
20 Endrin	14.913	14.913	0.000	60695	0.02216	0.02216
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.773	15.773	0.000	57714	0.02469	0.02469
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected					
\$ 30 Decachlorobiphenyl	20.273	20.273	0.000	32173	0.02041	0.02041(R)

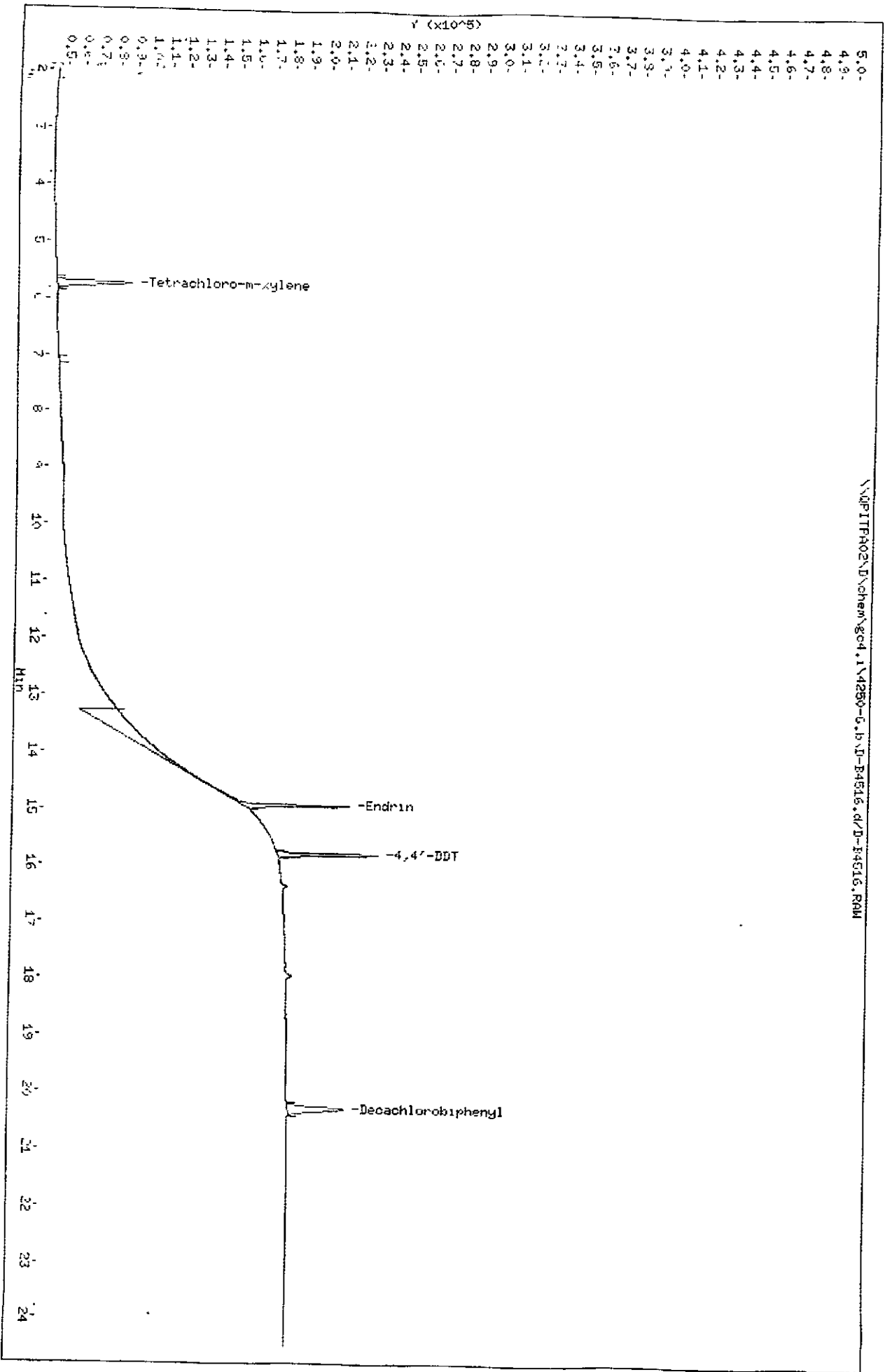
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \NQP1TR02\Nchem\g04.1\4250-G.b\D-B4516.d
Date: 25-JUL-2000 23:42
Client ID:
Sample Info: EWLE,4250-G.b,EWLEIR,sub,3,1
Column phase: DB1701

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

\NQP1TR02\Nchem\g04.1\4250-G.b\D-B4516.d\D-B4516.RAW



STL Pittsburgh

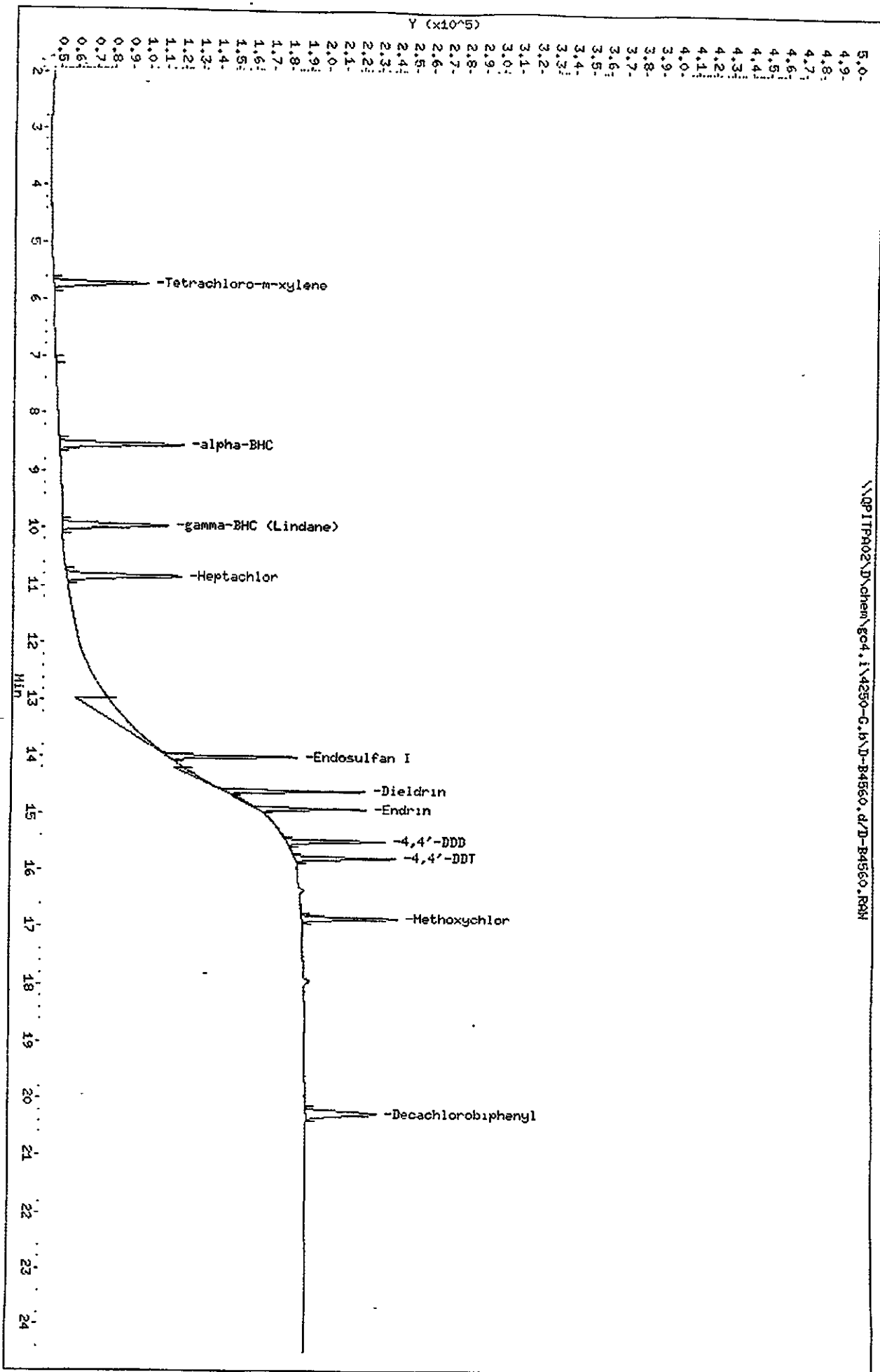
Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4560.d
 Lab Smp Id: MEDA
 Inj Date : 26-JUL-2000 20:00
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDA,4250-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RSPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.720	5.733	-0.013	53491	0.02500	0.02478
5 alpha-BHC	8.546	8.573	-0.027	70253	0.02500	0.02506
6 gamma-BHC (Lindane)	9.960	9.993	-0.033	60597	0.02500	0.02500
10 Heptachlor	10.840	10.866	-0.026	64924	0.02500	0.02406
15 Endosulfan I	13.993	14.006	-0.013	72757	0.02500	0.02452
17 Dieldrin	14.586	14.600	-0.014	79985	0.02500	0.02477
20 Endrin	14.900	14.913	-0.013	62086	0.02500	0.02267
21 4,4'-DDD	15.460	15.480	-0.020	55221	0.02500	0.02469
23 4,4'-DDT	15.760	15.773	-0.013	56405	0.02500	0.02413
25 Methoxychlor	16.826	16.846	-0.020	53559	0.05000	0.04874
\$ 30 Decachlorobiphenyl	20.246	20.273	-0.027	39660	0.02500	0.02515

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Data File: \\NPITPA02\D\chem\g04.i\4250-G.b\D-B4560.d
Date: 26-JUL-2000 20:00
Client ID:
Sample Info: HED0,4250-G.b.,INDA.sub.,2,3
Column phase: DB1701

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



664 1302

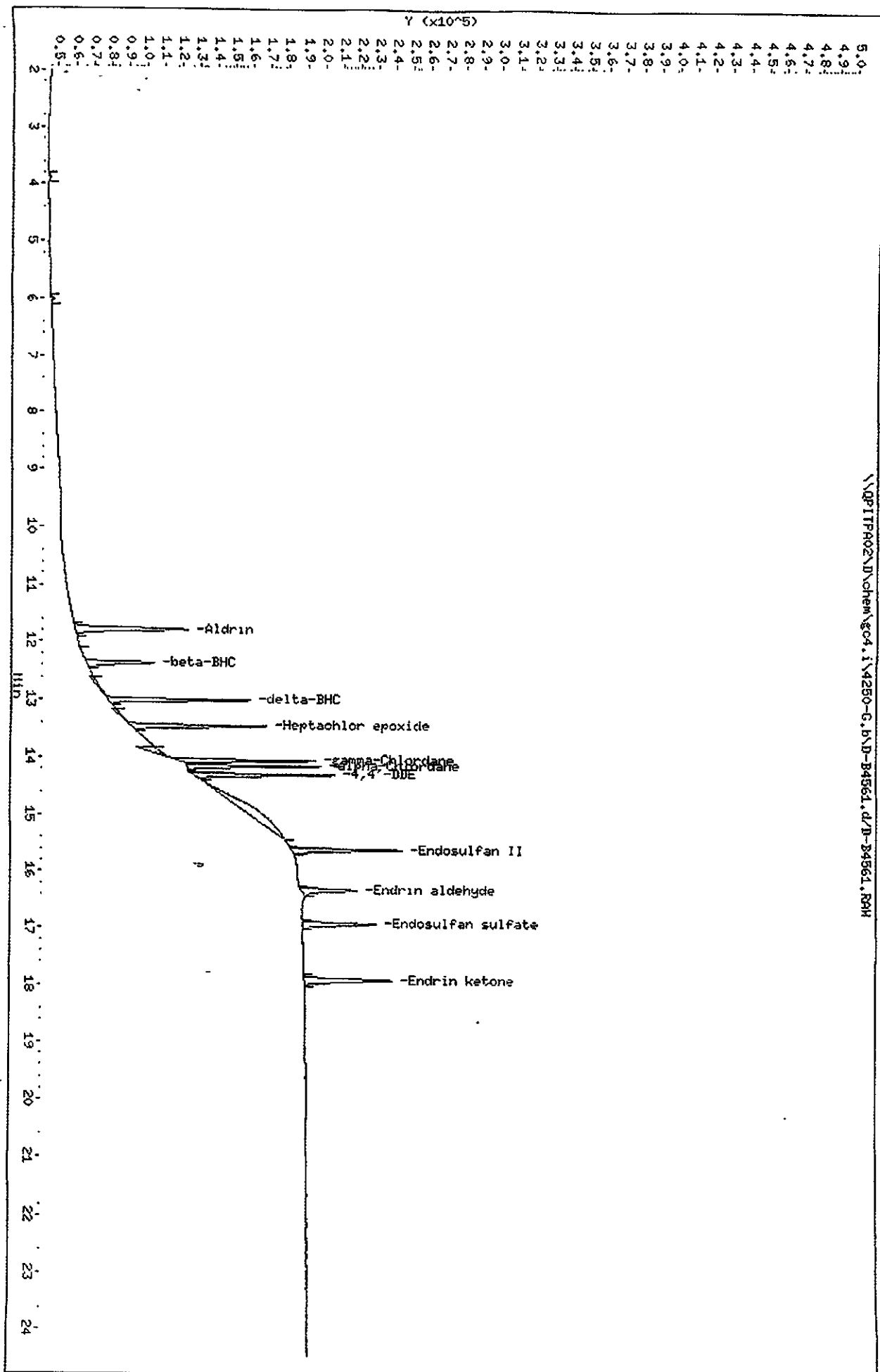
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4561.d
 Lab Smp Id: MEDB
 Inj Date : 26-JUL-2000 20:28
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDB,4250-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 14:35 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.793	11.813	-0.020	63569	0.02500	0.02423
7 beta-BHC	12.380	12.400	-0.020	38034	0.02500	0.02459
8 delta-BHC	13.006	13.026	-0.020	80103	0.02500	0.02498
12 Heptachlor epoxide	13.460	13.480	-0.020	76349	0.02500	0.02433
13 gamma-Chlordane	14.060	14.073	-0.013	76938	0.02500	0.02418
14 alpha-Chlordane	14.153	14.166	-0.013	75488	0.02500	0.02432
16 4,4'-DDE	14.300	14.313	-0.013	78671	0.02500	0.02478
22 Endosulfan II	15.620	15.640	-0.020	62026	0.02500	0.02427
24 Endrin aldehyde	16.320	16.340	-0.020	31526	0.02500	0.02485
26 Endosulfan sulfate	16.926	16.946	-0.020	41301	0.02500	0.02524
27 Endrin ketone	17.920	17.946	-0.026	48931	0.02500	0.02586

Data File: \NPITPA02\Nchem\gc4.i\4250-G.b\N-D-B4561.d
Date: 26-JUL-2000 20:28
Client ID:
Sample Info: HEDB,4250-G.b., INDB.sub.,2,3
Column phase: DB1701

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



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4562.d
 Lab Smp Id: EVALB
 Inj Date : 26-JUL-2000 20:56
 Operator : 1891
 Smp Info : EVALB,4250-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj
 Cal Date : 25-JUL-2000 22:19
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-B4513.d
 QC Sample: PEM
 Compound Sublist: EVALBR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.720	5.720	0.000	42345	0.01962	0.01962(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	14.900	14.900	0.000	63806	0.02330	0.02330
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.760	15.760	0.000	56570	0.02420	0.02420
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	20.240	20.246	-0.006	32407	0.02055	0.02055(R)

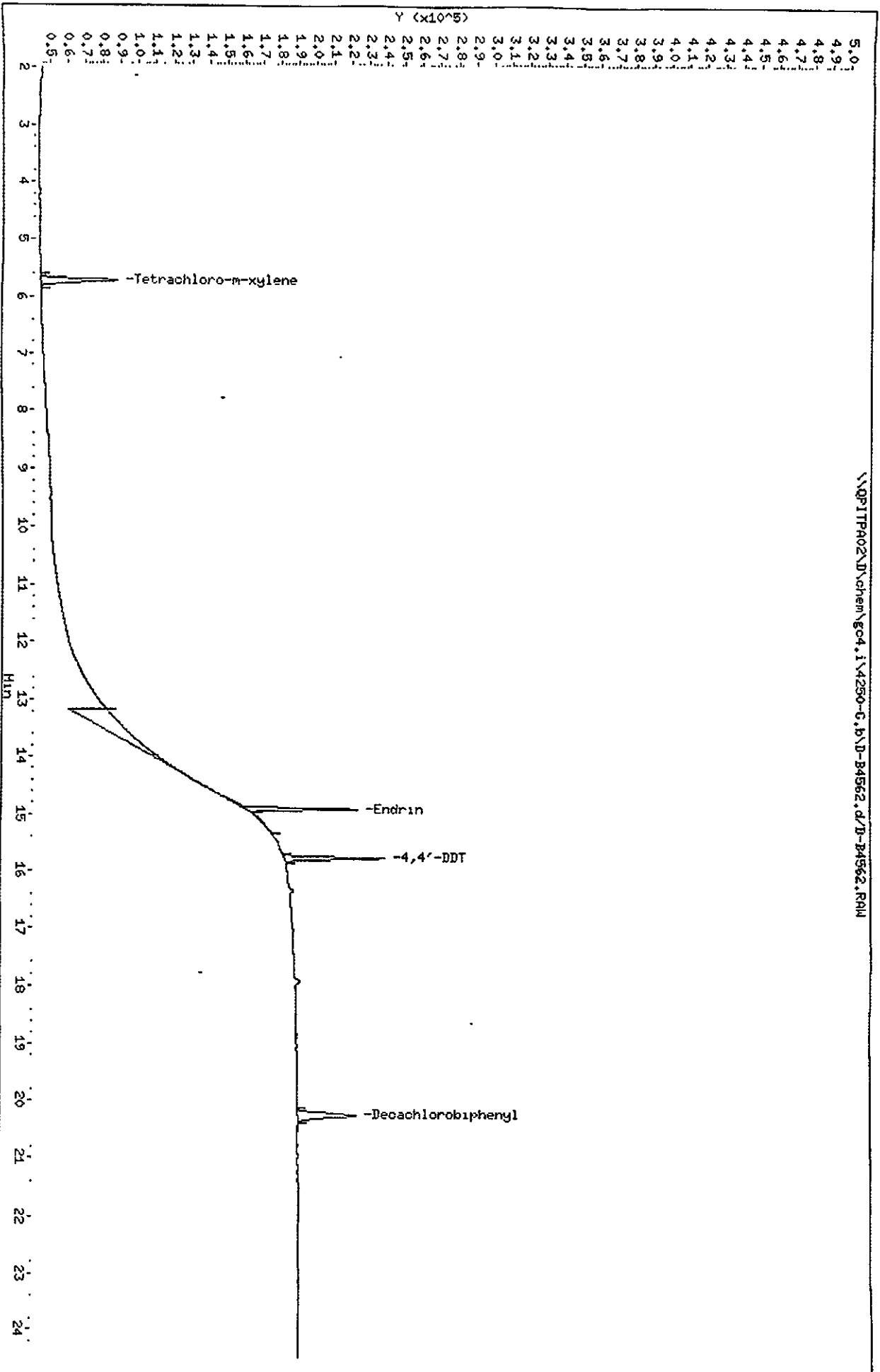
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\QPITPA02\chem\gc4.1\4250-G.b\D-B4562.d
Date: 26-JUL-2000 20:56
Client ID:
Sample Info: EWALB,4250-G.b,EWALBR,sub,,3,1
Column phase: DB1701

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

\\QPITPA02\chem\gc4.1\4250-G.b\D-B4562.d\B-B4562.FID



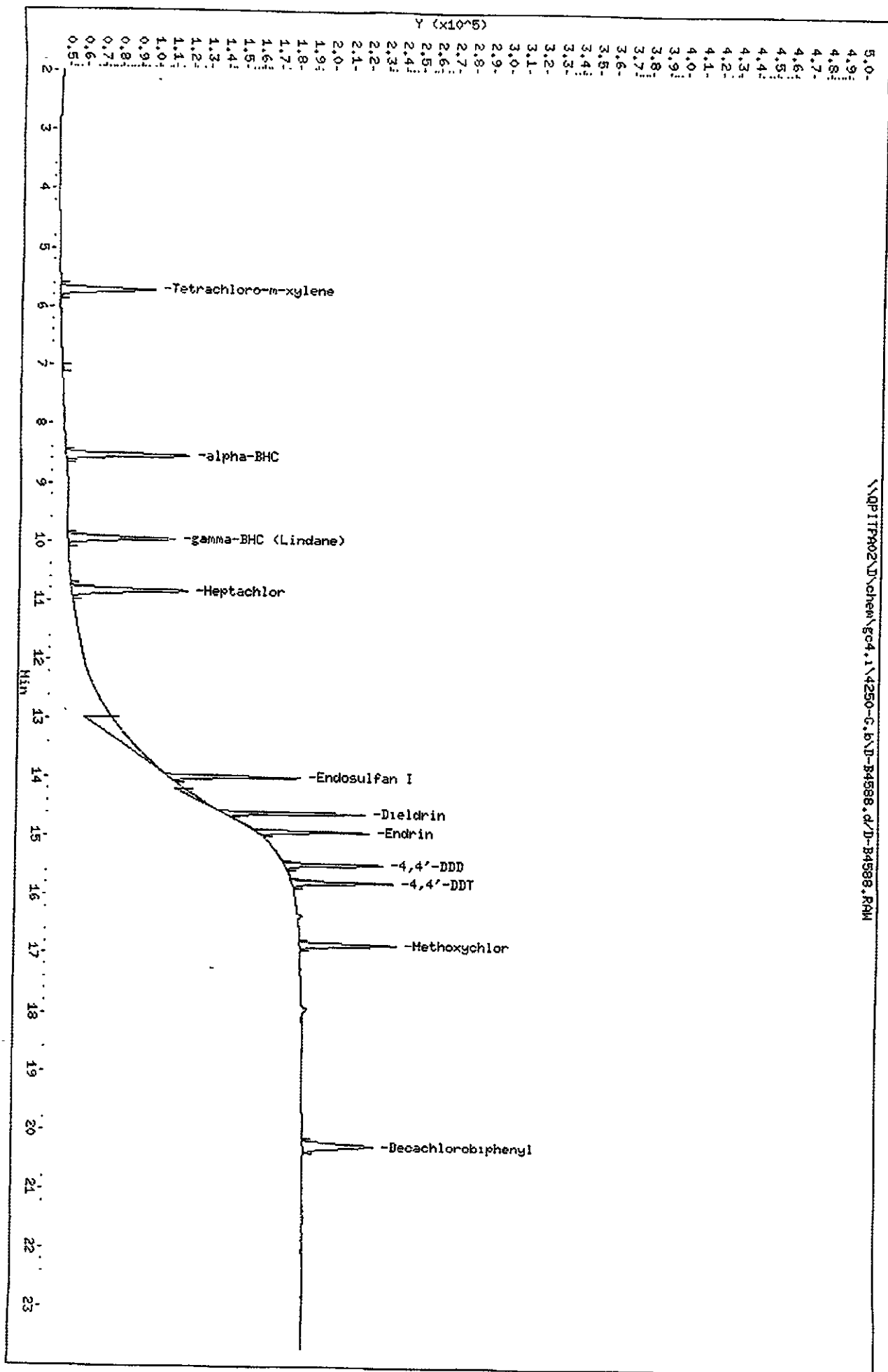
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4588.d
 Lab Smp Id: MEDA
 Inj Date : 27-JUL-2000 09:01
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDA,4250-G.b,, INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.713	5.720	-0.007	53376	0.02500	0.02473
5 alpha-BHC	8.540	8.546	-0.006	69771	0.02500	0.02488
6 gamma-BHC (Lindane)	9.960	9.960	0.000	60838	0.02500	0.02510
10 Heptachlor	10.840	10.840	0.000	65929	0.02500	0.02444
15 Endosulfan I	13.993	13.993	0.000	74088	0.02500	0.02497
17 Dieldrin	14.586	14.586	0.000	79948	0.02500	0.02476
20 Endrin	14.900	14.900	0.000	63114	0.02500	0.02305
21 4,4'-DDD	15.460	15.460	0.000	55598	0.02500	0.02486
23 4,4'-DDT	15.760	15.760	0.000	56829	0.02500	0.02431
25 Methoxychlor	16.826	16.826	0.000	54542	0.05000	0.04964
\$ 30 Decachlorobiphenyl	20.246	20.246	0.000	39490	0.02500	0.02505

Data File: \\NP1TPA02\N\chem\gc4.1\4250-G.b\D-B4588.d
Date: 27-JUL-2000 09:01
Client ID:
Sample Info: HEDR,4250-G,b,,INDR,sub,2,3
Column phase: DB1701

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



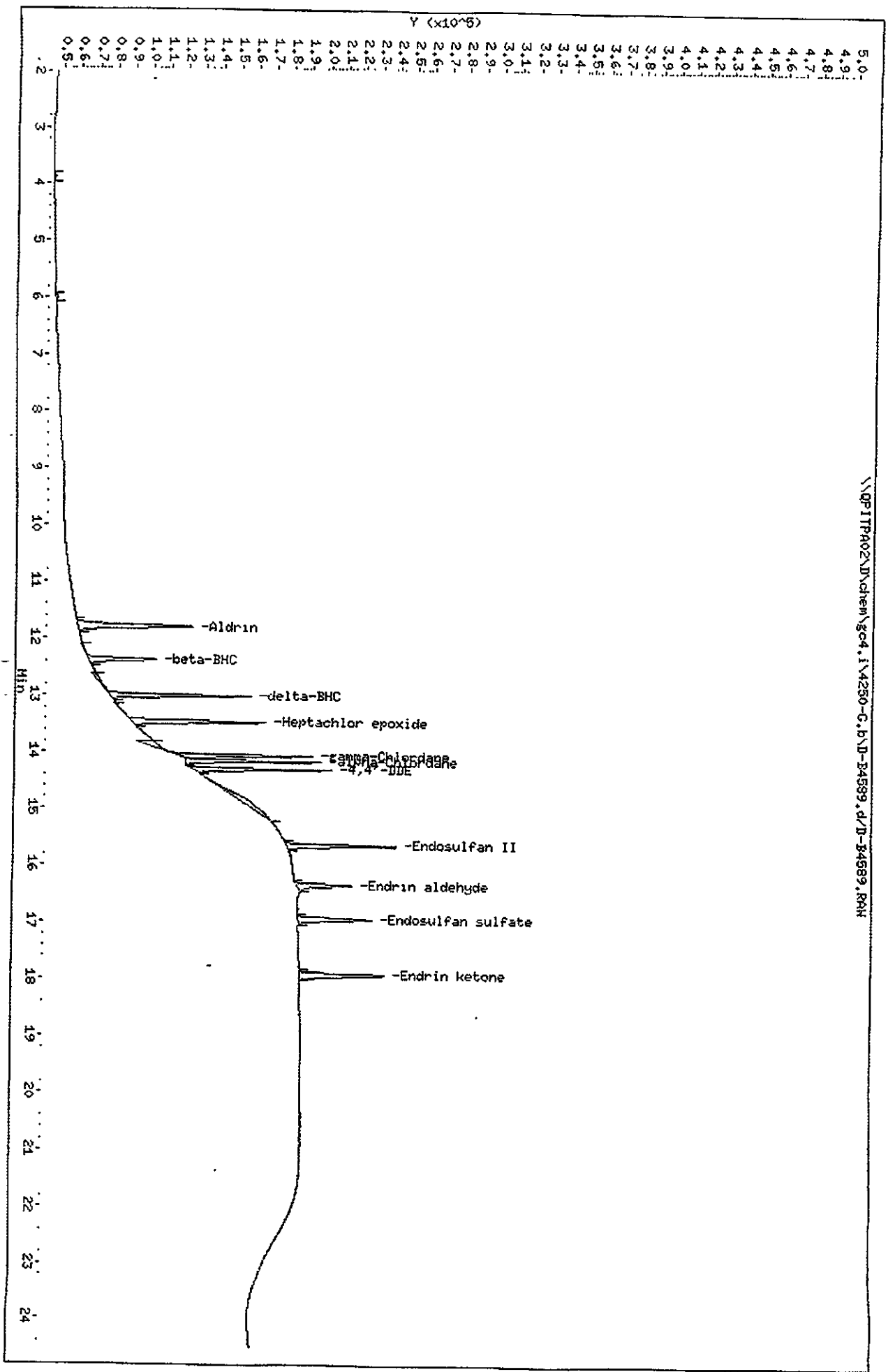
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4589.d
 Lab Smp Id: MEDB
 Inj Date : 27-JUL-2000 09:28
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDB,4250-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compoundo	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.786	11.793	-0.007	64867	0.02500	0.02472
7 beta-BHC	12.366	12.380	-0.014	38132	0.02500	0.02466
8 delta-BHC	13.000	13.006	-0.006	80190	0.02500	0.02500
12 Heptachlor epoxide	13.453	13.460	-0.007	76246	0.02500	0.02430
13 gamma-Chlordane	14.053	14.060	-0.007	76986	0.02500	0.02419
14 alpha-Chlordane	14.153	14.153	0.000	76417	0.02500	0.02462
16 4,4'-DDE	14.300	14.300	0.000	77926	0.02500	0.02455
22 Endosulfan II	15.613	15.620	-0.007	62417	0.02500	0.02442
24 Endrin aldehyde	16.313	16.320	-0.007	31315	0.02500	0.02469
26 Endosulfan sulfate	16.920	16.926	-0.006	41884	0.02500	0.02559
27 Endrin ketone	17.913	17.920	-0.007	48405	0.02500	0.02558

Data File: \\QP1TPA02\N\chem\gc04.1\4250-G.b\D-B4589.d
Date: 27-JUN-2000 09:28
Client ID:
Sample Info: MEDB.4250-G.b, INDB.sub, 2,3
Column phase: DB1701

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



664 1310

**PESTICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

664 1311

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

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

Lab Sample ID: COG210000 469

Sample WT/Vol: 1000 / mL
Work Order: DGM9V101
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/27/00

QC Batch: 0203469

Client Sample Id: INTRA-LAB BLANK

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

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4570.d
 Lab Smp Id: DGM9V101 Client Smp ID: PBLK1
 Inj Date : 27-JUL-2000 00:38
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGM9V101,4250-G.b,,PEST.sub,,3,
 Misc Info : 200279BLK
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

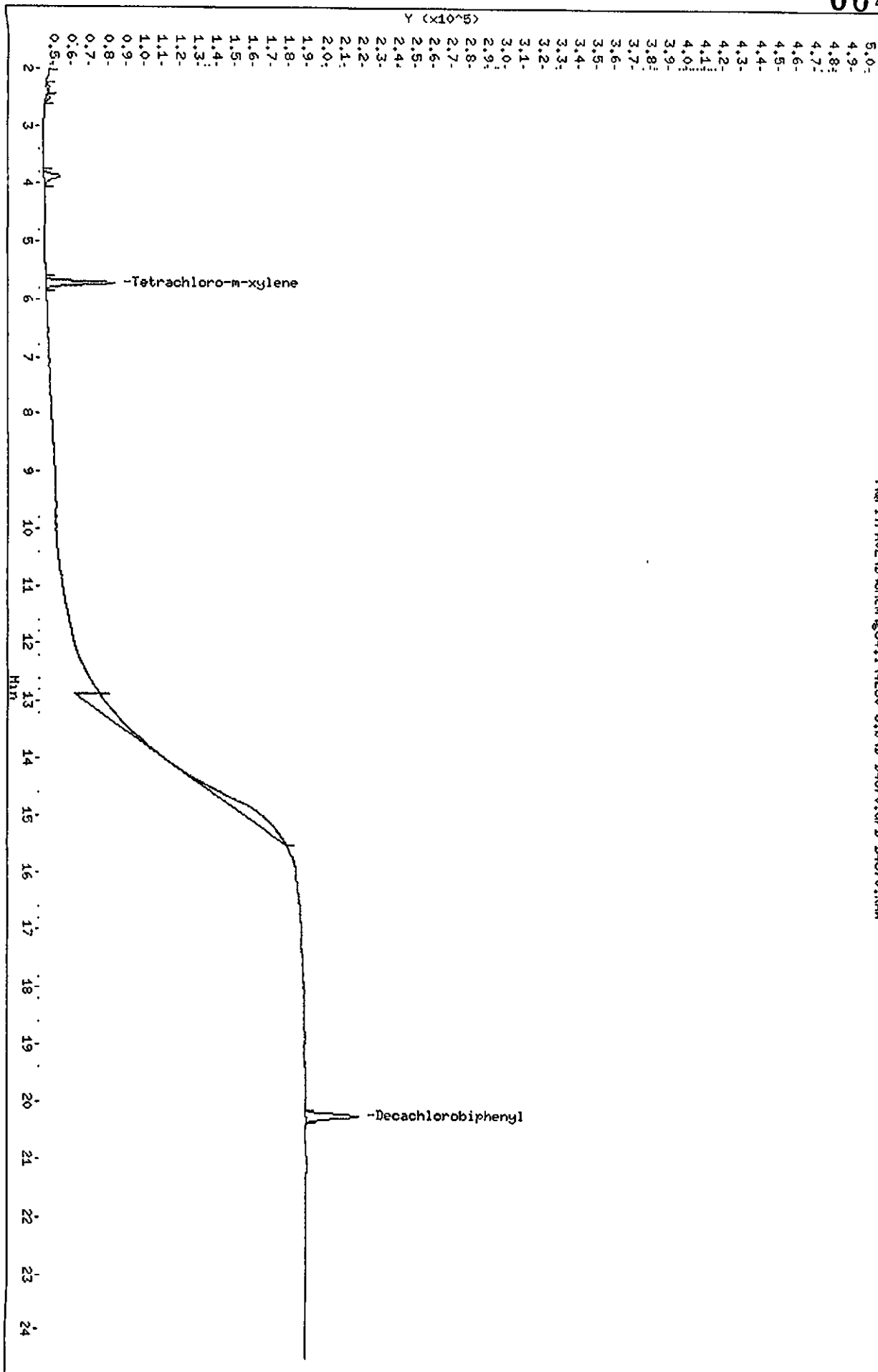
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)				Compound Not Detected.		
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor				Compound Not Detected.		
8 delta-BHC				Compound Not Detected.		
11 Aldrin				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
16 4,4'-DDE				Compound Not Detected.		
17 Dieldrin				Compound Not Detected.		
20 Endrin				Compound Not Detected.		
18 Toxaphene				Compound Not Detected.		

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 1 Tetrachloro-m-xylene	5.720	5.720	0.000	38268	0.01773	0.1773
\$ 30 Decachlorobiphenyl	20.240	20.246	-0.006	29115	0.01847	0.1847

Data File: \NPI\TPA02\1\chem\gc4,1\4250-G,b\D-B4570.d
Date: 27-JUL-2000 00:38
Client ID: PBLK1
Sample Info: D0H9V1.01,4250-G,b,,PEST,sub,3,
Volume Injected (uL): 1.0
Column phase: DB1701

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

\NPI\TPA02\1\chem\gc4,1\4250-G,b\D-B4570.d\1\4250-G,b\D-B4570.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4570.d
 Lab Smp Id: DGM9V101 Client Smp ID: PBLK1
 Inj Date : 27-JUL-2000 00:38
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGM9V101,4250-G.b,,PEST.sub,,3,
 Misc Info : 200279BLK
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 10:27 matkol Quant Type: ESTD
 Cal Date : 26-JUL-2000 23:15 Cal File: D-A4567.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 (mg/L)
§ 1 Tetrachloro-m-xylene	5.653	5.660	-0.007	45415	0.01769	0.1769
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)				Compound Not Detected.		
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor				Compound Not Detected.		
8 delta-BHC				Compound Not Detected.		
11 Aldrin				Compound Not Detected.		
2 Diallyl A	6.913	6.900	0.013	530	0.00530	0.05301(a)
3 Diallyl B				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
16 4,4'-DDE				Compound Not Detected.		

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
17 Dieldrin				Compound Not Detected		
20 Endrin				Compound Not Detected.		
21 4,4'-DDD				Compound Not Detected.		
18 Toxaphene				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected		
23 4,4'-DDT				Compound Not Detected		
24 Endrin aldehyde				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected		
§ 30 Decachlorobiphenyl	21 793	21 800	-0 007	22361	0 01838	0 1838

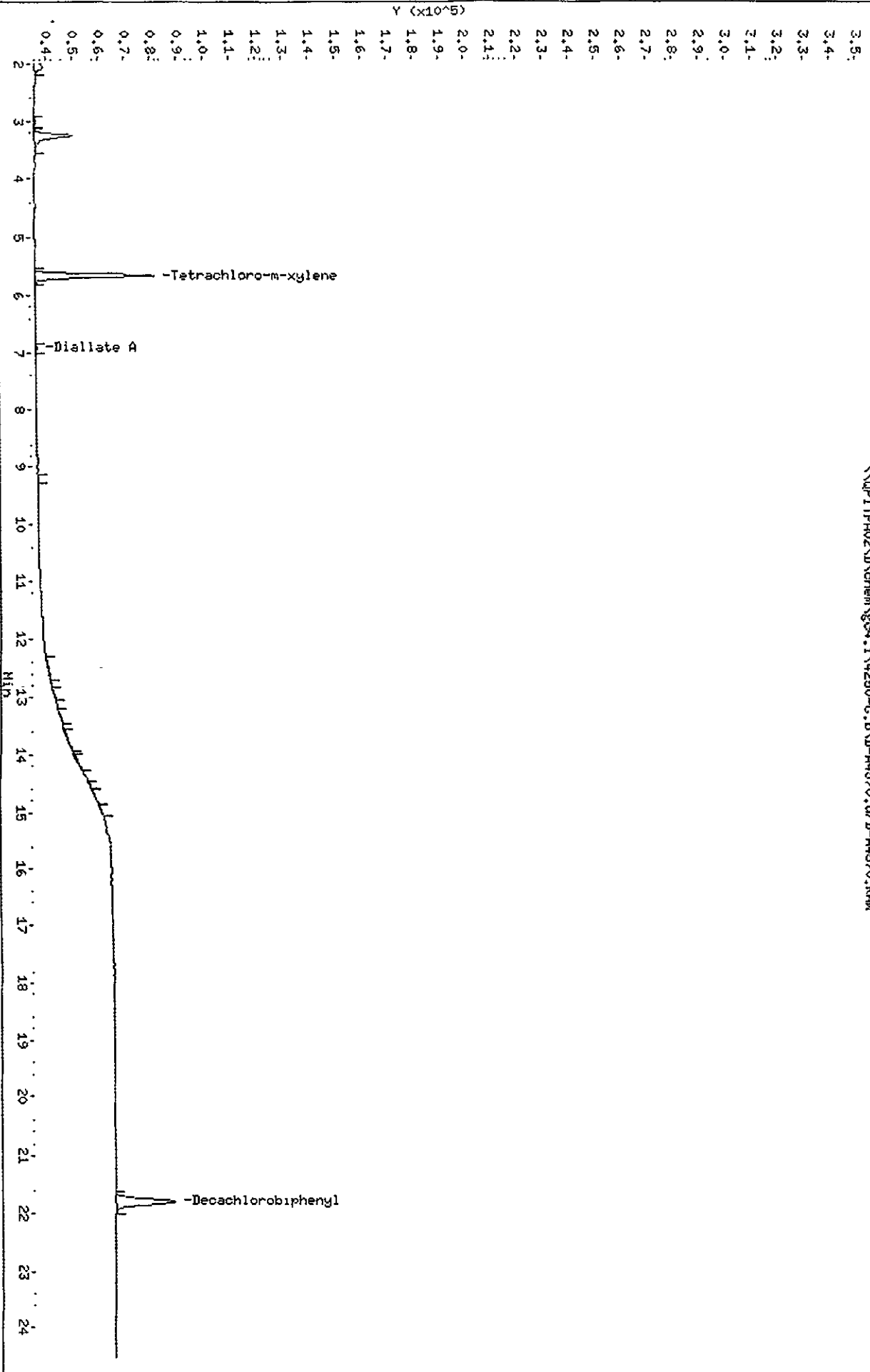
QC Flag Legend

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

Data File: \\QPI1PRA02\Inchem\gc4.1\4250-G.b\D-44570.d
Date: 27-JUL-2000 00:38
Client ID: FELKA
Sample Info: DGH9W101,4250-G.b.,PEST,sub,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.1
Operator: IS91
Column diameter: 0.53

\\QPI1PRA02\Inchem\gc4.1\4250-G.b\D-44570.d\D-44570.RAW



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

664 1318

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

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

Lab Sample ID: C0G210000 469

Sample WT/Vol: 1000 / mL
Work Order: DGM9V102
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/27/00

QC Batch: 0203469

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.217	
58-89-9	gamma-BHC (Lindane)	0.221	
50-29-3	4,4'-DDT	0.450	
60-57-1	Dieldrin	0.458	
72-20-8	Endrin	0.417	
76-44-8	Heptachlor	0.210	

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-B4571.d
 Lab Smp Id: DGM9V102 Client Smp ID: LCS1
 Inj Date : 27-JUL-2000 01:06
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGM9V102,4250-G.b,,PEST.sub,,3,
 Misc Info : 200279LCS
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTB.m
 Meth Date : 27-Jul-2000 15:27 colussyj Quant Type: ESTD
 Cal Date : 25-JUL-2000 22:19 Cal File: D-B4513.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

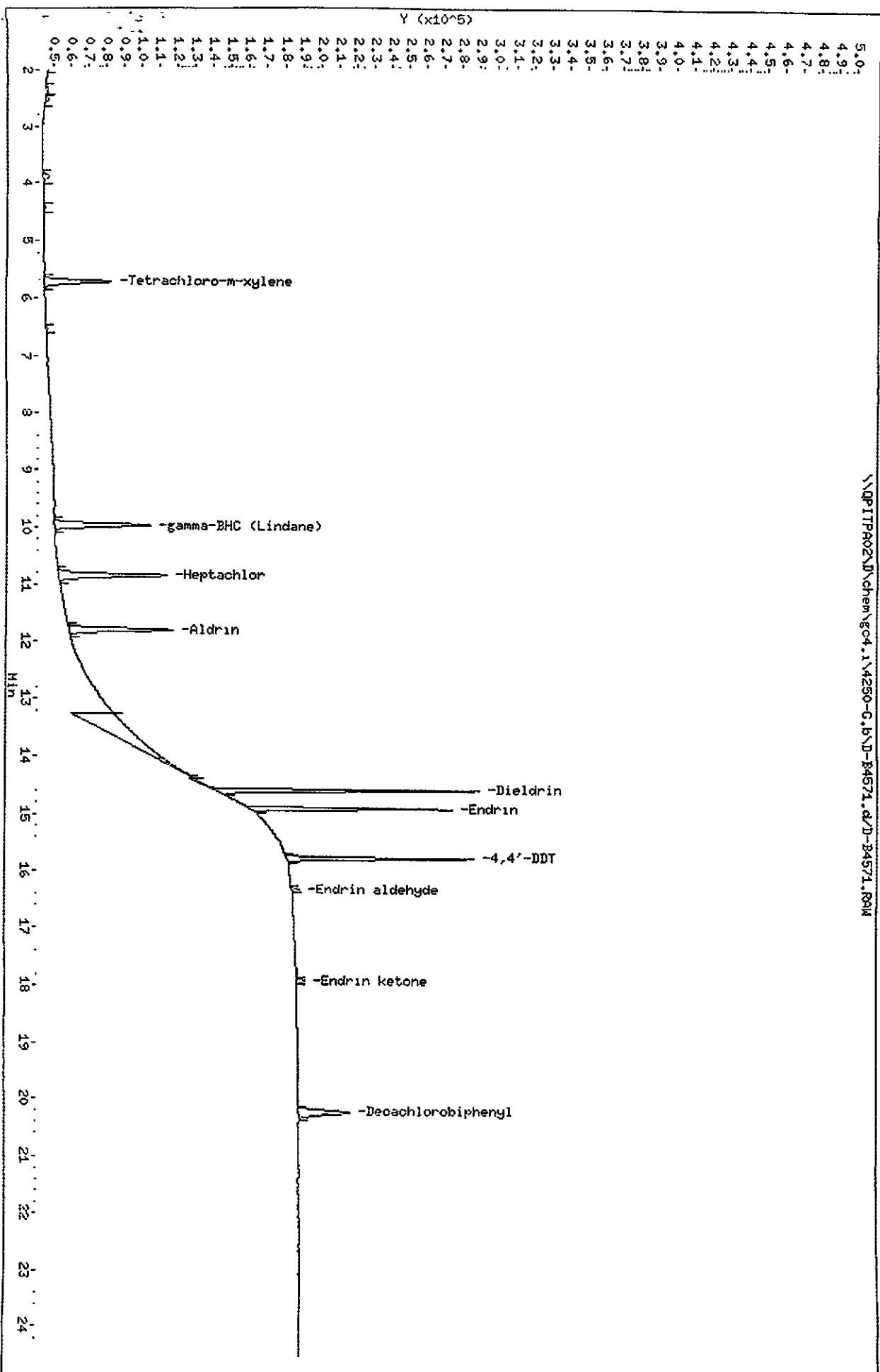
Concentration Formula: Amt * DF * (Vt/Vo)/Vi

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 (mg/L)
5 alpha-BHC						
6 gamma-BHC (Lindane)	9.966	9.960	0.006	53503	0.02208	0.2208
7 beta-BHC						
9 Chlordane						
10 Heptachlor	10.840	10.840	0.000	60153	0.02230	0.2230
8 delta-BHC						
11 Aldrin	11.793	11.793	0.000	58350	0.02224	0.2224
12 Heptachlor epoxide						
13 gamma-Chlordane						
14 alpha-Chlordane						
15 Endosulfan I						
16 4,4'-DDE						
17 Dieldrin	14.586	14.586	0.000	148206	0.04591	0.4590
20 Endrin	14.900	14.900	0.000	114221	0.04171	0.4171
18 Toxaphene						

Data File: \NQPITPA02\chem\gc4.1\4250-G.b\D-B4571.d
 Date : 27-JUL-2000 01:06
 Client ID: LC51
 Sample Info: DGH9V102,4250-G.b,PEST,sub,3,
 Volume Injected (uL): 1.0
 Column phase: DB1701

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



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\4250-G.b\D-A4571.d
 Lab Smp Id: DGM9V102 Client Smp ID: LCS1
 Inj Date : 27-JUL-2000 01:06
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DGM9V102,4250-G.b,,PEST.sub,,3,
 Misc Info : 200279LCS
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\4250-G.b\PESTA.m
 Meth Date : 27-Jul-2000 10:27 matkol Quant Type: ESTD
 Cal Date : 26-JUL-2000 23:15 Cal File: D-A4567.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 (mg/L)
\$ 1 Tetrachloro-m-xylene	5.653	5.660	-0.007	44199	0.01722	0.1722
5 alpha-BHC	Compound Not Detected					
6 gamma-BHC (Lindane)	9.346	9.346	0.000	56667	0.02236	0.2236
7 beta-BHC	Compound Not Detected					
9 Chlordane	Compound Not Detected					
10 Heptachlor	10.626	10.620	0.006	43957	0.02103	0.2103
8 delta-BHC	Compound Not Detected					
11 Aldrin	11.780	11.780	0.000	42187	0.02166	0.2166
2 Diallyl A	6.913	6.900	0.013	523	0.00523	0.05231(a)
3 Diallyl B	Compound Not Detected					
12 Heptachlor epoxide	Compound Not Detected					
13 gamma-Chlordane	Compound Not Detected					
14 alpha-Chlordane	Compound Not Detected					
15 Endosulfan I	Compound Not Detected					
16 4,4'-DDE	14.386	14.386	0.000	953	<0.0	0.004029(a)

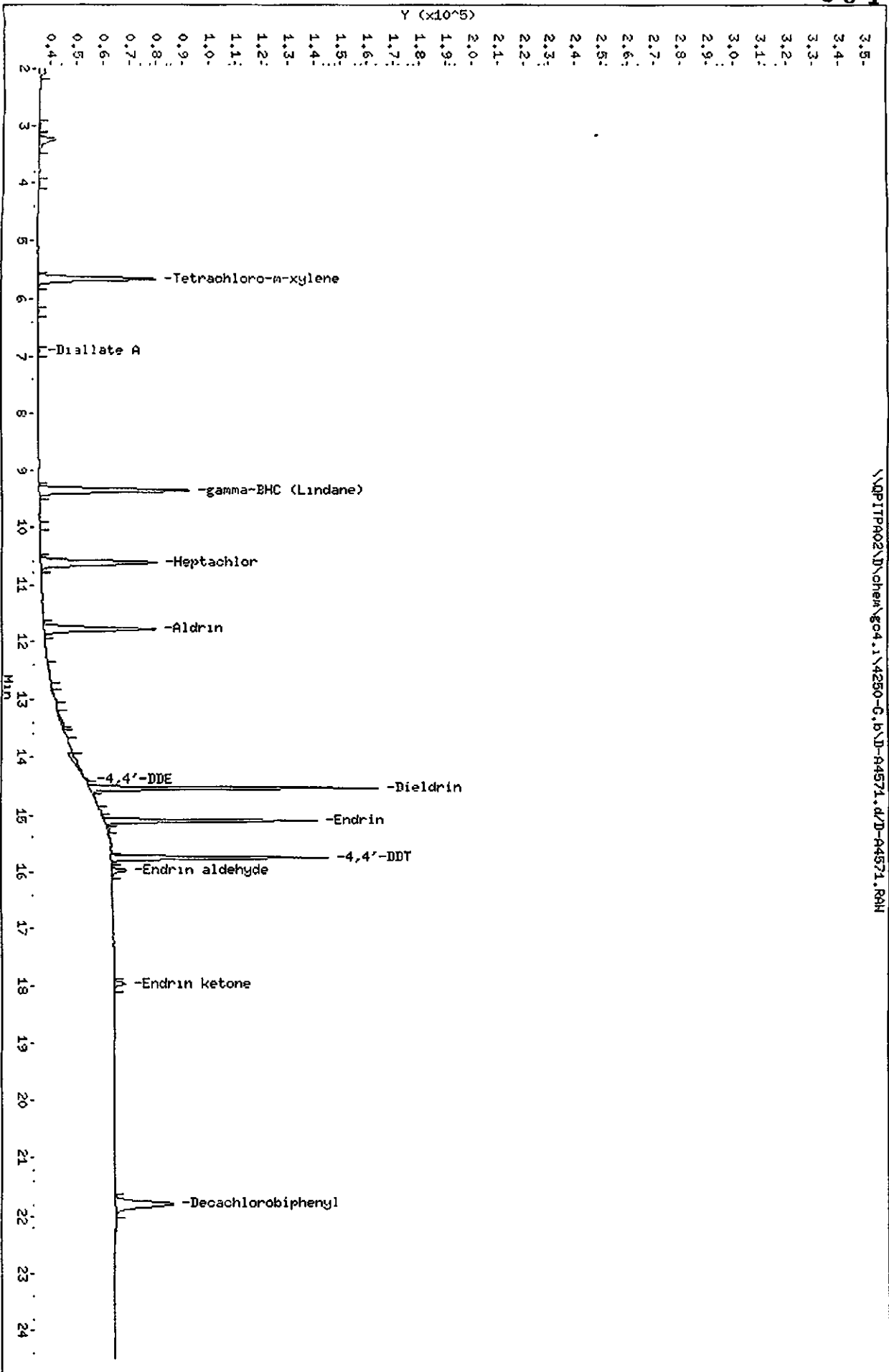
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
17 Dieldrin	14.526	14.526	0.000	109506	0.04585	0.4585
20 Endrin	15.106	15.106	0.000	80872	0.04465	0.4465
21 4,4'-DDD	Compound Not Detected.					
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15.746	15.746	0.000	82010	0.04628	0.4628
24 Endrin aldehyde	15.966	15.966	0.000	5502	0.00353	0.03528(a)
26 Endosulfan sulfate	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	17.966	17.973	-0.007	4006	0.00257	0.02572(a)
§ 30 Decachlorobiphenyl	21.793	21.800	-0.007	21735	0.01787	0.1787

QC Flag Legend

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

Data File: \NQPTPA02\chem\gc4.1\4250-G.b\D-04571.d
 Date: 27-JUL-2000 01:06
 Client ID: LC51
 Sample Info: DGMW102,4250-G.b,PEST.sub,3,
 Volume Injected (ul): 1.0
 Column phase: DB608

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



10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

664 1324

EPA SAMPLE NO.

LCS1

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0G200210

Lab Sample ID: DGM9V102

Date(s) Analyzed: 07/27/00 07/27/00

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	9.35	9.26	9.36	0.2236	
	2	9.97	9.92	10.02	0.2177	2.7
Heptachlor	1	10.63	10.54	10.64	0.2103	
	2	10.84	10.80	10.90	0.2223	5.7
Aldrin	1	11.78	11.70	11.80	0.2166	
	2	11.79	11.76	11.86	0.2206	1.8
Dieldrin	1	14.53	14.46	14.56	0.4585	
	2	14.59	14.54	14.64	0.4568	0.4
Endrin	1	15.11	15.04	15.14	0.4465	
	2	14.90	14.86	14.96	0.2633	69.6
4,4'-DDT	1	15.75	15.68	15.78	0.4628	
	2	15.76	15.72	15.82	0.4481	3.3
Endrin ketone	1	17.97	17.90	18.00	0.02572	
	2	17.92	17.88	17.98	0.02611	1.5
Endrin aldehyde	1	15.97	15.90	16.00	0.03528	
	2	16.32	16.28	16.38	0.03317	6.4

**PESTICIDE
MISCELLANEOUS**

664 1326

**Preparatory Funnel
Extraction Worksheet**

Plant 0203469/0203471
PCB 0203473

STL
Pittsburgh, PA 15238
412-820-8380



HEXANE 103268

8081A/8082

Extraction Began	Date Completed	Sample ID	Client ID	Method	pH	Sample Volume (mL)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Cleanup Method	Cleanup Date
7-21-00	7-24-00	106200279	PCB/PCB	3510C	5	1000	10.0	190-92-6	1.0	NA	NA	NA	NA
		004 MS (Plant)			5					190-98-4	0.5		
		004 MSDS			5					190-91-5	1.0		
		004 MS (PCB)			5					NA	NA		
		004 MSDS			5								
		001			5								
		002			5								
		003			5								
		004			5								
		005			5								
106200193	193	001			8								
106200193	193	004			8								
106200210	210	001			8								
Analyst		py	py	py	py	py	py	py	py	py	py	py	py
Extract(s)		py	py	py	py	py	py	py	py	py	py	py	py
(Record line number from above)	Date	Time	Location	Analyst	Date	Time	Location	Analyst	Date	Time	Location	Analyst	Date
ALL ABOVE	7-21-00	1745	Pittsburgh	P. Yushinski	7-21-00	1755	Pittsburgh	P. Yushinski	7-21-00	1755	Pittsburgh	P. Yushinski	7-21-00
ALL ABOVE	7-24-00	0800	Pittsburgh	Jane M. Ma	7-24-00	1400	Pittsburgh	Jane M. Ma	7-24-00	1400	Pittsburgh	Jane M. Ma	7-24-00
ALL ABOVE	7-26-00	0800	Pittsburgh	Jane M. Ma	7-26-00	0915	Pittsburgh	Jane M. Ma	7-26-00	0915	Pittsburgh	Jane M. Ma	7-26-00
Item Sulfate Mfg.	Lot Number	Reviewed By	Date	Time	Location	Analyst	Date	Time	Location	Analyst	Date	Time	Location
Baker	123625	Jane M. Ma	7-24-00	1755	Pittsburgh	P. Yushinski	7-24-00	1400	Pittsburgh	Jane M. Ma	7-24-00	1400	Pittsburgh

P. Yushinski
7-21-00

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4250-G.SEQ
 Created by : DE11/02/98 on : 7/26/00 12:07
 Edited by : LM07/25/00 on : 7/28/00 14:56
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

664 1327

G

Number of Times Edited : 6

4250G.PAF

Sequence File Header Information:

Number of Rows : 150
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 4250-G.b	190-84-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 4250-G	190-85-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 4250-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 4250-G.b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 4250-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 4250-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 4250-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 4250-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 4250-G.b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 4250-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 4250-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB, 4250-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 4250-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 4250-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DGCDQ101, 4250-G	140158BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DGCDQ102, 4250-G	140158LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DG7C9104, 4250-G	140158007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DG7C9110, 4250-G	140158001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DG7C9111, 4250-G	140158001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DG7CE104, 4250-G	140158002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DG7C9104, 4250-G	140158003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DG7CP104, 4250-G	140158004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DG7CR104, 4250-G	140158005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DG7CW104, 4250-G	140158006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DGG0G104, 4250-G	190235001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DGG0X104, 4250-G	190235002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DGG0X10X, 4250-G	190235002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DGG0X110, 4250-G	190235002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DGG18104, 4250-G	190235003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DGG1E104, 4250-G	190235004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DGG1J104, 4250-G	190235005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DGG1M104, 4250-G	190235006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DGJP4101, 4250-G	190235BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DGJP4102, 4250-G	190235LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 4250-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 4250-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DGG28104, 4250-G	190235007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DGG2F104, 4250-G	190235008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DGG2N104, 4250-G	190235009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DG7MH101, 4250-G	130181BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DG7MH102, 4250-G	130181LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DG54910C, 4250-G	130181001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DG54910D, 4250-G	130181001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DG54910E, 4250-G	130181001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DG55Q105, 4250-G	130181002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DG562105, 4250-G	130181003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DG565105, 4250-G	130181004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DGM9M101, 4250-G	180137-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DGM9M102, 4250-G	180137-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DGD7P10L, 4250-G	180137004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DGD7P10M, 4250-G	180137004D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DGD7P10L, 4250-G	180137004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DGD7J104, 4250-G	180137001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DGGRN101, 4250-G	180137-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DGGRN102, 4250-G	180137-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DGGRN103, 4250-G	180137-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

664 1328

60	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB, 4250-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Cal:Replace	LAPPX, 4250-G.b.		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Cal:Replace	MLAPPX, 4250-G.b		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Cal:Replace	MAPPX, 4250-G.b,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Cal:Replace	MHAPPX, 4250-G.b		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Cal:Replace	HAPPX, 4250-G b,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DGD7L104, 4250-G	180137002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Sample	DGD7J104, 4250-G	180137003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DGM9V101, 4250-G	200279BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
71	Sample	DGM9V102, 4250-G	200279LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
72	Sample	DGJM4108, 4250-G	200279004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Sample	DGJM4109, 4250-G	200279004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Sample	DGJLV103, 4250-G	200279001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
75	Sample	DGJLV103, 4250-G	200279002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
76	Sample	DGJM2103, 4250-G	200279003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	DGJM4107, 4250-G	200279004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
78	Sample	DGJM6103, 4250-G	200279005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
79	Sample	DGJ1J101, 4250-G	200193-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	DGJ1R101, 4250-G	200193-4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DGJ6M103, 4250-G	200210001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DGLQ103, 4250-G	210256-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Sample	DGLR0103, 4250-G	210256-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Sample	DGPP3101, 4250-G	210256-BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Sample	DGPP3102, 4250-G	210256-LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	DGPP3103, 4250-G	210256-LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Cal:Replace	MAPPX, 4250-G.b,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
88	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Std Check	EVALB, 4250-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91	Sample	DG7C9104, 4250-G	140158001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
92	Sample	DG7C9110, 4250-G	140158001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
93	Sample	DG7C9111, 4250-G	140158001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
94	Sample	DG7CE104, 4250-G	140158002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
95	Sample	DG7CJ104, 4250-G	140158003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
96	Sample	DG7C9104, 4250-G	140158001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Sample	DG7C9110, 4250-G	140158001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
98	Sample	DG7C9111, 4250-G	140158001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DG7CE104, 4250-G	140158002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DG7KD101, 4250-G	220122BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
101	Sample	DG7KD102, 4250-G	220122LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
102	Sample	DGMWC10P, 4250-G	220122001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	DGMWC10Q, 4250-G	220122001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
104	Sample	DGMWC104, 4250-G	220122001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
105	Sample	DGMWP104, 4250-G	220122002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
106	Sample	DGMWR104, 4250-G	220122003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Sample	DGQF4103, 4250-G	250210005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Sample	DGVJ7101, 4250-G	250210BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DGVJ7102, 4250-G	250210LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
110	Sample	DGVJ7103, 4250-G	250210LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
111	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
112	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
113	Std Check	EVALB, 4250-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
114	Sample	DGR3H103, 4250-G	250264-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	Sample	DGR3L103, 4250-G	250264-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
116	Sample	DGRCH101, 4250-G	210204BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
117	Sample	DGRCH102, 4250-G	210204LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
118	Sample	DGRCH103, 4250-G	210204LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
119	Sample	DGLD510R, 4250-G	210204001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Sample	DGNRC103, 4250-G	240118001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	DGNRF103, 4250-G	240118002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DGJRC101, 4250-G	190251BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
123	Sample	DGJRC102, 4250-G	190251LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DGJRC103, 4250-G	190251LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DGG3T103, 4250-G	190251001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
126	Sample	DGG44103, 4250-G	190251002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
127	Sample	DG7DJ103, 4250-G	140162001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
128	Sample	DG7E2103, 4250-G	140162002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
129	Sample	DG7E3103, 4250-G	140162003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Sample	DG7E4103, 4250-G	140162004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Sample	DGCQG101, 4250-G	140162BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DGCQG102, 4250-G	140162LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
133	Sample	DGCQG103, 4250-G	140162LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
134	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
135	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
136	Std Check	EVALB, 4250-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
137	Sample	DG7E5103, 4250-G	140162005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
138	Sample	DGD7P101, 4250-G	180137004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
139	Sample	DGD7P10L, 4250-G	180137004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
140	Sample	DGD7P10M, 4250-G	180137004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
141	Sample	DGRLP101, 4250-G	250210BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
142	Sample	DGRLP102, 4250-G	250210LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
143	Sample	DGQM111, 4250-G	250210002S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
144	Sample	DGQM112, 4250-G	250210002D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
145	Sample	DGQJQ104, 4250-G	250210001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
146	Sample	DGQJQ104, 4250-G	250210002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

147	Sample	DGQMW104,4250-G	250210003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
148	Sample	DGQNV104,4250-G	250210004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
149	Std Check	MEDA,4250-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
150	Std Check	MEDB,4250-G.b,,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel 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-A4501	D-A4501		D-A4501	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A4502	D-A4502		D-A4502	N	MED	N	LPT1:,LPT1:
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A4503	D-A4503		D-A4503	N	MED	N	LPT1:,LPT1:
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A4504	D-A4504		D-A4504	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A4505	D-A4505		D-A4505	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A4506	D-A4506		D-A4506	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A4507	D-A4507		D-A4507	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A4508	D-A4508		D-A4508	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A4509	D-A4509		D-A4509	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A4510	D-A4510		D-A4510	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A4511	D-A4511		D-A4511	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A4512	D-A4512		D-A4512	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A4513	D-A4513		D-A4513	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A4514	D-A4514		D-A4514	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A4515	D-A4515		D-A4515	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4516	D-A4516		D-A4516	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4517	D-A4517		D-A4517	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4518	D-A4518		D-A4518	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4519	D-A4519		D-A4519	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4520	D-A4520		D-A4520	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4521	D-A4521		D-A4521	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4522	D-A4522		D-A4522	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4523	D-A4523		D-A4523	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4524	D-A4524		D-A4524	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4525	D-A4525		D-A4525	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4526	D-A4526		D-A4526	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4527	D-A4527		D-A4527	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4528	D-A4528		D-A4528	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4529	D-A4529		D-A4529	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4530	D-A4530		D-A4530	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4531	D-A4531		D-A4531	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4532	D-A4532		D-A4532	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4533	D-A4533		D-A4533	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4534	D-A4534		D-A4534	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4535	D-A4535		D-A4535	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4536	D-A4536		D-A4536	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A4537	D-A4537		D-A4537	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A4538	D-A4538		D-A4538	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4539	D-A4539		D-A4539	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4540	D-A4540		D-A4540	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4541	D-A4541		D-A4541	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4542	D-A4542		D-A4542	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4543	D-A4543		D-A4543	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4544	D-A4544		D-A4544	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4545	D-A4545		D-A4545	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4546	D-A4546		D-A4546	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4547	D-A4547		D-A4547	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4548	D-A4548		D-A4548	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4549	D-A4549		D-A4549	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4550	D-A4550		D-A4550	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4551	D-A4551		D-A4551	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4552	D-A4552		D-A4552	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4553	D-A4553		D-A4553	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4554	D-A4554		D-A4554	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4555	D-A4555		D-A4555	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4556	D-A4556		D-A4556	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4557	D-A4557		D-A4557	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4558	D-A4558		D-A4558	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4559	D-A4559		D-A4559	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A4560	D-A4560		D-A4560	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A4561	D-A4561		D-A4561	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4562	D-A4562		D-A4562	-	-	-	LPT1:
63	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A4563	D-A4563		D-A4563	N	LOW	N	LPT1:
64	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A4564	D-A4564		D-A4564	N	MLOW	N	LPT1:
65	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A4565	D-A4565		D-A4565	N	MLOW	N	LPT1:
66	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A4566	D-A4566		D-A4566	N	MLOW	N	LPT1:
67	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A4567	D-A4567		D-A4567	N	MLOW	N	LPT1:
68	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4568	D-A4568		D-A4568	-	-	-	LPT1:
69	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4569	D-A4569		D-A4569	-	-	-	LPT1:
70	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4570	D-A4570		D-A4570	-	-	-	LPT1:
71	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4571	D-A4571		D-A4571	-	-	-	LPT1:
72	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4572	D-A4572		D-A4572	-	-	-	LPT1:
73	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4573	D-A4573		D-A4573	-	-	-	LPT1:
74	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4574	D-A4574		D-A4574	-	-	-	LPT1:
75	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A4575	D-A4575		D-A4575	-	-	-	LPT1:
				GEN4C	GEN4A	122190A	EVAL	D-A4576	D-A4576		D-A4576	-	-	-	LPT1:

664 1529

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4250-G.SEQ
 Created by : DE11/02/98 on : 7/26/00 12:07
 Edited by : LMO7/25/00 on : 7/28/00 14:56
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

664 1331

H
4250H.PDF

Number of Times Edited : 6

Sequence File Header Information:

Number of Rows : 150
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 4250-G.b	190-84-13		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 4250-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 4250-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 4250-G.b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 4250-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 4250-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 4250-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 4250-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 4250-G.b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 4250-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 4250-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB, 4250-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 4250-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 4250-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DGCDQ101, 4250-G	140158BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DGCDQ102, 4250-G	140158LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DG7C9104, 4250-G	140158001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DG7C9110, 4250-G	140158001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DG7C9111, 4250-G	140158001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DG7CE104, 4250-G	140158002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DG7C9104, 4250-G	140158003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DG7CP104, 4250-G	140158004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DG7CR104, 4250-G	140158005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DG7CW104, 4250-G	140158006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DGG0G104, 4250-G	190235001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DGG0X104, 4250-G	190235002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DGG0X10X, 4250-G	190235002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DGG0X110, 4250-G	190235002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DGG18104, 4250-G	190235003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DGG1E104, 4250-G	190235004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DGG1J104, 4250-G	190235005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DGG1M104, 4250-G	190235006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DGJP4101, 4250-G	190235BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DGJP4102, 4250-G	190235LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 4250-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 4250-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 4250-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DGG28104, 4250-G	190235007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DGG2F104, 4250-G	190235008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DGG2N104, 4250-G	190235009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DG7MH101, 4250-G	130181BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DG7MH102, 4250-G	130181LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DG54910C, 4250-G	130181001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DG54910D, 4250-G	130181001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DG54910E, 4250-G	130181001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DG55Q105, 4250-G	130181002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DG562105, 4250-G	130181003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DG565105, 4250-G	130181004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DG59M101, 4250-G	180137-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DG59M102, 4250-G	180137-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DGD7P104, 4250-G	180137004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DGD7P10M, 4250-G	180137004D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DGD7P101, 4250-G	180137004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DGD7J104, 4250-G	180137001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DGGRN101, 4250-G	180137-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DGGRN102, 4250-G	180137-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DGGRN103, 4250-G	180137-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

664 1332

60	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	EVALB, 4250-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	LAPPX, 4250-G.b.,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Cal. Replace	MLAPPX, 4250-G.b.		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Cal. Replace	MAPPX, 4250-G.b.,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Cal. Replace	MHAPPX, 4250-G.b.		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Cal. Replace	HAPPX, 4250-G.b.,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Cal. Replace	DGD7L104, 4250-G	180137002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DGD7J104, 4250-G	180137003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Sample	DGM9V101, 4250-G	200279BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DGM9V102, 4250-G	200279LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
71	Sample	DGJM4108, 4250-G	200279004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
72	Sample	DGJM4109, 4250-G	200279004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Sample	DGJLV103, 4250-G	200279001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Sample	DGJLV103, 4250-G	200279002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
75	Sample	DGJLV103, 4250-G	200279002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
76	Sample	DGJM2103, 4250-G	200279003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	DGJM4107, 4250-G	200279004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
78	Sample	DGJM6103, 4250-G	200279005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
79	Sample	DGJ1J101, 4250-G	200193-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	DGJ1R101, 4250-G	200193-4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DGJ6M103, 4250-G	200210001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DGLQQ103, 4250-G	210256-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Sample	DGLR0103, 4250-G	210256-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Sample	DGPP3101, 4250-G	210256-BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Sample	DGPP3102, 4250-G	210256-LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	DGPP3103, 4250-G	210256-LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Cal. Replace	MAPPX, 4250-G.b.,		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
88	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Std Check	EVALB, 4250-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91	Sample	DG7C9104, 4250-G	140158001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
92	Sample	DG7C9110, 4250-G	140158001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
93	Sample	DG7C9111, 4250-G	140158001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
94	Sample	DG7C9104, 4250-G	140158002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
95	Sample	DG7CJ104, 4250-G	140158003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
96	Sample	DG7C9104, 4250-G	140158001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Sample	DG7C9110, 4250-G	140158001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
98	Sample	DG7C9111, 4250-G	140158001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DG7CE104, 4250-G	140158002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DGVKD101, 4250-G	220122BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
101	Sample	DGVKD102, 4250-G	220122LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
102	Sample	DCMWC10P, 4250-G	220122001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	DGMWC10Q, 4250-G	220122001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
104	Sample	DGMWC104, 4250-G	220122001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
105	Sample	DGMWP104, 4250-G	220122002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
106	Sample	DGMWR104, 4250-G	220122003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Sample	DGQP4103, 4250-G	250210005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Sample	DGVJ7101, 4250-G	250210BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DGVJ7102, 4250-G	250210LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
110	Sample	DGVJ7103, 4250-G	250210LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
111	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
112	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
113	Std Check	EVALB, 4250-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
114	Sample	DGR3H103, 4250-G	250264-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	Sample	DGR3L103, 4250-G	250264-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
116	Sample	DGRCH101, 4250-G	210204BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
117	Sample	DGRCH102, 4250-G	210204LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
118	Sample	DGRCH103, 4250-G	210204LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
119	Sample	DGLD510R, 4250-G	210204001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Sample	DGNRC103, 4250-G	240118001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	DGNRF103, 4250-G	240118002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DGJRC101, 4250-G	190251BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
123	Sample	DGJRC102, 4250-G	190251LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DGJRC103, 4250-G	190251LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DGG3T103, 4250-G	190251001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
126	Sample	DGG44103, 4250-G	190251002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
127	Sample	DG7DJ103, 4250-G	140162001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
128	Sample	DG7E2103, 4250-G	140162002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
129	Sample	DG7E3103, 4250-G	140162003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Sample	DG7E4103, 4250-G	140162004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Sample	DGCQG101, 4250-G	140162BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DGCQG102, 4250-G	140162LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
133	Sample	DGCQG103, 4250-G	140162LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
134	Std Check	MEDA, 4250-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
135	Std Check	MEDB, 4250-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
136	Std Check	EVALB, 4250-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
137	Sample	DG7E5103, 4250-G	140162005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
138	Sample	DGD7P101, 4250-G	180137004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
139	Sample	DGD7P10L, 4250-G	180137004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
140	Sample	DGD7P10M, 4250-G	180137004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
141	Sample	DGRLP101, 4250-G	250210BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
142	Sample	DGRLP102, 4250-G	250210LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
143	Sample	DGQM111, 4250-G	250210002S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
144	Sample	DGQM112, 4250-G	250210002D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
145	Sample	DGQJQ104, 4250-G	250210001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
146	Sample	DGQM104, 4250-G	250210002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

147	Sample	DGQMW104,4250-G	250210003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
148	Sample	DGQNV104,4250-G	250210004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
149	Std Check	MEDA,4250-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
150	Std Check	MEDB,4250-G.b,,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

664 1333

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-B4501	D-B4501		D-B4501	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B4502	D-B4502		D-B4502	N	MED	N	LPT1:,LPT1:
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B4503	D-B4503		D-B4503	N	MED	N	LPT1:,LPT1:
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B4504	D-B4504		D-B4504	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B4505	D-B4505		D-B4505	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B4506	D-B4506		D-B4506	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B4507	D-B4507		D-B4507	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B4508	D-B4508		D-B4508	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B4509	D-B4509		D-B4509	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B4510	D-B4510		D-B4510	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B4511	D-B4511		D-B4511	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B4512	D-B4512		D-B4512	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B4513	D-B4513		D-B4513	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B4514	D-B4514		D-B4514	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B4515	D-B4515		D-B4515	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4516	D-B4516		D-B4516	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4517	D-B4517		D-B4517	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4518	D-B4518		D-B4518	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4519	D-B4519		D-B4519	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4520	D-B4520		D-B4520	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4521	D-B4521		D-B4521	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4522	D-B4522		D-B4522	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4523	D-B4523		D-B4523	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4524	D-B4524		D-B4524	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4525	D-B4525		D-B4525	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4526	D-B4526		D-B4526	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4527	D-B4527		D-B4527	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4528	D-B4528		D-B4528	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4529	D-B4529		D-B4529	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4530	D-B4530		D-B4530	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4531	D-B4531		D-B4531	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4532	D-B4532		D-B4532	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4533	D-B4533		D-B4533	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4534	D-B4534		D-B4534	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4535	D-B4535		D-B4535	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4536	D-B4536		D-B4536	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B4537	D-B4537		D-B4537	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B4538	D-B4538		D-B4538	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4539	D-B4539		D-B4539	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4540	D-B4540		D-B4540	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4541	D-B4541		D-B4541	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4542	D-B4542		D-B4542	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4543	D-B4543		D-B4543	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4544	D-B4544		D-B4544	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4545	D-B4545		D-B4545	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4546	D-B4546		D-B4546	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4547	D-B4547		D-B4547	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4548	D-B4548		D-B4548	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4549	D-B4549		D-B4549	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4550	D-B4550		D-B4550	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4551	D-B4551		D-B4551	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4552	D-B4552		D-B4552	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4553	D-B4553		D-B4553	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4554	D-B4554		D-B4554	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4555	D-B4555		D-B4555	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4556	D-B4556		D-B4556	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4557	D-B4557		D-B4557	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4558	D-B4558		D-B4558	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4559	D-B4559		D-B4559	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B4560	D-B4560		D-B4560	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B4561	D-B4561		D-B4561	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4562	D-B4562		D-B4562	-	-	-	LPT1:
63	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B4563	D-B4563		D-B4563	N	LOW	N	LPT1:
64	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B4564	D-B4564		D-B4564	N	MLOW	N	LPT1:
65	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B4565	D-B4565		D-B4565	N	MLOW	N	LPT1:
66	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B4566	D-B4566		D-B4566	N	MLOW	N	LPT1:
67	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B4567	D-B4567		D-B4567	N	MLOW	N	LPT1:
68	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4568	D-B4568		D-B4568	-	-	-	LPT1:
69	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4569	D-B4569		D-B4569	-	-	-	LPT1:
70	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4570	D-B4570		D-B4570	-	-	-	LPT1:
71	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4571	D-B4571		D-B4571	-	-	-	LPT1:
72	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4572	D-B4572		D-B4572	-	-	-	LPT1:
73	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4573	D-B4573		D-B4573	-	-	-	LPT1:
74	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4574	D-B4574		D-B4574	-	-	-	LPT1:
75	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4575	D-B4575		D-B4575	-	-	-	LPT1:
76	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B4576	D-B4576		D-B4576	-	-	-	LPT1:

REQUESTED BY: YUSHINSC

METHOD: QJ Pesticides (8081A)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REGD</u>
8E CLP1	DGJ1J-1-01	___	251820	059184	I-10-QJ	COG200193	001		WATER	0	4 1
8E CLP1	DGJ1R-1-01	___	251821	059184	I-10-QJ	COG200193	004		WATER	0	5 1
8E CLP1	DGJ6M-1-03	___	251814	399411	I-09-QJ	COG200210	001		WATER	0	13 1
9A,B CLP1	DGJLV-1-03	___	251815	051465	I-09-QJ	COG200279	001		WATER	0	6 1
9A,B CLP1	DGJLX-1-03	___	251816	051465	I-09-QJ	COG200279	002		WATER	0	6 1
9A,B CLP1	DGJM2-1-03	___	251817	051465	I-09-QJ	COG200279	003		WATER	0	6 1
9A,B CLP1	DGJM4-1-07	___	251818	051465	I-09-QJ	COG200279	004	QC	WATER	0	23 1
9A,B CLP1	DGJM6-1-03	___	251819	051465	I-09-QJ	COG200279	005		WATER	0	7 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

7-21-00 1600
7-21-00 2000

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

664 1336

PCB DATA

PCB
QC SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPTT

Case No.:

SAS No.: 40325

SDG No.: COG200210

GC Column(1): DB608

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX %REC #	DCB %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	DF/S1/201/WA	66	84					0
02	PBLK	80	90					0
03	LCS	76	89					0
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS 45-120

S1 (TCX) = Tetrachloro-m-xylene (~~30-150~~) *DE*
 S2 (DCB) = Decachlorobiphenyl (~~30-150~~) *7-27-00*
21-178

- # 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: QESPIT

SDG No:

Lot #: COG210000

WO #: DGMAD102

BATCH: 0203473

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	10.0	7.97	80	61 - 118	
Aroclor 1260	10.0	8.04	80	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn.Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM410C

BATCH: 0203473

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	10.0	ND	7.38	74	56 - 119	
Aroclor 1260	10.0	ND	7.84	78	31 - 138	

NOTES (S) :

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

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

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COG200279

WO #: DGJM410D

BATCH: 0203473

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Aroclor 1016	10.0	7.67	77	3.8	20	56 - 119	
Aroclor 1260	10.0	7.99	80	1.8	27	31 - 138	

NOTES (S) :

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

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

COMMENTS:

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGMAD101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

Lab File ID: h-a40851.

Matrix: WATER

SDG Number:

664 1342

Lot Number: COG200210

Extraction Method:

Date Extracted: 07/21/00

Date Analyzed(1): 07/25/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:03

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 INTRA-LAB QC	DGJM410A	07/25/00	N/A
02 LAB MS/MSD DE 7200	DGJM410C S	07/25/00	N/A
03 LAB MS/MSD	DGJM410D D	07/25/00	N/A
04 DF/S1/201/WA/002	DGJ6M104	07/25/00	N/A
05 CHECK SAMPLE	DGMAD102 C	07/25/00	N/A
06			
07			
08			
09			
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11			
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15			
16			
17			
18			
19			
20			

COMMENTS:

FORM IV

PCB
SAMPLE DATA

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M104

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203473

Client Sample Id: DF/S1/201/WA/002

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

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40850.d
 Lab Smp Id: DGJ6M104 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 25-JUL-2000 18:43
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DGJ6M104,4140.b
 Misc Info : 200210001
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 26-Jul-2000 10:15 eppinged Quant Type: ESTD
 Cal Date : 14-JUL-2000 18:39 Cal File: h-a40431.d
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 3.40 Sample Matrix: WATER

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

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL RESPONSE (ng)	FINAL (ug/L)		
\$ 1						
1 729	1.732	-0.003	10397761 0.01329	0.13291	0.00- 0.00	0.00
			CAS #: 877-09-8			
8 Aroclor-1221			CAS #: 11104-28-2			

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

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

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

664 1346

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
==	=====	=====	RESPONSE (	ng)	(ug/L)	=====	=====
15	Aroclor-1242				CAS # 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s)							

20	Aroclor-1016				CAS #. 12674-11-2		
Peaks not detected for Quant. or Qual. signal(s).							

21	Aroclor-1248				CAS #: 12672-29-6		
Peaks not detected for Quant. or Qual. signal(s).							

33	Aroclor-1254				CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							

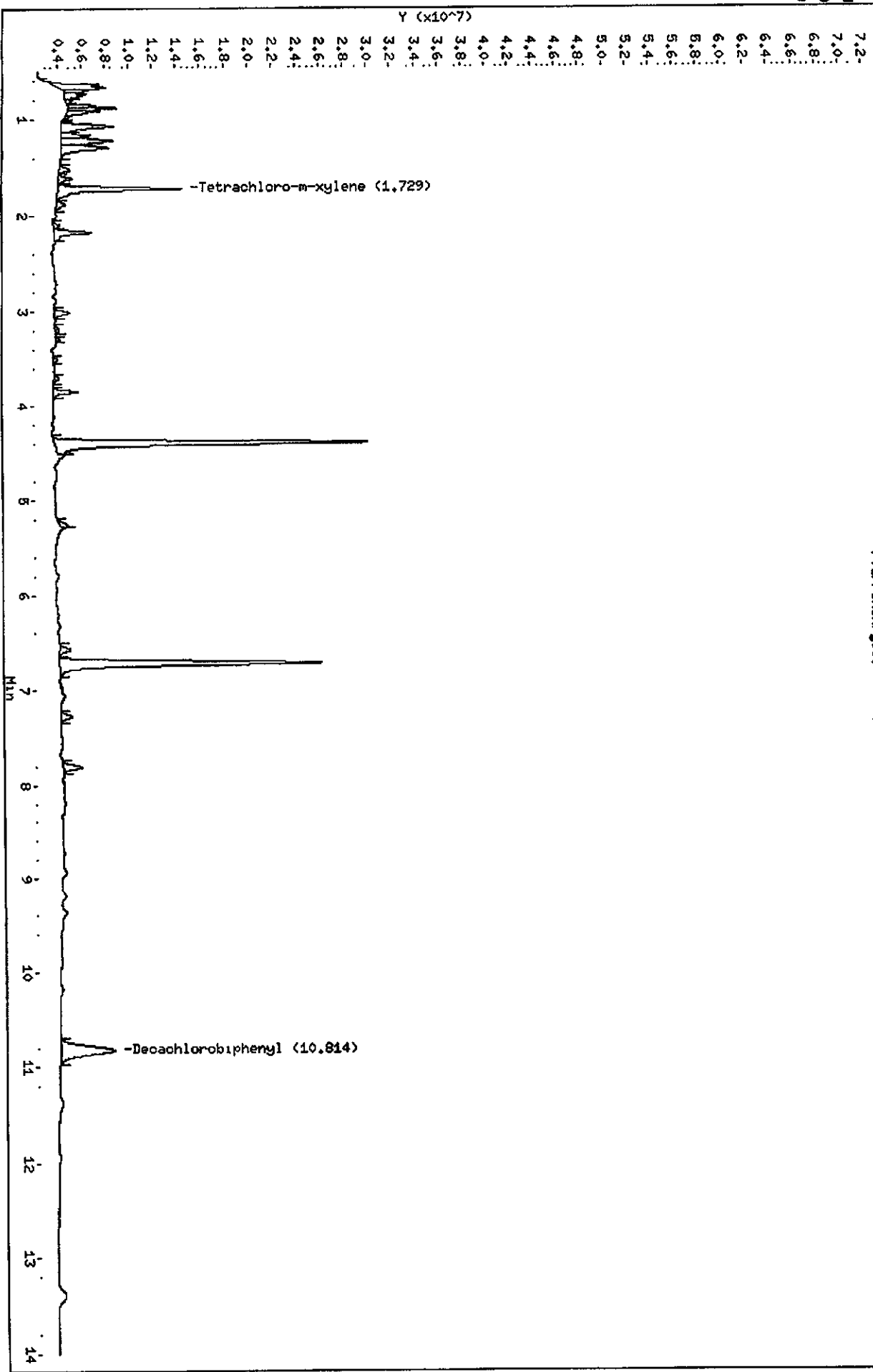
\$ 34	Decachlorobiphenyl				CAS #: 2051-24-3		
10 814	10.820	-0 006	4560184	0.01686	0.16865	0 00-	0.00 0.00

36	Aroclor-1260				CAS #. 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							

Data File: /var/chem/gc8.1/4140.b/r-240850.d
Date : 25-JUL-2000 18:43
Client ID: DF/S1/201/MA/002
Sample Info: DCSJH104,4140.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.1
Operator: 040139
Column diameter: 0.53

/var/chem/gc8.1/4140.b/r-240850.d



664 1348

PCB
CALIBRATION DATA

Report Date : 15-Jul-2000 12:41

GE
HP6890SM
DB608

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 14-JUL-2000 16:03
 End Cal Date : 14-JUL-2000 18:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.40
 Integrator : Falcon
 Method file : /var/chem/gc8.i/4140.b/PCBA.m
 Cal Date : 15-Jul-2000 12:40 eppinged
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gc8.i/4140.b/h-a40427.d
 Level 2: /var/chem/gc8.i/4140.b/h-a40428.d
 Level 3: /var/chem/gc8.i/4140.b/h-a40429.d
 Level 4: /var/chem/gc8.i/4140.b/h-a40430.d
 Level 5: /var/chem/gc8.i/4140.b/h-a40431.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
51 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ |<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ |<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ |<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ |<-
8 Aroclor-1221(1)	+++++	+++++	7705648	+++++	+++++	7705648	0.000
(2)	+++++	+++++	4810750	+++++	+++++	4810750	0.000
(3)	+++++	+++++	15041480	+++++	+++++	15041480	0.000
14 Aroclor-1232(1)	+++++	+++++	10148906	+++++	+++++	10148906	0.000
(2)	+++++	+++++	15242532	+++++	+++++	15242532	0.000
(3)	+++++	+++++	9902454	+++++	+++++	9902454	0.000
(4)	+++++	+++++	7224146	+++++	+++++	7224146	0.000
15 Aroclor-1242(1)	+++++	+++++	17552268	+++++	+++++	17552268	0.000
(2)	+++++	+++++	28515062	+++++	+++++	28515062	0.000
(3)	+++++	+++++	12645232	+++++	+++++	12645232	0.000
(4)	+++++	+++++	17507196	+++++	+++++	17507196	0.000
(5)	+++++	+++++	12247460	+++++	+++++	12247460	0.000
20 Aroclor-1016(1)	13545820	13804720	12945392	11545660	11108552	12590029	9.565
(2)	26073590	24224575	22314386	21128491	20269739	22802156	10.326
(3)	41710420	38826785	36506332	35538539	34673040	37451023	7.588
(4)	19429800	17736640	15483672	15943563	15021412	16723017	10.942
(5)	26741310	24207230	21702044	21894891	20583040	23025703	10.682
21 Aroclor-1248(1)	+++++	+++++	18608848	+++++	+++++	18608848	0.000
(2)	+++++	+++++	17384254	+++++	+++++	17384254	0.000
(3)	+++++	+++++	21311476	+++++	+++++	21311476	0.000
(4)	+++++	+++++	21950184	+++++	+++++	21950184	0.000
(5)	+++++	+++++	21215958	+++++	+++++	21215958	0.000

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HP68908M
DB608

664 1350

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 14-JUL-2000 16:03
 End Cal Date : 14-JUL-2000 18:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.40
 Integrator : Falcon
 Method file : /var/chem/gc8.i/4140.b/PCBA.m
 Cal Date : 15-Jul-2000 12:40 eppinged
 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		
33 Aroclor-1254 (1)		+++++	+++++	18551994	+++++	+++++	18551994	0.000
(2)		+++++	+++++	22278988	+++++	+++++	22278988	0.000
(3)		+++++	+++++	16299666	+++++	+++++	16299666	0.000
(4)		+++++	+++++	33130794	+++++	+++++	33130794	0.000
(5)		+++++	+++++	22300048	+++++	+++++	22300048	0.000
36 Aroclor-1260 (1)		31546310	29563755	27542440	26824261	26029146	28301182	7.910
(2)		33204020	31040230	29374076	28852115	27954468	30084982	6.894
(3)		29830200	28349070	26460440	25571471	25806657	27203568	6.723
(4)		54325370	53628010	52897220	52140109	51677078	52933557	2.032
(5)		26929860	25768960	24709738	24167930	23924114	25100120	4.960
\$ 1 Tetrachloro-m-xylene		802505600	790275400	826133000	755579400	737136410	782325962	4.585
\$ 34 Decachlorobiphenyl		291020200	280301900	273693600	255513340	251465720	270398952	6.172

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DB608

STL-PITTSBURGH

664 1351

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: h-a40805.d
Analysis Type:
Lab Sample ID: M1660
Quant Type: ESTD

Injection Date: 24-JUL-2000 10:31
Init. Calibration Date(s): 07/14/0 07/14/0
Init. Calibration Times: 16:03 18:39
Method File: /var/chem/gc8.i/4140.b/PCBA.m

COMPOUND	RRF	RF0	MIN RRF	MAX RRF
20 Aroclor-1016(1)	12590028.900	11579978.000	0.010	8.0
(2)	22802156.200	20802124.000	0.010	8.8
(3)	37451023.300	34226770.000	0.010	8.6
(4)	16723017.300	15326576.000	0.010	8.4
(5)	23025702.900	21074376.000	0.010	8.5
\$ 1 Tetrachloro-m-xylene	782325962.000	712376320.000	0.000	8.9
\$ 34 Decachlorobiphenyl	270398952.000	251473480.000	0.010	7.0
36 Aroclor-1260(1)	28301182.500	25905236.000	0.010	8.5
(2)	30084981.900	28164982.000	0.010	6.4
(3)	27203567.600	25426952.000	0.010	6.5
(4)	52933557.300	49133258.000	0.010	7.2
(5)	25100120.400	23117230.000	0.010	7.9

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 DB608

STL-PITTSBURGH

664 1352

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 25-JUL-2000 16:07
 Lab File ID: h-a40842.d Init. Calibration Date(s): 07/14/0 07/14/0
 Analysis Type: Init. Calibration Times: 16:03 18:39
 Lab Sample ID: M1660 Method File: /var/chem/gc8.i/4140.b/PCBA.m
 Quant Type: ESTD

COMPOUND	RRP	RFO	MIN RRP	%D	MAX %D
20 Aroclor-1016(1)	12590028.900	11216224.000	0.010	10.9	15.0
(2)	22802156.200	20589566.000	0.010	9.7	15.0
(3)	37451023.300	33951462.000	0.010	9.3	15.0
(4)	16723017.300	15209636.000	0.010	9.0	15.0
(5)	23025702.900	20907436.000	0.010	9.2	15.0
\$ 1 Tetrachloro-m-xylene	782325962.000	705969520.000	0.000	9.8	15.0
\$ 34 Decachlorobiphenyl	270398952.000	257320680.000	0.010	4.8	15.0
36 Aroclor-1260(1)	28301182.500	25943824.000	0.010	8.3	15.0
(2)	30084981.900	27550720.000	0.010	8.4	15.0
(3)	27203567.600	25660666.000	0.010	5.7	15.0
(4)	52933557.300	49162226.000	0.010	7.1	15.0
(5)	25100120.400	23000388.000	0.010	8.4	15.0

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 03608

STL-PITTSBURGH

664 1353

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
 Lab File ID: h-a40863.d
 Analysis Type:
 Lab Sample ID: M1660
 Quant Type: ESTD

Injection Date: 25-JUL-2000 22:56
 Init. Calibration Date(s): 07/14/0 07/14/0
 Init. Calibration Times: 16:03 18:39
 Method File: /var/chem/gc8.i/4140.b/PCBA.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
20 Aroclor-1016(1)	12590028.900	11847624.000	0.010	5.9	15.0
(2)	22802156.200	21804816.000	0.010	4.4	15.0
(3)	37451023.300	36014296.000	0.010	3.8	15.0
(4)	16723017.300	15183830.000	0.010	9.2	15.0
(5)	23025702.900	21332708.000	0.010	7.4	15.0
\$ 1 Tetrachloro-m-xylene	782325962.000	728543600.000	0.000	6.9	15.0
\$ 34 Decachlorobiphenyl	270398952.000	279588400.000	0.010	-3.4	15.0
36 Aroclor-1260(1)	28301182.500	27915702.000	0.010	1.4	15.0
(2)	30084981.900	29676168.000	0.010	1.4	15.0
(3)	27203567.600	26992354.000	0.010	0.8	15.0
(4)	52933557.300	53218274.000	0.010	-0.5	15.0
(5)	25100120.400	25046258.000	0.010	0.2	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

664 1354

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0G200210

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 07/14/00 07/14/00

Instrument ID: GC8

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
EPA SAMPLE NO.		LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
=====		=====	=====	=====	#	#
01		M2154	07/14/00	1603	1.73	10.81
02		M1232	07/14/00	1622		
03		M1242	07/14/00	1642		
04		M1248	07/14/00	1701		
05		L1660	07/14/00	1721	1.73	10.82
06		ML1660	07/14/00	1740	1.73	10.82
07		M1660	07/14/00	1800	1.73	10.82
08		MH1660	07/14/00	1819	1.73	10.82
09		H1660	07/14/00	1839	1.73	10.82
10		2ND2154	07/14/00	1858	1.73	
11		2ND1232	07/14/00	1918		
12		2ND1242	07/14/00	1937		
13		2ND1248	07/14/00	1956		
14		2ND1660	07/14/00	2016		
15		M2154	07/24/00	0913	1.73	10.80
16		M1232	07/24/00	0933		
17		M1242	07/24/00	0952		
18		M1248	07/24/00	1012		
19		M1660	07/24/00	1031	1.73	10.81
20		M1660	07/25/00	1607	1.73	10.80
21	DF/S1/201/WA	DGJ6M104	07/25/00	1843	1.73	10.81
22	PBLK	DGMAD101	07/25/00	1903	1.73	10.82
23	LCS	DGMAD102	07/25/00	1922	1.73	10.81
24		M1660	07/25/00	2256	1.73	10.81
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

664 1355

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40423.d
 Lab Smp Id: M2154
 Inj Date : 14-JUL-2000 16:03
 Operator : 010139
 Smp Info : M2154,4140.b
 Misc Info : 190-83-1
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 16:03
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40423.d
 Calibration Sample, Level: 3
 Compound Sublist: 2-2154.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
				RESPONSE (ng)	(ng)				
..	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 Aroclor-1221				CAS #: 11104-28-2					
2.047	2.047	0.000		3852824	0.50000	0.50000	0.00-	0.00	0.00
2.187	2.187	0.000		2405375	0.50000	0.50000	116.57-	156.57	0.00
2.252	2.252	0.000		7520740	0.50000	0.50000	66.04-	106.04	0.00
Average of Peak Amounts =					0.5				

\$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8					
1.728	1.732	-0.004		17513368	0.02500	0.025000	0.00-	0.00	0.00

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3					
10.815	10.820	-0.005		6190455	0.02500	0.025000	0.00-	0.00	0.00

33 Aroclor-1254				CAS #: 11097-69-1					
4.479	4.479	0.000		9275997	0.50000	0.50000	0.00-	0.00	0.00
4.550	4.550	0.000		11139494	0.50000	0.50000	92.23-	132.23	0.00
5.189	5.189	0.000		8149833	0.50000	0.50000	77.40-	117.40	0.00
5.360	5.360	0.000		16565397	0.50000	0.50000	51.09-	91.09	0.00
5.530	5.530	0.000		11150024	0.50000	0.50000	65.01-	105.01	0.00
Average of Peak Amounts =					0.5				

Data File: /var/chem/gc8.i/4140.b/r-840423.d
Date: 14-JUL-2000 16:03

Client ID:

Sample Info: H2154,4140.b

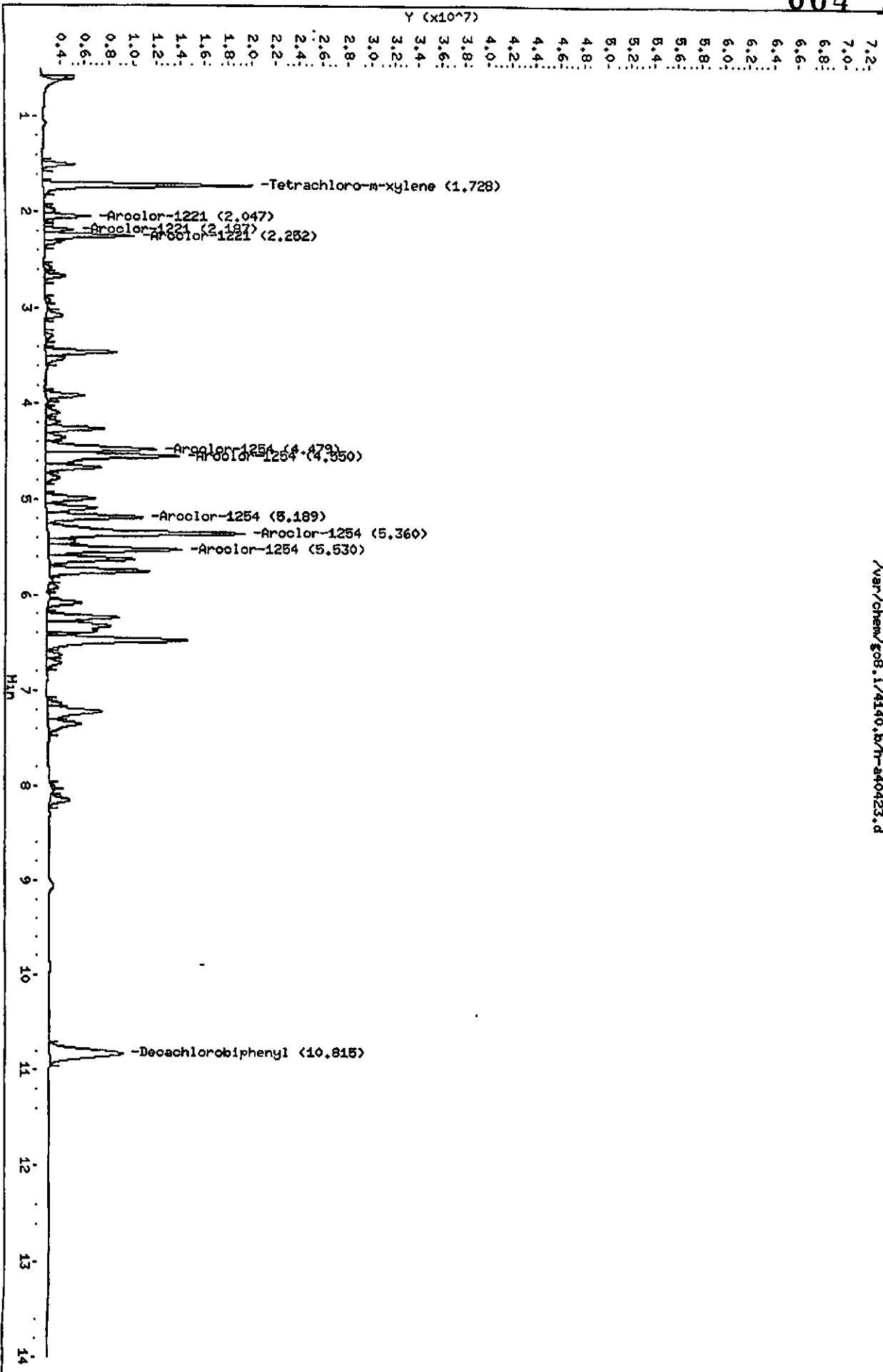
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

/var/chem/gc8.i/4140.b/r-840423.d



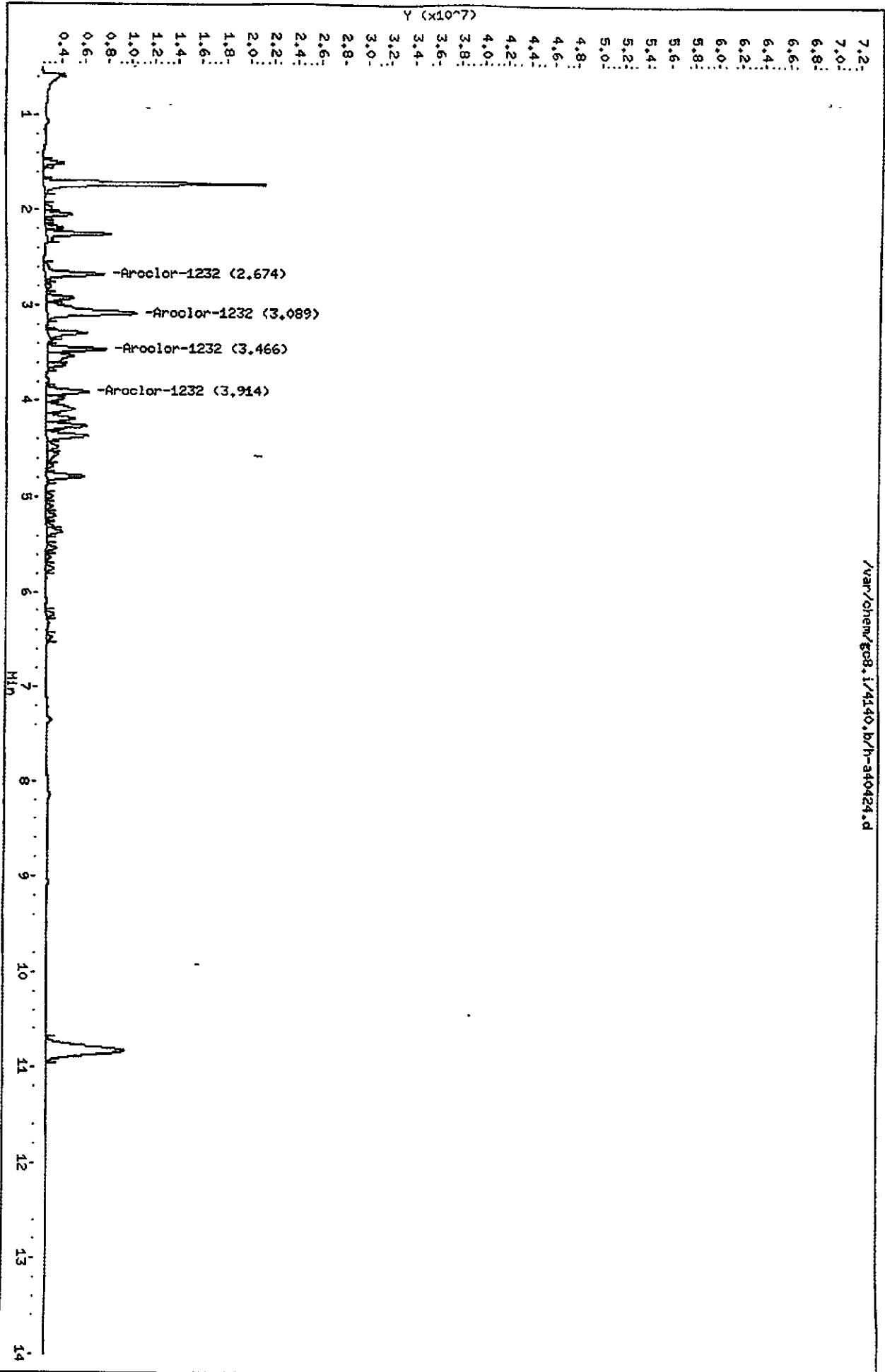
STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40424.d
Lab Smp Id: M1232
Inj Date : 14-JUL-2000 16:22
Operator : 010139
Smp Info : M1232,4140.b
Misc Info : 190-83-2
Comment :
Method : /var/chem/gc8.i/4140.b/PCBA.m
Meth Date : 15-Jul-2000 12:45 eppinged
Cal Date : 14-JUL-2000 16:22
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40424.d
Calibration Sample, Level: 3
Compound Sublist: 3-1232.sub
Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
..	.....	.....	ng)	(	(	.....	.....
14 Aroclor-1232									
CAS #: 11141-16-5									
2.674	2.674	0.000	5074453	0.50000	0.50000	0.00- 0.00	0.00	0.00	
3.089	3.089	0.000	7621266	0.50000	0.50000	146.26- 186.26	0.00	0.00	
3.466	3.466	0.000	4951227	0.50000	0.50000	65.99- 105.99	0.00	0.00	
3.914	3.914	0.000	3612073	0.50000	0.50000	74.18- 114.18	0.00	0.00	
Average of Peak Amounts =					0.5				

Data File: /var/chem/gc8.i/4140.b/h-310424.d
 Date: 14-JUL-2000 16:22
 Client ID:
 Sample Info: H1232/4140.b
 Column phase: DB608

Instrument: GC8.i
 Operator: 010139
 Column diameter: 0.53



664 1359

STL-PITTSBURGH

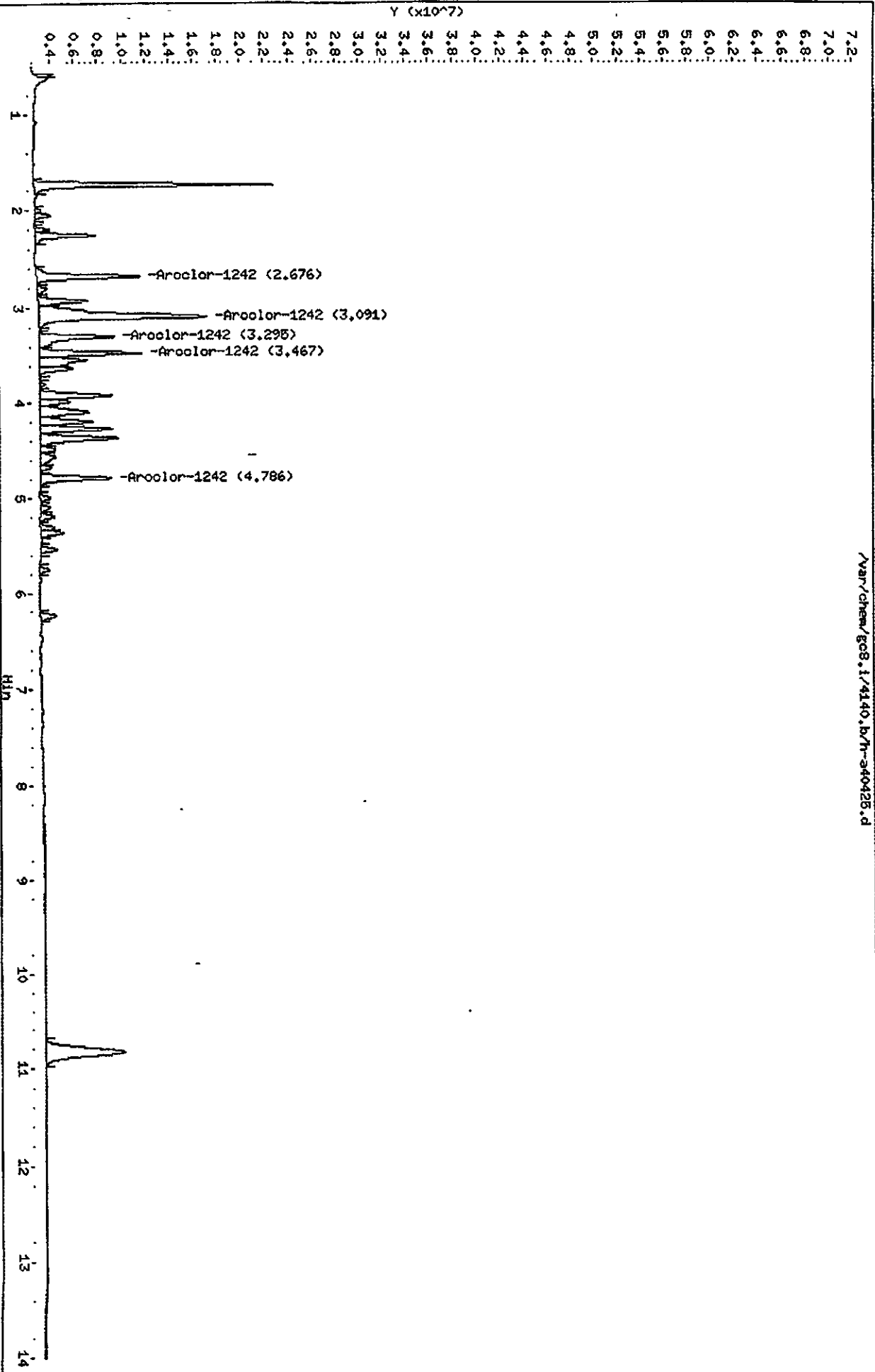
Data file : /var/chem/gc8.i/4140.b/h-a40425.d
Lab Smp Id: M1242
Inj Date : 14-JUL-2000 16:42
Operator : 010139
Smp Info : M1242,4140.b
Misc Info : 190-83-3
Comment :
Method : /var/chem/gc8.i/4140.b/PCBA.m
Meth Date : 15-Jul-2000 12:45 eppinged
Cal Date : 14-JUL-2000 16:42
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40425.d
Calibration Sample, Level: 3
Compound Sublist: 4-1242.sub
Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT	ON-COL	TARGET RANGE	RATIO
**	*****	*****	*****	ng)	(ng)	*****	*****
15 Aroclor-1242			CAS #: 53469-21-9				
2.676	2.676	0.000	8776134	0.50000	0.50000	0.00- 0.00	0.00
3.091	3.091	0.000	14257531	0.50000	0.50000	310.13- 350.13	0.00
3.295	3.295	0.000	6322616	0.50000	0.50000	749.70- 789.70	0.00
3.467	3.467	0.000	8753598	0.50000	0.50000	512.48- 552.48	0.00
4.786	4.786	0.000	6123730	0.50000	0.50000	314.30- 354.30	0.00
Average of Peak Amounts =					0.5		

Data File: /var/chem/gc8.i/4140.b/h-340425.d
Date: 14-JUL-2000 16:42
Client ID:
Sample Info: H1242,4140.b
Column phase: DB608

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

/var/chem/gc8.i/4140.b/h-340425.d



Data File: /var/chem/gc8.i/4140.b/h-a40426.d
 Report Date: 15-Jul-2000 12:47

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40426.d
 Lab Smp Id: M1248
 Inj Date : 14-JUL-2000 17:01
 Operator : 010139
 Smp Info : M1248,4140.b
 Misc Info : 190-83-4
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 17:01
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40426.d
 Calibration Sample, Level: 3
 Compound Sublist: 5-1248.sub
 Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (ng)	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
**	*****	*****	*****	*****	*****	*****	*****
21 Aroclor-1248			CAS # 12672-29-6				
3.469	3.469	0.000	9304424	0.50000	0.50000	0.00- 0.00	0.00
3.917	3.917	0.000	8692127	0.50000	0.50000	114.57- 154.57	0.00
4.266	4.266	0.000	10655738	0.50000	0.50000	63.67- 103.67	0.00
4.364	4.364	0.000	10975092	0.50000	0.50000	43.86- 83.86	0.00
4.786	4.786	0.000	10607979	0.50000	0.50000	128.08- 168.08	0.00
Average of Peak Amounts =				0.5			

Data File: /var/chem/ec8.1/4140.b/h-a40426.d
Date: 14-JUL-2000 17:01

Client ID:

Sample Info: H1248,4140.b

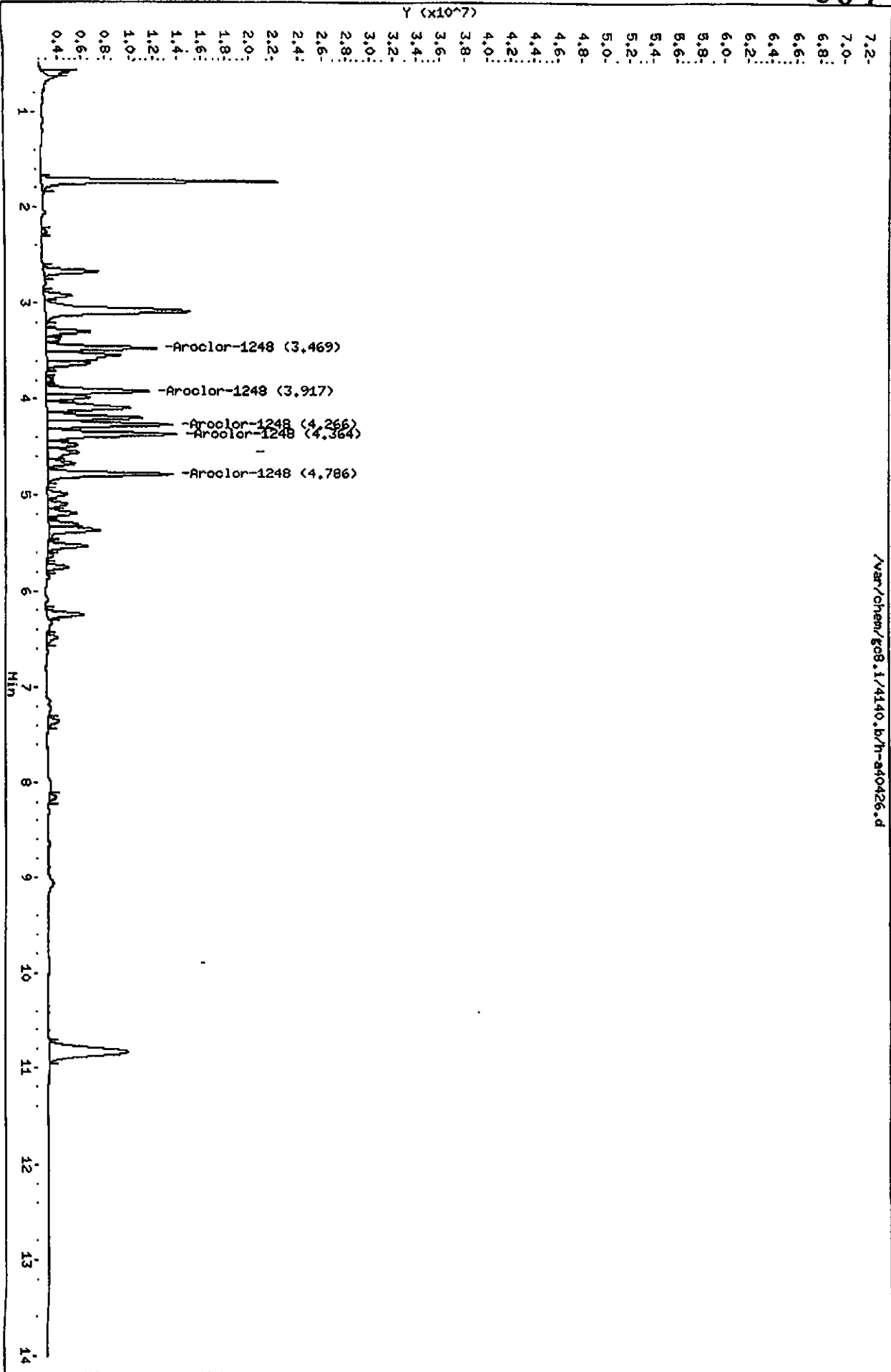
Column phase: DB608

Instrument: ec8.1

Operator: 010139

Column diameter: 0.53

/var/chem/ec8.1/4140.b/h-a40426.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40427.d
 Lab Smp Id: L1660
 Inj Date : 14-JUL-2000 17:21
 Operator : 010139
 Smp Info : L1660,4140.b
 Misc Info : 190-83-5
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 17:21
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40427.d
 Calibration Sample, Level: 1
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RT	RESPONSE (ng)	CAL-AMT	ON-COL (ng)	TARGET RANGE	RATIO	
ua	*****	*****	*****	*****	*****	*****	*****	*****	
20 Aroclor-1016				CAS #: 12674-11-2					
2.255	2.256	-0.001		1354582	0.10000	0.10000	0.00- 0.00	0.00 (M)	
2.677	2.679	-0.002		2607359	0.10000	0.10000	80.00- 120.00	0.00	
3.087	3.094	-0.007		4171042	0.10000	0.10000	416.04- 456.04	0.00	
3.297	3.297	0.000		1942980	0.10000	0.10000	203.51- 243.51	0.00	
3.468	3.469	-0.001		2674131	0.10000	0.10000	297.56- 337.56	0.00	
Average of Peak Amounts =						0.1			

\$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8					
1.730	1.732	-0.002		4012528	0.00500	0.0053392	0.00- 0.00	0.00 (M)	

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3					
10.823	10.820	0.003		1455101	0.00500	0.0054029	0.00- 0.00	0.00 (M)	

36 Aroclor-1260				CAS #: 11096-82-5					
5.638	5.637	0.001		3154631	0.10000	0.10000	0.00- 0.00	0.00 (M)	
5.758	5.756	0.002		3320402	0.10000	0.10000	95.86- 135.86	0.00	
6.480	6.480	0.000		2983020	0.10000	0.10000	116.91- 156.91	0.00	
7.356	7.356	0.000		5432537	0.10000	0.10000	120.00- 160.00	0.00	
8.154	8.156	-0.002		2692986	0.10000	0.10000	108.33- 148.33	0.00	
Average of Peak Amounts =						0.1			

664 1364

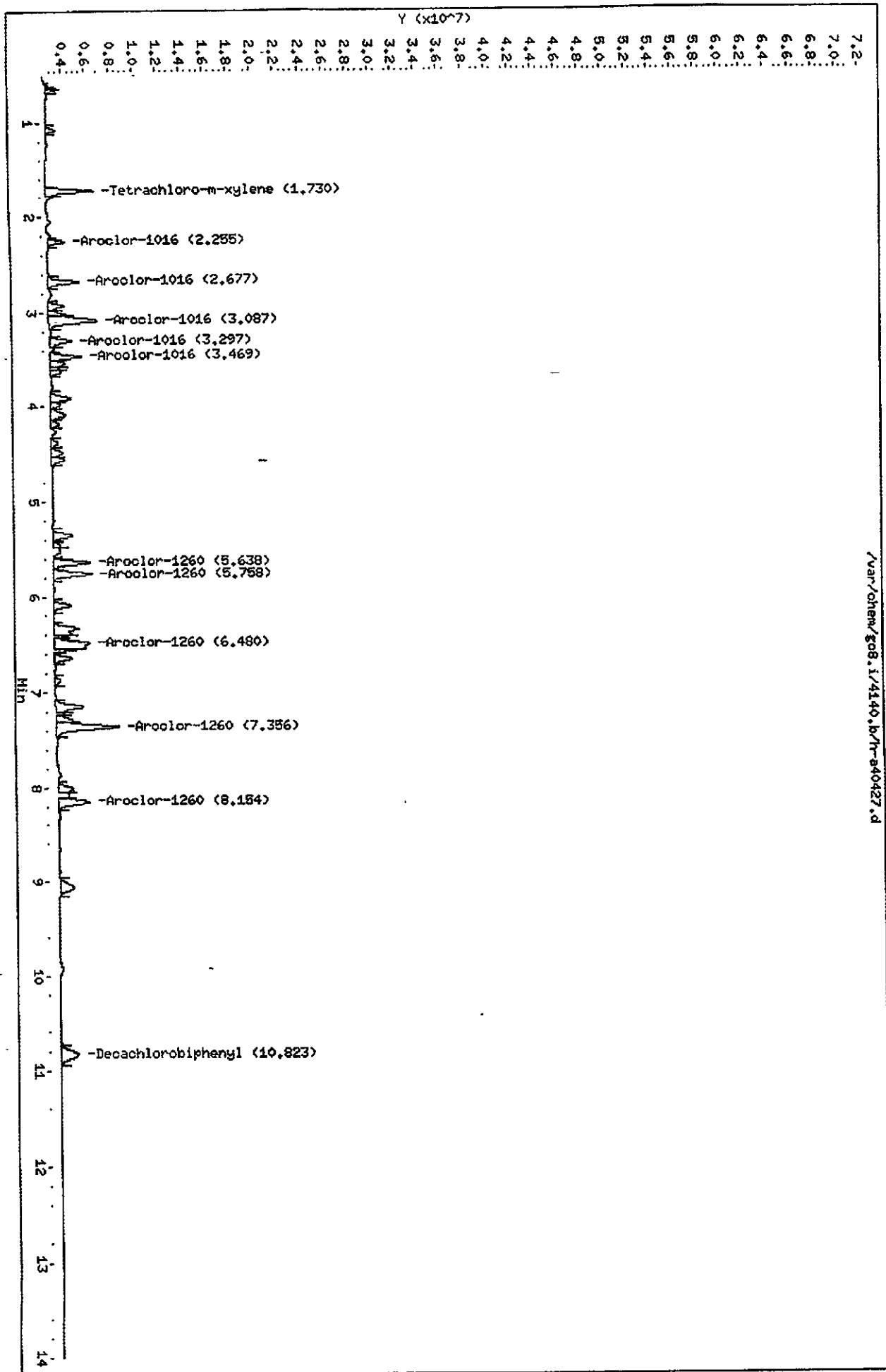
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.i/4140.b/tr-s40427.d
 Date: 14-JUL-2000 17:21
 Client ID:
 Sample Info: L1660,4140.b
 Column phase: BB608

/var/chem/gc8.i/4140.b/tr-s40427.d

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



Data File: /var/chem/gc8.i/4140.b/h-a40428.d
 Report Date: 15-Jul-2000 12:47

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40428.d
 Lab Smp Id: ML1660
 Inj Date : 14-JUL-2000 17:40
 Operator : 010139
 Smp Info : ML1660,4140.b
 Misc Info : 190-83-6
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 17:40
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40428.d
 Calibration Sample, Level: 2
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RT	RESPONSE (ng)	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016									
				CAS #: 12674-11-2					
2.255	2.256	-0.001		2760944	0.20000	0.20189	0.00-	0.00	0.00(M)
2.677	2.679	-0.002		4844915	0.20000	0.19265	80.00-	120.00	0.00
3.091	3.094	-0.003		7765357	0.20000	0.19284	416.04-	456.04	0.00
3.296	3.297	-0.001		3547328	0.20000	0.19089	203.51-	243.51	0.00
3.467	3.469	-0.002		4841446	0.20000	0.19005	297.56-	337.56	0.00
Average of Peak Amounts =				0.19366					

S 1 Tetrachloro-m-xylene									
				CAS #: 877-09-8					
1.732	1.732	0.000		7902754	0.01000	0.010338	0.00-	0.00	0.00

S 34 Decachlorobiphenyl									
				CAS #: 2051-24-3					
10.822	10.820	0.002		2803019	0.01000	0.010268	0.00-	0.00	0.00

36 Aroclor-1260									
				CAS #: 11096-82-5					
5.634	5.637	-0.003		5912751	0.20000	0.19351	0.00-	0.00	0.00(M)
5.755	5.756	-0.001		6208046	0.20000	0.19326	95.86-	135.86	0.00
6.481	6.480	0.001		5669814	0.20000	0.19491	116.91-	156.91	0.00
7.353	7.356	-0.003		10725602	0.20000	0.19871	120.00-	160.00	0.00
8.155	8.156	-0.001		5153792	0.20000	0.19559	108.33-	148.33	0.00
Average of Peak Amounts =				0.1952					

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.1/4140.b/h-a40428.d
Date: 14-JUL-2000 17:40

Client ID:

Sample Info: HL1660,4140.b

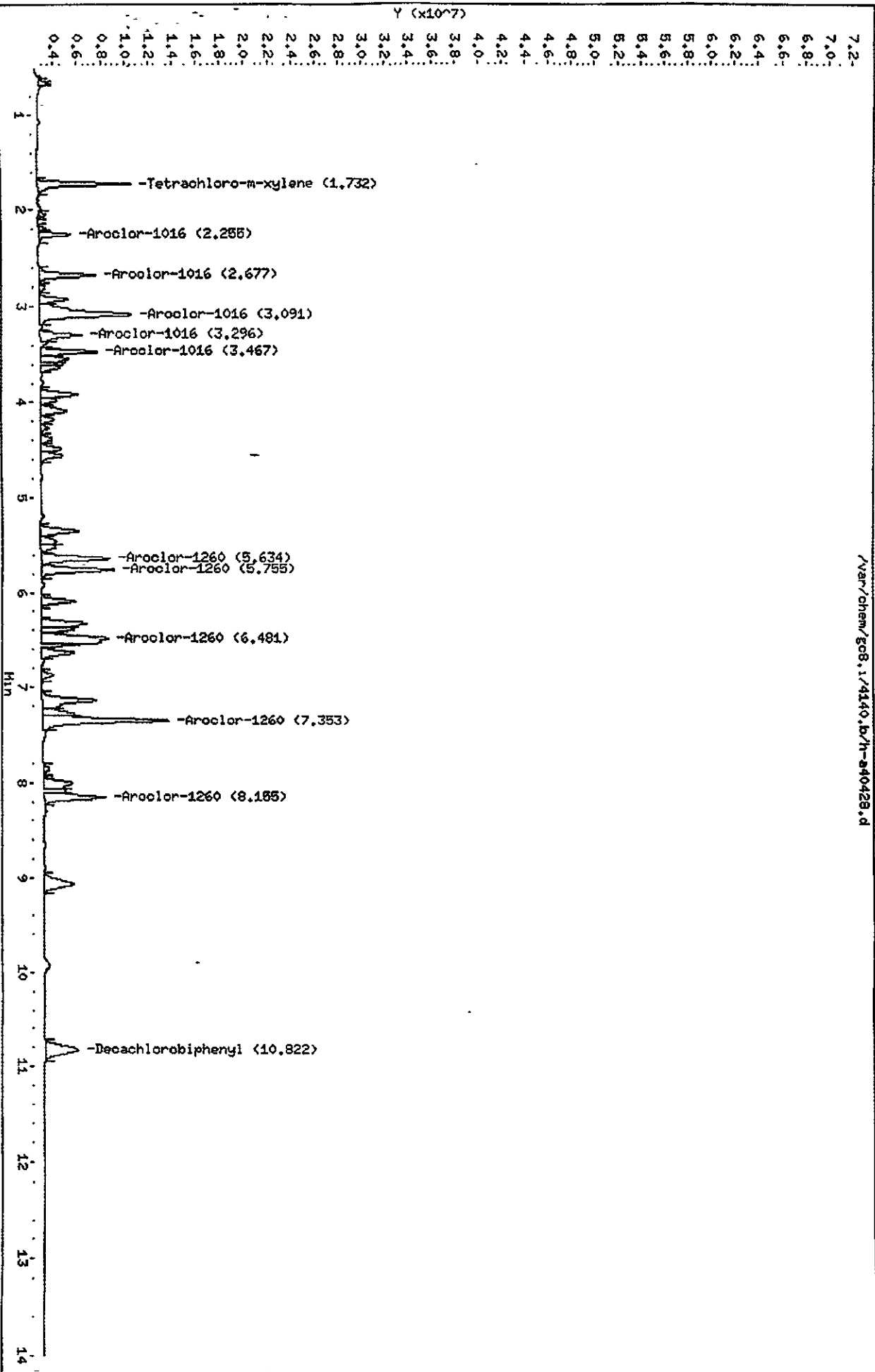
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

/var/chem/gc8.1/4140.b/h-a40428.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40429.d
 Lab Smp Id: M1660
 Inj Date : 14-JUL-2000 18:00
 Operator : 010139
 Smp Info : M1660,4140.b
 Misc Info : 190-83-7
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:00
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40429.d
 Calibration Sample, Level: 3
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	TARGET	RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	-----	-----	-----
20 Aroclor-1016					CAS #: 12674-11-2				
2.256	2.256	0.000	6472696	0.50000	0.48189	0.00-	0.00	0.00	
2.679	2.679	0.000	11157193	0.50000	0.46096	80.00-	120.00	0.00	
3.094	3.094	0.000	18253166	0.50000	0.46786	416.04-	456.04	0.00	
3.297	3.297	0.000	7741836	0.50000	0.44113	203.51-	243.51	0.00	
3.469	3.469	0.000	10851022	0.50000	0.44808	297.56-	337.56	0.00	
Average of Peak Amounts =					0.45998				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.732	1.732	0.000	20653325	0.02500	0.025615	0.00-	0.00	0.00	

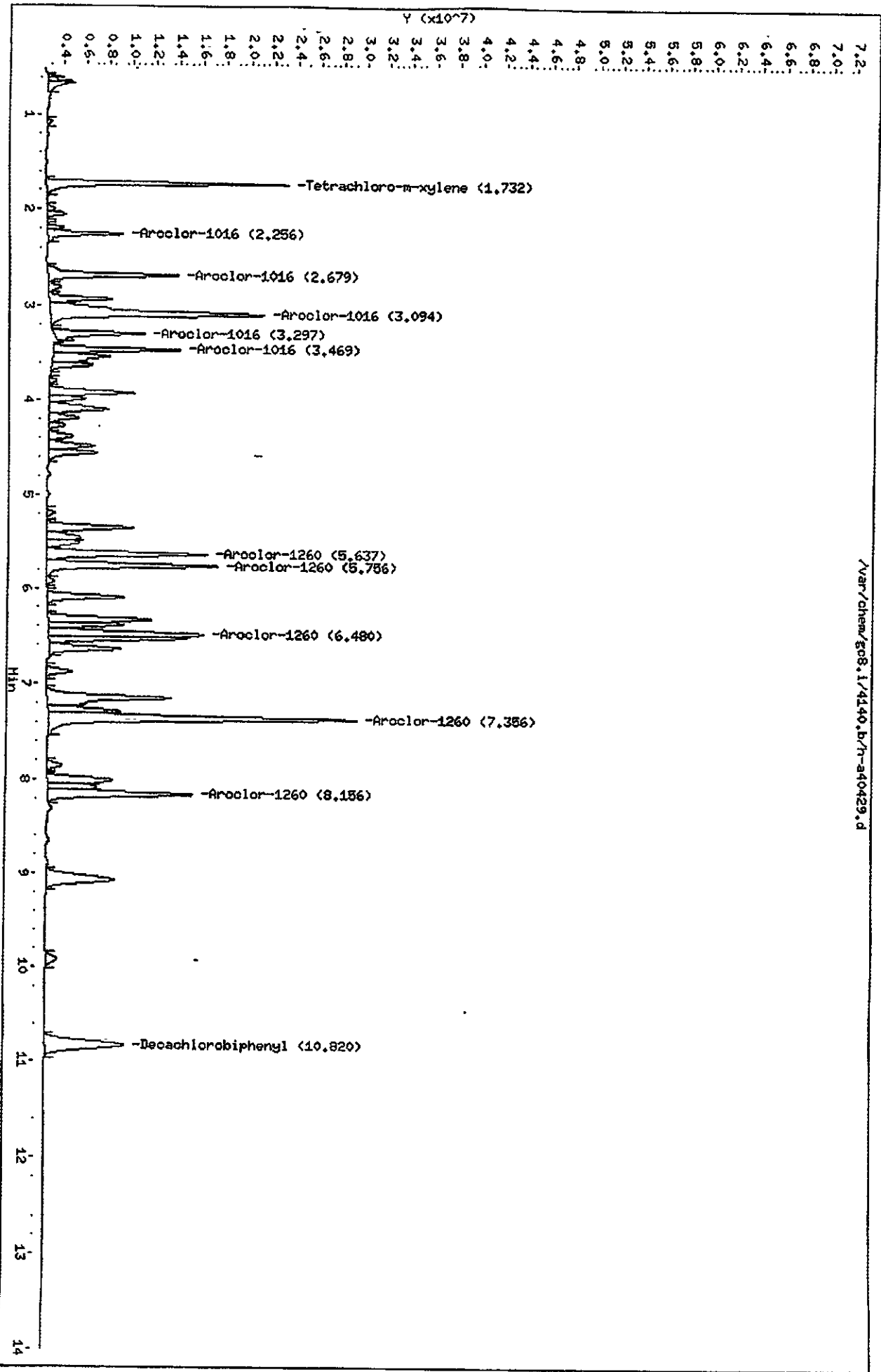
\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10.820	10.820	0.000	6842340	0.02500	0.024292	0.00-	0.00	0.00	

36 Aroclor-1260					CAS #: 11096-82-5				
5.637	5.637	0.000	13771220	0.50000	0.46602	0.00-	0.00	0.00	
5.756	5.756	0.000	14687038	0.50000	0.47065	95.86-	135.86	0.00	
6.480	6.480	0.000	13230220	0.50000	0.46894	116.91-	156.91	0.00	
7.356	7.356	0.000	26448610	0.50000	0.49329	120.00-	160.00	0.00	
8.156	8.156	0.000	12354869	0.50000	0.47882	108.33-	148.33	0.00	
Average of Peak Amounts =					0.47554				

Data File: /var/chem/gc8.1/4140.b/r-940429.d
Date: 14-JUL-2000 19:00
Client ID:
Sample Info: H1660,4140.b
Column phase: DB608

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

/var/chem/gc8.1/4140.b/r-940429.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40430.d
 Lab Smp Id: MH1660
 Inj Date : 14-JUL-2000 18:19
 Operator : 010139
 Smp Info : MH1660,4140.b
 Misc Info : 190-83-8
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:19
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40430.d
 Calibration Sample, Level: 4
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RT	RESPONSE (ng)	CAL-AMT	ON-COL (ng)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016				CAS #: 12674-11-2					
2.254	2.256	-0.002		11545660	1.00000	0.89084	0.00- 0.00	0.00(M)	
2.677	2.679	-0.002		21128491	1.00000	0.90157	80.00- 120.00	0.00	
3.091	3.094	-0.003		35538539	1.00000	0.93166	416.04- 456.04	0.00	
3.296	3.297	-0.001		15943563	1.00000	0.92974	203.51- 243.51	0.00	
3.468	3.469	-0.001		21894891	1.00000	0.92632	297.56- 337.56	0.00	
Average of Peak Amounts =				0.91603					

\$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8					
1.731	1.732	-0.001		37778970	0.05000	0.047603	0.00- 0.00	0.00	

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3					
10.819	10.820	-0.001		12775667	0.05000	0.046435	0.00- 0.00	0.00	

36 Aroclor-1260				CAS #: 11096-82-5					
5.636	5.637	-0.001		26824261	1.00000	0.92916	0.00- 0.00	0.00(M)	
5.756	5.756	0.000		28852115	1.00000	0.94234	95.86- 135.86	0.00	
6.484	6.480	0.004		25571471	1.00000	0.92809	116.91- 156.91	0.00	
7.354	7.356	-0.002		52140109	1.00000	0.97920	120.00- 160.00	0.00	
8.154	8.156	-0.002		24167930	1.00000	0.95171	108.33- 148.33	0.00	
Average of Peak Amounts =				0.9461					

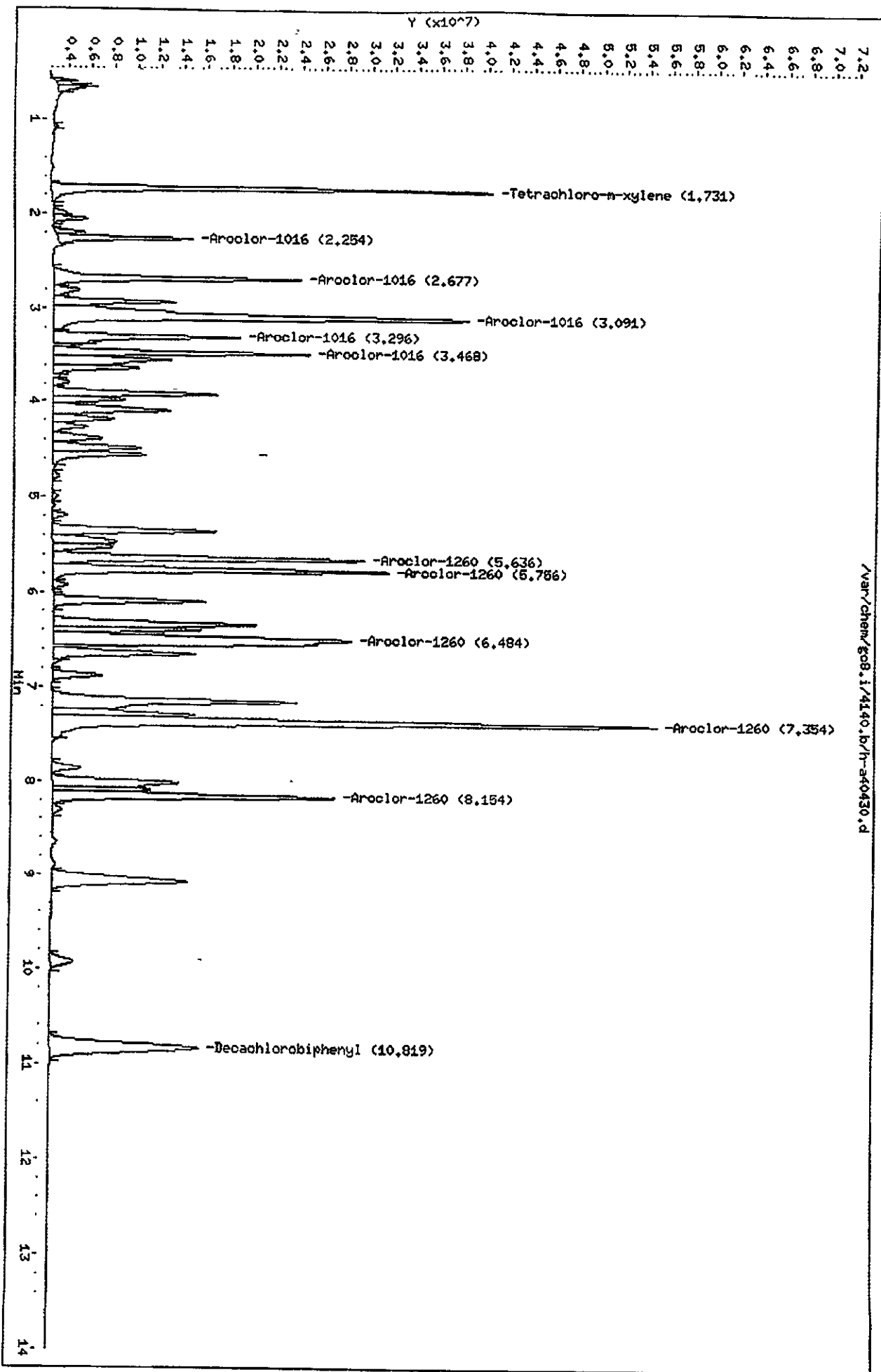
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/g08.1/4140.b/h-a40430.d
Date: 14-JUL-2000 18:19
Client ID:
Sample Info: HHT660, 4140.b

Column Phase: BR608

Instrument: g08.1
Operator: 010139
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40431.d
 Lab Smp Id: H1660
 Inj Date : 14-JUL-2000 18:39
 Operator : 010139
 Smp Info : H1660,4140.b
 Misc Info : 190-83-9
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Calibration Sample, Level: 5
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO		
**	*****	*****	*****	*****	*****	*****	*****		
20 Aroclor-1016					CAS #: 12674-11-2				
2.255	2.256	-0.001	22217105	2.00000	1.7646	0.00-	0.00	0.00	
2.677	2.679	-0.002	40539478	2.00000	1.7779	80.00-	120.00	0.00	
3.089	3.094	-0.005	69346081	2.00000	1.8516	416.04-	456.04	0.00	
3.296	3.297	-0.001	30042823	2.00000	1.7965	203.51-	243.51	0.00	
3.467	3.469	-0.002	41166079	2.00000	1.7878	297.56-	337.56	0.00	
Average of Peak Amounts =					1.7957				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.731	1.732	-0.001	73713641	0.10000	0.094224	0.00-	0.00	0.00	

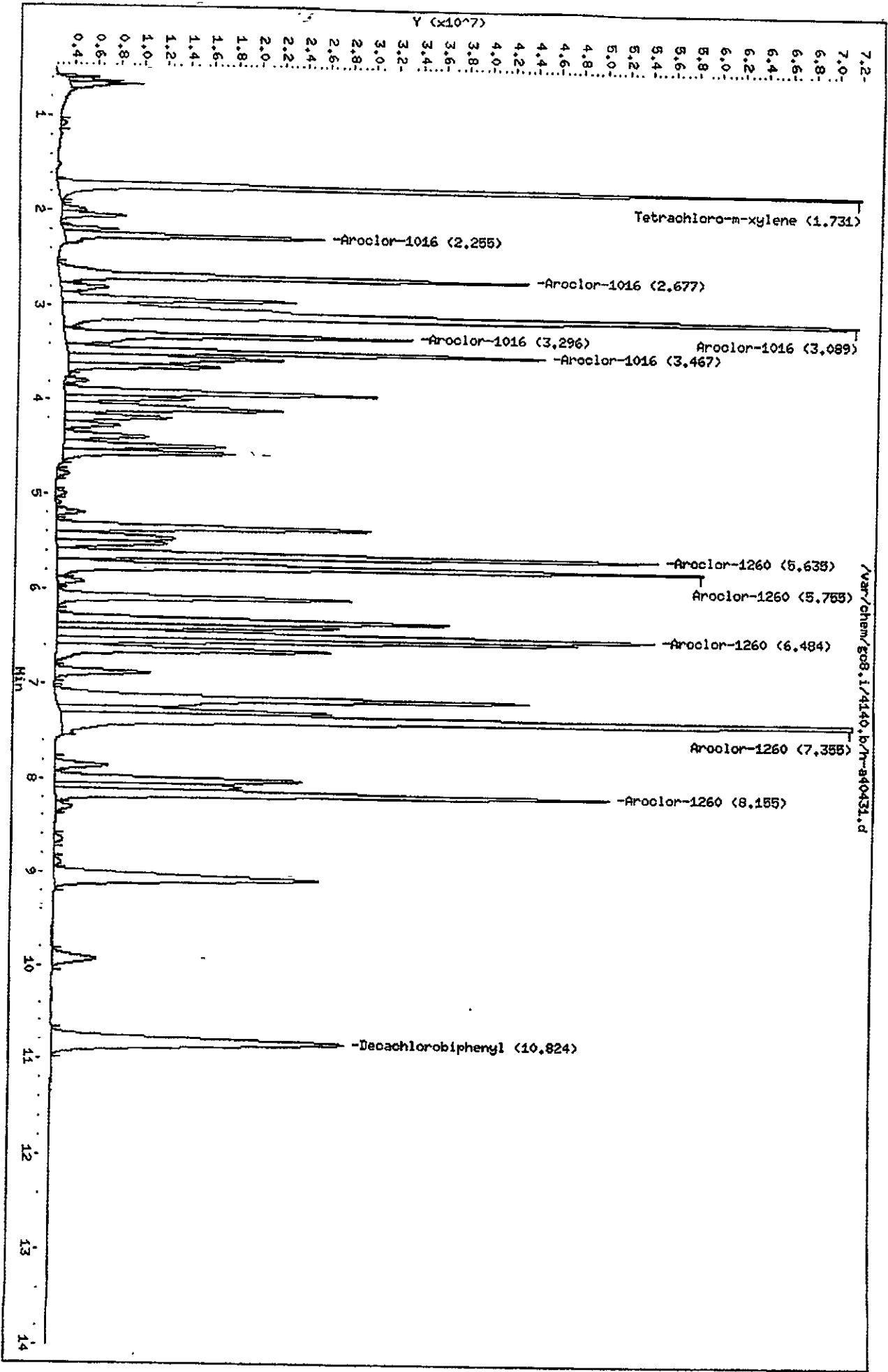
\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10.824	10.820	0.004	25146572	0.10000	0.092998	0.00-	0.00	0.00	

36 Aroclor-1260					CAS #: 11096-82-5				
5.635	5.637	-0.002	52058293	2.00000	1.8394	0.00-	0.00	0.00	
5.755	5.756	-0.001	55908937	2.00000	1.8584	95.86-	135.86	0.00	
6.484	6.480	0.004	51613314	2.00000	1.8973	116.91-	156.91	0.00	
7.355	7.356	-0.001	103354155	2.00000	1.9525	120.00-	160.00	0.00	
8.155	8.156	-0.001	47848228	2.00000	1.9063	108.33-	148.33	0.00	
Average of Peak Amounts =					1.8908				

Data File: /var/chem/g08.i/4140.b/h-a40431.d
Date: 14-JUL-2000 18:39
Client ID:
Sample Info: H660,4140.b

Column phaset DB608

Instrument: G08.i
Operator: 010139
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40432.d
 Lab Smp Id: 2ND2154
 Inj Date : 14-JUL-2000 18:58
 Operator : 010139
 Smp Info : 2ND2154,4140.b
 Misc Info : 190-92-1
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 2154.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	TARGET RANGE		RATIO	
*****	*****	*****	RESPONSE (	ng)	(	ng)	*****	*****	*****
8 Aroclor-1221					CAS #: 11104-28-2				
2.051	2.047	0.004	3656415	0.50000	0.47451	0.00-	0.00	0.00	
2.189	2.187	0.002	2376146	0.50000	0.49392	116.57-	156.57	0.00	
2.255	2.252	0.003	7279423	0.50000	0.48396	66.04-	106.04	0.00	
Average of Peak Amounts =					0.48413				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.729	1.732	-0.003	868575	0.02500	0.0011102	0.00-	0.00	0.00	

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
Compound Not Detected									

33 Aroclor-1254					CAS #: 11097-69-1				
4.481	4.479	0.002	9003021	0.50000	0.48528	0.00-	0.00	0.00	
4.554	4.550	0.004	10978647	0.50000	0.49278	92.23-	132.23	0.00	
5.193	5.189	0.004	8283492	0.50000	0.50820	77.40-	117.40	0.00	
5.362	5.360	0.002	16346283	0.50000	0.49339	51.09-	91.09	0.00	
5.532	5.530	0.002	11375777	0.50000	0.51012	65.01-	105.01	0.00	
Average of Peak Amounts =					0.49796				

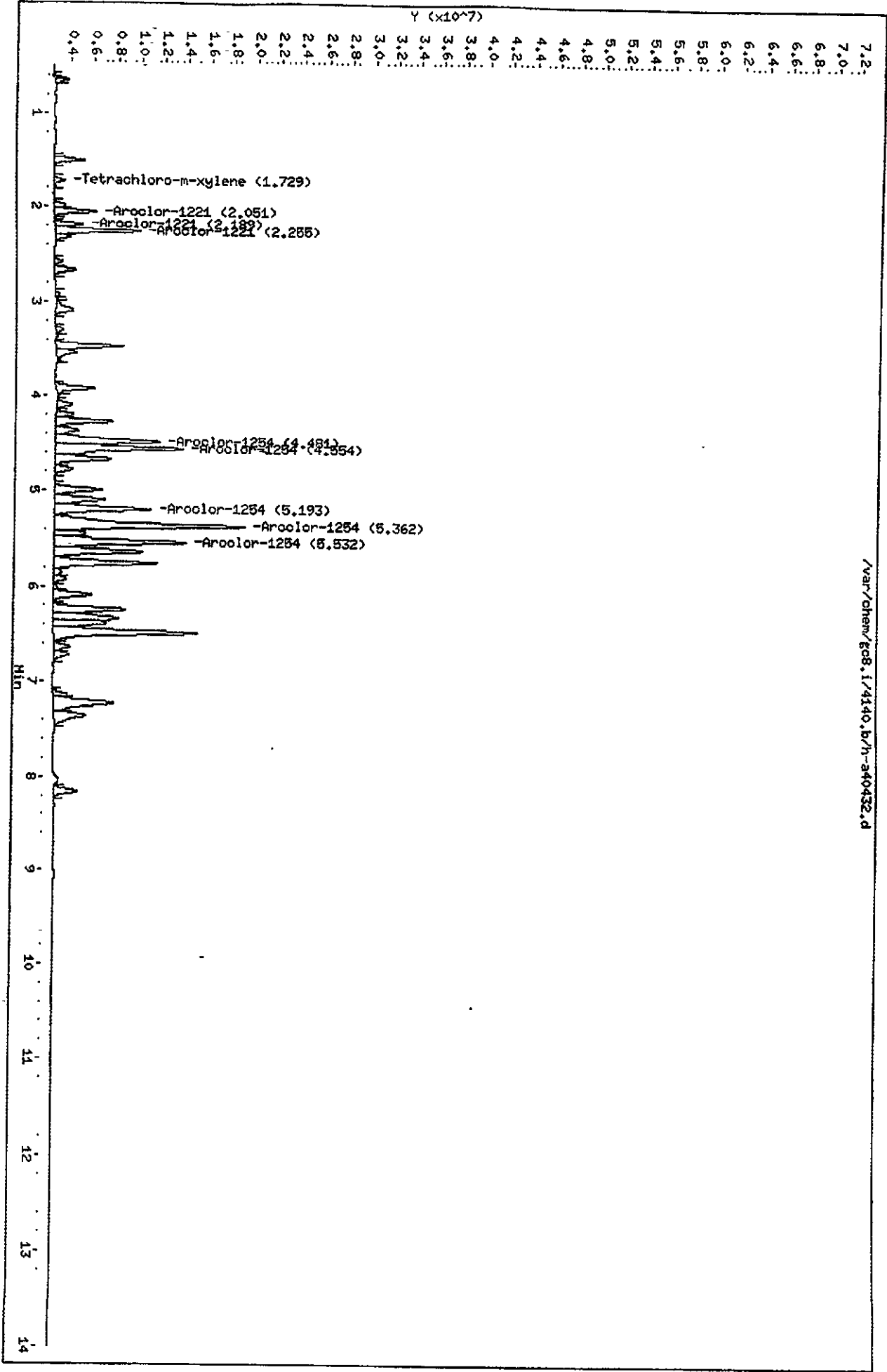
2nd SOURCE

Date File: /var/chem/gc8.i/4140.b/h-a40432.d
Date : 14-JUL-2000 19:58
Client ID:
Sample Info: 2ND2154,4140.b

Column phase: DB608

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

/var/chem/gc8.i/4140.b/h-a40432.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40433.d
Lab Smp Id: 2ND1232
Inj Date : 14-JUL-2000 19:18
Operator : 010139
Smp Info : 2ND1232,4140.b
Misc Info : 190-92-2
Comment :
Method : /var/chem/gc8.i/4140.b/PCBA.m
Meth Date : 15-Jul-2000 12:45 eppinged
Cal Date : 14-JUL-2000 18:39
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40431.d
Continuing Calibration Sample
Compound Sublist: 1232.sub
Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (ng)	CAL-AMT	ON-COL (ng)	TARGET RANGE	RATIO
14	Aroclor-1232					CAS #: 11141-16-5	
2.675	2.674	0.001	5006589	0	50000	0.49331 0.00- 0.00	0.00
3.090	3.089	0.001	7230203	0	50000	0.47434 146.26- 186.26	0.00
3.468	3.466	0.002	4444661	0	50000	0.44884 65.99- 105.99	0.00
3.913	3.914	-0.001	3150309	0	50000	0.43608 74.18- 114.18	0.00
Average of Peak Amounts =					0	46315	

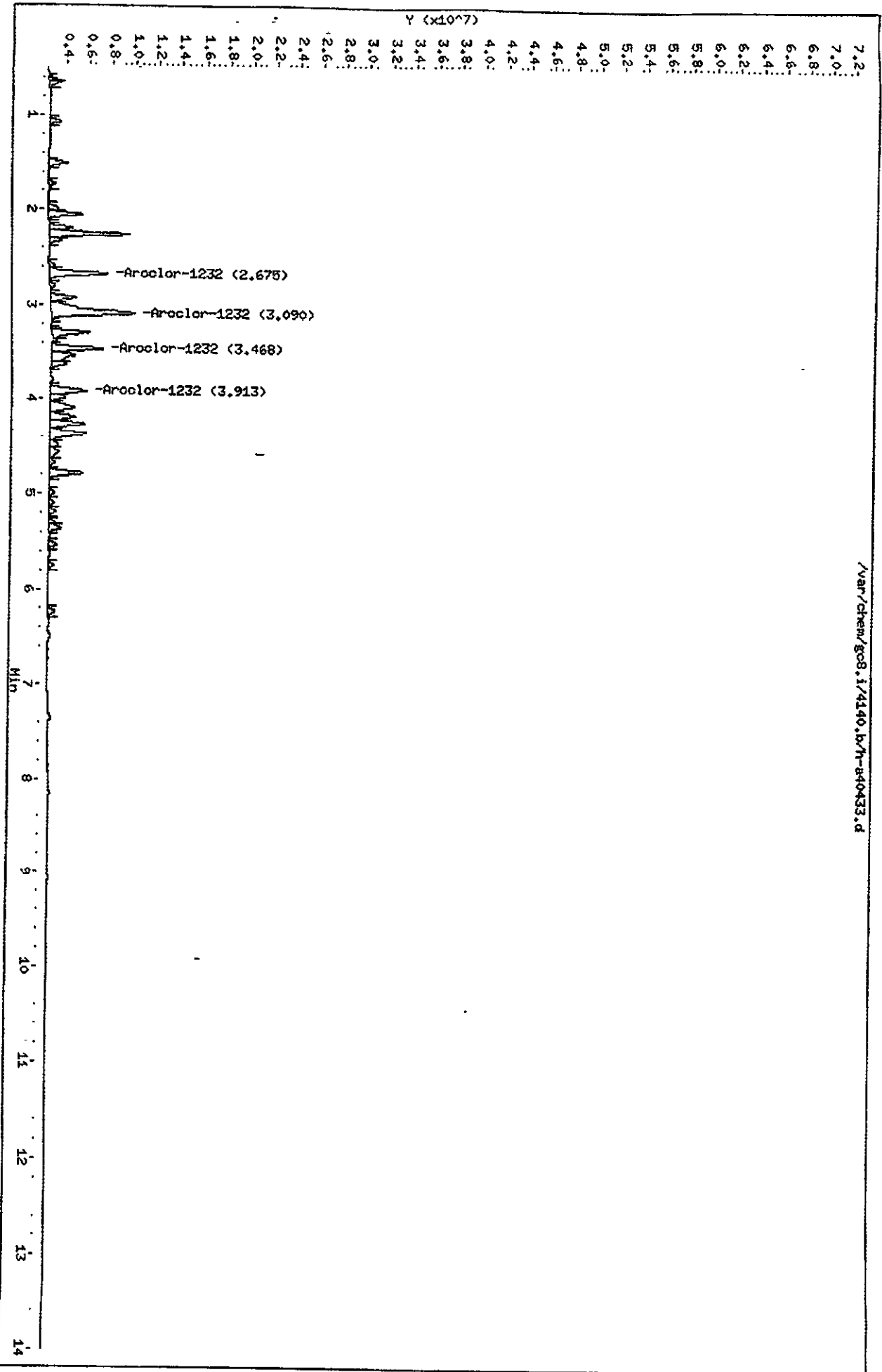
2nd source

Data File: /var/chem/gc8.i/4140.b/h-s40433.d
Date: 14-JUL-2000 19:18
Client ID:
Sample Info: 2ND1232,4140.b

Column phase: DB508

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

/var/chem/gc8.i/4140.b/h-s40433.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40434.d
 Lab Smp Id: 2ND1242
 Inj Date : 14-JUL-2000 19:37
 Operator : 010139
 Smp Info : 2ND1242,4140.b
 Misc Info : 190-92-3
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1242.sub
 Sample Matrix: None

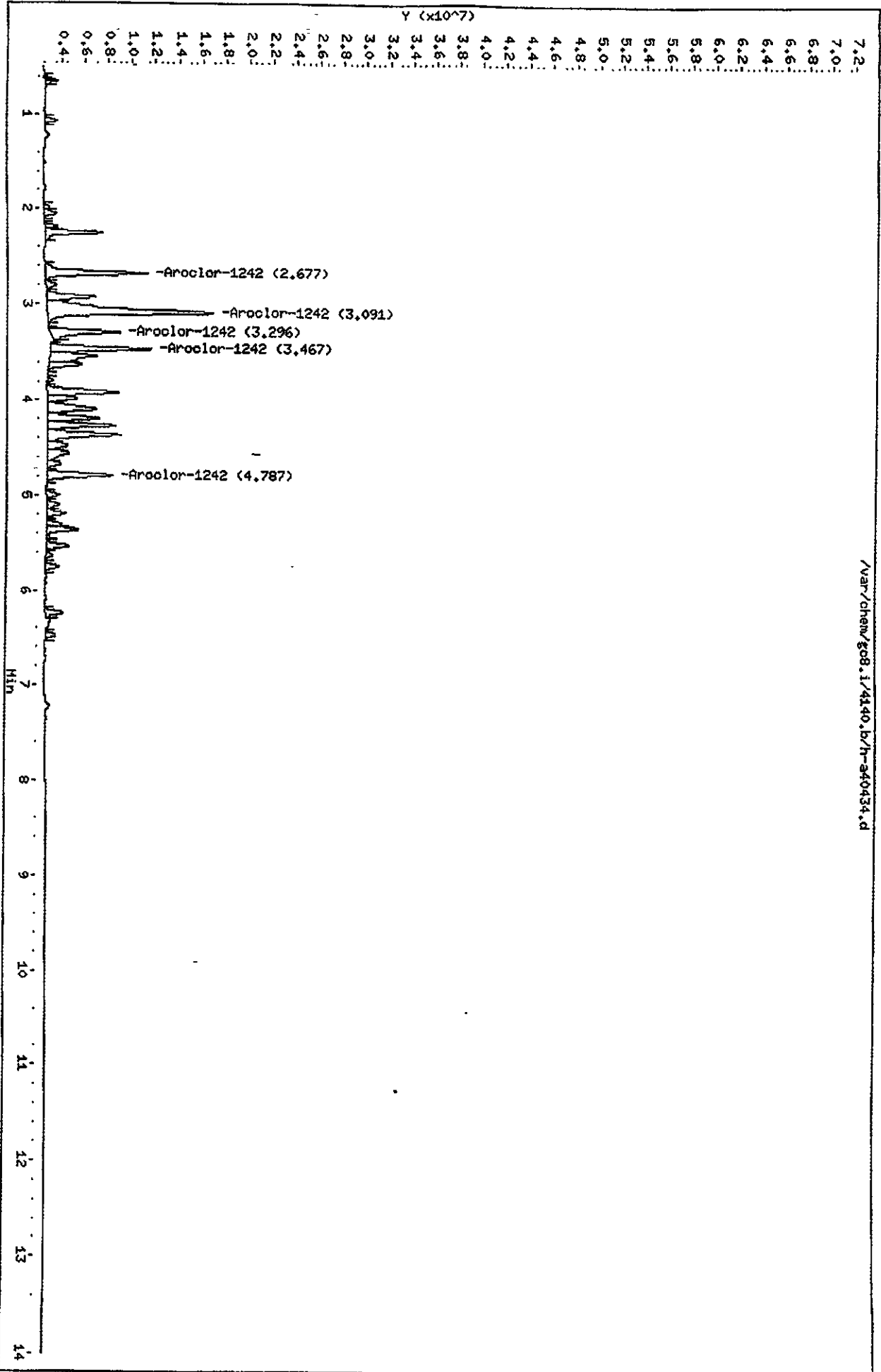
		AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (ng)	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO		
***	*****	*****	*****	*****	*****	*****	*****		
15 Aroclor-1242			CAS #: 53469-21-9						
2.677	2.676	0.001	8784427	0.50000	0.50047	0.00-	0.00	0.00	
3.091	3.091	0.000	14119398	0.50000	0.49516	310.13-	350.13	0.00	
3.296	3.295	0.001	6023658	0.50000	0.47636	749.70-	789.70	0.00	
3.467	3.467	0.000	8667047	0.50000	0.49506	512.48-	552.48	0.00	
4.787	4.786	0.001	5634520	0.50000	0.46006	314.30-	354.30	0.00	
Average of Peak Amounts =				0.48542					

*Znd
SOURCE*

Date File: /var/chem/gc08.i/4140.b/h-240434.d
Date: 14-JUL-2000 19:37
Client ID:
Sample Info: 2ND1242,4140.b
Column phase: DB608

Instrument: gc08.i
Operator: 010139
Column diameter: 0.53

/var/chem/gc08.i/4140.b/h-240434.d



STL-PITTSBURGH

```

Data file : /var/chem/gc8.i/4140.b/h-a40435.d
Lab Smp Id: 2ND1248
Inj Date  : 14-JUL-2000 19:56
Operator   : 010139
Smp Info  : 2ND1248,4140.b
Misc Info : 190-92-4
Comment   :
Method    : /var/chem/gc8.i/4140.b/PCBA.m
Meth Date : 15-Jul-2000 12:45 eppinged
Cal Date  : 14-JUL-2000 18:39
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

                               Inst ID: gc8.i
                               Quant Type: ESTD
                               Cal File: h-a40431.d
                               Continuing Calibration Sample
                               Compound Sublist: 1248.sub
                               Sample Matrix: None
  
```

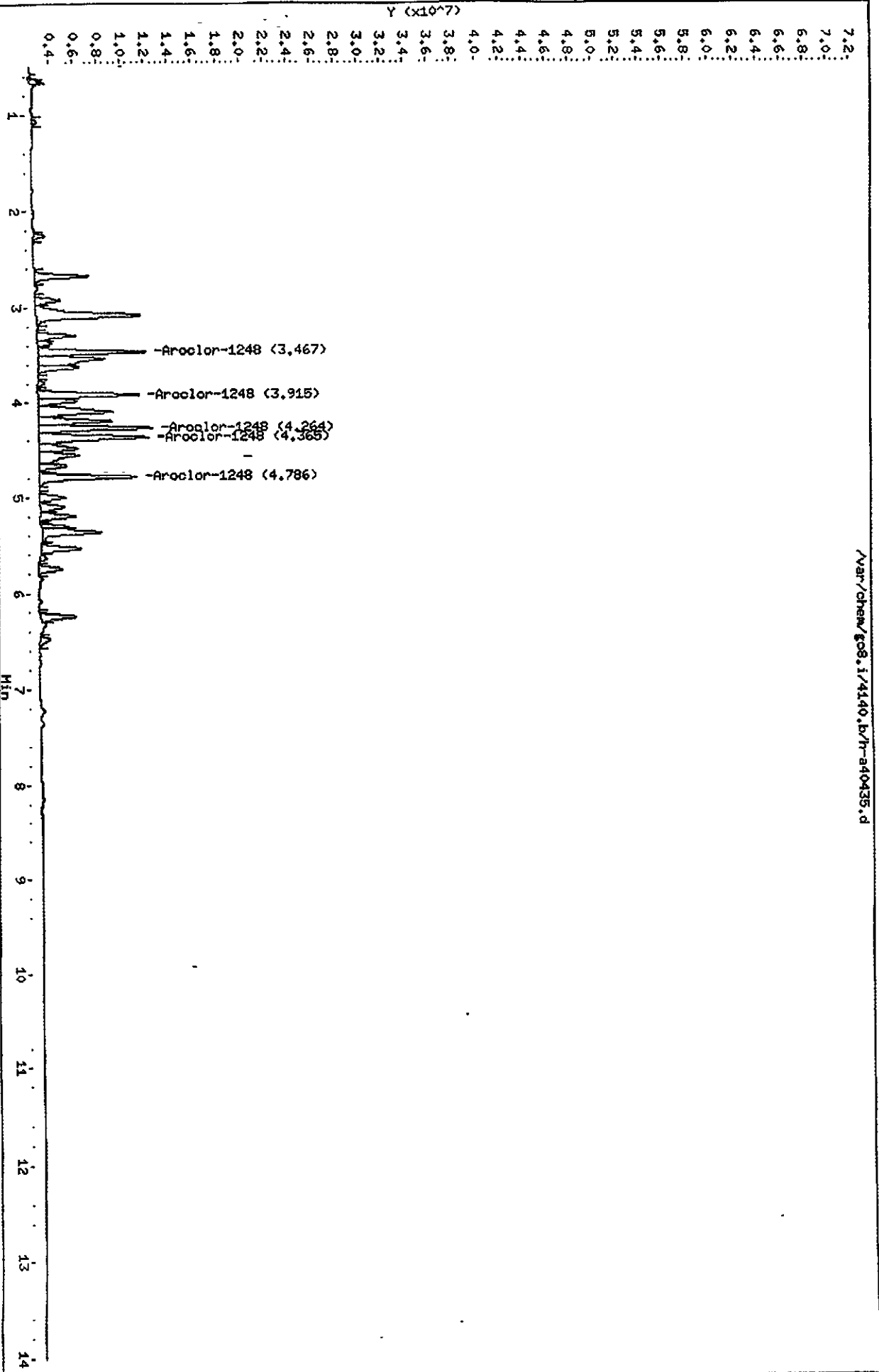
AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
..	.....	.....	ng)	(	ng)	.....	.....
21 Aroclor-1248					CAS #: 12672-29-6				
3.467	3.469	-0.002	9137120	0.50000	0.49101	0.00-	0.00	0.00	
3.915	3.917	-0.002	8579695	0.50000	0.49353	114.57-	154.57	0.00	
4.264	4.266	-0.002	9693648	0.50000	0.45486	63.67-	103.67	0.00	
4.365	4.364	0.001	9310909	0.50000	0.42418	43.86-	83.86	0.00	
4.786	4.786	0.000	8328783	0.50000	0.39257	128.08-	168.08	0.00	
Average of Peak Amounts =					0.45123				

*2nd
SWEEP*

Data File: /var/chem/gc8.i/4140.b/h-240435.d
 Date: 14-JUL-2000 19:56
 Client ID:
 Sample Info: 2ND1248,4140.b
 Column phase: DB608

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

/var/chem/gc8.i/4140.b/h-240435.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40436.d
 Lab Smp Id: 2ND1660
 Inj Date : 14-JUL-2000 20:16
 Operator : 010139
 Smp Info : 2ND1660,4140.b
 Misc Info : 190-92-5
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 15-Jul-2000 12:45 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	CAL-AMT		ON-COL		TARGET RANGE	RATIO	
---	-----	-----	RESPONSE (	ng)	(	ng)	-----	-----	-----
20 Aroclor-1016									
CAS #: 12674-11-2									
2.255	2.256	-0.001	5786139	0.50000	0.45958	0.00-	0.00	0.00	
2.676	2.679	-0.003	10280149	0.50000	0.45084	80.00-	120.00	0.00	
3.089	3.094	-0.005	16890963	0.50000	0.45101	416.04-	456.04	0.00	
3.295	3.297	-0.002	7289325	0.50000	0.43588	203.51-	243.51	0.00	
3.465	3.469	-0.004	9940337	0.50000	0.43171	297.56-	337.56	0.00	
Average of Peak Amounts =					0.44581				

\$ 1 Tetrachloro-m-xylene									
CAS #: 877-09-8									
Compound Not Detected									

\$ 34 Decachlorobiphenyl									
CAS #: 2051-24-3									
Compound Not Detected									

36 Aroclor-1260									
CAS #: 11096-82-5									
5.634	5.637	-0.003	13267240	0.50000	0.46879	0.00-	0.00	0.00(M)	
5.755	5.756	-0.001	13683761	0.50000	0.45484	95.86-	135.86	0.00	
6.480	6.480	0.000	12912939	0.50000	0.47468	116.91-	156.91	0.00	
7.355	7.356	-0.001	24385151	0.50000	0.46067	120.00-	160.00	0.00	
8.153	8.156	-0.003	11596073	0.50000	0.46199	108.33-	148.33	0.00	
Average of Peak Amounts =					0.46419				

2nd SOURCE

Data File: /var/chem/gc8.i/4140.b/h-a40436.d
Report Date: 15-Jul-2000 12:47

Page 2

664 1385

QC Flag Legend

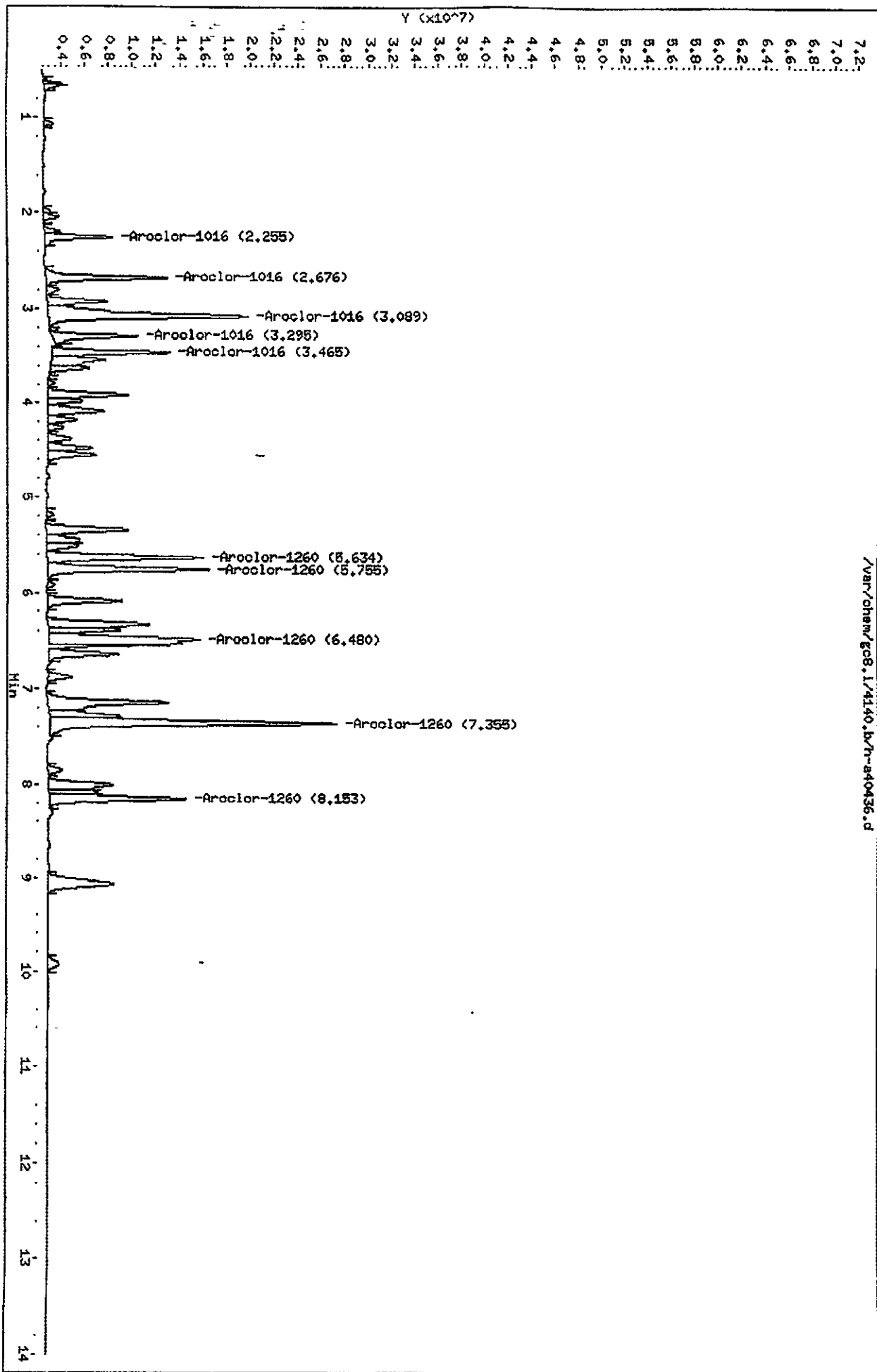
M - Compound response manually integrated.

Data File: /var/chem/gc8.1/4140.b/h-s40436.d
Date: 44-JUL-2000 20:16
Client ID:
Sample Info: 2NDM660,4140.b

Column phases: DB608

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

/var/chem/gc8.1/4140.b/h-s40436.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40801.d
 Lab Smp Id: M2154
 Inj Date : 24-JUL-2000 09:13
 Operator : 010139
 Smp Info : M2154,4140.b
 Misc Info : 190-83-1
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 24-Jul-2000 11:20 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 2154.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	CAL-AMT		ON-COL		TARGET RANGE	RATIO	
			RESPONSE (	ng)	(	ng)			
---	-----	-----	-----	-----	-----	-----	-----	-----	-----
8 Aroclor-1221					CAS #: 11104-28-2				
2.044	2.047	-0.003	3388685	0.50000	0.43977	0.00-	0.00	0.00	(M)
2.183	2.187	-0.004	2165368	0.50000	0.45011	116.57-	156.57	0.00	
2.247	2.252	-0.005	6452271	0.50000	0.42896	66.04-	106.04	0.00	
Average of Peak Amounts =					0.43961				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.725	1.732	-0.007	14966189	0.02500	0.019130	0.00-	0.00	0.00	(M)

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10.800	10.820	-0.020	5627333	0.02500	0.020811	0.00-	0.00	0.00	

33 Aroclor-1254					CAS #: 11097-69-1				
4.470	4.479	-0.009	8312874	0.50000	0.44808	0.00-	0.00	0.00	(M)
4.544	4.550	-0.006	9940687	0.50000	0.44619	92.23-	132.23	0.00	
5.183	5.189	-0.006	7417669	0.50000	0.45508	77.40-	117.40	0.00	
5.351	5.360	-0.009	15038706	0.50000	0.45392	51.09-	91.09	0.00	
5.524	5.530	-0.006	10072717	0.50000	0.45169	65.01-	105.01	0.00	
Average of Peak Amounts =					0.45099				

12.17.D

9.87.D

QC Flag Legend

M - Compound response manually integrated.

CCAL

Data File: /var/chem/g08.i/4140.b/h-a40801.d

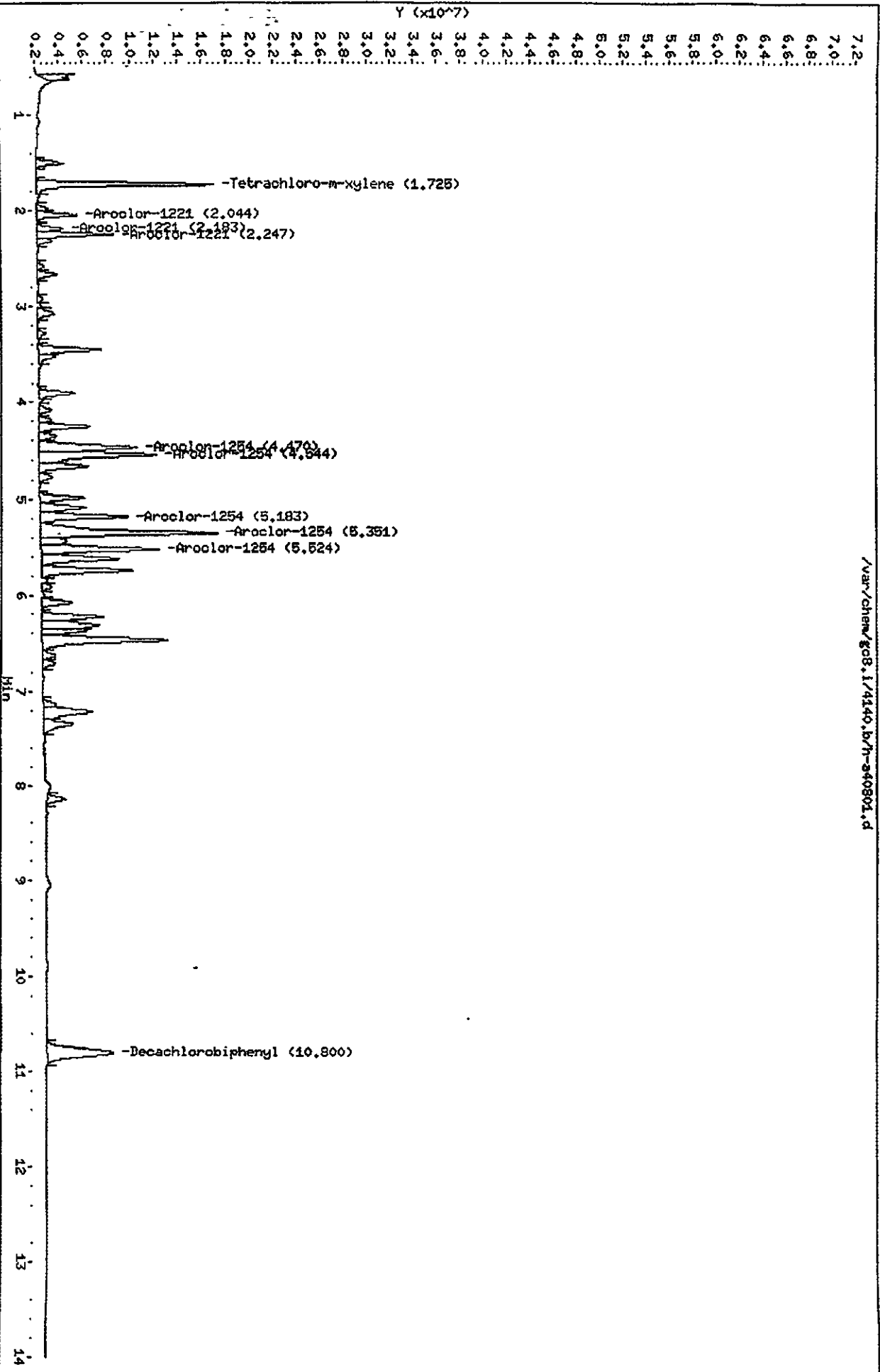
Date: 24-JUL-2000 09:13

Client ID:

Sample Info: H2154,4140.b

Instrument: g08.i
Operator: 021039
Column diameter: 0.53

Column phase: DB608



Data File: /var/chem/gc8.i/4140.b/h-a40802.d
 Report Date: 24-Jul-2000 11:21

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40802.d
 Lab Smp Id: M1232
 Inj Date : 24-JUL-2000 09:33
 Operator : 010139
 Smp Info : M1232,4140.b
 Misc Info : 190-83-2
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 24-Jul-2000 11:20 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1232.sub
 Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	CAL-AMT		ON-COL		TARGET RANGE	RATIO
			RESPONSE (ng)	(ng)	(ng)	(ng)		
14 Aroclor-1232			CAS #: 11141-16-5					
2.668	2.674	-0.006	4523781	0.50000	0.44574	0.00-	0.00	0.00
3.077	3.089	-0.012	6825373	0.50000	0.44778	146.26-	186.26	0.00
3.457	3.466	-0.009	4375133	0.50000	0.44182	65.99-	105.99	0.00
3.905	3.914	-0.009	3305848	0.50000	0.45761	74.18-	114.18	0.00
Average of Peak Amounts =					0.44824			

10.44-D

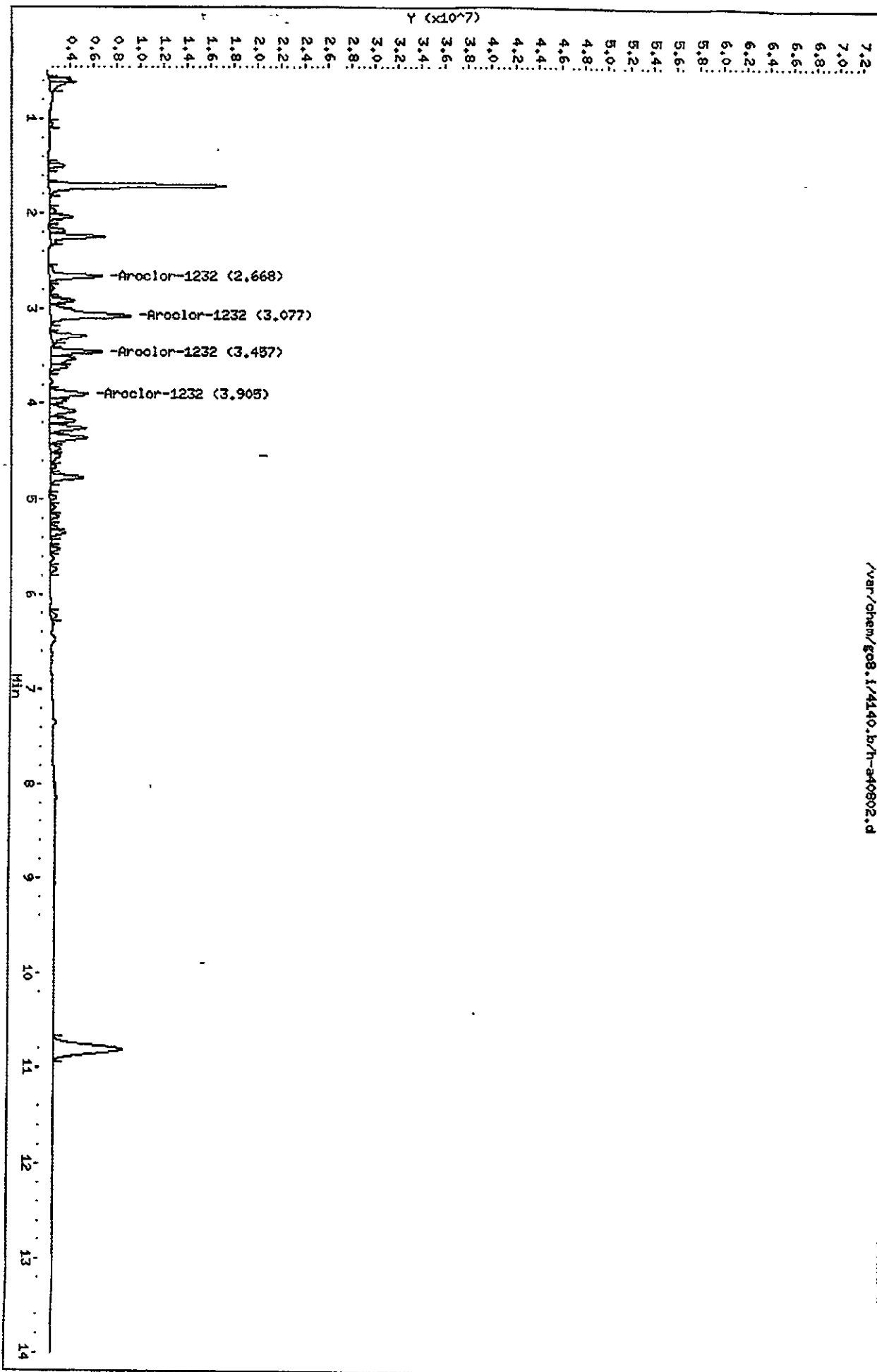
CCAL

Data File: /var/chem/gc8.1/4140.b/r-a40802.d
Date: 24-JUL-2000 09:33
Client ID:
Sample Info: H1232,4140.b

Column phase: DB608

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

/var/chem/gc8.1/4140.b/r-a40802.d



Data File: /var/chem/gc8.i/4140.b/h-a40803.d
 Report Date: 24-Jul-2000 11:21

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40803.d
 Lab Smp Id: M1242
 Inj Date : 24-JUL-2000 09:52
 Operator : 010139
 Smp Info : M1242,4140.b
 Misc Info : 190-83-3
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 24-Jul-2000 11:20 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1242.sub
 Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	TARGET RANGE		RATIO
			RESPONSE (ng)	(ng)	-----	
15					CAS #: 53469-21-9			
2.671	2.676	-0.005	7724914	0.50000	0.44011	0.00-	0.00	0.00
3.082	3.091	-0.009	12717554	0.50000	0.44599	310.13-	350.13	0.00
3.289	3.295	-0.006	5474792	0.50000	0.43295	749.70-	789.70	0.00
3.459	3.467	-0.008	7839383	0.50000	0.44778	512.48-	552.48	0.00
4.777	4.786	-0.009	5638573	0.50000	0.46039	314.30-	354.30	0.00
Average of Peak Amounts =					0.44544			

10.97.D

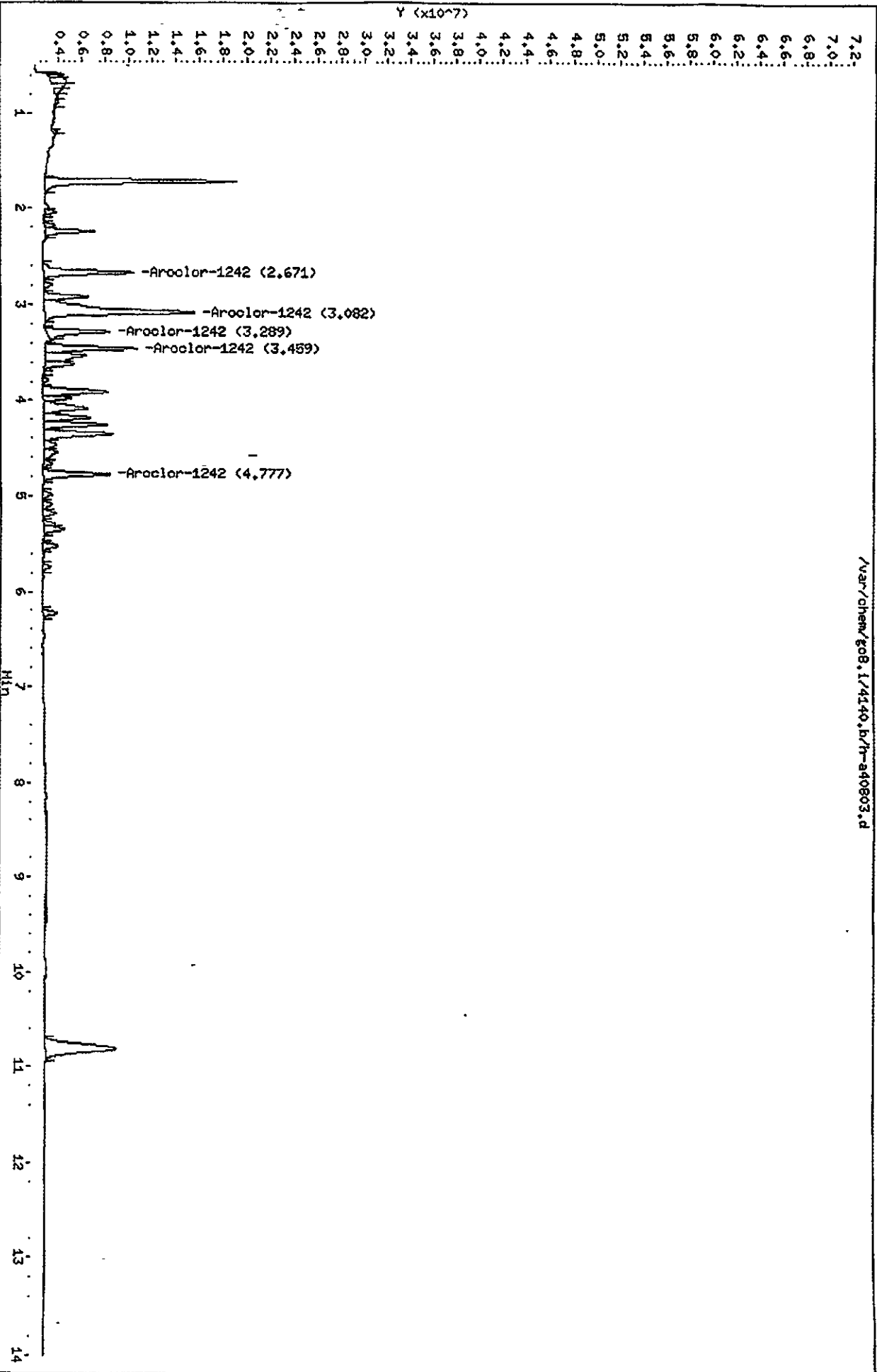
CCAL

Data File: /var/chem/g08.1/4140.b/r-a40803.d
Date: 24-JUL-2000 09:52
Client ID:
Sample Info: H1242.4140.b

Column phases: DB608

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

/var/chem/g08.1/4140.b/r-a40803.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40804.d
Lab Smp Id: M1248
Inj Date : 24-JUL-2000 10:12
Operator : 010139
Smp Info : M1248,4140.b
Misc Info : 190-83-4
Comment :
Method : /var/chem/gc8.i/4140.b/PCBA.m
Meth Date : 24-Jul-2000 11:20 eppinged
Cal Date : 14-JUL-2000 18:39
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40431.d
Continuing Calibration Sample
Compound Sublist: 1248.sub
Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET	RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	-----	-----	
21 Aroclor-1248					CAS #: 12672-29-6				
3.461	3.469	-0.008	8730672	0.50000	0.46917	0.00-	0.00	0.00	
3.909	3.917	-0.008	8275386	0.50000	0.47603	114.57-	154.57	0.00	
4.258	4.266	-0.008	9874613	0.50000	0.46335	63.67-	103.67	0.00	
4.356	4.364	-0.008	10556201	0.50000	0.48092	43.86-	83.86	0.00	
4.779	4.786	-0.007	9941542	0.50000	0.46859	128.08-	168.08	0.00	
Average of Peak Amounts =					0.47161				

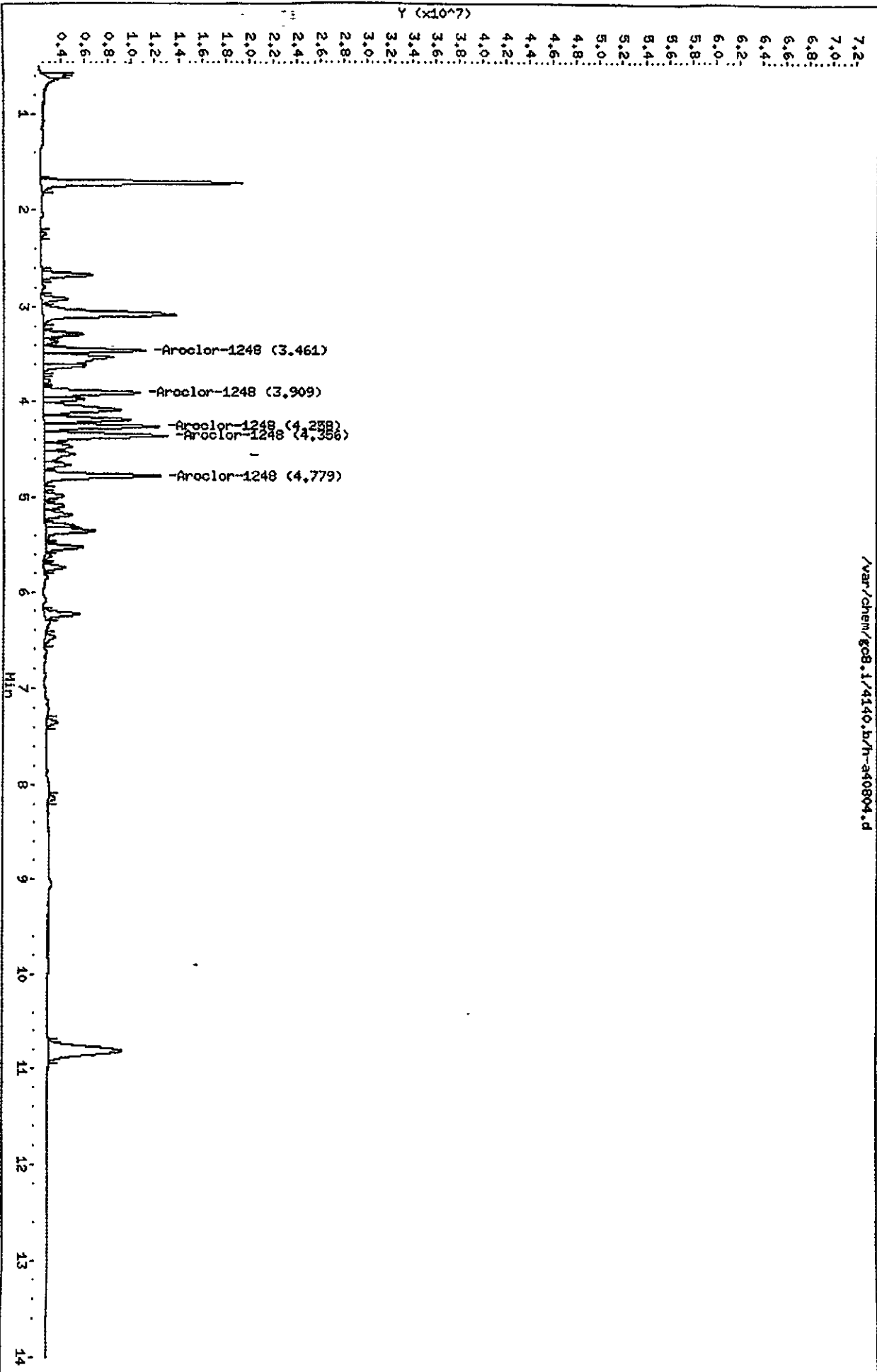
5.79.D

CCAL

Data File: /var/chem/gc8.1/4140.b/h-a40804.d
Date: 24-JUL-2000 10:12
Client ID:
Sample Info: M1248.4140.b
Column phase: DB608

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

/var/chem/gc8.1/4140.b/h-a40804.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40805.d
 Lab Smp Id: M1660
 Inj Date : 24-JUL-2000 10:31
 Operator : 010139
 Smp Info : M1660,4140.b
 Misc Info : 190-83-7
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 24-Jul-2000 11:20 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016			CAS #: 12674-11-2					
2.250	2.256	-0.006	5789989	0.50000	0.45989	0.00- 0.00	0.00(M)	
2.671	2.679	-0.008	10401062	0.50000	0.45614	80.00- 120.00	0.00	
3.083	3.094	-0.011	17113385	0.50000	0.45695	416.04- 456.04	0.00	
3.290	3.297	-0.007	7663288	0.50000	0.45825	203.51- 243.51	0.00	
3.460	3.469	-0.009	10537188	0.50000	0.45763	297.56- 337.56	0.00	
Average of Peak Amounts =					0.45777			

\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8					
1.727	1.732	-0.005	17809408	0.02500	0.022765	0.00- 0.00	0.00	

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3					
10.809	10.820	-0.011	6286837	0.02500	0.023250	0.00- 0.00	0.00	

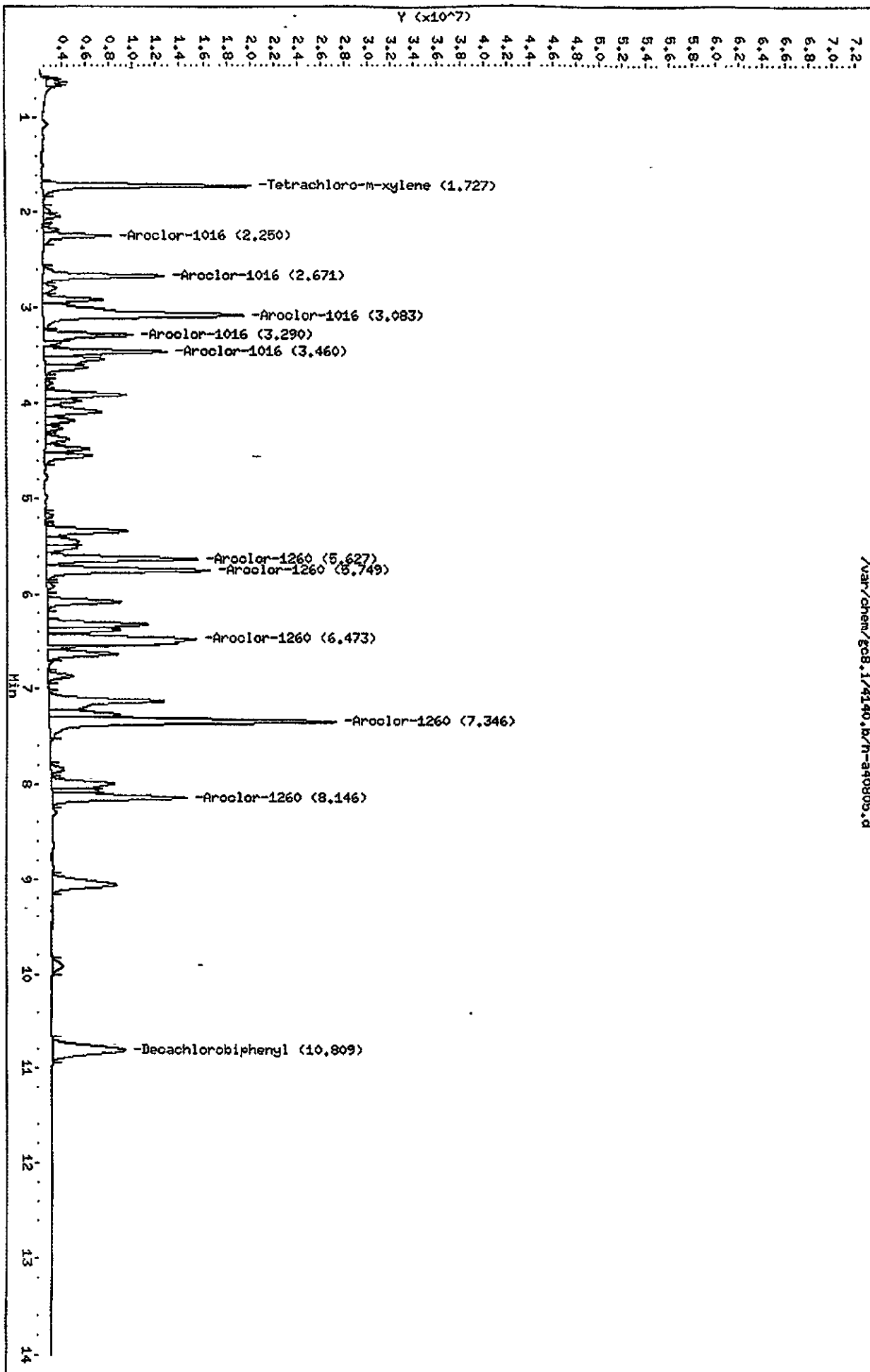
36 Aroclor-1260			CAS #: 11096-82-5					
5.627	5.637	-0.010	12952618	0.50000	0.45767	0.00- 0.00	0.00(M)	
5.749	5.756	-0.007	14082491	0.50000	0.46809	95.86- 135.86	0.00	
6.473	6.480	-0.007	12713476	0.50000	0.46734	116.91- 156.91	0.00	
7.346	7.356	-0.010	24566629	0.50000	0.46410	120.00- 160.00	0.00	
8.146	8.156	-0.010	11558615	0.50000	0.46050	108.33- 148.33	0.00	
Average of Peak Amounts =					0.46354			

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.i/4140.b/n-a40805.d
Date: 24-JUL-2000 10:31
Client ID:
Sample Info: H1660,4140.b
Column phase: DB608

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



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40842.d
 Lab Smp Id: M1660
 Inj Date : 25-JUL-2000 16:07
 Operator : 010139
 Smp Info : M1660,4140.b
 Misc Info : 190-83-7
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 25-Jul-2000 16:24 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
--	-----	-----	-----	-----	-----	-----	-----	-----	-----
20 Aroclor-1016									
CAS #: 12674-11-2									
2.248	2.256	-0.008		5608112	0.50000	0.44544	0.00-	0.00	0.00(M)
2.670	2.679	-0.009		10294783	0.50000	0.45148	80.00-	120.00	0.00
3.082	3.094	-0.012		16975731	0.50000	0.45328	416.04-	456.04	0.00
3.289	3.297	-0.008		7604818	0.50000	0.45475	203.51-	243.51	0.00
3.457	3.469	-0.012		10453718	0.50000	0.45400	297.56-	337.56	0.00
Average of Peak Amounts =						0.45179			

\$ 1 Tetrachloro-m-xylene									
CAS #: 877-09-8									
1.726	1.732	-0.006		17649238	0.02500	0.022560	0.00-	0.00	0.00

\$ 34 Decachlorobiphenyl									
CAS #: 2051-24-3									
10.804	10.820	-0.016		6433017	0.02500	0.023791	0.00-	0.00	0.00

36 Aroclor-1260									
CAS #: 11096-82-5									
5.627	5.637	-0.010		12971912	0.50000	0.45835	0.00-	0.00	0.00(M)
5.746	5.756	-0.010		13775360	0.50000	0.45788	95.86-	135.86	0.00
6.473	6.480	-0.007		12830333	0.50000	0.47164	116.91-	156.91	0.00
7.347	7.356	-0.009		24581113	0.50000	0.46438	120.00-	160.00	0.00
8.146	8.156	-0.010		11500194	0.50000	0.45817	108.33-	148.33	0.00
Average of Peak Amounts =						0.46209			

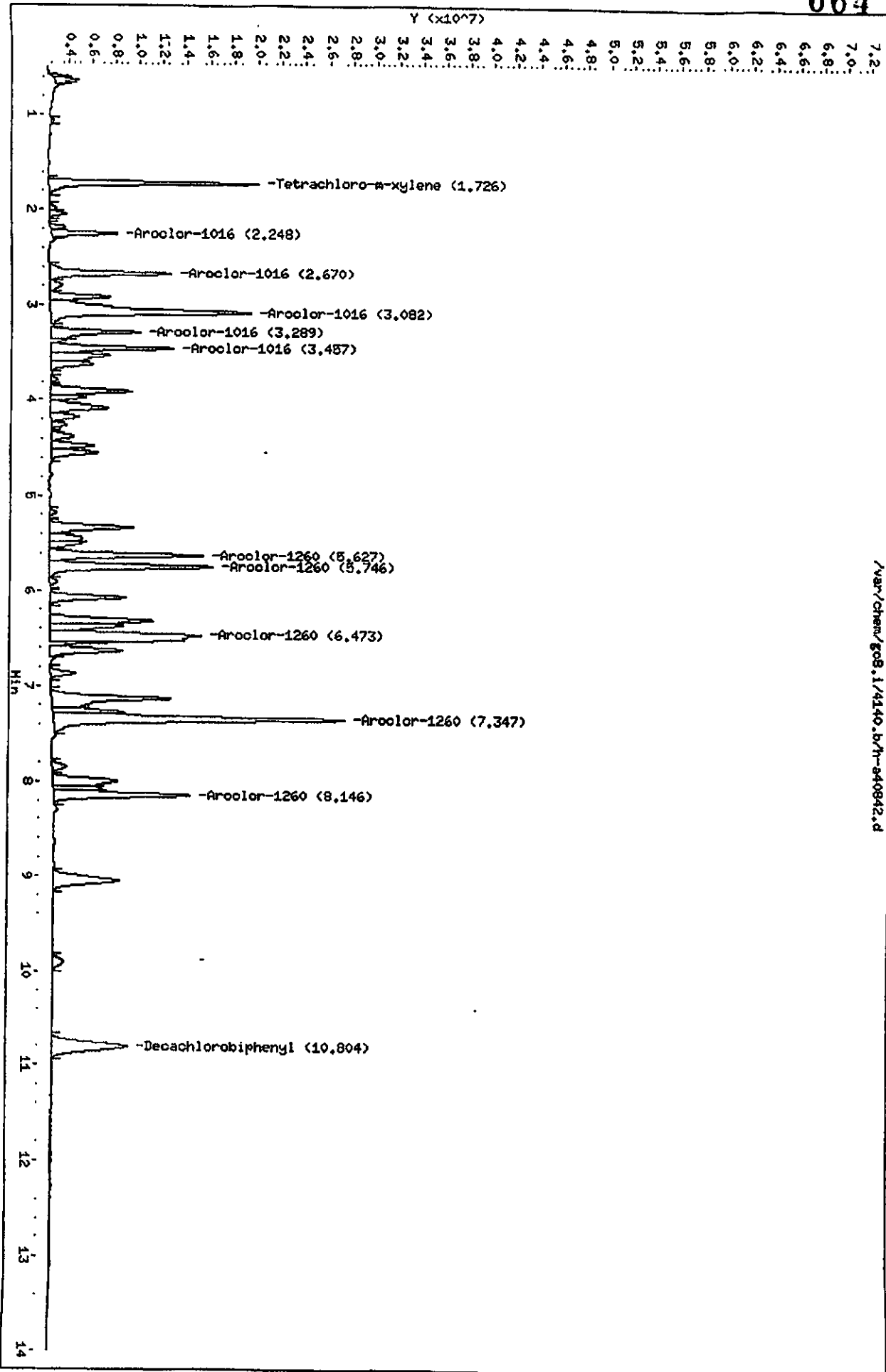
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/g08.1/4140.b/7-a40842.d
Date: 25-JUL-2000 16:07
Client ID:
Sample Info: HL660/4140.b
Column phase: DB608

Instrument: g08.i
Operator: 010139
Column diameter: 0.53

/var/chem/g08.1/4140.b/7-a40842.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40863.d
 Lab Smp Id: M1660
 Inj Date : 25-JUL-2000 22:56
 Operator : 010139
 Smp Info : M1660,4140.b
 Misc Info : 190-83-7
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 26-Jul-2000 09:37 eppinged
 Cal Date : 14-JUL-2000 18:39
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40431.d
 Continuing Calibration Sample
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	TARGET RANGE		RATIO	
			RESPONSE	(ng)	(ng)				

20 Aroclor-1016					CAS #: 12674-11-2				
2.251	2.256	-0.005	5923812	0.50000	0.47052	0.00-	0.00	0.00	
2.674	2.679	-0.005	10902408	0.50000	0.47813	80.00-	120.00	0.00	
3.085	3.094	-0.009	18007148	0.50000	0.48082	416.04-	456.04	0.00	
3.292	3.297	-0.005	7591915	0.50000	0.45398	203.51-	243.51	0.00	
3.462	3.469	-0.007	10666354	0.50000	0.46324	297.56-	337.56	0.00	
Average of Peak Amounts =					0.46934				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.728	1.732	-0.004	18213590	0.02500	0.023281	0.00-	0.00	0.00	

. \$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10.811	10.820	-0.009	6989710	0.02500	0.025850	0.00-	0.00	0.00	

36 Aroclor-1260					CAS #: 11096-82-5				
5.632	5.637	-0.005	13957851	0.50000	0.49319	0.00-	0.00	0.00	
5.752	5.756	-0.004	14838084	0.50000	0.49320	95.86-	135.86	0.00	
6.481	6.480	0.001	13496177	0.50000	0.49612	116.91-	156.91	0.00	
7.350	7.356	-0.006	26609137	0.50000	0.50269	120.00-	160.00	0.00	
8.149	8.156	-0.007	12523129	0.50000	0.49893	108.33-	148.33	0.00	
Average of Peak Amounts =					0.49683				

Data File: /var/chem/gc8.1/4140.b/r-440853.d
Date: 25-JUL-2000 22:56

Client ID:

Sample Info: H1660,4140.b

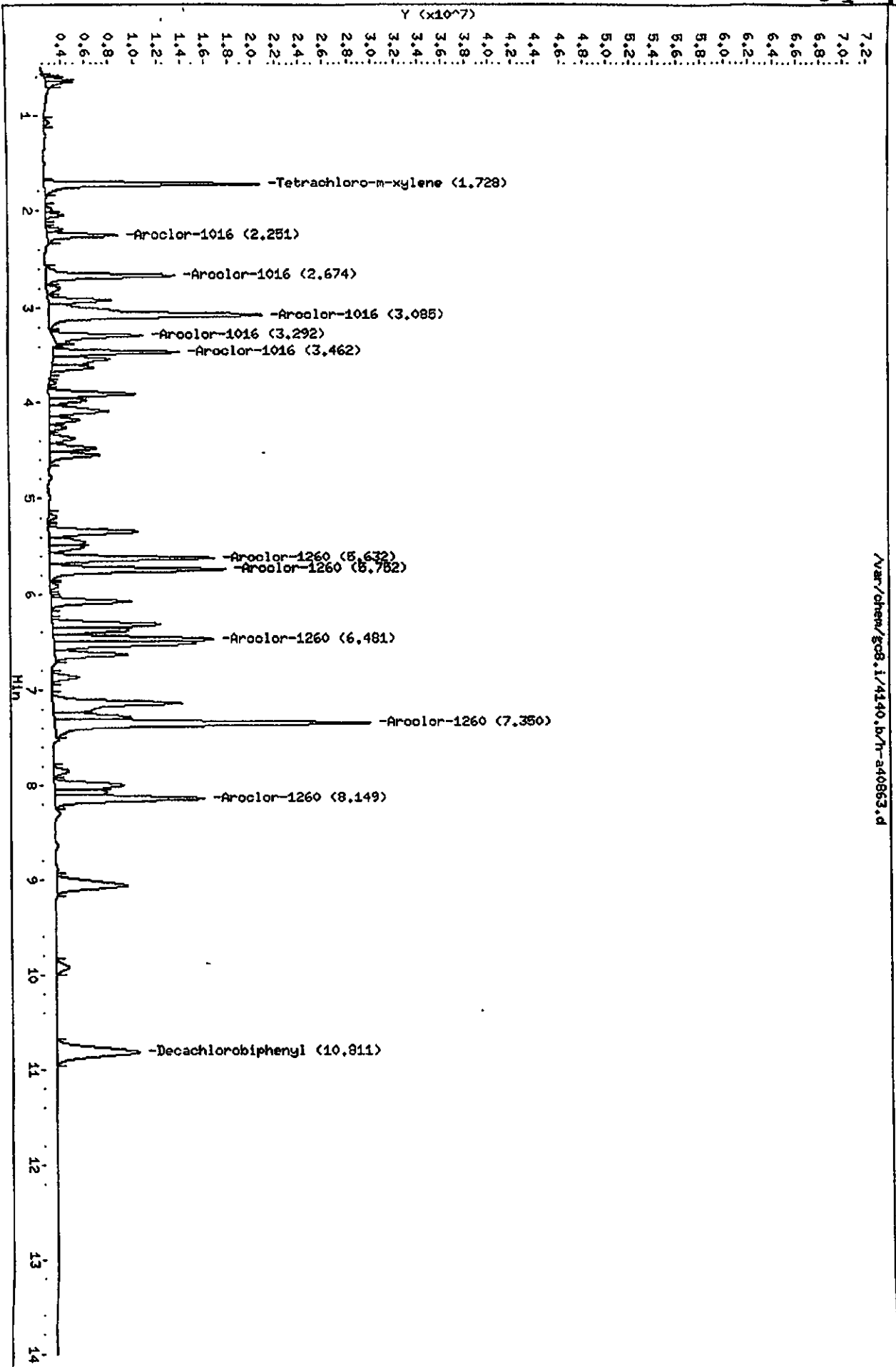
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

/var/chem/gc8.1/4140.b/r-440853.d



PCB
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

664 1404

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

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

Lab Sample ID: COG210000 473

Sample WT/Vol: 1000 / mL
Work Order: DGMAD101
Dilution factor: 1
Moisture %: NA

Date Received: 07/20/00
Date Extracted: 07/21/00
Date Analyzed: 07/25/00

QC Batch: 0203473

Client Sample Id: INTRA-LAB BLANK

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

FORM I

Data File: /var/chem/gc8.i/4140.b/h-a40851.d
 Report Date: 26-Jul-2000 10:32

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40851.d
 Lab Smp Id: DGMAD101 Client Smp ID: PBLK
 Inj Date : 25-JUL-2000 19:03
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DGMAD101,4140.b
 Misc Info : 200279BLK
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 26-Jul-2000 10:15 eppinged Quant Type: ESTD
 Cal Date : 14-JUL-2000 18:39 Cal File: h-a40431.d
 Als bottle: 11 QC Sample: METHOD BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 3.40 Sample Matrix: WATER

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

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL	FINAL		
==	=====	=====	RESPONSE (	ng)	(ug/L)	=====
\$ 1					CAS #: 877-09-8	
1.727	1.732	-0 005	12473413	0.01594	0.15944	0.00- 0.00 0.00

8 Aroclor-1221 CAS #: 11104-28-2

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

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

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

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
*****	*****	*****	RESPONSE (ng)	(ug/L)	*****	*****
15			Aroclor-1242		CAS # 53469-21-9	
Peaks not detected for Quant. or Qual. signal(s).						

20			Aroclor-1016		CAS #: 12674-11-2	
Peaks not detected for Quant. or Qual. signal(s)						

21			Aroclor-1248		CAS #: 12672-29-6	
Peaks not detected for Quant. or Qual. signal(s).						

33			Aroclor-1254		CAS #: 11097-69-1	
Peaks not detected for Quant. or Qual. signal(s).						

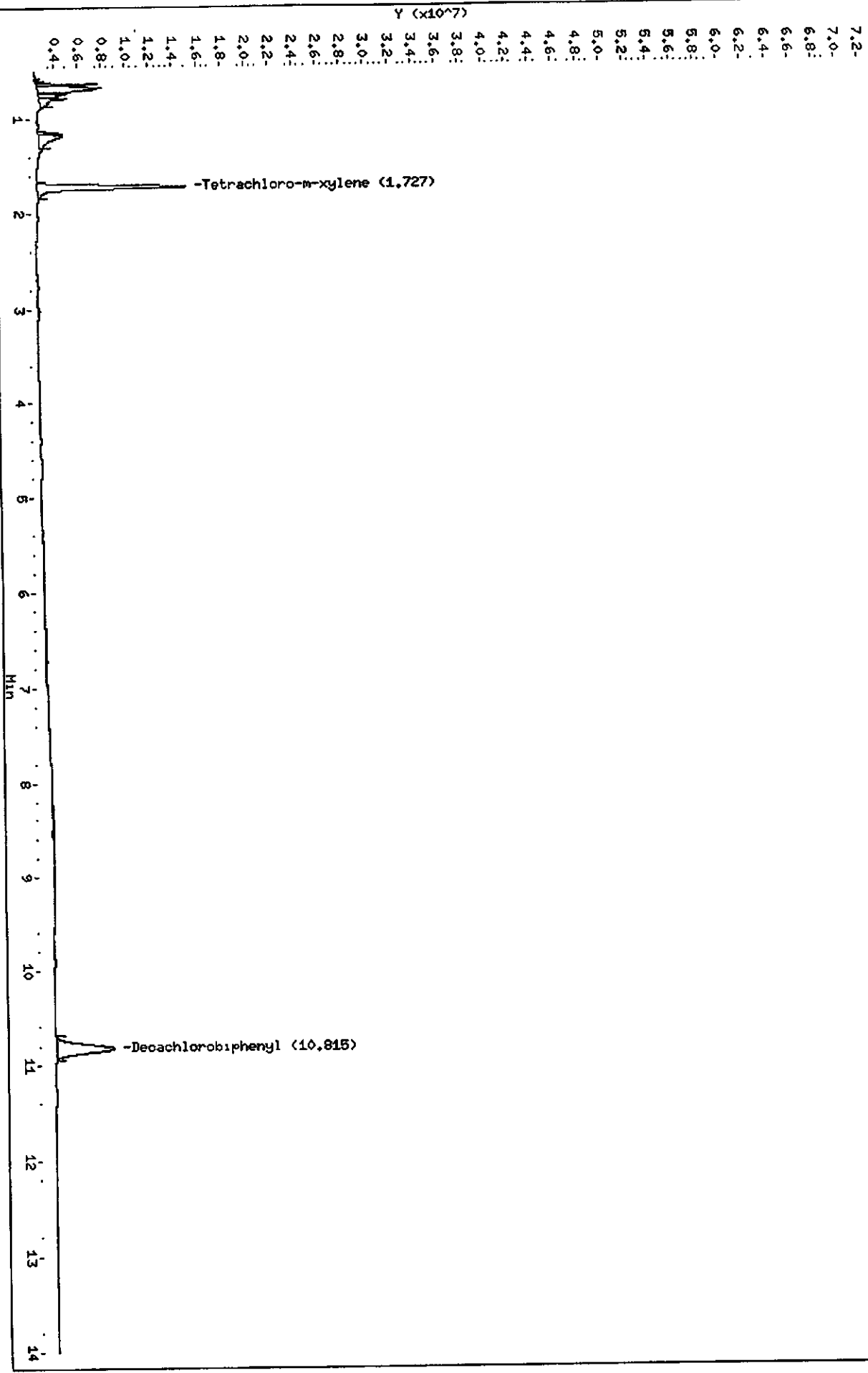
\$ 34			Decachlorobiphenyl		CAS #: 2051-24-3	
10.815	10.820	-0.005	4844812	0.01792	0.17917	0.00- 0.00 0.00

36			Aroclor-1260		CAS # 11096-82-5	
Peaks not detected for Quant. or Qual. signal(s).						

Data File: /var/chem/gc8.i/4140.b/r-340851.d
Date : 25-JUL-2000 19:03
Client ID: PRLK
Sample Info: DCHAD101,4140.b
Volume Injected (uL): 1.0
Column phase: DB608

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

/var/chem/gc8.i/4140.b/r-340851.d



664 1498

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG210000 473

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGMAD102

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: NA

QC Batch: 0203473

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	7.97	Q
11096-82-5	Aroclor 1260	8.04	

FORM I

Data File: /var/chem/gc8.i/4140.b/h-a40852.d
 Report Date: 26-Jul-2000 10:32

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4140.b/h-a40852.d
 Lab Smp Id: DGMAD102 Client Smp ID: LCS
 Inj Date : 25-JUL-2000 19:22
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DGMAD102,4140.b
 Misc Info : 200279LCS
 Comment :
 Method : /var/chem/gc8.i/4140.b/PCBA.m
 Meth Date : 26-Jul-2000 10:15 eppinged Quant Type: ESTD
 Cal Date : 14-JUL-2000 18:39 Cal File: h-a40431.d
 Als bottle: 12 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 3.40 Sample Matrix: WATER

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

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

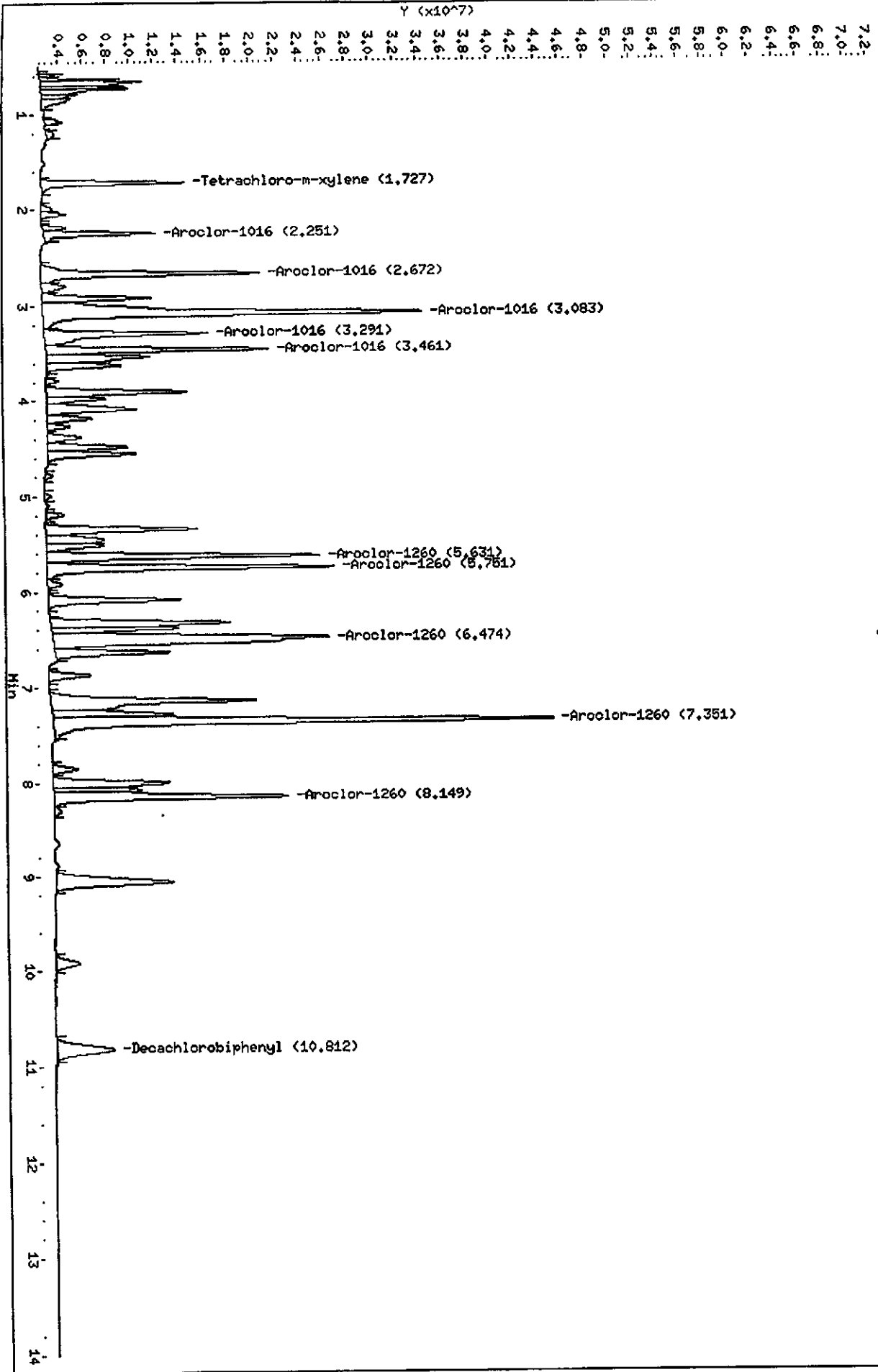
CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
==	=====	=====	RESPONSE (ng)	(ug/L)	=====	=====	
20 Aroclor-1016				CAS #: 12674-11-2			
2.251	2.256	-0.005	9227453 0.73292	7.3292	0.00- 0.00	0.00	
2.672	2.679	-0.007	18156070 0.79624	7.9624	80.00- 120.00	0.00	
3.083	3.094	-0.011	31553677 0.84253	8.4253	416.04- 456.04	0.00	
3.291	3.297	-0.006	13595955 0.81301	8.1301	203.51- 243.51	0.00	
3.461	3.469	-0.008	18479224 0.80255	8.0255	297.56- 337.56	0.00	
Average of Peak Concentrations =				7.9745			
-----				-----			
\$ 1 Tetrachloro-m-xylene				CAS #: 877-09-8			
1.727	1.732	-0.005	11965400 0.01529	0.15295	0.00- 0.00	0.00	
-----				-----			
\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3			
10.812	10.820	-0.008	4833965 0.01788	0.17877	0.00- 0.00	0.00	
-----				-----			
36 Aroclor-1260				CAS #: 11096-82-5			
5.631	5.637	-0.006	22772968 0.80466	8.0466	0.00- 0.00	0.00	

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
==	=====	=====	RESPONSE (	ng)	(ug/L)	=====	=====
36 Aroclor-1260 (continued)							
5.751	5.756	-0.005	23979248	0.79705	7.9705	95.86-135.86	0.00
6.474	6.480	-0.006	23006342	0.84571	8.4571	116.91-156.91	0.00
7.351	7.356	-0.005	41793152	0.78954	7.8954	120.00-160.00	0.00
8.149	8.156	-0.007	19595049	0.78068	7.8068	108.33-148.33	0.00
Average of Peak Concentrations *				8.0353			

Data File: /var/chem/gc8.1/4440.b/r-a40882.d
Date: 26-JUL-2000 19:22
Client ID: LCS
Sample Info: DCHAD102,4140.b
Volume Injected (uL): 1.0
Column phase: DB608

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

/var/chem/gc8.1/4440.b/r-a40882.d



PCB
MISCELLANEOUS

Separatory Funnel Extraction Worksheet

PRAT 0203469/0203471
PCB 0203473



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

8081A/8082

HEXAMIE

T03268

Date Extraction Began	Date Completed	Sample ID	Client ID	Method	pH	Sample Volume (mL)	Final Volume (mL)	Surrrogate Number	Surrrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Clean up Method	'Cleanup Date
7-21-00	7-24-00	1. 106200279	PCB/PCB	NA	5	1000	10.0	190-92-6	1.0	NA	NA	NA	NA
		2. L/S			5						0.5		
		3. 004 MS { PRAT											
		4. 004 MSDS											
		5. L/S									1.0		
		6. 004 MS { PCB											
		7. 004 MSDS											
		8. 001											
		9. 002											
		10. 003											
		11. 004											
		12. 005											
		13. 106200193											
		14. 106200193											
		15. 106200210											
		16.											
		17.											
		18.											
		19.											
		20.											
		21.											
		22.											
		23.											
		24.											
Analyst													
Extract(s)													
(Record line number from above)													
APL Above	7-21-00 17:45												
ALL Above	7-24-00 08:00												
ALL Above	7-25-00 10:30												
ALL Above													
Extract(s) Received													
Analyst													
Location													
Date													
Time													
Extract(s) Reinquished													
Analyst													
Location													
Date													
Time													
Reviewed By													
Lot Number													
Sodium Sulfate Mfg.													

P. Yushinsky
7-21-00

Jane Mulla

T23625

Baker

Created: DE 7-14-00

664 1414

M

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8082 ANALYSIS
2	2	190-83-1 423
3	3	190-83-2
4	4	190-83-3 425
5	5	190-83-4
6	6	190-83-5
7	7	190-83-6
8	8	190-83-7
9	9	190-83-8 430
10	10	190-83-9
11	11	190-92-1
12	12	190-92-2
13	13	190-92-3
14	14	190-92-4 435
15	15	190-92-5
16	16	100118001
17	17	100118001S
18	18	100118001D
19	19	100118002 440
20	20	100118007 52
21	21	100118008
22	22	100118009
23	23	100118010
24	24	100118011 445
25	25	100118012

V4D
lm 7/17/00

Line Vial Vial Information

Line	Vial	Vial Information
26	26	100118013
27	27	100118014
28	28	100118015
29	29	100118016 450
30	30	100118017
31	31	100118018
32	32	100118019
33	33	100118020
34	34	100118BLK1 455
35	35	100118LCS1
36	36	190-83-7
37	37	100118021
38	38	100118022
39	39	100118023 460
40	40	100118024
41	41	100118025
42	42	100118025S
43	43	100118025D
44	44	100118026 465
45	45	100118027
46	46	100118028
47	47	100118029
48	48	100118030
49	49	100118031 470
50	50	100118032
51	51	100118033 4x
52	52	100118034
53	53	100118035

Line	Vial	Vial Information	664 1416
54	54	100118036 <i>475</i>	
55	55	100118BLK2	
56	56	100118LCS2	
57	57	190-83-7	
58	58	100118037	
59	59	100118038 <i>450</i>	
60	60	100118039	
61	61	100118040	
62	62	5X100118049	
63	63	4X100118050	
64	64	50X060151001 <i>450</i>	
65	65	100127BLK	
66	66	100127LCS	
67	67	100127LCD	
68	68	100127012	
69	69	100127013 <i>450</i>	
70	70	190-83-7	

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M2154,4140.b	PCB	1	Sample		
3	3	M1232,4140.b	PCB	1	Sample		
4	4	M1242,4140.b	PCB	1	Sample		
5	5	M1248,4140.b	PCB	1	Sample		
6	6	L1660,4140.b	PCB	1	Sample		
7	7	ML1660,4140.b	PCB	1	Sample		
8	8	M1660,4140.b	PCB	1	Sample		
9	9	MH1660,4140.b	PCB	1	Sample		
10	10	H1660,4140.b	PCB	1	Sample		
11	11	2ND2154,4140.b	PCB	1	Sample		
12	12	2ND1232,4140.b	PCB	1	Sample		
13	13	2ND1242,4140.b	PCB	1	Sample		
14	14	2ND1248,4140.b	PCB	1	Sample		
15	15	2ND1660,4140.b	PCB	1	Sample		
16	16	DFXLQ101,4140.b	PCB	1	Sample		
17	17	DFXLQ105,4140.b	PCB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
18	18	DFXLQ106,4140.b	PCB	1	Sample		664 1417
19	19	DFXM0101,4140.b	PCB	1	Sample		
20	20	DFXMF101,4140.b	PCB	1	Sample		
21	21	DFXMH101,4140.b	PCB	1	Sample		
22	22	DFXML101,4140.b	PCB	1	Sample		
23	23	DFXMM101,4140.b	PCB	1	Sample		
24	24	DFXMN101,4140.b	PCB	1	Sample		
25	25	DFXMR101,4140.b	PCB	1	Sample		
26	26	DFXMT101,4140.b	PCB	1	Sample		
27	27	DFXMV101,4140.b	PCB	1	Sample		
28	28	DFXMW101,4140.b	PCB	1	Sample		
29	29	DFXN0101,4140.b	PCB	1	Sample		
30	30	DFXN1101,4140.b	PCB	1	Sample		
31	31	DFXN2101,4140.b	PCB	1	Sample		
32	32	DFXN6101,4140.b	PCB	1	Sample		
33	33	DFXN8101,4140.b	PCB	1	Sample		
34	34	DG21C101,4140.b	PCB	1	Sample		
35	35	DG21C102,4140.b	PCB	1	Sample		
36	36	M1660,4140.b	PCB	1	Sample		
37	37	DFXNH101,4140.b	PCB	1	Sample		
38	38	DFXNL101,4140.b	PCB	1	Sample		
39	39	DFXNM101,4140.b	PCB	1	Sample		
40	40	DFXNQ101,4140.b	PCB	1	Sample		
41	41	DFXNT101,4140.b	PCB	1	Sample		
42	42	DFXNT104,4140.b	PCB	1	Sample		
43	43	DFXNT105,4140.b	PCB	1	Sample		
44	44	DFXNW101,4140.b	PCB	1	Sample		
45	45	DFXNX101,4140.b	PCB	1	Sample		
46	46	DFXP0101,4140.b	PCB	1	Sample		
47	47	DFXP2101,4140.b	PCB	1	Sample		
48	48	DFXP3101,4140.b	PCB	1	Sample		
49	49	DFXP5101,4140.b	PCB	1	Sample		
50	50	DFXP7101,4140.b	PCB	1	Sample		
51	51	DFXP9101,4140.b	PCB	1	Sample		
52	52	DFXPC101,4140.b	PCB	1	Sample		
53	53	DFXPF101,4140.b	PCB	1	Sample		
54	54	DFXPG101,4140.b	PCB	1	Sample		
55	55	DG24G101,4140.b	PCB	1	Sample		
56	56	DG24G102,4140.b	PCB	1	Sample		
57	57	M1660,4140.b	PCB	1	Sample		
58	58	DFXPJ101,4140.b	PCB	1	Sample		
59	59	DFXPK101,4140.b	PCB	1	Sample		
60	60	DFXPL101,4140.b	PCB	1	Sample		
61	61	DFXPN101,4140.b	PCB	1	Sample		
62	62	DFXQQ101,4140.b	PCB	1	Sample		
63	63	DFXQR101,4140.b	PCB	1	Sample		
64	64	DFQMA101,4140.b	PCB	1	Sample		
65	65	DG50W101,4140.b	PCB	1	Sample		
66	66	DG50W102,4140.b	PCB	1	Sample		
67	67	DG50W103,4140.b	PCB	1	Sample		
68	68	DFXRR101,4140.b	PCB	1	Sample		
69	69	DFXRT101,4140.b	PCB	1	Sample		
70	70	M1660,4140.b	PCB	1	Sample		

Sequence Table (Back Injector):

Instrument 1 7/14/00 4:30:50 PM 010139

Page 4 of 5

STL Pittsburgh

4082

Control: DE 724-00

664 1418

M

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-83-1 <i>821</i>
3	3	190-83-2
4	4	190-83-3
5	5	190-83-4
6	6	190-83-7 <i>825</i>
7	7	130181005
8	8	130181BLK
9	9	130181LCS
10	10	130181LCD
11	11	130193001 <i>810</i>
12	12	130193002
13	13	130193002S
14	14	130193002D
15	15	130193003
16	16	130193BLK <i>815</i>
17	17	130193LCS
18	18	190202001
19	19	190202001S
20	20	190202001D
21	21	190202002 <i>820</i>
22	22	190202003
23	23	190202004
24	24	190202011
25	25	190202BLK

*✓(d)
LM
7/25/00*

Line	Vial	Vial Information
26	26	190202LCS 825
27	27	190-83-7
28	28	190202012
29	29	190202013
30	30	190202014
31	31	190202015 830
32	32	190202016
33	33	190202017
34	34	190202018
35	35	190202019
36	36	190202020 835
37	37	190-83-7
38	1	RINSE
39	2	190-83-7
40	3	190202013 X5
41	4	190-83-7 840

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M2154,4140.b	PCB	1	Sample		
3	3	M1232,4140.b	PCB	1	Sample		
4	4	M1242,4140.b	PCB	1	Sample		
5	5	M1248,4140.b	PCB	1	Sample		
6	6	M1660,4140.b	PCB	1	Sample		
7	7	DG568104,4140.b	PCB	1	Sample		
8	8	DG91J101,4140.b	PCB	1	Sample		
9	9	DG91J102,4140.b	PCB	1	Sample		
10	10	DG91J103,4140.b	PCB	1	Sample		
11	11	DG580103,4140.b	PCB	1	Sample		
12	12	DG58E103,4140.b	PCB	1	Sample		
13	13	DG58E108,4140.b	PCB	1	Sample		
14	14	DG58E109,4140.b	PCB	1	Sample		
15	15	DG58J103,4140.b	PCB	1	Sample		
16	16	DG90W101,4140.b	PCB	1	Sample		
17	17	DG90W102,4140.b	PCB	1	Sample		
18	18	DGFL1101,4140.b	PCB	1	Sample		
19	19	DGFL1103,4140.b	PCB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
20	20	DGFL1104,4140.b	PCB	1	Sample		
21	21	DGFL7101,4140.b	PCB	1	Sample		
22	22	DGFL9101,4140.b	PCB	1	Sample		
23	23	DGFLC101,4140.b	PCB	1	Sample		
24	24	DGFMJ101,4140.b	PCB	1	Sample		
25	25	DGJNM101,4140.b	PCB	1	Sample		
26	26	DGJNM102,4140.b	PCB	1	Sample		
27	27	M1660,4140.b	PCB	1	Sample		
28	28	DGFMR101,4140.b	PCB	1	Sample		
29	29	DGFMT101,4140.b	PCB	1	Sample		
30	30	DGFMW101,4140.b	PCB	1	Sample		
31	31	DGFMX101,4140.b	PCB	1	Sample		
32	32	DGFNO101,4140.b	PCB	1	Sample		
33	33	DGFN1101,4140.b	PCB	1	Sample		
34	34	DGFN8101,4140.b	PCB	1	Sample		
35	35	DGFNA101,4140.b	PCB	1	Sample		
36	36	DGFND101,4140.b	PCB	1	Sample		
37	37	M1660,4140.b	PCB	1	Sample		
38	1	HEXANE	PCB	1	Sample		
39	2	M1660,4140.b	PCB	1	Sample		
40	3	DGFMT101,4140.b	PCB	1	Sample		
41	4	M1660,4140.b	PCB	1	Sample		

664 1420

Sequence Table (Back Injector):

No entries - empty table!

Created: DE 7-25-00

Sequence Table (Front Injector):

M

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8082 ANALYSIS
2	2	190-83-7 <i>842</i>
3	3	200279001
4	4	200279002
5	5	200279003 <i>845</i>
6	6	200279004
7	7	200279004S
8	8	200279004D
9	9	200279005
10	10	200210001 <i>850</i>
11	11	200279BLK
12	12	200279LCS
13	13	140162001
14	14	140162002
15	15	140162003 <i>855</i>
16	16	140162004
17	17	140162005
18	18	140162BLK
19	19	140162LCS
20	20	140162LCD <i>860</i>
21	21	140158BLK
22	22	140158LCS
23	23	190-83-7
24	24	140158001
25	25	140158002 <i>865</i>

*✓ED
LM
7/27/00*

Line	Vial	Vial Information
------	------	------------------

664 1422

26	26	140158002S
27	27	140158002D
28	28	140158003
29	29	140158004
30	30	140158005 870
31	31	140158006
32	32	180137001
33	33	180137002
34	34	180137003
35	35	180137BLK 875
36	36	180137LCS
37	37	180137LCD
38	38	190235001
39	39	190235002
40	40	190235003 850
41	41	190235003S
42	42	190235003D
43	43	190235BLK
44	44	190-83-7
45	45	190235LCS 885
46	46	190235004
47	47	190235005
48	48	190235006
49	49	190235007
50	50	190235008 890
51	51	190235009
52	52	190251001
53	53	190251002

Line	Vial	Vial Information
54	54	190251BLK
55	55	190251LCS <i>895</i>
56	56	190251LCD
57	57	190-83-7

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M1660,4140.b	PCB	1	Sample		
3	3	DGJLV104,4140.b	PCB	1	Sample		
4	4	DGJLX104,4140.b	PCB	1	Sample		
5	5	DGJM2104,4140.b	PCB	1	Sample		
6	6	DGJM410A,4140.b	PCB	1	Sample		
7	7	DGJM410C,4140.b	PCB	1	Sample		
8	8	DGJM410D,4140.b	PCB	1	Sample		
9	9	DGJM6104,4140.b	PCB	1	Sample		
10	10	DGJ6M104,4140.b	PCB	1	Sample		
11	11	DGMAD101,4140.b	PCB	1	Sample		
12	12	DGMAD102,4140.b	PCB	1	Sample		
13	13	DG7DJ104,4140.b	PCB	1	Sample		
14	14	DG7E2104,4140.b	PCB	1	Sample		
15	15	DG7E3104,4140.b	PCB	1	Sample		
16	16	DG7E4104,4140.b	PCB	1	Sample		
17	17	DG7E5104,4140.b	PCB	1	Sample		
18	18	DGCQL101,4140.b	PCB	1	Sample		
19	19	DGCQL102,4140.b	PCB	1	Sample		
20	20	DGCQL103,4140.b	PCB	1	Sample		
21	21	DGCE1101,4140.b	PCB	1	Sample		
22	22	DGCE1102,4140.b	PCB	1	Sample		
23	23	M1660,4140.b	PCB	1	Sample		
24	24	DG7C9105,4140.b	PCB	1	Sample		
25	25	DG7CE105,4140.b	PCB	1	Sample		
26	26	DG7CE110,4140.b	PCB	1	Sample		
27	27	DG7CE111,4140.b	PCB	1	Sample		
28	28	DG7CJ105,4140.b	PCB	1	Sample		
29	29	DG7CP105,4140.b	PCB	1	Sample		
30	30	DG7CR105,4140.b	PCB	1	Sample		
31	31	DG7CW105,4140.b	PCB	1	Sample		
32	32	DGD7J105,4140.b	PCB	1	Sample		
33	33	DGD7L105,4140.b	PCB	1	Sample		
34	34	DGD7N105,4140.b	PCB	1	Sample		
35	35	DGGRQ101,4140.b	PCB	1	Sample		
36	36	DGGRQ102,4140.b	PCB	1	Sample		
37	37	DGGRQ103,4140.b	PCB	1	Sample		
38	38	DGGOG105,4140.b	PCB	1	Sample		
39	39	DGGOX105,4140.b	PCB	1	Sample		
40	40	DGG18105,4140.b	PCB	1	Sample		
41	41	DGG1810X,4140.b	PCB	1	Sample		
42	42	DGG18110,4140.b	PCB	1	Sample		
43	43	DGJP6101,4140.b	PCB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
44	44	M1660,4140.b	PCB	1	Sample		
45	45	DGJP6102,4140.b	PCB	1	Sample		
46	46	DGG1E105,4140.b	PCB	1	Sample		
47	47	DGG1J105,4140.b	PCB	1	Sample		
48	48	DGG1M105,4140.b	PCB	1	Sample		
49	49	DGG28105,4140.b	PCB	1	Sample		
50	50	DGG2F105,4140.b	PCB	1	Sample		
51	51	DGG2N105,4140.b	PCB	1	Sample		
52	52	DGG3T104,4140.b	PCB	1	Sample		
53	53	DGG44104,4140.b	PCB	1	Sample		
54	54	DGJRG101,4140.b	PCB	1	Sample		
55	55	DGJRG102,4140.b	PCB	1	Sample		
56	56	DGJRG103,4140.b	PCB	1	Sample		
57	57	M1660,4140.b	PCB	1	Sample		

664 1424

Sequence Table (Back Injector):

No entries - empty table!

REQUESTED BY: YUSHINSC

METHOD: QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
8E CLP1	DGJM-1-04	---	251827	399411	I-09-QH	COG200210	001		WATER	0	13 1
9A,B CLP1	DGJLV-1-04	---	251822	051465	I-09-QH	COG200279	001		WATER	0	6 1
9A,B CLP1	DGJLX-1-04	---	251823	051465	I-09-QH	COG200279	002		WATER	0	6 1
9A,B CLP1	DGJM2-1-04	---	251824	051465	I-09-QH	COG200279	003		WATER	0	6 1
9A,B CLP1	DGJM4-1-0A	---	251825	051465	I-09-QH	COG200279	004	QC	WATER	0	23 1
9A,B CLP1	DGJM6-1-04	---	251826	051465	I-09-QH	COG200279	005		WATER	0	7 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

J. Yushinski
J. Yushinski

J. Yushinski
J. Yushinski

7-21-00 1500
7-21-00 2000

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

664 1426

HERBICIDE DATA

HERBICIDE
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COG200210

	CLIENT ID.	SRG01	TOT OUT
01	DF/S1/201/WA/002	102	00
02	METHOD BLK. DGPN7101	78	00
03	LCS DGPN7102	111	00
04	LCSD DGPN7103	107	00

SURROGATES
SRG01 = DCAA

QC LIMITS
(53-119)

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

FORM II

Lab Name: Severn-Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COG240000

WO #: DGNP7102

BATCH: 0206541

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	15.1	94	46 - 124	
2,4,5-TP (Silvex)	4.00	3.75	94	53 - 127	
2,4,5-T	4.00	3.60	90	40 - 126	
Pentachlorophenol	2.00	1.97	98	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G240000

WO #: DGN7103

BATCH: 0206541

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	14.0	87	46 - 124	
2,4,5-TP (Silvex)	4.00	3.44	86	53 - 127	
2,4,5-T	4.00	3.33	83	40 - 126	
Pentachlorophenol	2.00	1.85	92	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGPN7101

Lab Name: Severn Trent Laboratories, Inc.

664 1431

Lab Code: QESPIT

SDG Number:

Lab File ID: a-b40365.

Lot Number: C0G200210

Matrix: WATER

Extraction Method: 8151A

Date Extracted: 07/24/00

Date Analyzed(1): 07/26/00

Date Analyzed(2): N/A

Time Analyzed(1): 02:04

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

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

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/201/WA/002	DGJ6M112	07/26/00	N/A
02	CHECK SAMPLE	DGPN7102 C	07/26/00	N/A
03	DUPLICATE CHECK	DGPN7103 L	07/26/00	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

664 1432

HERBICIDE
SAMPLE DATA

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG200210 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 07/20/00

Work Order: DGJ6M112

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0206541

Client Sample Id: DF/S1/201/WA/002

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

Data File: /var/chem/gc1.i/4050A.b/a-b40361.d
 Report Date: 26-Jul-2000 08:43

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40361.d
 Lab Smp Id: DGJ6M112 Client Smp ID: DF/S1/201/WA/002
 Inj Date : 26-JUL-2000 00:09
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DGJ6M112,4050A.b
 Misc Info : 200210001
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

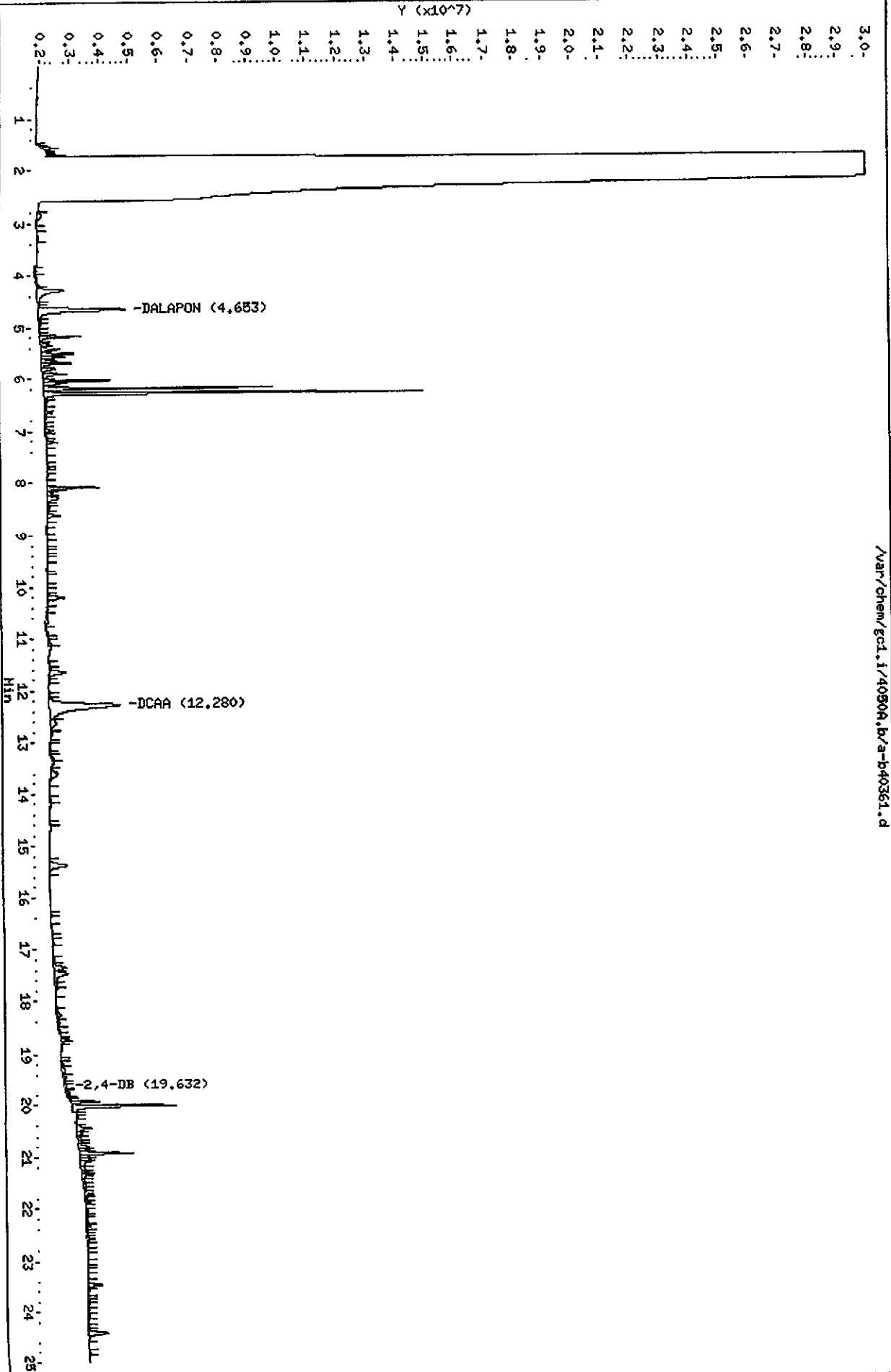
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.653	4.660	-0.007	2921242	0.02100	4.200
2 DCAA	12.280	12.259	0.021	19564605	0.05093	10.19
3 DICAMBA	Compound Not Detected.					
4 MCPP	Compound Not Detected.					
5 MCPA	Compound Not Detected.					
6 DICHLOROPROP	Compound Not Detected.					
7 2,4-D	Compound Not Detected.					
8 PENTACHLOROPHENOL	Compound Not Detected.					
9 2,4,5-TP(SILVEX)	Compound Not Detected.					
10 2,4,5-T	Compound Not Detected.					
11 2,4-DB	19.632	19.685	-0.053	84285	0.00124	0.2476
12 DINOSEB	Compound Not Detected.					

Data File: /var/chem/gc1.i/4050A.b/a-b40361.d
Date : 26-JUL-2000 00:09
Client ID: DF/S1/201/HA/002
Sample Info: D036M112.4050A.b
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc1.1
Operator: 021797
Column diameter: 0.53

/var/chem/gc1.i/4050A.b/a-b40361.d



664 1436

**HERBICIDE
CALIBRATION DATA**

Report Date : 25-Jul-2000 16:32

60
HP68501B
DB721

664 1437

STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gcl.i/4050A.b/LONGHB.m
 Quant Method : ESTD Target Version : 3.40
 Last Update : 25-Jul-2000 16:31 Number of Cpnds : 12
 Data Type : GC MULTI COMP

Global Integrator : Falcon
Chromat Events

Values

 Initial:Start Threshold 3608.000000
 Initial:End Threshold 1804.000000
 Initial:Area Threshold 36080.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 10.000000
 Initial:Negative Peaks ON
 Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	4.660	4.590-4.730	1.391e+08
\$ 2 DCAA	12.259	12.189-12.329	3.841e+08
3 DICAMBA	12.943	12.873-13.013	3.062e+08
4 MCPP	13.442	13.372-13.512	2.575e+05
5 MCPA	14.445	14.375-14.515	3.438e+05
6 DICHLOROPROP	15.747	15.677-15.817	6.098e+07
7 2,4-D	17.069	16.999-17.139	8.205e+07
8 PENTACHLOROPHENOL	17.346	17.276-17.416	1.432e+09
9 2,4,5-TP(SILVEX)	18.511	18.441-18.581	7.319e+08
10 2,4,5-T	19.165	19.095-19.235	5.830e+08
11 2,4-DB	19.685	19.615-19.755	6.808e+07
12 DINOSEB	20.343	20.273-20.413	6.870e+08

6E
689016
06/17/01

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 05-JUL-2000 17:33
 End Cal Date : 05-JUL-2000 19:29
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Cal Date : 06-Jul-2000 08:37 matkol
 Curve Type : Average

Calibration File Names:

- Level 1: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40088.D
- Level 2: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40089.D
- Level 3: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40090.D
- Level 4: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40091.D
- Level 5: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40092.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 DALAPON	152122364	147606864	136342437	131515968	127984028	139114332	7.459
3 DICAMBA	309582358	312138545	310162565	301861939	297197606	306188603	2.080
4 MCPP	320967	287314	254722	221860	202629	257499	18.630
5 MCPA	413884	388733	338158	297881	280335	343798	16.645
6 DICHLOROPROP	64270425	63583868	61872488	58672282	56479103	60975633	5.438
7 2,4-D	74413886	79572165	83291011	85292000	87658797	82045572	6.332
8 PENTACHLOROPHENOL	1.376e+09	1.417e+09	1.450e+09	1.455e+09	1.464e+09	1.432e+09	2.527
9 2,4,5-TP (SILVEX)	676064190	711325524	736532559	755652874	779913786	731897787	5.479
10 2,4,5-T	478111195	538373524	576902180	630031730	691617133	583007152	14.103
11 2,4-DB	54077820	60990024	65942639	73975278	85415666	68080285	17.781
12 DINOSEB	683692744	694501417	683372520	677221535	696063465	686970336	1.169
2 DCAA	431908545	414136894	386079495	353961459	334469353	384111149	10.546

7E H#689016
 DBFZ

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
 Lab File ID: a-b40358.d
 Analysis Type:
 Lab Sample ID: Mherb
 Quant Type: ESTD

Injection Date: 25-JUL-2000 22:43
 Init. Calibration Date(s): 06/22/0 07/05/0
 Init. Calibration Times: 16:34 19:29
 Method File: /var/chem/gc1.i/4050A.b/LONGHB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
1 DALAPON	139114332.230	142713712.984	0.010	-2.6	15.0
2 DCAA	384111149.039	403464136.310	0.010	-5.0	15.0
3 DICAMBA	306188602.515	326955294.118	0.010	-6.8	15.0
4 MCPP -	257498.603	262874.178	0.010	-2.1	15.0
5 MCPA	343798.333	356800.467	0.010	-3.8	15.0
6 DICHLOROPROP	60975633.252	63985613.208	0.010	-4.9	15.0
7 2,4-D	82045571.719	85089976.498	0.010	-3.7	15.0
8 PENTACHLOROPHENOL	1432344460.000	1515904511.278	0.010	-5.8	15.0
9 2,4,5-TP(SILVEX)	731897786.670	738967061.611	0.010	-1.0	15.0
10 2,4,5-T	583007152.382	568926824.645	0.010	2.4	15.0
11 2,4-DB	68080285.288	63295798.817	0.010	7.0	15.0
12 DINOSEB	686970336.297	691350629.921	0.010	-0.6	15.0

Data File: /var/chem/gc1.i/4050A.b/a-b40368.d
Report Date: 26-Jul-2000 08:15

HP68901B
DB17C

664 1440

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: a-b40368.d
Analysis Type:
Lab Sample ID: Mherb
Quant Type: ESTD

Injection Date: 26-JUL-2000 03:29
Init. Calibration Date(s): 06/22/0 07/05/0
Init. Calibration Times: 16:34 19:29
Method File: /var/chem/gc1.i/4050A.b/LONGHB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
1 DALAPON	139114332.230	141585398.633	0.010	-1.8	15.0
2 DCAA	384111149.039	405697238.543	0.010	-5.6	15.0
3 DICAMBA	306188602.515	328394894.118	0.010	-7.3	15.0
4 MCPP -	257498.603	265644.718	0.010	-3.2	15.0
5 MCPA	343798.333	357125.935	0.010	-3.9	15.0
6 DICHLOROPROP	60975633.252	63826721.698	0.010	-4.7	15.0
7 2,4-D	82045571.719	83650188.014	0.010	-2.0	15.0
8 PENTACHLOROPHENOL	1432344460.000	1524975751.880	0.010	-6.5	15.0
9 2,4,5-TP (SILVEX)	731897786.670	736745971.564	0.010	-0.7	15.0
10 2,4,5-T	583007152.382	559258246.445	0.010	4.1	15.0
11 2,4-DB	68080285.288	63164106.509	0.010	7.2	15.0
12 DINOSEB	686970336.297	690744488.189	0.010	-0.5	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

664 1441

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0G200210

GC Column: DB1701

ID: 0.53

(mm)

Init. Calib. Date(s): 06/22/00 07/05/00

Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 12.26						
EPA	LAB	DATE	TIME	S1		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT
=====	=====	=====	=====	=====	=====	=====
01	LHERB	07/05/00	1733	12.26		
02	MLHERB	07/05/00	1802	12.26		
03	MHERB	07/05/00	1831	12.25		
04	MHHERB	07/05/00	1900	12.25		
05	HHERB	07/05/00	1929	12.25		
06	2NDHERB	07/05/00	1958	12.26		
07	MHERB	07/25/00	2243	12.25		
08	DF/S1/201/WA	DGJ6M112	07/26/00	0009	12.28	
09	PBLK	DGPN7101	07/26/00	0204	12.31	
10	LCS	DGPN7102	07/26/00	0232	12.26	
11	LCSD	DGPN7103	07/26/00	0301	12.26	
12		MHERB	07/26/00	0329	12.26	
13						
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27						
28						
29						
30						
31						
32						

S1 = DCAA

QC LIMITS
(+/- 0.07 MINUTES)

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

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40088.D
 Lab Smp Id: Lherb
 Inj Date : 05-JUL-2000 17:33
 Operator : 01797
 Smp Info : Lherb,4050A.b
 Misc Info : 190-94-1
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Meth Date : 06-Jul-2000 09:17 matkol
 Cal Date : 05-JUL-2000 17:33
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

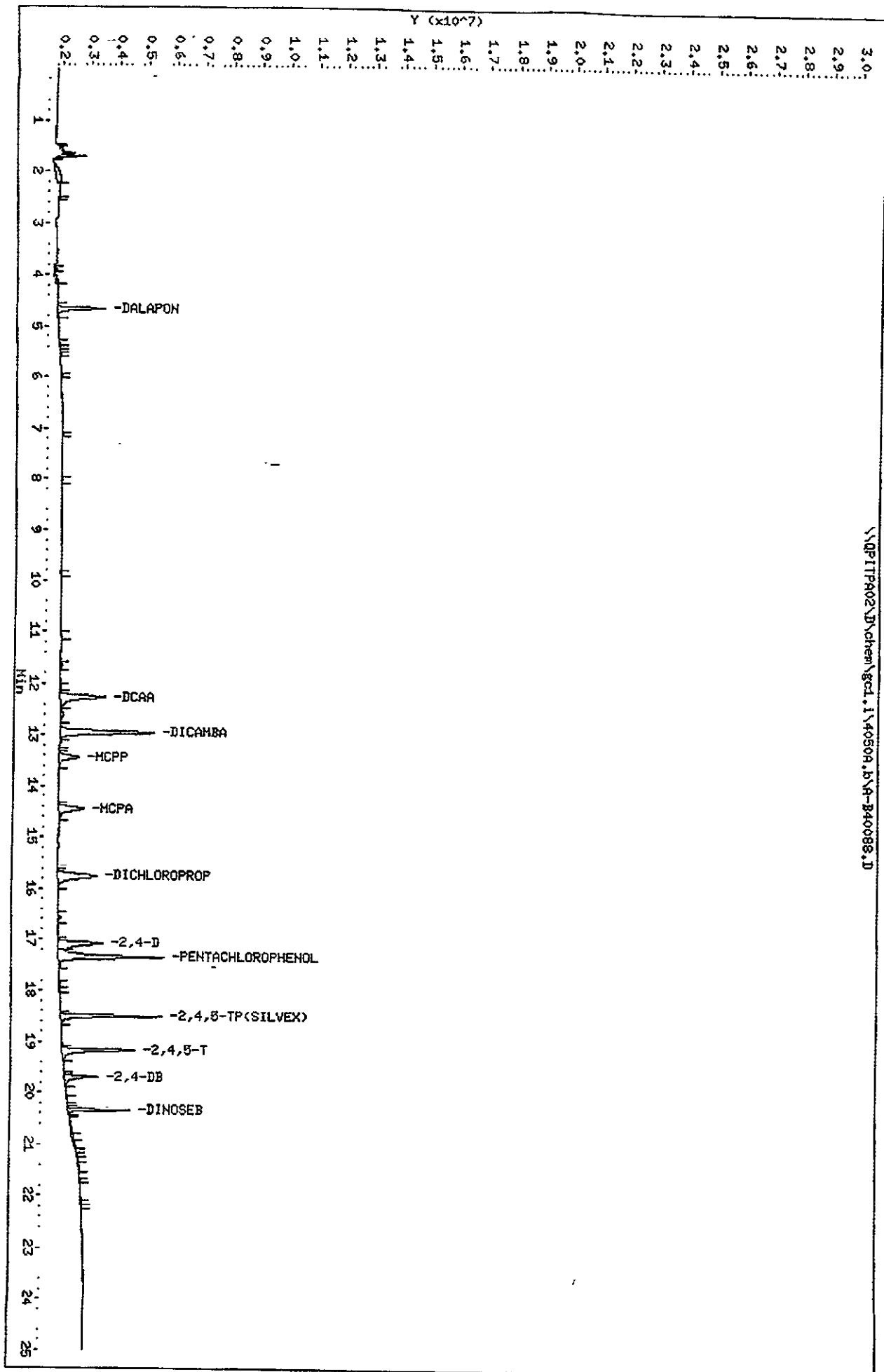
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B40088.D
 Calibration Sample, Level: 1
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	1673346	0.01100	0.01203
§ 2 DCAA	12.262	12.254	0.008	9199652	0.02130	0.02395
3 DICAMBA	12.944	12.943	0.001	3281573	0.01060	0.01072
4 MCPP	13.439	13.440	-0.001	680451	2.12000	2.642
5 MCPA	14.446	14.443	0.003	885711	2.14000	2.576
6 DICHLOROPROP	15.747	15.744	0.003	1362833	0.02120	0.02234
7 2,4-D	17.078	17.067	0.011	1570133	0.02110	0.01914
8 PENTACHLOROPHENOL	17.344	17.345	-0.001	3659952	0.00266	0.002555
9 2,4,5-TP (SILVEX)	18.511	18.510	0.001	3549337	0.00525	0.004849
10 2,4,5-T	19.168	19.163	0.005	2519646	0.00527	0.004322
11 2,4-DB	19.690	19.682	0.008	1141042	0.02110	0.01676
12 DINOSEB	20.344	20.345	-0.001	2167306	0.00317	0.003155

6641443

Data File: \\NPITPR02\chem\gcd.1\40504.B\A-B40088.D
Date: 05-JUL-2000 17:33
Client ID:
Sample Info: Lherb,40504.b
Column Phase: DB1701

Instrument: GC1.1
Operator: 01797
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40089.D
Lab Smp Id: MLherb
Inj Date : 05-JUL-2000 18:02
Operator : 01797 Inst ID: gc1.i
Smp Info : MLherb,4050A.b
Misc Info : 190-94-2
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol Quant Type: ESTD
Cal Date : 05-JUL-2000 17:33 Cal File: A-B40088.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

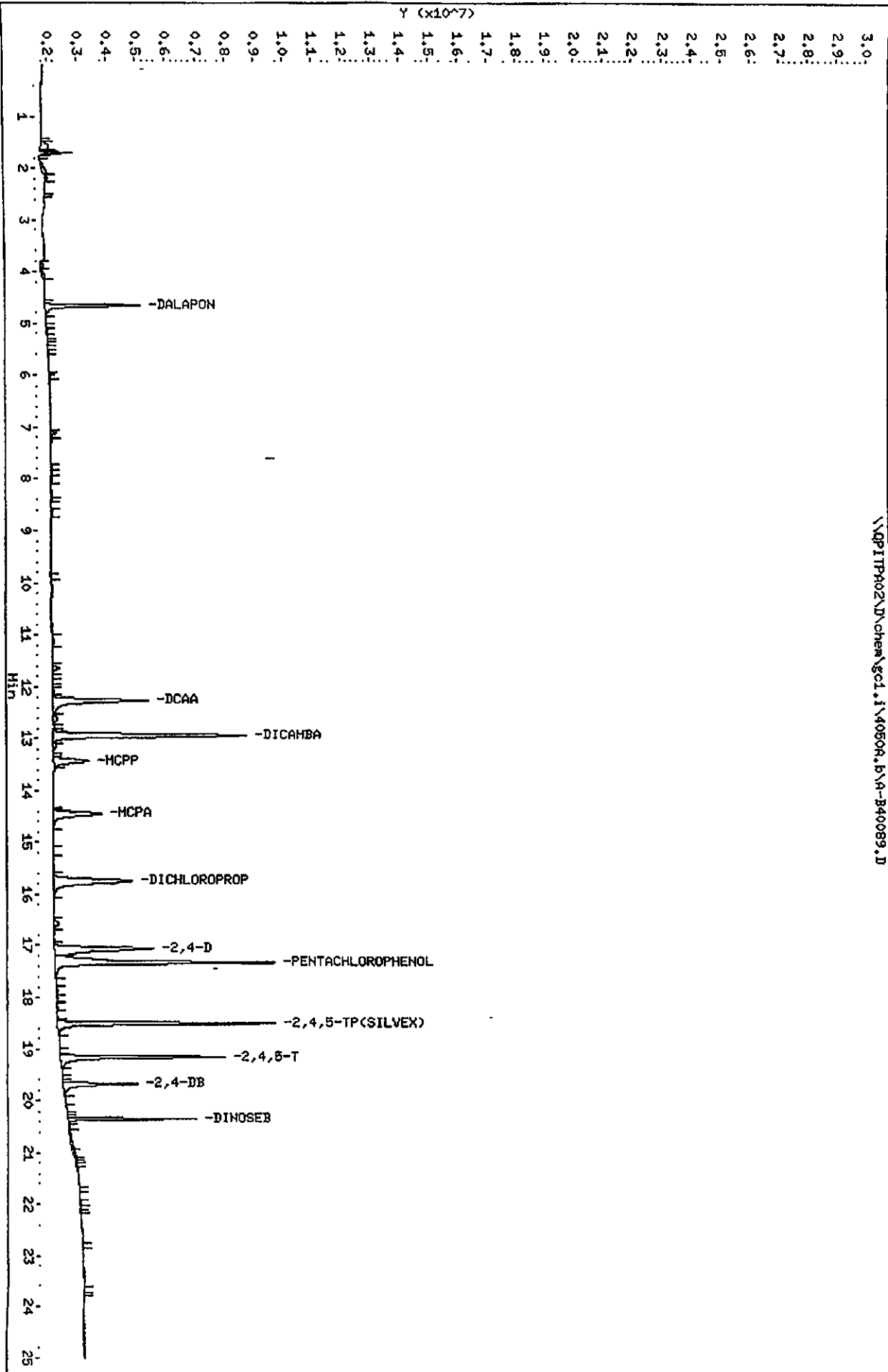
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	3247351	0.02200	0.02334
\$ 2 DCAA	12.259	12.254	0.005	17600818	0.04250	0.04582
3 DICAMBA	12.944	12.943	0.001	6648551	0.02130	0.02171
4 MCPP	13.441	13.440	0.001	1223958	4.26000	4.753
5 MCPA	14.442	14.443	-0.001	1663779	4.28000	4.839
6 DICHLOROPROP	15.746	15.744	0.002	2695956	0.04240	0.04421
7 2,4-D	17.073	17.067	0.006	3381817	0.04250	0.04122
8 PENTACHLOROPHENOL	17.345	17.345	0.000	7538064	0.00532	0.005263
9 2,4,5-TP (SILVEX)	18.511	18.510	0.001	7468918	0.01050	0.01020
10 2,4,5-T	19.166	19.163	0.003	5652922	0.01050	0.009696
11 2,4-DB	19.686	19.682	0.004	2573779	0.04220	0.03780
12 DINOSEB	20.344	20.345	-0.001	4410084	0.00635	0.006420

6641445

Data File: \\QPITP02\chem\gcl.i\4050A.BVA-840089.D
Date: 05-JUL-2000 18:02
Client ID:
Sample Info: HHerb,4050A,b
Column phase: DB1701

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

\\QPITP02\chem\gcl.i\4050A.BVA-840089.D



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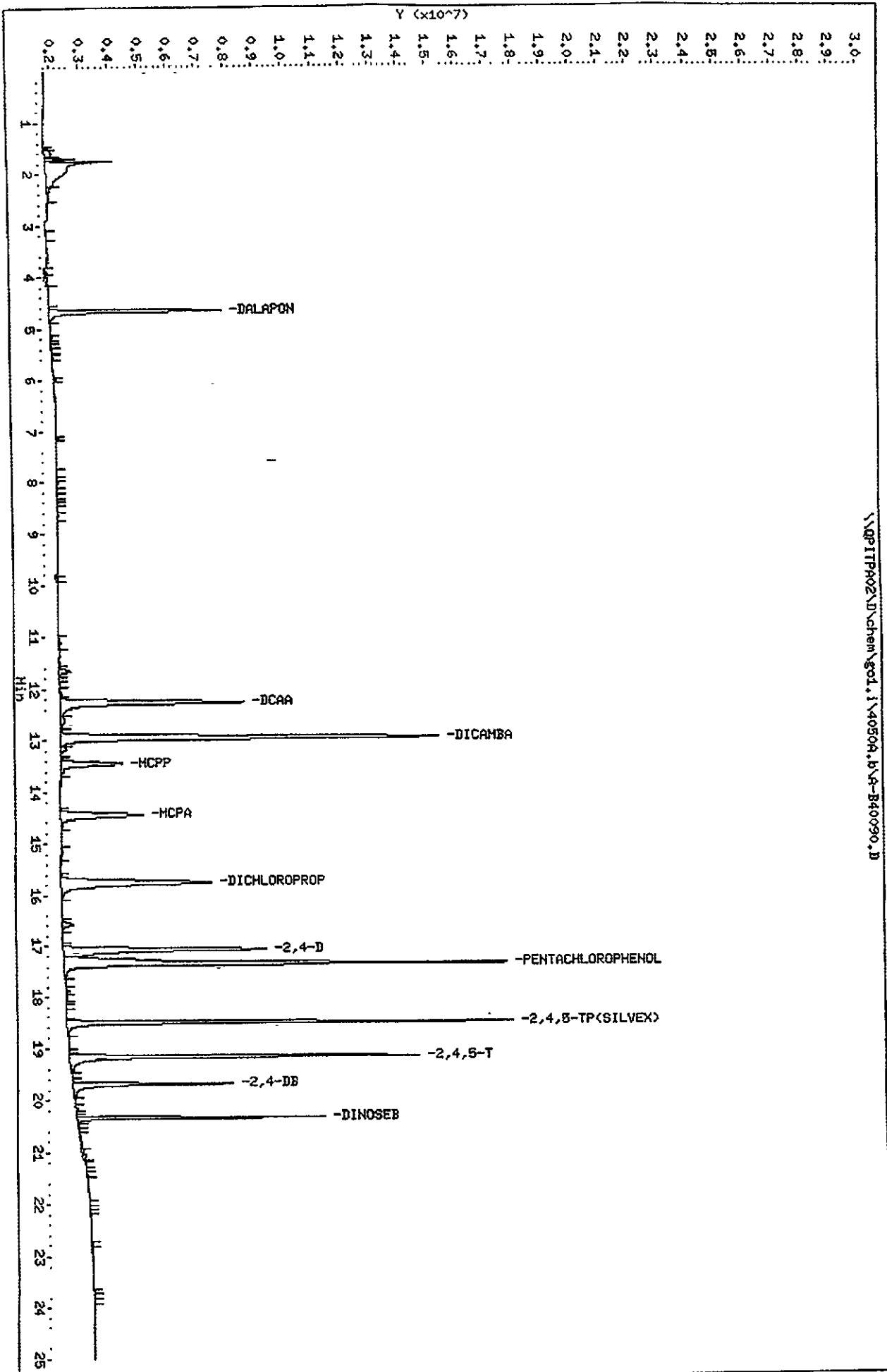
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40090.D
Lab Smp Id: Mherb
Inj Date : 05-JUL-2000 18:31
Operator : 01797 Inst ID: gc1.i
Smp Info : Mherb,4050A.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol Quant Type: ESTD
Cal Date : 05-JUL-2000 17:33 Cal File: A-B40088.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.655	4.655	0.000	5985433	0.04390	0.04302
\$ 2 DCAA	12.254	12.254	0.000	32855365	0.08510	0.08554
3 DICAMBA	12.943	12.943	0.000	13181909	0.04250	0.04305
4 MCPP	13.440	13.440	0.000	2170234	8.52000	8.428
5 MCPA	14.443	14.443	0.000	2894635	8.56000	8.420
6 DICHLOROPROP	15.744	15.744	0.000	5246787	0.08480	0.08605
7 2,4-D	17.067	17.067	0.000	7088065	0.08510	0.08639
8 PENTACHLOROPHENOL	17.345	17.345	0.000	15429626	0.01064	0.01077
9 2,4,5-TP (SILVEX)	18.510	18.510	0.000	15540837	0.02110	0.02123
10 2,4,5-T	19.163	19.163	0.000	12172636	0.02110	0.02088
11 2,4-DB	19.682	19.682	0.000	5572153	0.08450	0.08185
12 DINOSEB	20.345	20.345	0.000	8678831	0.01270	0.01263

6641447

Data File: \\NPITPA02\chem\gol.i\4050A.BA-B40090.D
Date: 05-JUL-2000 18:31
Client ID:
Sample Info: Herb,4050A.b
Column phase: DB1701

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



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Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40091.D
 Lab Smp Id: MHherb
 Inj Date : 05-JUL-2000 19:00
 Operator : 01797
 Smp Info : MHherb,4050A.b
 Misc Info : 190-94-4
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Meth Date : 06-Jul-2000 09:17 matkol
 Cal Date : 05-JUL-2000 17:33
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc1.i

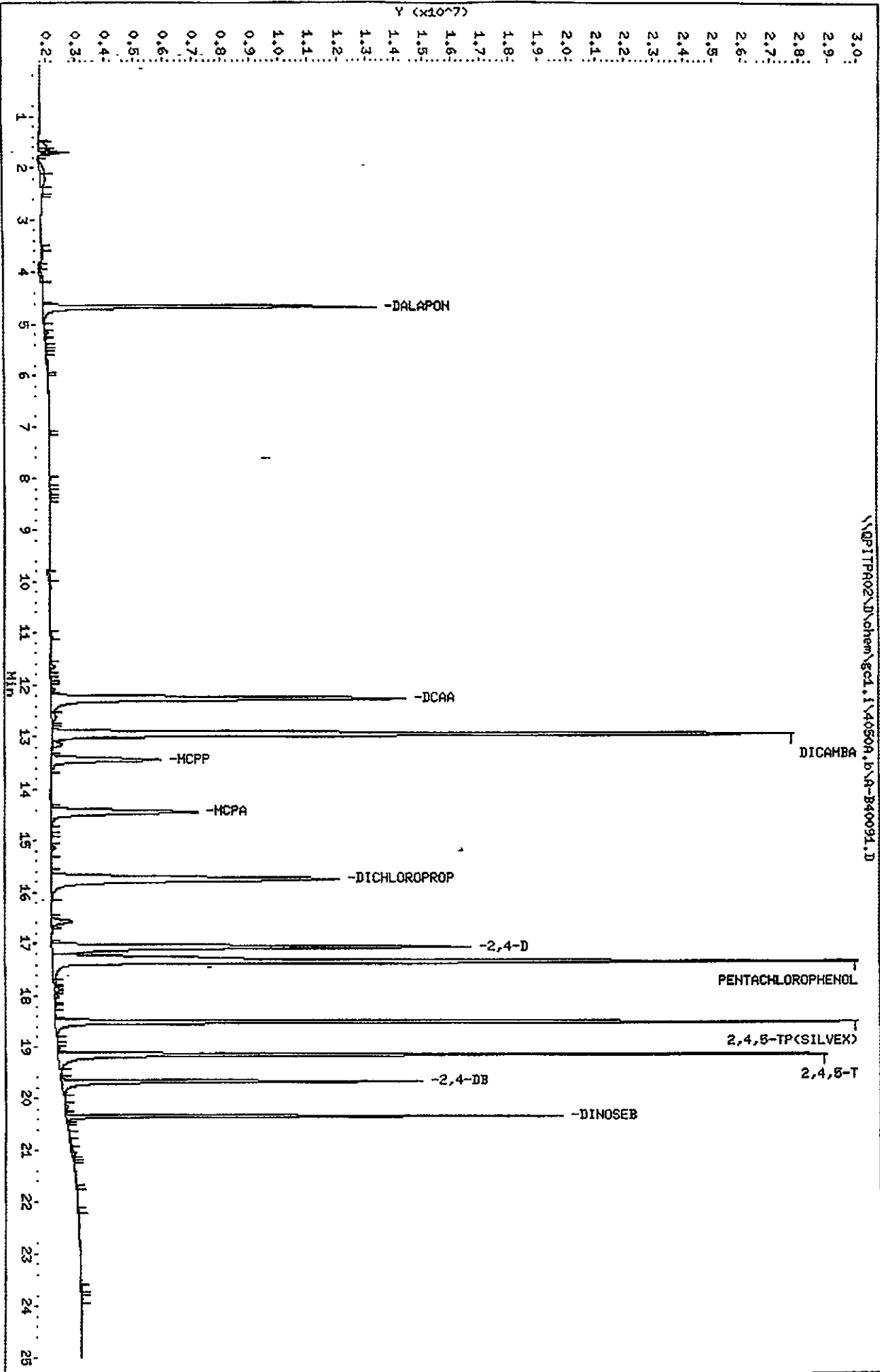
Quant Type: ESTD
 Cal File: A-B40088.D
 Calibration Sample, Level: 4

Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	11547102	0.08780	0.08300
2 DCAA	12.252	12.254	-0.002	60173448	0.17000	0.1566
3 DICAMBA	12.941	12.943	-0.002	25688451	0.08510	0.08390
4 MCDD	13.437	13.440	-0.003	3771618	17.0000	14.65
5 MCPA	14.440	14.443	-0.003	5093767	17.1000	14.82
6 DICHLOROPROP	15.742	15.744	-0.002	9974288	0.17000	0.1636
7 2,4-D	17.061	17.067	-0.006	14499640	0.17000	0.1767
8 PENTACHLOROPHENOL	17.342	17.345	-0.003	30957108	0.02128	0.02161
9 2,4,5-TP(SILVEX)	18.508	18.510	-0.002	31812986	0.04210	0.04347
10 2,4,5-T	19.160	19.163	-0.003	26587339	0.04220	0.04560
11 2,4-DB	19.678	19.682	-0.004	12501822	0.16900	0.1836
12 DINOSBB	20.343	20.345	-0.002	17201427	0.02540	0.02504

Data File: \\QP1TPRO2\chem\gcd.1\4050A.b\A-B40091.D
Date: 05-JUL-2000 19:00
Client ID:
Sample Info: MHherb,4050A.b
Column phase: DB1.701

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



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Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40092.D
Lab Smp Id: Hherb
Inj Date : 05-JUL-2000 19:29
Operator : 01797 Inst ID: gc1.i
Smp Info : Hherb,4050A.b
Misc Info : 190-94-5
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:18 matkol Quant Type: ESTD
Cal Date : 05-JUL-2000 19:29 Cal File: A-B40092.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	22525189	0.17600	0.1619
2 DCAA	12.248	12.254	-0.006	113719580	0.34000	0.2960
3 DICAMBA	12.941	12.943	-0.002	50523593	0.17000	0.1650
4 MCPP	13.438	13.440	-0.002	6909659	34.1000	26.83
5 MCPA	14.441	14.443	-0.002	9531397	34.0000	27.72
6 DICHLOROPROP	15.740	15.744	-0.004	19146416	0.33900	0.3140
7 2,4-D	17.056	17.067	-0.011	29803991	0.34000	0.3633
8 PENTACHLOROPHENOL	17.342	17.345	-0.003	62291798	0.04255	0.04349
9 2,4,5-TP(SILVEX)	18.507	18.510	-0.003	65512758	0.08400	0.08951
10 2,4,5-T	19.157	19.163	-0.006	58372486	0.08440	0.1001
11 2,4-DB	19.675	19.682	-0.007	28870495	0.33800	0.4241
12 DINOSEB	20.343	20.345	-0.002	35360024	0.05080	0.05147

Data File: \\GPITPA02\chem\gcd.1\4050A.b\A-B40092.D

Date: 05-JUL-2000 19:29

Client ID:

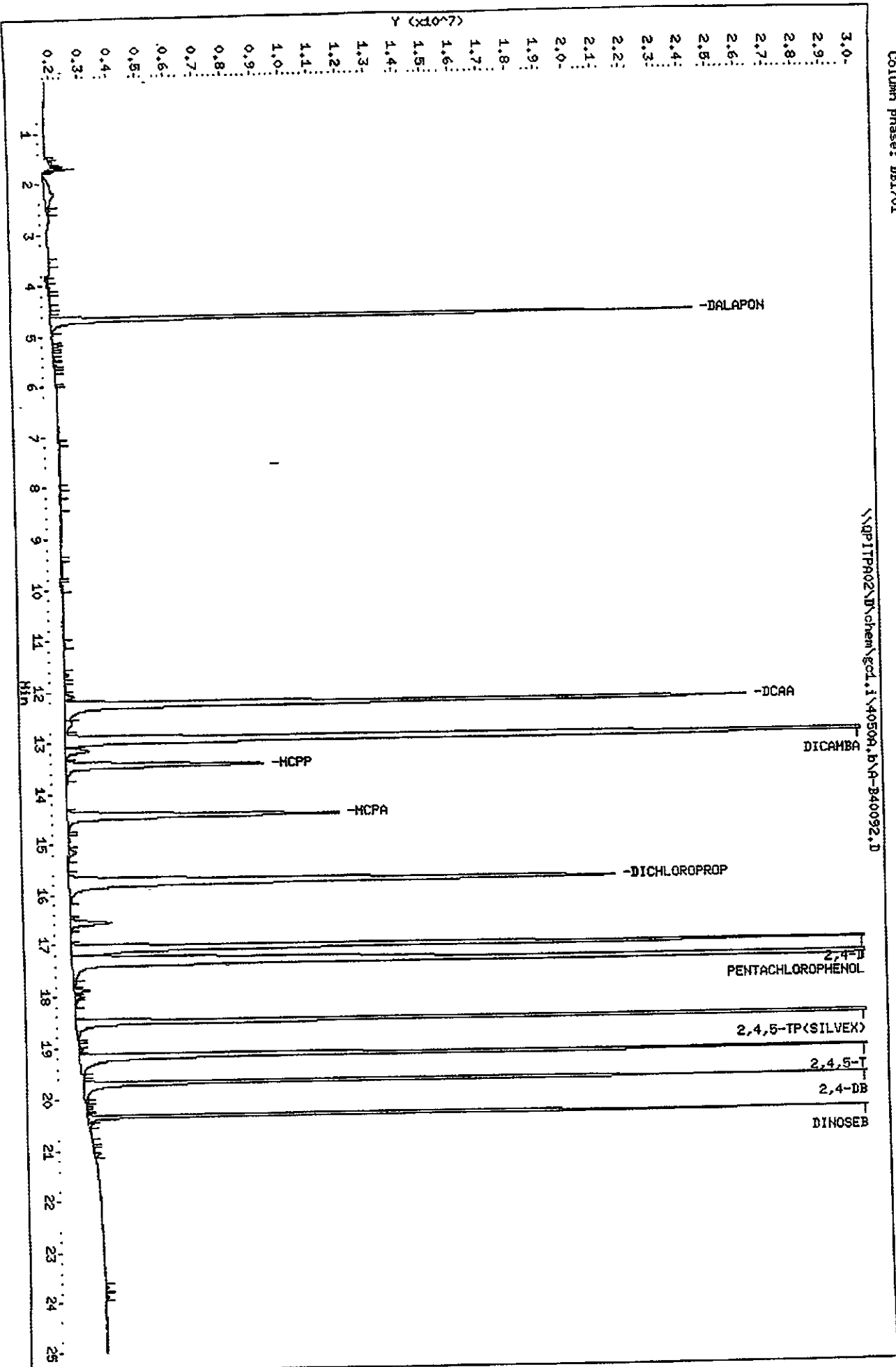
Sample Info: Herb, 4050A.b

Column phase: DB1701

Instrument: gcd.1

Operator: 01797

Column diameter: 0.53



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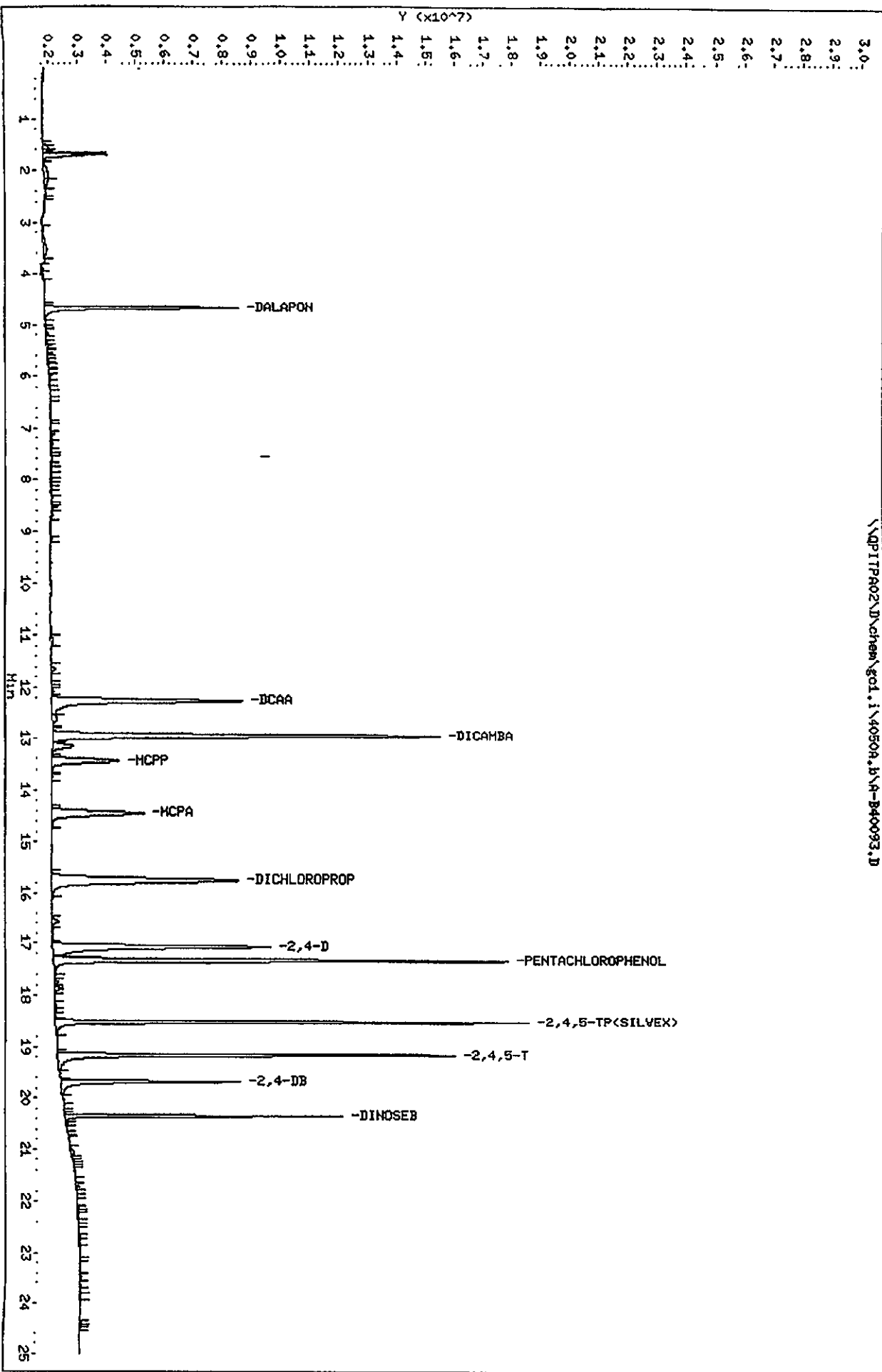
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40093.D
 Lab Smp Id: 2ndherb
 Inj Date : 05-JUL-2000 19:58
 Operator : 01797 Inst ID: gc1.i
 Smp Info : 2ndherb,4050A.b
 Misc Info : 190-80-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Meth Date : 06-Jul-2000 09:02 matkol Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: A-B40092.D
 Als bottle: 8 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	6717254	0.04390	0.04828
\$ 2 DCAA	12.256	12.254	0.002	35240705	0.08510	0.09175
3 DICAMBA	12.942	12.943	-0.001	13359758	0.04250	0.04363
4 MCPP	13.435	13.440	-0.005	2324418	8.52000	9.027
5 MCPA	14.442	14.443	-0.001	3191454	8.56000	9.283
6 DICHLOROPROP	15.744	15.744	0.000	6448591	0.08480	0.1058
7 2,4-D	17.068	17.067	0.001	7494996	0.08510	0.09135
8 PENTACHLOROPHENOL	17.344	17.345	-0.001	15701537	0.01064	0.01096
9 2,4,5-TP(SILVEX)	18.508	18.510	-0.002	16346286	0.02110	0.02233
10 2,4,5-T	19.161	19.163	-0.002	13701760	0.02110	0.02350
11 2,4-DB	19.680	19.682	-0.002	6186664	0.08450	0.09087
12 DINOSEB	20.343	20.345	-0.002	9560236	0.01270	0.01392

Data File: \\NPITPA02\chem\col.1\40504.b\A-340093.D
Date: 05-JUL-2000 19:58
Client ID:
Sample Info: Zndherb,40504.b
Column phase: DB1701

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

\\NPITPA02\chem\col.1\40504.b\A-340093.D



Data File: /var/chem/gc1.i/4050A.b/a-b40358.d
 Report Date: 26-Jul-2000 08:15

STL-PITTSBURGH

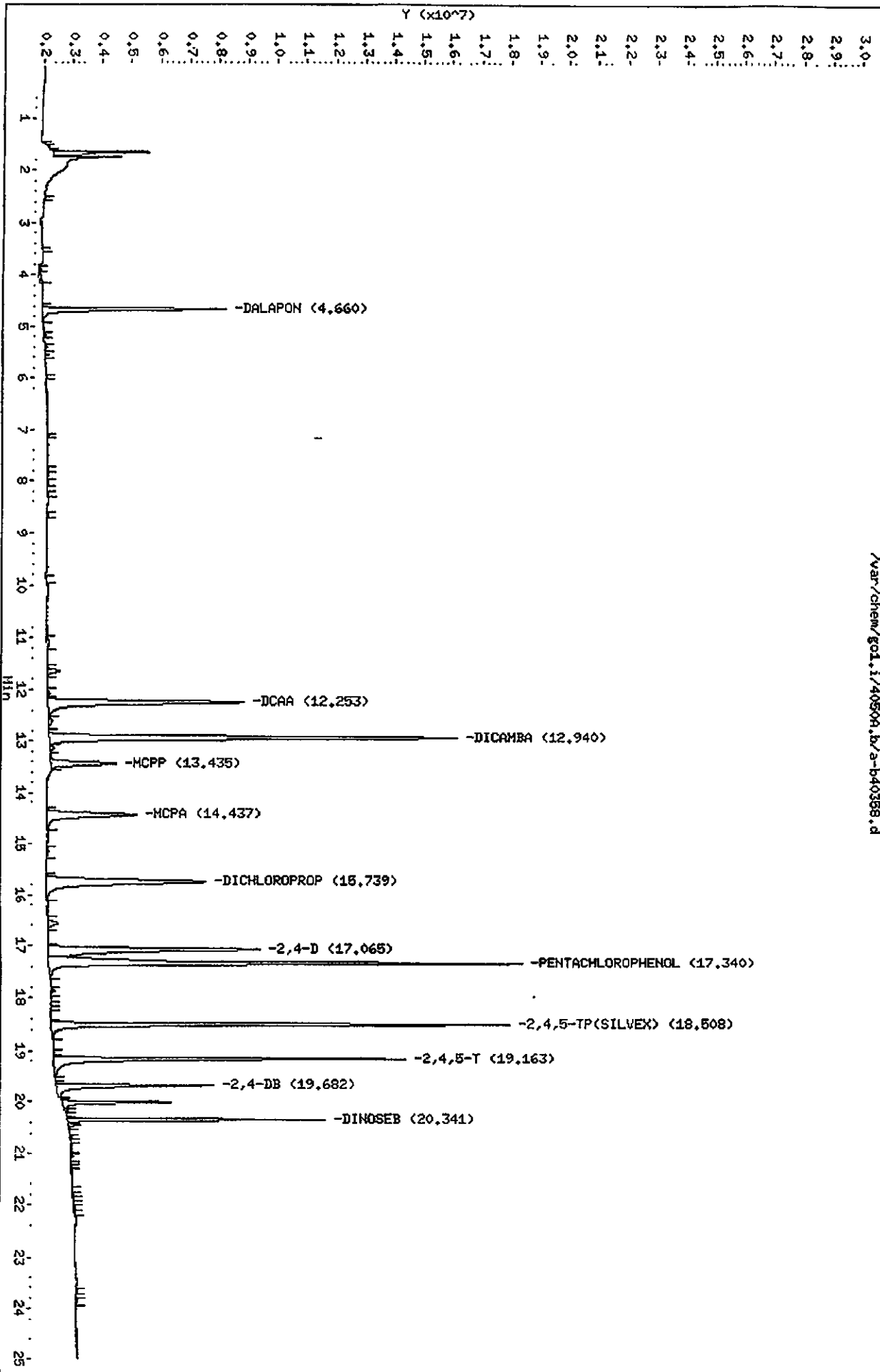
Data file : /var/chem/gc1.i/4050A.b/a-b40358.d
 Lab Smp Id: Mherb
 Inj Date : 25-JUL-2000 22:43
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g
 Cal Date : 05-JUL-2000 19:29
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-b40092.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.660	4.660	0.000	6265132	0.04390	0.04504
2 DCAA	12.253	12.259	-0.006	34334798	0.08510	0.08939
3 DICAMBA	12.940	12.943	-0.003	13895600	0.04250	0.04538
4 MCPP	13.435	13.442	-0.007	2239688	8.52000	8.698
5 MCPA	14.437	14.445	-0.008	3054212	8.56000	8.884
6 DICHLOROPROP	15.739	15.747	-0.008	5425980	0.08480	0.08899
7 2,4-D	17.065	17.069	-0.004	7241157	0.08510	0.08826
8 PENTACHLOROPHENOL	17.340	17.346	-0.006	16129224	0.01064	0.01126
9 2,4,5-TP(SILVEX)	18.508	18.511	-0.003	15592205	0.02110	0.02130
10 2,4,5-T	19.163	19.165	-0.002	12004356	0.02110	0.02059
11 2,4-DB	19.682	19.685	-0.003	5348495	0.08450	0.07856
12 DINOSBB	20.341	20.343	-0.002	8780153	0.01270	0.01278

Data File: /var/chem/gol.i/4050A.b/a-b40358.d
 Date: 28-JUL-2000 22:43
 Client ID:
 Sample Info: Herb,4050A.b
 Column phase: DB1701

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



Data File: /var/chem/gc1.i/4050A.b/a-b40368.d
 Report Date: 26-Jul-2000 08:15

STL-PITTSBURGH

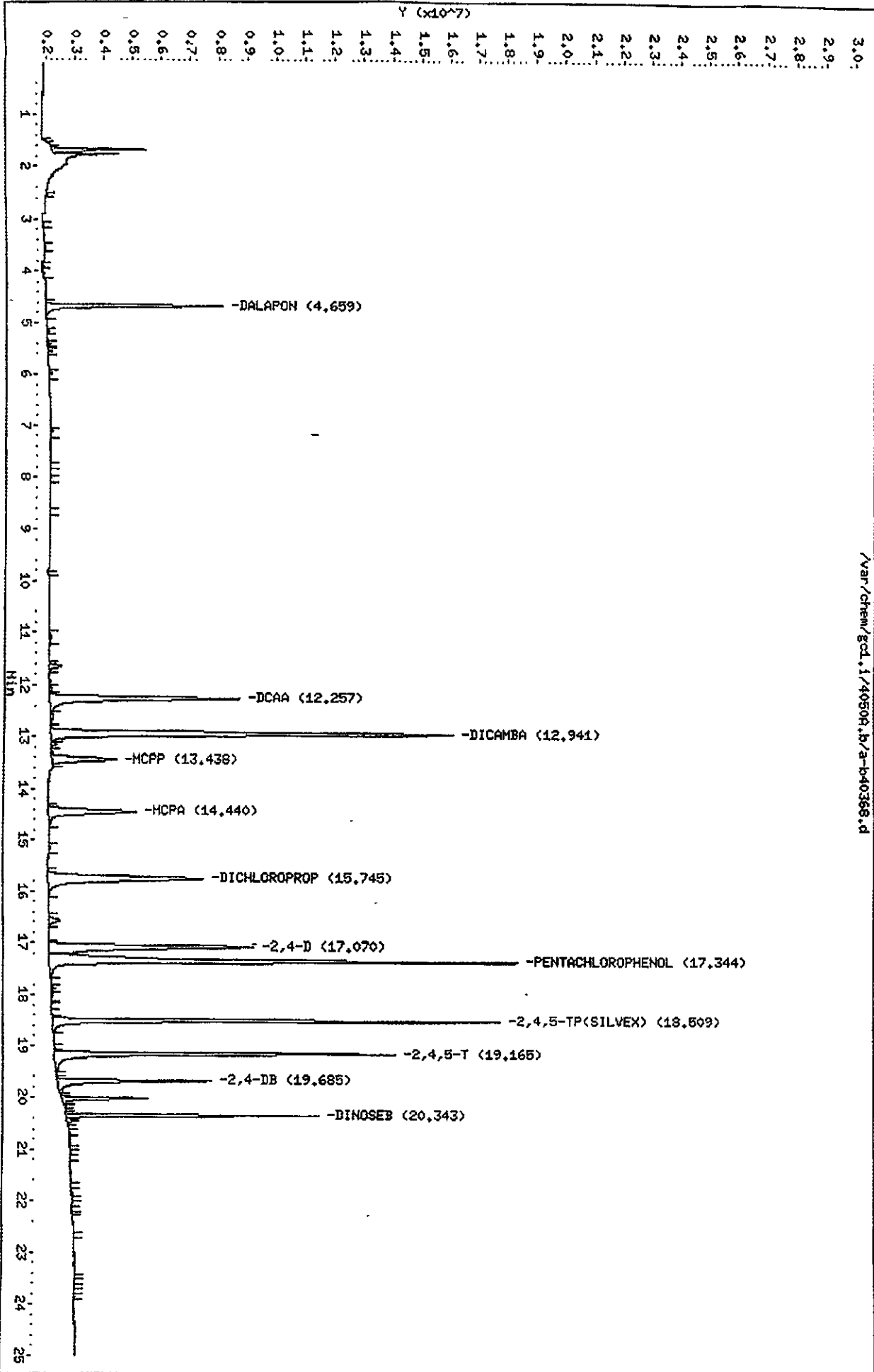
Data file : /var/chem/gc1.i/4050A.b/a-b40368.d
 Lab Smp Id: Mherb
 Inj Date : 26-JUL-2000 03:29
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g
 Cal Date : 05-JUL-2000 19:29
 Als bottle: 30
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-b40092.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.659	4.660	-0.001	6215599	0.04390	0.04468
2 DCAA	12.257	12.259	-0.002	34524835	0.08510	0.08988
3 DICAMBA	12.941	12.943	-0.002	13956783	0.04250	0.04558
4 MCPP	13.438	13.442	-0.004	2263293	8.52000	8.790
5 MCPA	14.440	14.445	-0.005	3056998	8.56000	8.892
6 DICHLOROPROP	15.745	15.747	-0.002	5412506	0.08480	0.08876
7 2,4-D	17.070	17.069	0.001	7118631	0.08510	0.08676
8 PENTACHLOROPHENOL	17.344	17.346	-0.002	16225742	0.01064	0.01133
9 2,4,5-TP(SILVEX)	18.509	18.511	-0.002	15545340	0.02110	0.02124
10 2,4,5-T	19.165	19.165	0.000	11800349	0.02110	0.02024
11 2,4-DB	19.685	19.685	0.000	5337367	0.08450	0.07840
12 DINOSEB	20.343	20.343	0.000	8772455	0.01270	0.01277

Data File: /var/chem/gcd.i/40509.b/a-b40368.d
Date: 26-JUL-2000 03:29
Client ID:
Sample Info: Herb.40509.b
Column phase: DB1701

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



664 1458

**HERBICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG240000 541

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGPN7101

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0206541

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

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

Data File: /var/chem/gc1.i/4050A.b/a-b40365.d
 Report Date: 26-Jul-2000 08:44

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40365.d
 Lab Smp Id: DGP7101 Client Smp ID: PBLK
 Inj Date : 26-JUL-2000 02:04
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DGP7101,4050A.b
 Misc Info : 130181BLK
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 26 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

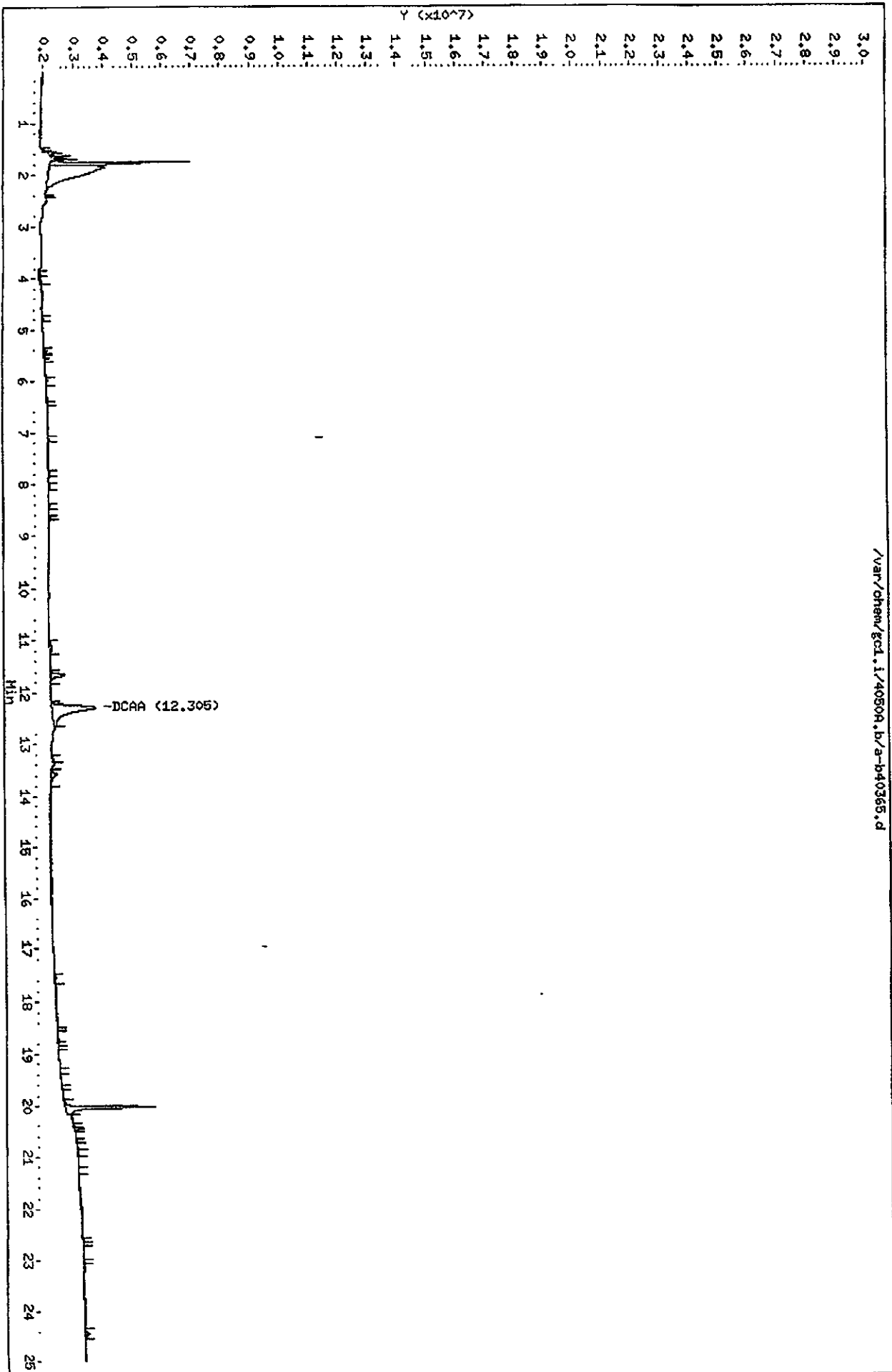
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	.							
\$ 2 DCAA	12	305	12.259	0.046	14941447	0.03890	7.780	
3 DICAMBA								
4 MCPP								
5 MCPA								
6 DICHLOROPROP								
7 2,4-D								
8 PENTACHLOROPHENOL								
9 2,4,5-TP(SILVEX)								
10 2,4,5-T								
11 2,4-DB								
12 DINOSEB								

Data File: /var/chem/gcd.1/4050R.b/a-b40365.d
Date: 26-JUL-2000 02:04
Client ID: PBLK
Sample Info: DCPH7101.4050R.b
Volume Injected (uL): 1.0
Column phase: DB1701

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

/var/chem/gcd.1/4050R.b/a-b40365.d



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

664 1462

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

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

Lab Sample ID: COG240000 541

Sample WT/Vol: 1000 / mL
Work Order: DGPN7102
Dilution factor: 1
Moisture %: NA

Date Received: 07/13/00
Date Extracted: 07/24/00
Date Analyzed: 07/26/00

QC Batch: 0206541

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	15.1	
93-72-1	2,4,5-TP (Silvex)	3.75	
93-76-5	2,4,5-T	3.60	
87-86-5	Pentachlorophenol	1.97	

Data File: /var/chem/gc1.i/4050A.b/a-b40366.d
 Report Date: 26-Jul-2000 08:44

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40366.d
 Lab Smp Id: DGPN7102 Client Smp ID: LCS
 Inj Date : 26-JUL-2000 02:32
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DGPN7102,4050A.b
 Misc Info : 130181LCS
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 27 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

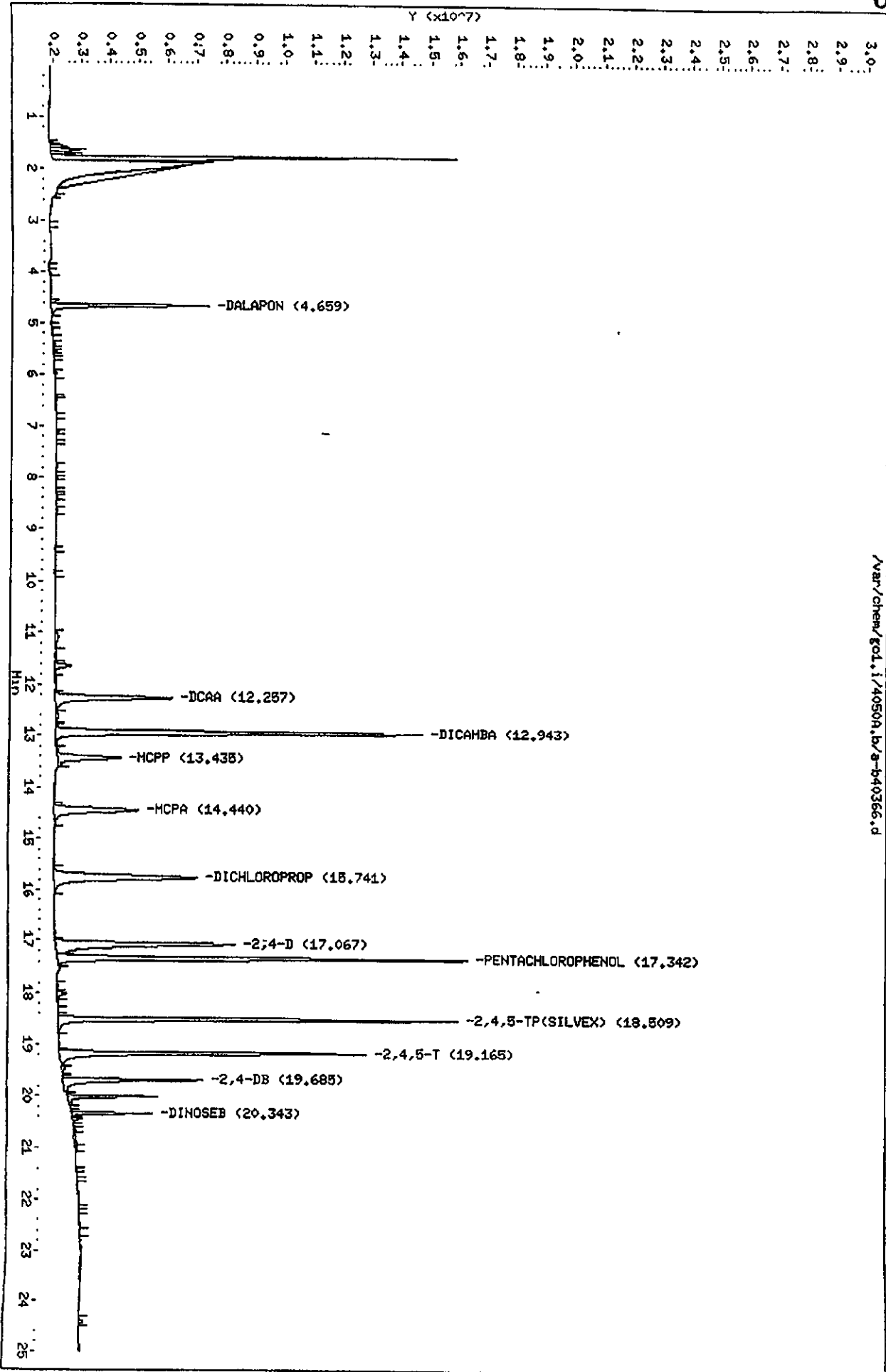
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.659	4.660	-0.001	5463294	0.03927	7.854
2 DCAA	12.257	12.259	-0.002	21332940	0.05554	11.11
3 DICAMBA	12.943	12.943	0.000	12611642	0.04119	8.238
4 MCPP	13.435	13.442	-0.007	2181758	8.47289	1694
5 MCPA	14.440	14.445	-0.005	2906078	8.45286	1690
6 DICHLOROPROP	15.741	15.747	-0.006	4923779	0.08075	16.15
7 2,4-D	17.067	17.069	-0.002	6191810	0.07547	15.09
8 PENTACHLOROPHENOL	17.342	17.346	-0.004	14105251	0.00985	1.970
9 2,4,5-TP(SILVEX)	18.509	18.511	-0.002	13737252	0.01877	3.754
10 2,4,5-T	19.165	19.165	0.000	10506492	0.01802	3.604
11 2,4-DB	19.685	19.685	0.000	4800484	0.07051	14.10
12 DINOSEB	20.343	20.343	0.000	2763901	0.00402	0.8047

Data File: /var/chem/gol.1/4050a.b/a-b40366.d
Date: 26-JUL-2000 02:32
Client ID: LCS
Sample Info: DCPN7102,4050A,b
Volume Injected (ul): 1.0
Column phase: DB1701

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

/var/chem/gol.1/4050a.b/a-b40366.d



UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG240000 541

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGPN7103

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0206541

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D		14.0
93-72-1	2,4,5-TP (Silvex)		3.44
93-76-5	2,4,5-T		3.33
87-86-5	Pentachlorophenol		1.85

Data File: /var/chem/gc1.i/4050A.b/a-b40367.d
 Report Date: 26-Jul-2000 08:44

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40367.d
 Lab Smp Id: DGPN7103 Client Smp ID: LCSD
 Inj Date : 26-JUL-2000 03:01
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DGPN7103,4050A.b
 Misc Info : 130181LCD
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 26-Jul-2000 08:14 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 28 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

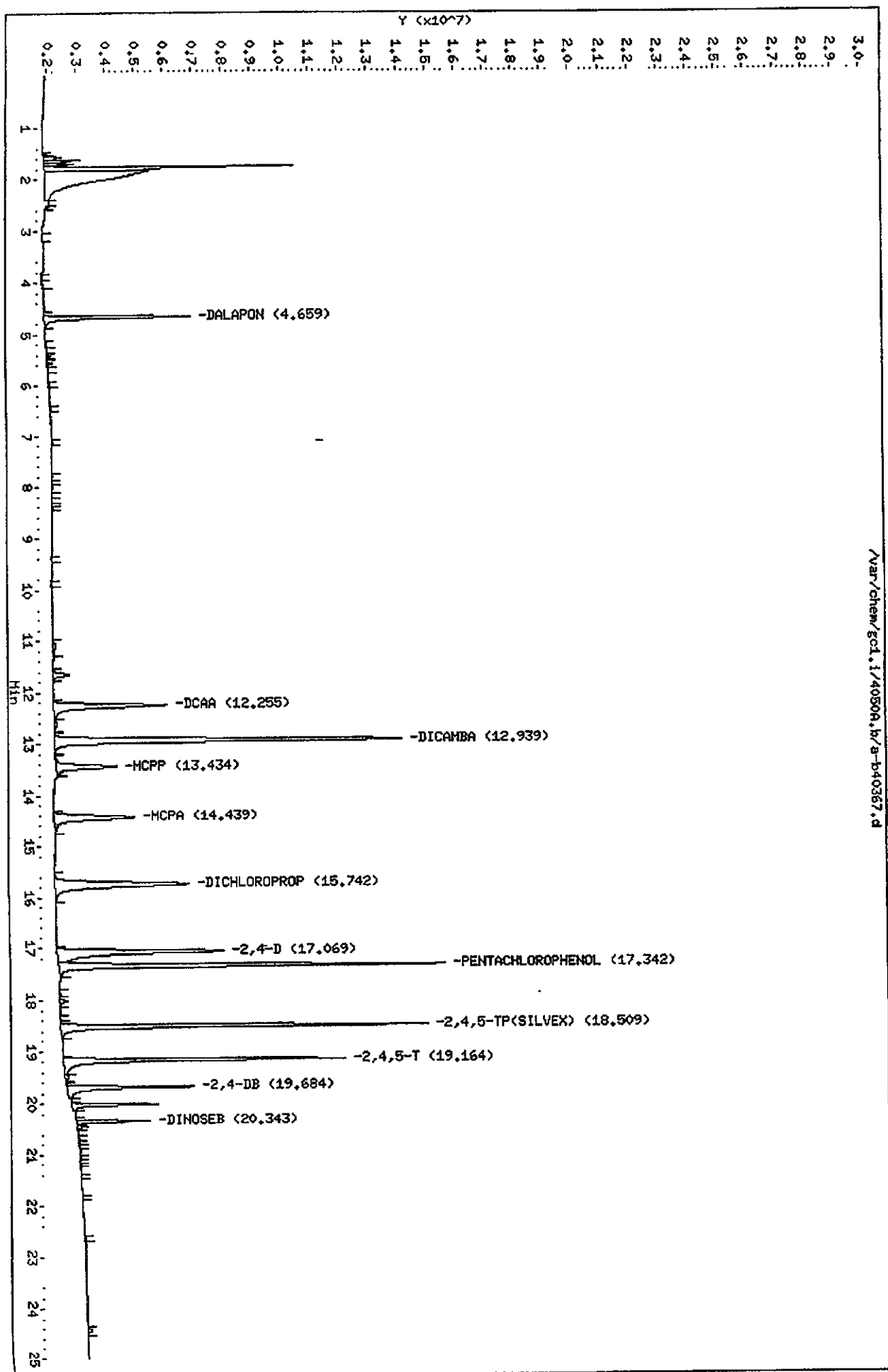
Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.659	4.660	-0.001	5063831	0.03640	7.280
2 DCAA	12.255	12.259	-0.004	20489171	0.05334	10.67
3 DICAMBA	12.939	12.943	-0.004	11887042	0.03882	7.764
4 MCPP	13.434	13.442	-0.008	2067562	8.02941	1606
5 MCPA	14.439	14.445	-0.006	2748068	7.99326	1599
6 DICHLOROPROP	15.742	15.747	-0.005	4614129	0.07567	15.12
7 2,4-D	17.069	17.069	0.000	5726920	0.06980	13.96
8 PENTACHLOROPHENOL	17.342	17.346	-0.004	13249086	0.00925	1.850
9 2,4,5-TP(SILVEX)	18.509	18.511	-0.002	12604182	0.01722	3.444
10 2,4,5-T	19.164	19.165	-0.001	9701377	0.01664	3.328
11 2,4-DB	19.684	19.685	-0.001	4344330	0.06381	12.76
12 DINOSEB	20.343	20.343	0.000	2560890	0.00373	0.7456

Data File: /var/chem/gc1.1/4050A.b/a-b40367.d
 Date: 26-JUL-2000 03:01
 Client ID: LCSD
 Sample Info: DCPN7103,4050A.b
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: gc1.1
 Operator: Q1797
 Column diameter: 0.53



664 1463

**HERBICIDE
MISCELLANEOUS**

Back
8151
ANALYSIS
664 1470

(12)

B

2	1	RINSE	
3	1	RINSE	
4	1	RINSE	
5	1	RINSE	
6	2	RINSE	
7	3	190-94-1	88
8	4	190-94-2	89
9	5	190-94-3	90
10	6	190-94-4	91
11	7	190-94-5	92
12	8	190-80-3	93
13	51	220175BLK	94
14	52	220175LCS	95
15	53	220175LCD	96
16	54	220175001	97
17	55	220175003	98
18	56	220175005	99
19	57	220175007	100
20	58	220175009	101
21	59	220175011	102
22	60	230222001	103
23	61	230222003	104
24	62	230222005	105
25	63	230222007	106
26	64	230222009	107
27	65	210119003	108
28	66	210119004	109
29	67	210119BLK	110
30	68	210119LCS	111
31	69	210119LCD	112

LM
CREATED: 7/5/00

✓
DE
7/11/00

OK um 7/12/00

369206444 50X
11549926 10X

32	70	190-94-3	113
33	100	190-94-3	129
34	9	300129BLK	130
35	14	300129004	131
36	15	300129005	132
37	16	300129006	133
38	100	190-94-3	134

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
1	1	HEXANE,4050A.b	HERBA	1	Sample		
2	1	HEXANE,4050A.b	HERBA	1	Sample		
3	1	HEXANE,4050A.b	HERBA	1	Sample		
4	1	HEXANE,4050A.b	HERBA	1	Sample		
5	1	HEXANE,4050A.b	HERBA	1	Sample		
6	2	HEXANE,4050A.b	HERBA	1	Sample		
7	3	Lherb,4050A.b	HERBA	1	Sample		
8	4	MLherb,4050A.b	HERBA	1	Sample		
9	5	Mherb,4050A.b	HERBA	1	Sample		
10	6	MHherb,4050A.b	HERBA	1	Sample		
11	7	Hherb,4050A.b	HERBA	1	Sample		
12	8	2ndherb,4050A.b	HERBA	1	Sample		
13	51	DFAXA101,4050A.b	HERBA	1	Sample		
14	52	DFAXA102,4050A.b	HERBA	1	Sample		
15	53	DFAXA103,4050A.b	HERBA	1	Sample		
16	54	DF4V411R,4050A.b	HERBA	1	Sample		
17	55	DF4VK11M,4050A.b	HERBA	1	Sample		
18	56	DF4W511M,4050A.b	HERBA	1	Sample		
19	57	DF4WF11R,4050A.b	HERBA	1	Sample		
20	58	DF4WT11R,4050A.b	HERBA	1	Sample		
21	59	DF4X811R,4050A.b	HERBA	1	Sample		
22	60	DF80E11M,4050A.b	HERBA	1	Sample		
23	61	DF80R11M,4050A.b	HERBA	1	Sample		
24	62	DF81111M,4050A.b	HERBA	1	Sample		
25	63	DF81511N,4050A.b	HERBA	1	Sample		
26	64	DF81L11N,4050A.b	HERBA	1	Sample		
27	65	DF272101,4050A.b	HERBA	1	Sample		
28	66	DF273101,4050A.b	HERBA	1	Sample		
29	67	DFAXC101,4050A.b	HERBA	1	Sample		
30	68	DFAXC102,4050A.b	HERBA	1	Sample		
31	69	DFAXC103,4050A.b	HERBA	1	Sample		
32	70	Mherb,4050A.b	HERBA	1	Sample		
33	100	Mherb,4050A.b	HERBA	1	Sample		
34	9	DFM1M101,4050.b	HERBA	1	Sample		
35	14	DFJXF102,4050.b	HERBA	1	Sample		
36	15	DFJXN102,4050.b	HERBA	1	Sample		
37	16	DFJXR102,4050.b	HERBA	1	Sample		
38	100	Mherb,4050A.b	HERBA	1	Sample		

664 1472

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

B

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	RINSE
2	1	RINSE
3	2	190-94-3 341
4	4	COG180137BLK
5	5	COG180137LCS
6	6	COG180137MS 004
7	7	COG180137MSD 004 345
8	8	COG180137004
9	9	COG130181BLK
10	10	COG130181LCS
11	11	COG130181MS 001
12	12	COG130181MSD 001 350
13	13	COG130181001
14	14	COG130181002
15	15	COG130181003
16	16	COG130181004
17	17	COG210148BLK 355
18	18	COG210148LCS
19	19	COG210148LCSD
20	29	190-94-3
21	20	COG210148003
22	21	COG130181005 360
23	22	COG200210001

664 1473

24 23 COG210148001 ✓
 25 24 COG210148002 ✓
 26 25 COG210169003 ✓
 27 26 COG130181BLK 365 ✓
 28 27 COG130181LCS
 29 28 COG130181LCSD
 30 30 190-94-3

✓ Conf. result

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
1	1	HEXANE,4050A.b	HERBA	1	Sample		
2	1	HEXANE,4050A.b	HERBA	1	Sample		
3	2	Mherb,4050A.b	HERBA	1	Sample		
4	4	DGM9G101,4050A.b	HERBA	1	Sample		
5	5	DGM9G102,4050A.b	HERBA	1	Sample		
6	6	DGD7P10J,4050A.b	HERBA	1	Sample		
7	7	DGD7P10K,4050A.b	HERBA	1	Sample		
8	8	DGD7P104,4050A.b	HERBA	1	Sample		
9	9	DGNL3101,4050A.b	HERBA	1	Sample		
10	10	DGNL3102,4050A.b	HERBA	1	Sample		
11	11	DG549138,4050A.b	HERBA	1	Sample		
12	12	DG549139,4050A.b	HERBA	1	Sample		
13	13	DG549137,4050A.b	HERBA	1	Sample		
14	14	DG55Q114,4050A.b	HERBA	1	Sample		
15	15	DG562114,4050A.b	HERBA	1	Sample		
16	16	DG565114,4050A.b	HERBA	1	Sample		
17	17	DGNL2101,4050A.b	HERBA	1	Sample		
18	18	DGNL2102,4050A.b	HERBA	1	Sample		
19	19	DGNL2103,4050A.b	HERBA	1	Sample		
20	29	Mherb,4050A.b	HERBA	1	Sample		
21	20	DGKT4102,4050A.b	HERBA	1	Sample		
22	21	DG568114,4050A.b	HERBA	1	Sample		
23	22	DGJ6M112,4050A.b	HERBA	1	Sample		
24	23	DGKQP102,4050A.b	HERBA	1	Sample		
25	24	DGKT2102,4050A.b	HERBA	1	Sample		
26	25	DGL10102,4050A.b	HERBA	1	Sample		
27	26	DGPN7101,4050A.b	HERBA	1	Sample		
28	27	DGPN7102,4050A.b	HERBA	1	Sample		
29	28	DGPN7103,4050A.b	HERBA	1	Sample		
30	30	Mherb,4050A.b	HERBA	1	Sample		

REQUESTED BY: YUSHINSC

METHOD: QS Herbicides (8151A)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
5D CLP1	DG568-1-14	___	252344	091133	I-0A-QS	COG130181	005		WATER	0	15
8E CLP1	DGJ6M-1-12	___	252341	399411	I-0A-QS	COG200210	001		WATER	0	13
9D,E	DGKQP-1-02	___	252339	413032	I-0A-QS	COG210148	001		WATER	0	4
9D,E	DGKT2-1-02	___	252340	413032	I-0A-QS	COG210148	002		WATER	0	4
9E C1PL	DGLD5-1-1E	___	252343	416241	I-0A-QS	COG210204	001		WATER	0	20
5R2,30L5,CS2B,S	DGL10-1-02	___	252342	394097	I-0A-QS	HOG210169	003		WATER	0	10

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<i>P. Yushinski</i>	<i>P. Yushinski</i>	7-24-00 154
<i>P. Yushinski</i>	<i>P. Yushinski</i>	7-24-00 2100

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

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/S1/201/WA/002	DGJ6M
DF/S1/201/WA/002D	DGJ6MD
DF/S1/201/WA/002S	DGJ6MS

Comments: UXB DUNN FIELD
 COG200210
 6010B, 7470A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
 Date: _____ Title: _____

REVIEWED BY: MTW
 DATE: 7-26-00

**METALS
RESULTS**

Metals Data Reporting Form

Sample Results

Lab Sample ID: DGJ6M Client ID: DF/S1/201/WA/002
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		1	ICP	7/24/00	12:56
Antimony	220.35	1.5	60.0	1.7	B	1	ICPST	7/24/00	9:25
Arsenic	189.04	2.6	10.0	4.8	B	1	ICPST	7/24/00	9:25
Barium	493.41	0.41	200	76.8	B	1	ICP	7/24/00	12:56
Beryllium	313.04	0.071	5.0	0.11	B	1	ICP	7/24/00	12:56
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	7/24/00	9:25
Calcium	317.93	37.9	5000	67800		1	ICP	7/24/00	12:56
Chromium	267.72	1.0	10.0	2.6	B	1	ICPST	7/24/00	9:25
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	7/24/00	12:56
Copper	324.75	2.2	25.0	9.8	B	1	ICP	7/24/00	12:56
Iron	259.94	8.8	100	661		1	ICP	7/24/00	12:56
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	7/24/00	9:25
Magnesium	279.08	19.9	5000	8230		1	ICP	7/24/00	12:56
Manganese	257.61	0.87	15.0	18.1		1	ICP	7/24/00	12:56
Nickel	231.60	6.1	40.0	6.1	U	1	ICP	7/24/00	12:56
Potassium	766.49	496	5000	1850	B	1	ICP	7/24/00	12:56
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	7/24/00	9:25
Silver	328.07	0.94	10.0	0.94	U	1	ICPST	7/24/00	9:25
Sodium	589	14.5	5000	55700		1	ICP	7/24/00	12:56
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	7/24/00	9:25
Vanadium	292.40	1.8	50.0	4.1	B	1	ICP	7/24/00	12:56
Zinc	213.86	3.1	20.0	15.4	B	1	ICP	7/24/00	12:56

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 1 Equivalent

664 1479

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DGJ6M Client ID: DF/S1/201/WA/002
Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/24/00	11:08

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

664 1480

Initial Calibration Verification Standard

Instrument: CVAA

Units: ug/L

Chart Number: 0724HGA.PRN

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: 0014-192-3

Element	WL/ Mass	True Conc	ICV5-1 7/24/00 10:38 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Mercury	253.7	2.5	2.52	100.8								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J00724A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-148-7

Element	WL/ Mass	True Conc	ICV2-1 7/24/00 10:51 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	25000.0	25184.54	100.7								
Barium	493.409	1000.0	987.06	98.7								
Beryllium	313.042	1000.0	975.65	97.6								
Calcium	317.933	25000.0	25409.65	101.6								
Cobalt	228.616	1000.0	997.91	99.8								
Copper	324.754	1000.0	984.47	98.4								
Iron	259.94	25000.0	26075.13	104.3								
Magnesium	279.079	25000.0	25304.79	101.2								
Manganese	257.61	1000.0	1000.12	100.0								
Nickel	231.604	1000.0	992.78	99.3								
Potassium	766.491	25000.0	25154.27	100.6								
Sodium	588.995	25000.0	24883.25	99.5								
Vanadium	292.402	1000.0	988.50	98.9								
Zinc	213.856	1000.0	1003.90	100.4								

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0014-183-4

Element	WL/ Mass	True Conc	ICV3-1 7/24/00 8:58 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	250.0	253.92	101.6								
Arsenic	189.042	250.0	252.74	101.1								
Cadmium	226.502	250.0	246.75	98.7								
Chromium	267.716	1000.0	999.80	100.0								
Lead	220.353	250.0	248.37	99.3								
Selenium	220.353	250.0	256.09	102.4								
Silver	328.068	500.0	502.15	100.4								
Thallium	190.864	500.0	502.23	100.4								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: 0724HGA.PRNAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-192-4

Element	WL/ Mass	True Conc	CCV5-1 7/24/00 10:41 AM		CCV5-2 7/24/00 11:01 AM		CCV5-3 7/24/00 11:21 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.06	101.2	5.10	102.0	5.20	104.0				

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00724A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-164-11

Element	WL/ Mass	True Conc	CCV2-1 7/24/00 11:24 AM		CCV2-2 7/24/00 11:59 AM		CCV2-3 7/24/00 12:37 PM		CCV2-4 7/24/00 1:08 PM		Found	% Rec
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec		
Aluminum	308.215	50000.0	50412.60	100.8	49622.21	99.2	50024.72	100.0	50005.73	100.0		
Barium	493.409	5000.0	4980.91	99.6	4867.37	97.3	4915.63	98.3	4927.92	98.6		
Beryllium	313.042	5000.0	4956.37	99.1	4909.96	98.2	4993.12	99.9	5024.04	100.5		
Calcium	317.933	50000.0	49899.81	99.8	50862.49	101.7	51707.67	103.4	51901.79	103.8		
Cobalt	228.616	5000.0	4932.97	98.7	4968.52	99.4	5030.74	100.6	5046.20	100.9		
Copper	324.754	5000.0	5003.05	100.1	4871.88	97.4	4916.40	98.3	4924.64	98.5		
Iron	259.94	50000.0	51431.65	102.9	51508.38	103.0	52214.50	104.4	52348.93	104.7		
Magnesium	279.079	50000.0	50595.36	101.2	49866.98	99.7	50419.36	100.8	50502.62	101.0		
Manganese	257.61	5000.0	4927.01	98.5	4952.87	99.1	5021.36	100.4	5034.07	100.7		
Nickel	231.604	5000.0	4959.78	99.2	4997.62	100.0	5114.04	102.3	5127.44	102.5		
Potassium	766.491	50000.0	50583.72	101.2	49095.23	98.2	49785.27	99.6	49601.82	99.2		
Sodium	588.995	50000.0	51255.50	102.5	49781.08	99.6	50414.12	100.8	50558.80	101.1		
Vanadium	292.402	5000.0	4945.24	98.9	4939.59	98.8	5007.64	100.2	5021.18	100.4		
Zinc	213.856	5000.0	4946.74	98.9	4945.18	98.9	4990.29	99.8	4971.53	99.4		

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00724A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-183-1

Element	WL/ Mass	True Conc	CCV3-1 7/24/00 9:51 AM		Found	%	Found	%	Found	%	Found	%
			Found	Rec								
Antimony	220.353	500.0	529.32	105.9								
Arsenic	189.042	500.0	526.45	105.3								
Cadmium	226.502	500.0	505.03	101.0								
Chromium	267.716	2000.0	2067.92	103.4								
Lead	220.353	500.0	512.98	102.6								
Selenium	220.353	500.0	533.45	106.7								
Silver	328.068	1000.0	1057.92	105.8								
Thallium	190.864	1000.0	1022.09	102.2								

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: 0724HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/24/00 10:40 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.2	0.0	U								

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP

Units: ug/L

Chart Number: J00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/24/00 10:54 AM		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	0.1	B								
Calcium	317.933	5000	37.9	U								
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	-12.0	B								
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								

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/24/00 9:02 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Antimony	220.353	60	1.5	U								
Arsenic	189.042	10	2.6	U								
Cadmium	226.502	5	0.5	U								
Chromium	267.716	10	1.0	U								
Lead	220.353	3	1.9	U								
Selenium	220.353	5	2.1	U								
Silver	328.068	10	0.9	U								
Thallium	190.864	10	3.9	U								

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0724HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/24/00 10:43 AM		CCB2 7/24/00 11:03 AM		CCB3 7/24/00 11:23 AM		Found	Q
			Found	Q	Found	Q	Found	Q		
Mercury	253.7	0.2	0.0	U	0.0	U	0.0	U		

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/24/00 11:27 AM		CCB2 7/24/00 12:02 PM		CCB3 7/24/00 12:40 PM		CCB4 7/24/00 1:11 PM			
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	12.7	U	26.3	B	38.9	B		
Barium	493.409	200	0.7	B	0.7	B	1.1	B	3.2	B		
Beryllium	313.042	5	0.7	B	0.8	B	0.9	B	3.0	B		
Calcium	317.933	5000	37.9	U	37.9	U	37.9	U	43.9	B		
Cobalt	228.616	50	3.2	U	3.2	U	3.2	U	3.5	B		
Copper	324.754	25	2.2	U	2.2	U	2.2	U	4.2	B		
Iron	259.94	100	8.8	U	8.8	U	9.9	B	30.5	B		
Magnesium	279.079	5000	19.9	U	19.9	U	19.9	U	44.0	B		
Manganese	257.61	15	0.9	U	0.9	U	1.5	B	3.5	B		
Nickel	231.604	40	-6.9	B	6.1	U	6.1	U	6.1	U		
Potassium	766.491	5000	496.0	U	496.0	U	617.0	B	592.0	B		
Sodium	588.995	5000	14.8	B	14.5	U	22.4	B	54.8	B		
Vanadium	292.402	50	1.8	U	1.9	B	4.0	B	4.0	B		
Zinc	213.856	20	3.1	U	3.1	U	3.1	U	3.3	B		

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/24/00 9:55 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Antimony	220.353	60	1.5	U								
Arsenic	189.042	10	2.6	U								
Cadmium	226.502	5	0.5	U								
Chromium	267.716	10	1.0	U								
Lead	220.353	3	1.9	U								
Selenium	220.353	5	2.1	U								
Silver	328.068	10	0.9	U								
Thallium	190.864	10	3.9	U								

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGKEMB Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148 Weight: 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	18.0	B	1	ICP	7/24/00	12:49
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	7/24/00	9:17
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	7/24/00	9:17
Barium	493.409	0.41	200	0.41	U	1	ICP	7/24/00	12:49
Beryllium	313.042	0.071	5.0	0.15	B	1	ICP	7/24/00	12:49
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	7/24/00	9:17
Calcium	317.933	37.9	5000	52.7	B	1	ICP	7/24/00	12:49
Chromium	267.716	1.0	10.0	1.0	U	1	ICPST	7/24/00	9:17
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	7/24/00	12:49
Copper	324.754	2.2	25.0	2.2	U	1	ICP	7/24/00	12:49
Iron	259.94	8.8	100	17.7	B	1	ICP	7/24/00	12:49
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	7/24/00	9:17
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	7/24/00	12:49
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	7/24/00	12:49
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	7/24/00	12:49
Potassium	766.491	496	5000	496	B	1	ICP	7/24/00	12:49
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	7/24/00	9:17
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	7/24/00	9:17
Sodium	588.995	14.5	5000	27.7	B	1	ICP	7/24/00	12:49
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	7/24/00	9:17
Vanadium	292.402	1.8	50.0	2.5	B	1	ICP	7/24/00	12:49
Zinc	213.856	3.1	20.0	5.5	B	1	ICP	7/24/00	12:49

Comments: Lot #: C0G200210

Version 3.63.5

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: DGNK1B

Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/24/00	10:45

Comments: Lot #: C0G200210

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPUnits: ug/LChart Number: J00724A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-170-1

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/24/00 10:57 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	500000					
Barium	493.409	200		2					
Beryllium	313.042	5		0					
Calcium	317.933		500000	483000					
Cobalt	228.616	50		10					
Copper	324.754	25		-8					
Iron	259.94		200000	186000					
Magnesium	279.079		500000	489000					
Manganese	257.61	15		5					
Nickel	231.604	40		-20					
Potassium	766.491	5000		-480					
Sodium	588.995	5000		8					
Vanadium	292.402	50		4					
Zinc	213.856	20		3					

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0014-170-1

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/24/00 9:06 AM				
				Found	Found	Found	Found	Found
Antimony	220.353	60		3				
Arsenic	189.042	10		1				
Cadmium	226.502	5		-2				
Chromium	267.716	10		4				
Lead	220.353	3		1				
Selenium	220.353	5		-8				
Silver	328.068	10		0				
Thallium	190.864	10		7				

Interference Check Standard AB

Instrument: ICP

Units: ug/L

Chart Number: J00724A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0014-187-1

Element	WL/ Mass	True Conc	ICSAB 7/24/00 11:00 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	487574.7	97.5								
Barium	493.409	500	457.3	91.5								
Beryllium	313.042	500	450.4	90.1								
Calcium	317.933	500000	476402.9	95.3								
Cobalt	228.616	500	445.6	89.1								
Copper	324.754	500	473.0	94.6								
Iron	259.94	200000	182712.3	91.4								
Magnesium	279.079	500000	477411.8	95.5								
Manganese	257.61	500	450.0	90.0								
Nickel	231.604	1000	871.9	87.2								
Potassium	766.491	10000	10054.6	100.5								
Sodium	588.995	10000	9941.5	99.4								
Vanadium	292.402	500	451.8	90.4								
Zinc	213.856	1000	925.5	92.5								

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: T00724A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0014-136-3

Element	WL/ Mass	True Conc	ICSAB 7/24/00 9:10 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Antimony	220.353	1000	1068.4	106.8								
Arsenic	189.042	1000	1043.9	104.4								
Cadmium	226.502	1000	946.4	94.6								
Chromium	267.716	500	510.2	102.0								
Lead	220.353	1000	986.9	98.7								
Selenium	220.353	1000	1056.1	105.6								
Silver	328.068	1000	1110.4	111.0								
Thallium	190.864	1000	1019.4	101.9								

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DGJ6MS
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002S
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		2710		2000	108.6	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Antimony	220.4	1.7	B	523		500	104.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Arsenic	189.0	4.8	B	2080		2000	103.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Barium	493.4	76.8	B	2040		2000	98.0	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Beryllium	313.0	0.11	B	49.8		50	99.3	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Cadmium	226.5	0.49	U	48.8		50	97.5	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Calcium	317.9	67800		120000		50000	103.5	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Chromium	267.7	2.6	B	208		200	102.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Cobalt	228.6	3.2	U	487		500	97.5	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Copper	324.8	9.8	B	255		250	98.2	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Iron	259.9	661		1760		1000	109.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Lead	220.4	1.9	U	501		500	100.1	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Magnesium	279.1	8230		59200		50000	101.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Manganese	257.6	18.1		509		500	98.1	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Nickel	231.6	6.1	U	502		500	100.3	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Potassium	766.5	1850	B	51800		50000	99.8	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Selenium	220.4	2.1	U	2070		2000	103.7	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Silver	328.1	0.94	U	52.4		50	104.9	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Sodium	589	55700		109000		50000	105.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Thallium	190.9	3.9	U	2010		2000	100.4	1	1	ICPST	7/24/00	9:25	7/24/00	9:33
Vanadium	292.4	4.1	B	495		500	98.1	1	1	ICP	7/24/00	12:56	7/24/00	13:02
Zinc	213.9	15.4	B	505		500	97.9	1	1	ICP	7/24/00	12:56	7/24/00	13:02

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DGJ6MD
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002D
 Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148
 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	533		2670		2000	106.8	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Antimony	220.4	1.7	B	512		500	102.1	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Arsenic	189.0	4.8	B	2050		2000	102.3	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Barium	493.4	76.8	B	2000		2000	96.3	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Beryllium	313.0	0.11	B	49.0		50	97.9	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Cadmium	226.5	0.49	U	48.1		50	96.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Calcium	317.9	67800		118000		50000	101.0	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Chromium	267.7	2.6	B	205		200	100.9	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Cobalt	228.6	3.2	U	483		500	96.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Copper	324.8	9.8	B	251		250	96.4	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Iron	259.9	661		1710		1000	104.7	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Lead	220.4	1.9	U	491		500	98.2	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Magnesium	279.1	8230		58500		50000	100.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Manganese	257.6	18.1		502		500	96.8	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Nickel	231.6	6.1	U	473		500	94.5	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Potassium	766.5	1850	B	51200		50000	98.7	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Selenium	220.4	2.1	U	2030		2000	101.4	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Silver	328.1	0.94	U	51.2		50	102.3	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Sodium	589	55700		107000		50000	102.4	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Thallium	190.9	3.9	U	1980		2000	98.8	1	1	ICPST	7/24/00	9:25	7/24/00	9:37
Vanadium	292.4	4.1	B	487		500	96.6	1	1	ICP	7/24/00	12:56	7/24/00	13:05
Zinc	213.9	15.4	B	491		500	95.1	1	1	ICP	7/24/00	12:56	7/24/00	13:05

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DGJ6MS
 Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002S
 Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.045	U	1.1		1	106.0	1	1	CVAA	7/24/00	11:08	7/24/00	11:10

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DGJ6MD

Original Sample ID: DGJ6M Client ID: DF/S1/201/WA/002D

Matrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.045	U	1.1		1	106.0	1	1	CVAA	7/24/00	11:08	7/24/00	11:12

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DGJ6MDMatrix Spike Sample ID: DGJ6MS Client ID: DF/SI/201/WA/002DMatrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148Weight: 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	2710		2670		1.7 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Antimony	220.353	523		512		2.0 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Arsenic	189.042	2080		2050		1.4 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Barium	493.409	2040		2000		1.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Beryllium	313.042	49.8		49.0		1.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Cadmium	226.502	48.8		48.1		1.3 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Calcium	317.933	120000		118000		2.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Chromium	267.716	208		205		1.8 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Cobalt	228.616	487		483		0.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Copper	324.754	255		251		1.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Iron	259.94	1760		1710		4.8 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Lead	220.353	501		491		2.0 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Magnesium	279.079	59200		58500		1.2 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Manganese	257.61	509		502		1.3 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Nickel	231.604	502		473		5.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Potassium	766.491	51800		51200		1.1 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Selenium	220.353	2070		2030		2.2 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Silver	328.068	52.4		51.2		2.5 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Sodium	588.995	109000		107000		3.4 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Thallium	190.864	2010		1980		1.6 %	1	1	ICPST	7/24/00	9:33	7/24/00	9:37
Vanadium	292.402	495		487		1.5 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05
Zinc	213.856	505		491		2.9 %	1	1	ICP	7/24/00	13:02	7/24/00	13:05

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

- 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

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DGJ6MDMatrix Spike Sample ID: DGJ6MS Client ID: DF/S1/201/WA/002DMatrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.1		1.1			1	1	CVAA	7/24/00	11:10	7/24/00	11:12

Comments: Lot #: C0G200210 Sample #: 1

Version 3.63.5

- 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: DGKEMCMatrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148Weight: 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	1950	97.5		80-120	1	ICP	7/24/00	12:52
Antimony	220.353	500	499	99.9		80-120	1	ICPST	7/24/00	9:21
Arsenic	189.042	2000	2010	100.6		80-120	1	ICPST	7/24/00	9:21
Barium	493.409	2000	1940	96.9		80-120	1	ICP	7/24/00	12:52
Beryllium	313.042	50.0	48.9	97.9		80-120	1	ICP	7/24/00	12:52
Cadmium	226.502	50.0	48.3	96.6		80-120	1	ICPST	7/24/00	9:21
Calcium	317.933	50000	51100	102.2		80-120	1	ICP	7/24/00	12:52
Chromium	267.716	200	201	100.5		80-120	1	ICPST	7/24/00	9:21
Cobalt	228.616	500	490	98.0		80-120	1	ICP	7/24/00	12:52
Copper	324.754	250	243	97.0		80-120	1	ICP	7/24/00	12:52
Iron	259.94	1000	1050	105.1		80-120	1	ICP	7/24/00	12:52
Lead	220.353	500	489	97.8		80-120	1	ICPST	7/24/00	9:21
Magnesium	279.079	50000	50200	100.5		80-120	1	ICP	7/24/00	12:52
Manganese	257.61	500	491	98.3		80-120	1	ICP	7/24/00	12:52
Nickel	231.604	500	498	99.6		80-120	1	ICP	7/24/00	12:52
Potassium	766.491	50000	48900	97.9		80-120	1	ICP	7/24/00	12:52
Selenium	220.353	2000	2010	100.4		80-120	1	ICPST	7/24/00	9:21
Silver	328.068	50.0	50.6	101.1		80-120	1	ICPST	7/24/00	9:21
Sodium	588.995	50000	49900	99.8		80-120	1	ICP	7/24/00	12:52
Thallium	190.864	2000	1970	98.7		80-120	1	ICPST	7/24/00	9:21
Vanadium	292.402	500	491	98.2		80-120	1	ICP	7/24/00	12:52
Zinc	213.856	500	485	96.9		80-120	1	ICP	7/24/00	12:52

Comments: Lot #: COG200210

Version 3.63.5

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DGNK1CMatrix: Water Units: ug/L Prep Date: 7/24/00 Prep Batch: 0206107Weight: 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	2.6	102.8		80-120	1	CVAA	7/24/00	10:46

Comments: Lot #: C0G200210

Version 3.63.5

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

Form 7 Equivalent

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DGJ6MPOriginal Sample ID: DGJ6M Client ID: DF/S1/201/WA/002Matrix: Water Units: ug/L Prep Date: 7/21/00 Prep Batch: 0203148Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	533		607	B		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Antimony	220.353	1.7	B	7.3	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Arsenic	189.042	4.8	B	12.8	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Barium	493.409	76.8	B	79.1	B	3.0 %	1	5	ICP	7/24/00	12:56	7/24/00	12:59
Beryllium	313.042	0.11	B	0.45	B		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Cadmium	226.502	0.49	U	2.5	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Calcium	317.933	67800		69400		2.4 %	1	5	ICP	7/24/00	12:56	7/24/00	12:59
Chromium	267.716	2.6	B	5.0	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Cobalt	228.616	3.2	U	16.1	U		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Copper	324.754	9.8	B	10.9	U		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Iron	259.94	661		685		3.6 %	1	5	ICP	7/24/00	12:56	7/24/00	12:59
Lead	220.353	1.9	U	9.5	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Magnesium	279.079	8230		8430	B	2.4 %	1	5	ICP	7/24/00	12:56	7/24/00	12:59
Manganese	257.61	18.1		18.8	B		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Nickel	231.604	6.1	U	30.7	U		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Potassium	766.491	1850	B	2480	U		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Selenium	220.353	2.1	U	10.5	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Silver	328.068	0.94	U	4.7	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Sodium	588.995	55700		56100		0.7 %	1	5	ICP	7/24/00	12:56	7/24/00	12:59
Thallium	190.864	3.9	U	19.4	U		1	5	ICPST	7/24/00	9:25	7/24/00	9:29
Vanadium	292.402	4.1	B	8.9	U		1	5	ICP	7/24/00	12:56	7/24/00	12:59
Zinc	213.856	15.4	B	20.3	B		1	5	ICP	7/24/00	12:56	7/24/00	12:59

Comments: _____

Version 3.63.5

U Result is less than the MDL

B Result is between MDL and RL

E Serial dilution percent difference not within limits

Form 9 Equivalent

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAAUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.045	3/20/00

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Aluminum	308.21	200	12.7	4/1/00
Barium	493.41	200	0.41	4/1/00
Beryllium	313.04	5	0.071	4/1/00
Calcium	317.93	5000	37.9	4/1/00
Cobalt	228.62	50	3.2	4/1/00
Copper	324.75	25	2.2	4/1/00
Iron	259.94	100	8.8	4/1/00
Magnesium	279.08	5000	19.9	4/1/00
Manganese	257.61	15	0.87	4/1/00
Nickel	231.60	40	6.1	4/1/00
Potassium	766.49	5000	496	4/1/00
Sodium	589.00	5000	14.5	4/1/00
Vanadium	292.40	50	1.8	4/1/00
Zinc	213.86	20	3.1	4/1/00

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Antimony	220.35	60	1.5	4/1/00
Arsenic	189.04	10	2.6	4/1/00
Cadmium	226.50	5	0.49	4/1/00
Chromium	267.72	10	1.0	4/1/00
Lead	220.35	3	1.9	4/1/00
Selenium	220.35	5	2.1	4/1/00
Silver	328.07	10	0.94	4/1/00
Thallium	190.86	10	3.9	4/1/00

Metals Data Reporting Form

Inter-Element Correction FactorsInstrument: ICP Date of IEC's: 6/22/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.008043), Mn(0.00002), Pb(0.000607)
Antimony	206.838	Ni(-0.000449), Pb(-0.001338), Sn(-0.004668)
Arsenic	193.696	Cd(0.011196)
Barium	493.409	Co(0.000506)
Beryllium	313.042	Cd(0.008625)
Cadmium	228.802	Co(0.002633)
Chromium	267.716	Pb(-0.000686), Sb(0.008213), V(-0.001979)
Cobalt	228.616	Al(-0.014067), B(0.00201), Cd(-0.004523), Cu(-0.00091), Pb(-0.027395), Sb(-0.003935), Tl(0.007862)
Copper	324.754	Zn(0.00466)
Iron	259.94	Ag(-0.000239), As(0.001198), B(-0.001921), Cd(-0.000034), Cu(-0.00008), Mn(-0.000288), Mo(-0.00015), Pb(0.000239), Se(-0.002635), Sn(-0.00019), Tl(0.010326), Zn(0.000098)
Manganese	257.61	Ag(0.000201), Tl(-0.005634)
Molybdenum	202.03	Al(0.008699), Cr(-0.000292), Mn(-0.00033), Sb(0.005808), V(-0.019318)
Nickel	231.604	Cd(-0.000409), Sb(-0.009092), Zn(0.003263)
Tin	189.989	Sb(0.002262)
Titanium	334.941	Co(0.001637), Fe(-0.003475), Sb(0.001696), Sn(0.003624)
Vanadium	292.402	Ag(-0.005069), Al(0.012877), As(0.017242), Be(0.00265), Cd(0.000094), Cr(0.000568), Sb(-0.003793), Si(-0.012762), Tl(0.007148), Zn(-0.004494)

Metals Data Reporting Form

Inter-Element Correction FactorsInstrument: ICPSTDate of IEC's: 7/14/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.000692), Se(0.00001), Tl(-0.00002)
Aluminum	308.215	Pb(-0.000278), Se(0.000011)
Chromium	267.716	Sb(0.009863)
Chromium	267.716	As(-0.003604), Sb(0.018266)
Cobalt	228.616	Se(-0.000324)
Cobalt	228.616	Cd(-0.000061), Fe(0.092519), Ni(-0.00066), Pb(0.000077), Se(0.000351), Tl(0.002179)
Iron	271.441	Cd(0.00006), Pb(0.000071), Sb(0.000019), Se(0.000005), Tl(-0.000034), V(-0.000349), Zn(0.000127)
Iron	271.441	Pb(0.000036), Sb(0.000021), Se(-0.00029)
Magnesium	279.078	Fe(-0.000306)
Manganese	257.61	Se(0.000579), Tl(-0.006029)
Molybdenum	202.03	Pb(-0.00068), Sb(-0.013818)
Molybdenum	202.03	Al(0.011136), As(-0.000847), Cr(-0.000312), Pb(-0.000502), Sb(-0.004716)
Nickel	231.604	Pb(0.000321), Sb(-0.000886), Zn(0.005465)
Nickel	231.604	Pb(0.000086)
Vanadium	292.402	Al(0.015519), Be(-0.00665), Cr(-0.000183), Fe(0.007812), Sb(-0.01101), Se(0.000216), Tl(0.001386)
Vanadium	292.402	Pb(-0.00027), Se(0.000099)

STL-Pittsburgh
Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: CVAA

Units: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/15/00

Metals Data Reporting Form

Linear Dynamic RangesInstrument: ICPUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	600000	4/5/00
Barium	493.41	100000	4/5/00
Beryllium	313.04	15000	4/5/00
Calcium	317.93	600000	4/5/00
Cobalt	228.62	100000	4/5/00
Copper	324.75	100000	4/5/00
Iron	259.94	400000	4/5/00
Magnesium	279.08	600000	4/5/00
Manganese	257.61	100000	4/5/00
Nickel	231.60	100000	4/5/00
Potassium	766.49	1000000	4/5/00
Sodium	589.00	400000	4/5/00
Vanadium	292.40	100000	4/5/00
Zinc	213.86	100000	4/5/00

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Antimony	220.35	10000	3/15/00
Arsenic	189.04	10000	3/15/00
Cadmium	226.50	5000	3/15/00
Chromium	267.72	20000	3/15/00
Lead	220.35	5000	3/15/00
Selenium	220.35	10000	3/15/00
Silver	328.07	2000	3/16/00
Thallium	190.86	10000	3/15/00

STL-Pittsburgh
Metals Data Reporting Form

664 1515

Preparation Log

Preparation Batch: 0203148 Instrument: ICP Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DGKEMB	7/21/00	NA	50	NA
DGKEMC	7/21/00	NA	50	NA
DGJ6M	7/21/00	NA	50	NA
DGJ6MD	7/21/00	NA	50	NA
DGJ6MS	7/21/00	NA	50	NA

STL-Pittsburgh
Metals Data Reporting Form

664 1516

Preparation Log

Preparation Batch: 0206107 Instrument: CVAA Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DGNK1B	7/24/00	NA	100	NA
DGNK1C	7/24/00	NA	100	NA
DGJ6M	7/24/00	NA	100	NA
DGJ6MD	7/24/00	NA	100	NA
DGJ6MS	7/24/00	NA	100	NA

STL-Pittsburgh
Metals Data Reporting Form

664 1517

Instrument Runlog

Instrument: CVAA

Chart Number: 0724HGA.PRN

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/24/00	10:27 AM
Std2Rep1	7/24/00	10:29 AM
Std3Rep1	7/24/00	10:30 AM
Std4Rep1	7/24/00	10:32 AM
Std5Rep1	7/24/00	10:33 AM
Std6Rep1	7/24/00	10:35 AM
ICV5-1	7/24/00	10:38 AM
ICB1	7/24/00	10:40 AM
CCV5-1	7/24/00	10:41 AM
CCB1	7/24/00	10:43 AM
DGNK1B	7/24/00	10:45 AM
DGNK1C	7/24/00	10:46 AM
ZZZZZZ	7/24/00	10:48 AM
ZZZZZZ	7/24/00	10:49 AM
ZZZZZZ	7/24/00	10:51 AM
ZZZZZZ	7/24/00	10:53 AM
ZZZZZZ	7/24/00	10:54 AM
ZZZZZZ	7/24/00	10:56 AM
ZZZZZZ	7/24/00	10:57 AM
ZZZZZZ	7/24/00	10:59 AM
CCV5-2	7/24/00	11:01 AM
CCB2	7/24/00	11:03 AM
ZZZZZZ	7/24/00	11:05 AM
ZZZZZZ	7/24/00	11:06 AM
DGJ6M	7/24/00	11:08 AM
DGJ6MS	7/24/00	11:10 AM
DGJ6MD	7/24/00	11:12 AM
ZZZZZZ	7/24/00	11:13 AM
ZZZZZZ	7/24/00	11:15 AM
ZZZZZZ	7/24/00	11:16 AM
ZZZZZZ	7/24/00	11:18 AM
ZZZZZZ	7/24/00	11:20 AM
CCV5-3	7/24/00	11:21 AM
CCB3	7/24/00	11:23 AM
ZZZZZZ	7/24/00	11:25 AM
ZZZZZZ	7/24/00	11:26 AM
ZZZZZZ	7/24/00	11:28 AM
ZZZZZZ	7/24/00	11:29 AM
ZZZZZZ	7/24/00	11:31 AM
ZZZZZZ	7/24/00	11:33 AM
ZZZZZZ	7/24/00	11:35 AM

STL-Pittsburgh
Metals Data Reporting Form

664 1518

Instrument Runlog

Instrument: CVAA

Chart Number: 0724HGA.PRN

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/24/00	11:36 AM
ZZZZZZ	7/24/00	11:38 AM
ZZZZZZ	7/24/00	11:39 AM
ZZZZZZ	7/24/00	11:41 AM
ZZZZZZ	7/24/00	11:43 AM
ZZZZZZ	7/24/00	11:44 AM
ZZZZZZ	7/24/00	11:45 AM
ZZZZZZ	7/24/00	11:47 AM

STL-Pittsburgh
Metals Data Reporting Form

664 1519

Instrument Runlog

Instrument: ICP

Chart Number: J00724A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/24/00	10:18 AM
ZZZZZZ	7/24/00	10:21 AM
ZZZZZZ	7/24/00	10:24 AM
ZZZZZZ	7/24/00	10:27 AM
ZZZZZZ	7/24/00	10:30 AM
STD1	7/24/00	10:41 AM
STD5A	7/24/00	10:44 AM
STD5B	7/24/00	10:47 AM
ICV2-1	7/24/00	10:51 AM
ICB1	7/24/00	10:54 AM
ICSA	7/24/00	10:57 AM
ICSAB	7/24/00	11:00 AM
ZZZZZZ	7/24/00	11:05 AM
ZZZZZZ	7/24/00	11:09 AM
ZZZZZZ	7/24/00	11:12 AM
ZZZZZZ	7/24/00	11:15 AM
ZZZZZZ	7/24/00	11:18 AM
ZZZZZZ	7/24/00	11:21 AM
CCV2-1	7/24/00	11:24 AM
CCB1	7/24/00	11:27 AM
ZZZZZZ	7/24/00	11:31 AM
ZZZZZZ	7/24/00	11:34 AM
ZZZZZZ	7/24/00	11:37 AM
ZZZZZZ	7/24/00	11:40 AM
ZZZZZZ	7/24/00	11:43 AM
ZZZZZZ	7/24/00	11:46 AM
ZZZZZZ	7/24/00	11:49 AM
ZZZZZZ	7/24/00	11:53 AM
ZZZZZZ	7/24/00	11:56 AM
CCV2-2	7/24/00	11:59 AM
CCB2	7/24/00	12:02 PM
ZZZZZZ	7/24/00	12:05 PM
ZZZZZZ	7/24/00	12:08 PM
ZZZZZZ	7/24/00	12:11 PM
ZZZZZZ	7/24/00	12:15 PM
ZZZZZZ	7/24/00	12:18 PM
ZZZZZZ	7/24/00	12:21 PM
ZZZZZZ	7/24/00	12:24 PM
ZZZZZZ	7/24/00	12:27 PM
ZZZZZZ	7/24/00	12:30 PM
ZZZZZZ	7/24/00	12:34 PM

STL-Pittsburgh
Metals Data Reporting Form

664 1520

Instrument Runlog

Instrument: ICP

Chart Number: J00724A.ARC

Sample Name	Date of Analysis	Time of Analysis
CCV2-3	7/24/00	12:37 PM
CCB3	7/24/00	12:40 PM
ZZZZZZ	7/24/00	12:43 PM
ZZZZZZ	7/24/00	12:46 PM
DGKEMB	7/24/00	12:49 PM
DGKEMC	7/24/00	12:52 PM
DGJ6M	7/24/00	12:56 PM
DGJ6MP	7/24/00	12:59 PM
DGJ6MS	7/24/00	1:02 PM
DGJ6MD	7/24/00	1:05 PM
CCV2-4	7/24/00	1:08 PM
CCB4	7/24/00	1:11 PM
ZZZZZZ	7/24/00	1:14 PM
ZZZZZZ	7/24/00	1:18 PM
ZZZZZZ	7/24/00	1:21 PM
ZZZZZZ	7/24/00	1:24 PM
ZZZZZZ	7/24/00	1:27 PM
ZZZZZZ	7/24/00	1:30 PM
ZZZZZZ	7/24/00	1:33 PM
ZZZZZZ	7/24/00	1:36 PM
ZZZZZZ	7/24/00	1:40 PM
ZZZZZZ	7/24/00	1:43 PM
ZZZZZZ	7/24/00	1:46 PM
ZZZZZZ	7/24/00	1:49 PM

STL-Pittsburgh
Metals Data Reporting Form

664 1521

Instrument Runlog

Instrument: ICPST

Chart Number: T00724A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/24/00	8:26 AM
ZZZZZZ	7/24/00	8:31 AM
STD1	7/24/00	8:46 AM
STD6	7/24/00	8:50 AM
STD7	7/24/00	8:54 AM
ICV3-1	7/24/00	8:58 AM
ICB1	7/24/00	9:02 AM
ICSA	7/24/00	9:06 AM
ICSAB	7/24/00	9:10 AM
DGKEMB	7/24/00	9:17 AM
DGKEMC	7/24/00	9:21 AM
DGJ6M	7/24/00	9:25 AM
DGJ6MP	7/24/00	9:29 AM
DGJ6MS	7/24/00	9:33 AM
DGJ6MD	7/24/00	9:37 AM
ZZZZZZ	7/24/00	9:42 AM
ZZZZZZ	7/24/00	9:46 AM
CCV3-1	7/24/00	9:51 AM
CCB1	7/24/00	9:55 AM
ZZZZZZ	7/24/00	9:59 AM
ZZZZZZ	7/24/00	10:03 AM
ZZZZZZ	7/24/00	10:07 AM
ZZZZZZ	7/24/00	10:11 AM
ZZZZZZ	7/24/00	10:15 AM
ZZZZZZ	7/24/00	10:20 AM
ZZZZZZ	7/24/00	10:24 AM
ZZZZZZ	7/24/00	10:28 AM
ZZZZZZ	7/24/00	10:32 AM
ZZZZZZ	7/24/00	10:36 AM
ZZZZZZ	7/24/00	10:40 AM
ZZZZZZ	7/24/00	10:45 AM
ZZZZZZ	7/24/00	10:49 AM
ZZZZZZ	7/24/00	10:53 AM
ZZZZZZ	7/24/00	10:57 AM
ZZZZZZ	7/24/00	11:01 AM
ZZZZZZ	7/24/00	11:05 AM
ZZZZZZ	7/24/00	11:09 AM
ZZZZZZ	7/24/00	11:14 AM
ZZZZZZ	7/24/00	11:18 AM
ZZZZZZ	7/24/00	11:22 AM
ZZZZZZ	7/24/00	11:26 AM

STL-Pittsburgh
Metals Data Reporting Form

664 1522

Instrument Runlog

Instrument: ICPST

Chart Number: T00724A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/24/00	11:30 AM
ZZZZZZ	7/24/00	11:34 AM
ZZZZZZ	7/24/00	11:39 AM
ZZZZZZ	7/24/00	11:43 AM
ZZZZZZ	7/24/00	11:47 AM
ZZZZZZ	7/24/00	11:51 AM
ZZZZZZ	7/24/00	11:55 AM
ZZZZZZ	7/24/00	11:59 AM
ZZZZZZ	7/24/00	12:04 PM
ZZZZZZ	7/24/00	12:08 PM
ZZZZZZ	7/24/00	12:12 PM
ZZZZZZ	7/24/00	12:16 PM
ZZZZZZ	7/24/00	12:20 PM
ZZZZZZ	7/24/00	12:24 PM
ZZZZZZ	7/24/00	12:28 PM
ZZZZZZ	7/24/00	12:33 PM
ZZZZZZ	7/24/00	12:37 PM
ZZZZZZ	7/24/00	12:41 PM

**METALS
RAW DATA**

Michael W. Wroblewski 7-24-00

#	Sample Name	AL	BA	BE	CA	CO	CU
1	STD1	.0082	0	.00245	.003	.00009	.00029
2	STD5A		4.04369	15.4987		1.4221	2.25044
3	STD5B	11.1302			24.5182		
4	ICV2-1 0014-148-7	25.185	.98706	.97565	25.410	.99791	.98447
5	ICB1	.01248	.00024	.00015	.00853	.00034	-.00022
6	ICSA 0014-170-1	500.26	.00168	.00005	482.95	.00958	-.00798
7	ICSAB 0014-187-1	487.57	.45727	.45036	476.40	.44555	.47301
8	DGKG7B	.08894	.00009	.00015	.09279	.00035	.00066
9	DGKG7C	2.1088	2.0601	.05224	L.03560	.52028	.26252
10	DGHDK	1.6772	.05238	.00002	4.1582	-.00108	.00022
11	DGHDKP5	.30972	.00927	.00006	.74959	.00000	-.00022
12	DGHDKS	3.6831	2.0457	.05124	4.2108	.51640	.25630
13	DGHDKD	3.6934	2.0909	.05251	4.1475	.52522	.26075
14	CCV2-1 0014-164-11	50.413	4.9809	4.9564	49.900	4.9330	5.0031
15	CCB1	.01101	.00074	.00067	.00435	-.00070	.00088
16	DGKGHB	.00353	.00044	.00034	.00206	.00035	.00000
17	DGKGHC	1.9218	1.9027	.04735	49.186	.47892	.23850
18	DG8GW	.29759	.05272	.00019	6.9749	.00315	.00378
19	DG8GWP5	.07236	.01088	.00010	1.4335	-.00036	.00066
20	DG8GWS	2.1987	1.9402	.04739	55.993	.47466	.24094
21	DG8GWD	2.2565	1.9939	.04884	56.816	.48804	.24828
22	DG8H3	.58396	.02811	.00015	21.881	.00599	.01089
23	DG8H6	.40246	.02547	.00051	3.0541	.01199	.00201
24	DG8HA	.57324	.02742	.00012	22.760	.00528	.01244
25	CCV2-2	49.622	4.8674	4.9100	50.862	4.9685	4.8719
26	CCB2	.00613	.00071	.00083	.00430	.00106	.00111
27	DGHDCBW	.00896	.00005	.00019	.01276	-.00035	-.00110
28	DGJ66BW	.02201	.00086	.00009	.28631	.00035	.00133
29	DGHDCCW	1.9319	1.8978	.04790	49.723	.47678	.23695
30	DS12C01CSW	.56903	.02158	.00009	51.864	-.00072	.00270
31	DS12C01CSP5W	.11369	.00434	.00009	10.706	.00000	.00045
32	DS12C01CSSW	2.6435	1.9069	.04765	100.08	.46371	.23786
33	DS12C01CSDW	2.6533	1.9053	.04784	100.18	.46477	.23720
34	DS13C01CSW	30.761	.12699	.00136	34.193	.01031	.01785
35	DSDUP02W	24.934	.10046	.00098	20.675	.00740	.01223
36	193C02CSW2W	2.2994	.01995	.00017	26.949	.00204	.00196
37	CCV2-3	50.025	4.9156	4.9931	51.708	5.0307	4.9164
38	CCB3	.02634	.00113	.00092	.03366	.00176	.00111
39	193C04CSW3W	13.407	.06153	.00073	25.356	.00247	.00655
40	193C05CSN3W	.33074	.01187	.00011	28.922	-.00072	.00026
41	DGKEMB	.01797	.00014	.00015	.05268	.00176	.00022
42	DGKEMC	1.9506	1.9375	.04894	51.080	.49016	.24251
43	DGJ6M	.53263	.07679	.00011	67.800	.00136	.00982
44	DGJ6MP5	.12135	.01582	.00009	13.879	-.00071	.00112
45	DGJ6MS	2.7054	2.0377	.04977	119.55	.48727	.25522
46	DGJ6MD	2.6677	2.0022	.04904	118.29	.48306	.25077
47	CCV2-4	50.006	4.9279	5.0240	51.902	5.0462	4.9246
48	CCB4	.03894	.00316	.00303	.04394	.00351	.00422
49	DGKFEB	.01163	.00024	.00045	.00303	-.00176	-.00044
50	DGKFEC	1.9305	1.9214	.04905	50.469	.48595	.23984
51	DGHAK	.23732	.07978	.00024	26.316	.00525	.00760
52	DGHAL	.45940	.01923	.00019	11.568	.00068	.02130
53	DGHAQ	.07500	.00341	.00006	4.5920	-.00212	.00468

#	Sample Name	AL	BA	BE	CA	CO	CU
54	DGHAR	.10645	.05888	.00005	32.557	-.00143	.08528
55	DGHC0	.28458	.08094	.00019	23.177	.00383	.01457
56	DGHC0P5	.07055	.01639	.00012	4.7845	.00034	.00291
57	DGHC0S	2.2694	2.0372	.05063	74.651	.49860	.25975
58	DGHC0D	2.2186	1.9969	.04963	73.471	.48486	.25440
59	CCV2-5	50.104	4.9381	5.0662	52.074	5.0889	4.9407
60	CCB5	.02144	.00125	.00145	.01071	-.00035	.00044
#	Sample Name	FE	K_	MG	MN	NA	NI
1	STD1	.00044	-.0405	.00014	0	.057	.00115
2	STD5A				2.01335		1.67938
3	STD5B	29.7198	2.35789	7.3863		44.9832	
4	ICV2-1 0014-148-7	26.075	25.154	25.305	1.0001	24.883	.99278
5	ICB1	.00403	.08547	.00270	.00025	.00523	-.01218
6	ICSA 0014-170-1	185.93	-.47948	489.19	.00505	.00745	-.02010
7	ICSAB 0014-187-1	182.71	10.055	477.41	.45004	9.9415	.87189
8	DGKG7B	.03667	.40235	.08191	.00050	.00523	-.00940
9	DGKG7C	1.1173	L.18554	L.02098	.51988	L.00645	.51934
10	DGHDK	.02355	-.16052	.19699	.15166	10.839	-.00970
11	DGHDKP5	.00235	.10840	.03317	.02804	1.9867	-.00560
12	DGHDKS	1.1079	.27726	.19563	.66260	10.570	.51237
13	DGHDKD	1.1277	.58163	.19292	.67179	10.391	.53231
14	CCV2-1 0014-164-11	51.432	50.584	50.595	4.9270	51.256	4.9598
15	CCB1	.00740	.28977	.00609	.00075	.01480	-.00694
16	DGKGHB	.02220	.33980	.00270	.00025	.07690	-.01140
17	DGKGHC	1.0224	48.451	49.024	.47971	48.706	.48529
18	DG8GW	.04576	3.1333	1.2395	.08044	4.9630	-.00132
19	DG8GWP5	.00942	.63792	.25249	.01638	1.0147	-.00195
20	DG8GWS	1.0532	51.094	50.283	.55295	53.739	.47328
21	DG8GWD	1.0876	52.093	50.974	.56687	54.386	.49409
22	DG8H3	.12887	10.795	4.5254	.13284	14.213	.00536
23	DG8H6	.04105	1.8846	.79066	.06877	2.9186	-.00471
24	DG8HA	.11423	11.162	4.6587	.13383	14.655	.00563
25	CCV2-2	51.508	49.095	49.867	4.9529	49.781	4.9976
26	CCB2	.00774	.24599	.00338	.00050	.00790	-.00280
27	DGHDCBW	.00757	-.00625	-.00609	.00049	.01079	-.00710
28	DGJ66BW	.00690	.34189	.05618	.00049	2.1884	-.00737
29	DGHDCCW	1.0311	47.784	49.042	.47823	51.024	.46890
30	DS12C01CSW	.48792	.52326	3.1600	.00534	22.705	-.00523
31	DS12C01CSP5W	.09943	.25225	.63429	.00176	4.5748	-.00716
32	DS12C01CSSW	1.4874	48.609	51.860	.47512	71.866	.46833
33	DS12C01CSDW	1.4993	48.155	51.639	.47711	71.364	.47530
34	DS13C01CSW	28.821	4.6885	5.7134	.26066	53.369	.01762
35	DSDUP02W	22.374	3.4815	4.3670	.16681	43.641	.01779
36	193C02CSW2W	2.2805	1.1904	1.8162	.01377	17.350	-.00688
37	CCV2-3	52.215	49.785	50.419	5.0214	50.414	5.1140
38	CCB3	.00993	.61707	.01353	.00149	.02237	-.00449
39	193C04CSW3W	12.519	2.1160	3.1701	.07533	16.727	.00295
40	193C05CSN3W	.48707	.45446	1.3830	.00237	8.8888	-.00880
41	DGKEMB	.01766	.49616	.00135	.00050	.02771	-.00194
42	DGKEMC	1.0513	48.933	50.244	.49140	49.893	.49779
43	DGJ6M	.66071	1.8471	8.2316	.01805	55.707	-.00498

#	Sample Name	FE	K_	MG	MN	NA	NI
44	DGJ6MP5	.13695	.37941	1.6856	.00376	11.222	-.00652
45	DGJ6MS	1.7595	51.753	59.172	.50847	108.68	.50160
46	DGJ6MD	1.7076	51.207	58.544	.50200	106.92	.47266
47	CCV2-4	52.349	49.602	50.503	5.0341	50.559	5.1274
48	CCB4	.03046	.59206	.04400	.00348	.05475	-.00255
49	DGKFEB	.01177	-.06879	-.00541	.00050	.01580	-.00509
50	DGKFEC	1.0429	48.822	49.979	.48568	49.884	.48700
51	DGHAK	3.3675	6.9567	4.0441	1.6732	109.22	-.00313
52	DGHAL	2.6434	1.5218	1.9828	.43893	9.9865	.00874
53	DGHAQ	.25892	1.3613	.84279	.23045	5.6719	-.00823
54	DGHAR	.42127	2.9624	8.3582	.16297	35.266	.00099
55	DGHC0	1.7140	6.8858	3.4673	1.3302	129.10	-.00729
56	DGHC0P5	.35246	1.6761	.70875	.27566	25.808	-.00521
57	DGHC0S	2.7331	56.788	54.088	1.8149	180.44	.50181
58	DGHC0D	2.6807	55.950	53.486	1.7751	177.05	.48439
59	CCV2-5	52.476	49.698	50.768	5.0515	50.705	5.1641
60	CCB5	.01952	.03335	.00000	.00174	.02904	-.00110

#	Sample Name	V_	ZN
1	STD1	0	.0003
2	STD5A	1.59494	1.50907
3	STD5B		
4	ICV2-1 0014-148-7	.98850	1.0039
5	ICB1	.00141	.00088
6	ICSA 0014-170-1	.00378	.00249
7	ICSAB 0014-187-1	.45184	.92545
8	DGKG7B	.00255	.00314
9	DGKG7C	.50238	.52386
10	DGHDK	.00249	.00262
11	DGHDKP5	.00122	.00033
12	DGHDKS	.49999	.51786
13	DGHDKD	.51079	.52733
14	CCV2-1 0014-164-11	4.9452	4.9467
15	CCB1	.00166	.00160
16	DGKGHB	.00252	.00155
17	DGKGHC	.48025	.48071
18	DG8GW	.00012	.16609
19	DG8GWP5	-.00117	.03503
20	DG8GWS	.47535	.63499
21	DG8GWD	.48947	.65085
22	DG8H3	.00141	.12480
23	DG8H6	.00250	.01149
24	DG8HA	.00004	.12946
25	CCV2-2	4.9396	4.9452
26	CCB2	.00187	.00085
27	DGHDCBW	.00004	-.00024
28	DGJ66BW	.00033	.00878
29	DGHDCCW	.47941	.48069
30	DS12C01CSW	.00260	.01544
31	DS12C01CSP5W	.00009	.00372
32	DS12C01CSSW	.47682	.47742
33	DS12C01CSDW	.47695	.48147

#	Sample Name	V_	ZN
34	DS13C01CSW	.06995	.10868
35	DSDUP02W	.05518	.09898
36	193C02CSW2W	.00747	.01737
37	CCV2-3	5.0076	4.9903
38	CCB3	.00402	.00194
39	193C04CSW3W	.02837	.05199
40	193C05CSN3W	.00503	.00516
41	DGKEMB	.00245	.00551
42	DGKEMC	.49094	.48453
43	DGJ6M	.00411	.01541
44	DGJ6MP5	.00002	.00405
45	DGJ6MS	.49456	.50471
46	DGJ6MD	.48712	.49089
47	CCV2-4	5.0212	4.9715
48	CCB4	.00404	.00330
49	DGKFEB	.00006	.00060
50	DGKFEC	.48497	.47596
51	DGHAK	.00383	.10180
52	DGHAL	.00015	.18049
53	DGHAQ	.00127	.06042
54	DGHAR	.00315	.05076
55	DGHC0	.00128	.04413
56	DGHC0P5	.00125	.00967
57	DGHC0S	.49704	.52839
58	DGHC0D	.48556	.53319
59	CCV2-5	5.0457	4.9848
60	CCB5	-.00091	.00177

MTW 7-24-00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	J00724A	QUANMET	07/24/00	10:41		X	IR
2	STD5A	J00724A	QUANMET	07/24/00	10:44		X	IR
3	STD5B	J00724A	QUANMET	07/24/00	10:47		X	IR
4	ICV2-1 0014-148-7	J00724A	QUANMET	07/24/00	10:51	MTW	S	CONC
5	ICB1	J00724A	QUANMET	07/24/00	10:54	MTW	S	CONC
6	ICSA 0014-170-1	J00724A	QUANMET	07/24/00	10:57	MTW	Q	CONC
7	ICSAB 0014-187-1	J00724A	QUANMET	07/24/00	11:00	MTW	Q	CONC
8	DGKG7B	J00724A	QUANMET	07/24/00	11:05	MTW	S	CONC
9	DGKG7C	J00724A	QUANMET	07/24/00	11:09	MTW	S	CONC
10	DGHDK	J00724A	QUANMET	07/24/00	11:12	MTW	S	CONC
11	DGHDKP5	J00724A	QUANMET	07/24/00	11:15	MTW	S	CONC
12	DGHDKS	J00724A	QUANMET	07/24/00	11:18	MTW	S	CONC
13	DGHDKD	J00724A	QUANMET	07/24/00	11:21	MTW	S	CONC
14	CCV2-1 0014-164-11	J00724A	QUANMET	07/24/00	11:24	MTW	S	CONC
15	CCB1	J00724A	QUANMET	07/24/00	11:27	MTW	S	CONC
16	DGKGHB	J00724A	QUANMET	07/24/00	11:31	MTW	S	CONC
17	DGKGHC	J00724A	QUANMET	07/24/00	11:34	MTW	S	CONC
18	DG8GW	J00724A	QUANMET	07/24/00	11:37	MTW	S	CONC
19	DG8GWP5	J00724A	QUANMET	07/24/00	11:40	MTW	S	CONC
20	DG8GWS	J00724A	QUANMET	07/24/00	11:43	MTW	S	CONC
21	DG8GWD	J00724A	QUANMET	07/24/00	11:46	MTW	S	CONC
22	DG8H3	J00724A	QUANMET	07/24/00	11:49	MTW	S	CONC
23	DG8H6	J00724A	QUANMET	07/24/00	11:53	MTW	S	CONC
24	DG8HA	J00724A	QUANMET	07/24/00	11:56	MTW	S	CONC
25	CCV2-2	J00724A	QUANMET	07/24/00	11:59	MTW	S	CONC
26	CCB2	J00724A	QUANMET	07/24/00	12:02	MTW	S	CONC
27	DGHDCBW	J00724A	QUANMET	07/24/00	12:05	MTW	S	CONC
28	DGJ66BW	J00724A	QUANMET	07/24/00	12:08	MTW	S	CONC
29	DGHDCCW	J00724A	QUANMET	07/24/00	12:11	MTW	S	CONC
30	DS12C01CSW	J00724A	QUANMET	07/24/00	12:15	MTW	S	CONC
31	DS12C01CSP5W	J00724A	QUANMET	07/24/00	12:18	MTW	S	CONC
32	DS12C01CSSW	J00724A	QUANMET	07/24/00	12:21	MTW	S	CONC
33	DS12C01CSDW	J00724A	QUANMET	07/24/00	12:24	MTW	S	CONC
34	DS13C01CSW	J00724A	QUANMET	07/24/00	12:27	MTW	S	CONC
35	DSDUP02W	J00724A	QUANMET	07/24/00	12:30	MTW	S	CONC
36	193C02CSW2W	J00724A	QUANMET	07/24/00	12:34	MTW	S	CONC
37	CCV2-3	J00724A	QUANMET	07/24/00	12:37	MTW	S	CONC
38	CCB3	J00724A	QUANMET	07/24/00	12:40	MTW	S	CONC
39	193C04CSW3W	J00724A	QUANMET	07/24/00	12:43	MTW	S	CONC
40	193C05CSN3W	J00724A	QUANMET	07/24/00	12:46	MTW	S	CONC
41	DGKEMB	J00724A	QUANMET	07/24/00	12:49	MTW	S	CONC
42	DGKEMC	J00724A	QUANMET	07/24/00	12:52	MTW	S	CONC
43	DGJ6M	J00724A	QUANMET	07/24/00	12:56	MTW	S	CONC
44	DGJ6MP5	J00724A	QUANMET	07/24/00	12:59	MTW	S	CONC
45	DGJ6MS	J00724A	QUANMET	07/24/00	13:02	MTW	S	CONC
46	DGJ6MD	J00724A	QUANMET	07/24/00	13:05	MTW	S	CONC
47	CCV2-4	J00724A	QUANMET	07/24/00	13:08	MTW	S	CONC
48	CCB4	J00724A	QUANMET	07/24/00	13:11	MTW	S	CONC
49	DGKFEB	J00724A	QUANMET	07/24/00	13:14	MTW	S	CONC
50	DGKFEC	J00724A	QUANMET	07/24/00	13:18	MTW	S	CONC
51	DGHAK	J00724A	QUANMET	07/24/00	13:21	MTW	S	CONC
52	DGHAL	J00724A	QUANMET	07/24/00	13:24	MTW	S	CONC
53	DGHAQ	J00724A	QUANMET	07/24/00	13:27	MTW	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DGHAR	J00724A	QUANMET	07/24/00	13:30	MTW	S	CONC
55	DGHC0	J00724A	QUANMET	07/24/00	13:33	MTW	S	CONC
56	DGHC0P5	J00724A	QUANMET	07/24/00	13:36	MTW	S	CONC
57	DGHC0S	J00724A	QUANMET	07/24/00	13:40	MTW	S	CONC
58	DGHC0D	J00724A	QUANMET	07/24/00	13:43	MTW	S	CONC
59	CCV2-5	J00724A	QUANMET	07/24/00	13:46	MTW	S	CONC
60	CCB5	J00724A	QUANMET	07/24/00	13:49	MTW	S	CONC

Method: QUANMET Standard: STD1

Run Time: 07/24/00 10:41:38

Elem	AG	AL	AS	B _u	BA	BE	CA
Avge	-.00080	.00820	-.00060	.00050	-.00001	.00245	.00301
SDev	.00016	.00063	.00107	.00100	.00002	.00010	.00095
%RSD	20.412	7.7129	178.47	200.00	200.00	4.0816	31.575
#1	-.00080	.00840	.00080	.00000	.00000	.00260	.00387
#2	-.00080	.00760	-.00180	.00000	-.00004	.00240	.00169
#3	-.00060	.00900	-.00060	.00200	.00000	.00240	.00298
#4	-.00100	.00780	-.00080	.00000	.00000	.00240	.00349
Elem	CD	CO	CR	CU	FE	K _u	LI
Avge	.00007	.00010	.00060	.00030	.00045	-.04050	.00030
SDev	.00012	.00020	.00091	.00042	.00055	.01383	.00040
%RSD	164.43	200.00	151.54	138.78	122.39	34.141	131.65
#1	.00008	.00040	.00140	.00080	-.00020	-.02200	.00075
#2	-.00008	.00000	-.00060	-.00020	.00020	-.05520	-.00020
#3	.00008	.00000	.00120	.00040	.00100	-.04040	.00025
#4	.00020	.00000	.00040	.00020	.00080	-.04440	.00040
Elem	MG	MN	MO	NA	NI	PB	SB
Avge	.00015	.00000	.00000	.05700	.00116	.00060	-.00010
SDev	.00084	.00016	.00028	.00368	.00119	.00052	.00042
%RSD	559.10	.00000	.00000	6.4508	102.99	86.066	416.33
#1	.00140	.00000	.00040	.06240	.00113	.00120	-.00020
#2	-.00020	-.00020	.00000	.05600	.00056	.00000	.00000
#3	-.00040	.00000	-.00020	.05540	.00011	.00040	.00040
#4	-.00020	.00020	-.00020	.05420	.00284	.00080	-.00060
Elem	SE	SI	SN	SR	TI	TL	V _u
Avge	-.00030	.00000	.00090	.00001	.00180	-.00020	.00000
SDev	.00053	.00000	.00048	.00008	.00016	.00067	.00000
%RSD	176.38	.00000	52.899	932.55	9.0722	336.65	.00000
#1	.00000	.00000	.00140	-.00008	.00180	-.00060	.00000
#2	-.00040	.00000	.00040	.00000	.00160	-.00060	.00000
#3	.00020	.00000	.00120	.00000	.00200	.00080	.00000
#4	-.00100	.00000	.00060	.00012	.00180	-.00040	.00000
Elem	ZN						
Avge	.00030						
SDev	.00024						
%RSD	79.373						
#1	.00064						
#2	.00028						
#3	.00020						
#4	.00008						

Method: QUANMET Standard: STD5A 0014-155-1
Run Time: 07/24/00 10:44:47

Elem	AG	AS	B _u	BA	BE	CD	CO
Avge	.26745	.52395	.58024	4.0437	15.499	.89622	1.4221
SDev	.00104	.00173	.00235	.0280	.083	.00329	.0052
%RSD	.38797	.33039	.40572	.69328	.53463	.36720	.36212
#1	.26820	.52300	.57842	4.0278	15.501	.89384	1.4222
#2	.26820	.52520	.58292	4.0568	15.548	.89820	1.4276
#3	.26740	.52560	.58151	4.0762	15.564	.89980	1.4234
#4	.26600	.52200	.57811	4.0140	15.381	.89305	1.4152

Elem	CR	CU	LI	MN	MO	NI	PB
Avge	3.7030	2.2504	4.3411	2.0134	.40005	1.6794	.25415
SDev	.0156	.0138	.0323	.0093	.00160	.0088	.00079
%RSD	.42222	.61406	.74366	.46199	.40073	.52232	.31065
#1	3.7094	2.2456	4.3212	2.0150	.39960	1.6790	.25440
#2	3.7174	2.2554	4.3481	2.0204	.40100	1.6839	.25440
#3	3.7040	2.2666	4.3837	2.0182	.40160	1.6873	.25480
#4	3.6810	2.2342	4.3116	1.9998	.39800	1.6672	.25300

Elem	SB	SE	SI	SN	SR	TI	TL
Avge	.19070	.51020	.33480	.95530	7.7161	6.0957	.34110
SDev	.00104	.00743	.00174	.00207	.0497	.0306	.00152
%RSD	.54495	1.4555	.51849	.21656	.64378	.50262	.44526
#1	.19120	.51140	.33560	.95700	7.6950	6.0906	.34000
#2	.19180	.51580	.33580	.95440	7.7402	6.1154	.33960
#3	.19040	.51420	.33560	.95280	7.7711	6.1224	.34220
#4	.18940	.49940	.33220	.95700	7.6582	6.0546	.34260

Elem	V _u	ZN
Avge	1.5949	1.5091
SDev	.0080	.0066
%RSD	.49953	.43959
#1	1.5962	1.5155
#2	1.6012	1.5122
#3	1.5990	1.5086
#4	1.5834	1.5001

Method: QUANMET Standard: STD5B 0014-155-2
Run Time: 07/24/00 10:47:57

Elem	AL	CA	FE	K_	MG	NA
Avge	11.130	24.518	29.720	2.3579	7.3863	44.983
SDev	.072	.061	.137	.0233	.0447	.447
%RSD	.64318	.24768	.45973	.98797	.60540	.99428
#1	11.167	24.481	29.762	2.3702	7.4002	45.278
#2	11.144	24.565	29.765	2.3544	7.3890	44.985
#3	11.185	24.574	29.832	2.3802	7.4312	45.319
#4	11.026	24.452	29.521	2.3268	7.3248	44.351

Method: QUANMET

Slope = Conc(SIR)/IR

664 1533

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD5A	STD1	7.27427	.005819	07/24/00 10:47:57
AL	308.215	STD5B	STD1	8.99115	-.073727	07/24/00 10:47:57
AS	193.696	STD5A	STD1	19.3927	.011636	07/24/00 10:47:57
B	249.600	STD5A	STD1	17.2838	-.008642	07/24/00 10:47:57
BA	493.409	STD5A	STD1	2.47298	.000022	07/24/00 10:47:57
BE	313.042	STD5A	STD1	.647026	-.001585	07/24/00 10:47:57
CA	317.933	STD5B	STD1	4.07909	-.012273	07/24/00 10:47:57
CD	228.802	STD5A	STD1	11.3260	-.000799	07/24/00 10:47:57
CO	228.616	STD5A	STD1	7.06594	-.000707	07/24/00 10:47:57
CR	267.716	STD5A	STD1	2.70173	-.001621	07/24/00 10:47:57
CU	324.754	STD5A	STD1	4.44010	-.001332	07/24/00 10:47:57
FE	259.940	STD5B	STD1	3.36481	-.001514	07/24/00 10:47:57
K	766.491	STD5B	STD1	41.6945	1.68863	07/24/00 10:47:57
LI	670.789	STD5A	STD1	2.30370	-.000691	07/24/00 10:47:57
MG	279.079	STD5B	STD1	13.5389	-.002031	07/24/00 10:47:57
MN	257.610	STD5A	STD1	4.96521	.000000	07/24/00 10:47:57
MO	202.030	STD5A	STD1	24.9969	.000000	07/24/00 10:47:57
NA	588.995	STD5B	STD1	2.22587	-.126875	07/24/00 10:47:57
NI	231.604	STD5A	STD1	5.95600	-.006902	07/24/00 10:47:57
PB	220.353	STD5A	STD1	38.2797	-.022968	07/24/00 10:47:57
SB	206.838	STD5A	STD1	52.4716	.005247	07/24/00 10:47:57
SE	196.026	STD5A	STD1	19.5886	.005877	07/24/00 10:47:57
SI	288.158	STD5A	STD1	29.4874	.000000	07/24/00 10:47:57
SN	189.989	STD5A	STD1	10.4669	-.009420	07/24/00 10:47:57
SR	409.552	STD5A	STD1	1.29599	-.000011	07/24/00 10:47:57
TI	334.941	STD5A	STD1	1.64097	-.002954	07/24/00 10:47:57
TL	190.864	STD5A	STD1	58.8742	.011775	07/24/00 10:47:57
V	292.402	STD5A	STD1	6.13627	.000000	07/24/00 10:47:57
ZN	213.856	STD5A	STD1	6.65063	-.001995	07/24/00 10:47:57

Method: QUANMET Sample Name: ICV2-1 0014-148-7 Operator: MTW
 Run Time: 07/24/00 10:51:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50495	25.185	1.0194	1.0060	.98707	.97565	25.410
SDev	.00081	.207	.0319	.0026	.01135	.00736	.141
%RSD	.16052	.82310	3.1300	.26015	1.1495	.75451	.55324
#1	.50428	25.396	.97669	1.0084	.99832	.98276	25.381
#2	.50566	24.990	1.0540	1.0037	.97705	.96866	25.490
#3	.50565	25.024	1.0227	1.0038	.97755	.96997	25.543
#4	.50422	25.328	1.0241	1.0081	.99535	.98122	25.224
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	27.500	1.1000	1.1000	1.1000	1.1000	27.500
Low	.45000	22.500	.90000	.90000	.90000	.90000	22.500
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0050	.99791	1.0090	.98448	26.075	25.154	.99153
SDev	.0097	.00712	.0037	.01234	.097	.388	.01944
%RSD	.96733	.71391	.36430	1.2531	.37283	1.5429	1.9610
#1	1.0131	.99081	1.0075	.99803	26.214	25.338	1.0073
#2	1.0078	.99651	1.0091	.97315	25.989	24.862	.97196
#3	1.0082	1.0078	1.0140	.97494	26.036	25.613	.97770
#4	.99087	.99653	1.0053	.99180	26.062	24.804	1.0092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	27.500	27.500	1.1000
Low	.90000	.90000	.90000	.90000	22.500	22.500	.90000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.305	1.0001	.99003	24.883	.99278	1.0223	1.0193
SDev	.212	.0024	.00250	.347	.00896	.0076	.0275
%RSD	.83784	.23687	.25235	1.3946	.90282	.74467	2.7018
#1	25.559	1.0034	.98880	25.212	.99282	1.0257	.99049
#2	25.077	.99837	.98876	24.586	1.0048	1.0109	1.0010
#3	25.196	1.0004	.98877	24.581	.99018	1.0265	1.0429
#4	25.386	.99838	.99377	25.154	.98331	1.0260	1.0428
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	1.1000	1.1000	27.500	1.1000	1.1000	1.1000
Low	22.500	.90000	.90000	22.500	.90000	.90000	.90000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0158	1.0476	.99633	.98396	.97974	4.9613	.98850
SDev	.0581	.0034	.01033	.00976	.00556	.1280	.00352
%RSD	5.7150	.32204	1.0370	.99228	.56741	2.5793	.35588
#1	.96035	1.0447	.98468	.99387	.98590	4.8186	.99308
#2	1.0342	1.0447	1.0099	.97469	.97441	5.0917	.98817

#3	1.0892	1.0505	.99540	.97651	.97572	4.8910	.98450
#4	.97953	1.0506	.99537	.99076	.98294	5.0438	.98826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	1.1000	5.5000	1.1000
Low	.90000	.90000	.90000	.90000	.90000	4.5000	.90000

Elem ZN
Units ppm
Avge 1.0039
SDev .0023
%RSD .23377

#1 1.0024
#2 1.0036
#3 1.0073
#4 1.0023

Errors LC Pass
High 1.1000
Low .90000

Method: QUANMET Sample Name: ICB1

Operator: MTW

Run Time: 07/24/00 10:54:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.01249	.01635	.01089	.00025	.00016	.00853
SDev	.00120	.01110	.02241	.01308	.00037	.00008	.00190
%RSD	14774.	88.920	137.03	120.12	149.86	49.830	22.280
#1	-.00145	.00720	-.00782	.01515	.00023	.00023	.00798
#2	.00000	.02503	.01142	-.00517	.00052	.00023	.00927
#3	.00000	-.00003	.01551	.02593	-.00027	.00010	.00620
#4	.00148	.01776	.04631	.00764	.00052	.00008	.01067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00104	.00035	-.00027	-.00022	.00404	.08547	.00064
SDev	.00189	.00242	.00156	.00044	.00128	.16002	.00050
%RSD	181.42	691.30	582.19	200.66	31.550	187.22	77.438
#1	.00063	.00353	.00108	-.00044	.00387	-.06254	.00023
#2	.00360	-.00072	.00108	-.00044	.00589	.13759	.00123
#3	-.00098	.00071	-.00162	.00044	.00320	-.02085	.00023
#4	.00093	-.00212	-.00162	-.00045	.00320	.28769	.00088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00271	.00025	.01000	.00523	-.01219	.00576	.01034
SDev	.00895	.00095	.00577	.00605	.00350	.02105	.02014
%RSD	330.40	376.27	57.732	115.73	28.678	365.67	194.74
#1	.00068	.00000	.00500	.00223	-.01356	.01541	.00509
#2	.01422	-.00099	.01500	.00490	-.00696	-.01531	.02605
#3	-.00745	.00100	.00500	.00000	-.01418	-.00760	.02618
#4	.00338	.00100	.01500	.01380	-.01406	.03053	-.01595
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01274	.00002	-.00309	.00012	.00057	.02350	.00142
SDev	.02973	.00003	.02256	.00015	.00049	.03467	.00252
%RSD	233.29	177.39	729.52	126.64	85.714	147.56	177.39
#1	.05290	.00000	.00316	-.00001	.00000	-.00007	.00010
#2	-.00978	.00000	.01163	.00025	.00098	.04704	.00029

#3	-.00979	.00000	-.03651	.00025	.00033	.05884	.00009
#4	.01764	.00007	.00934	-.00001	.00098	-.01182	.00520
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00089
SDev .00064
%RSD 71.904

#1 .00016
#2 .00171
#3 .00094
#4 .00074

Errors LC Pass
High .02000
Low -.02000

Method: QUANMET Sample Name: ICSA 0014-170-1 Operator: MTW

Run Time: 07/24/00 10:57:23

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1538**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00181	500.26	-.12568	-.02810	.00168	.00005	482.95
SDev	.00209	2.63	.12181	.01507	.00023	.00006	2.41
%RSD	115.43	.52612	96.925	53.637	13.925	106.01	.49950

#1	-.00375	500.34	-.02294	-.04579	.00151	.00008	480.68
#2	-.00073	501.86	-.22970	-.02805	.00151	-.00003	481.63
#3	-.00338	502.32	-.01747	-.02961	.00200	.00008	486.18
#4	.00059	496.53	-.23259	-.00896	.00171	.00008	483.29

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value		500.00					500.00
Range		20.000					20.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00400	.00958	-.00068	-.00798	185.93	-.47949	.00108
SDev	.00251	.00241	.00270	.00089	.75	.42109	.00048
%RSD	62.811	25.140	398.76	11.192	.40574	87.822	44.644

#1	-.00494	.01064	-.00054	-.00869	185.43	-.27935	.00085
#2	-.00353	.00922	-.00432	-.00865	185.98	-1.0132	.00053
#3	-.00079	.01204	.00216	-.00679	186.97	-.03753	.00131
#4	-.00674	.00641	-.00001	-.00781	185.33	-.58789	.00161

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value					200.00		
Range					20.000		

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	489.19	.00505	.00531	.00746	-.02010	.03313	.01576
SDev	2.02	.00088	.01563	.00632	.02148	.02583	.06064
%RSD	.41218	17.499	294.50	84.764	106.83	77.952	384.80

#1	488.23	.00565	.00773	.00623	-.03853	.02759	.08923
#2	490.25	.00380	.01281	.01469	-.01288	.04927	-.05779
#3	491.38	.00507	.01796	-.00045	.00705	.05660	.02644
#4	486.88	.00569	-.01728	.00935	-.03605	-.00092	.00516

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	500.00						
Range	20.000						

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13530	.12242	-.06239	.01363	-.01920	.68817	.00378
SDev	.10779	.03245	.05847	.00023	.00063	.05136	.00238
%RSD	79.665	26.510	93.702	1.6811	3.2732	7.4628	62.915

#1	.12614	.09442	-.14117	.01345	-.02002	.75811	.00506
#2	-.01343	.09436	-.00778	.01356	-.01871	.63464	.00024

664 1539

#3	.20465	.15339	-.07000	.01397	-.01936	.68323	.00526
#4	.22383	.14749	-.03064	.01356	-.01871	.67671	.00458

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
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Elem ZN
 Units ppm
 Avge .00250
 SDev .00221
 %RSD 88.422

#1	.00334
#2	.00107
#3	.00037
#4	.00521

Errors Value Range	NOCHECK
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Method: QUANMET Sample Name: ICSAB 0014-187-1 Operator: MTW
 Run Time: 07/24/00 11:00:32
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1540**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94598	487.57	.80445	.90712	.45728	.45036	476.40
SDev	.00547	3.19	.17532	.00864	.00376	.00322	2.25
%RSD	.57845	.65458	21.794	.95296	.82274	.71431	.47133
#1	.95398	492.33	Q.70623	.91799	.46282	.45517	479.25
#2	.94483	486.36	1.0666	.90054	.45639	.44858	477.11
#3	.94183	485.49	Q.73663	.89980	.45470	.44858	474.91
#4	.94328	486.12	Q.70835	.91015	.45520	.44911	474.34
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	1.0000	.50000	.50000	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95650	.44556	.44066	.47302	182.71	10.055	.98526
SDev	.00284	.00706	.00695	.00474	.98	.518	.00968
%RSD	.29684	1.5844	1.5781	1.0014	.53909	5.1533	.98297
#1	.95926	.44447	.44471	.48002	184.16	9.8607	.99938
#2	.95620	.45157	.44741	.47012	182.50	10.828	.97776
#3	.95267	.45017	.43877	.47009	182.11	9.7357	.98060
#4	.95784	.43602	.43174	.47185	182.08	9.7940	.98329
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	.50000	.50000	.50000	200.00	10.000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	477.41	.45005	.88721	9.9415	.87189	.95275	.94624
SDev	2.41	.00429	.01301	.0768	.01911	.03425	.01772
%RSD	.50554	.95411	1.4659	.77210	2.1918	3.5948	1.8727
#1	481.02	.45559	.90243	10.047	.87138	.95718	.96954
#2	476.30	.45125	.87218	9.8802	.89736	.95370	.93871
#3	475.96	.44620	.89212	9.8896	.86765	.90833	.92792
#4	476.36	.44716	.88212	9.9492	.85119	.99180	.94878
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	.50000	1.0000	10.000	1.0000	1.0000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0162	1.1248	.88742	.92006	.87972	9.5307	.45184
SDev	.0656	.0265	.05173	.00720	.00587	.1817	.00233
%RSD	6.4578	2.3601	5.8286	.78292	.66771	1.9063	.51513
#1	.93770	1.1381	.96471	.93081	.88842	9.6453	.45521
#2	1.0038	1.0850	.86380	.91708	.87792	9.5212	.45095

664 1541

#3	1.0968	1.1381	.85531	.91552	.87562	9.2778	.45132
#4	1.0262	1.1381	.86587	.91682	.87694	9.6786	.44989
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	10.000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	ZN
Units	ppm
Avge	.92546
SDev	.00369
%RSD	.39911

#1	.93054
#2	.92189
#3	.92546
#4	.92394

Errors	QC Pass
Value	1.0000
Range	20.000

Method: QUANMET Sample Name: DGKG7B Operator: MTW
 Run Time: 07/24/00 11:05:56
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00220	.08894	.04380	.01735	.00009	.00016	.09280
SDev	.00189	.04040	.01891	.00840	.00015	.00007	.03495
%RSD	85.888	45.426	43.161	48.389	153.85	43.194	37.661
#1	.00001	.05034	.06938	.02597	.00002	.00010	.05750
#2	.00440	.08435	.04574	.00769	.00002	.00021	.08697
#3	.00146	.07551	.03426	.02253	.00002	.00010	.08562
#4	.00295	.14556	.02583	.01322	.00031	.00021	.14110

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.00035	.00081	.00067	.03668	.40235	.00122
SDev	.00114	.00135	.00143	.00152	.01328	.45559	.00094
%RSD	373.25	384.64	176.25	226.70	36.216	113.23	76.841
#1	-.00025	-.00071	.00162	-.00133	.02473	-.10424	.00061
#2	-.00038	-.00071	.00054	.00222	.03349	.91311	.00207
#3	.00202	.00211	-.00108	.00045	.03281	.17095	.00023
#4	-.00015	.00071	.00216	.00134	.05569	.62959	.00196

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08191	.00051	.00500	.00523	-.00940	-.00961	.00779
SDev	.04130	.00058	.00408	.00450	.00824	.03019	.01791
%RSD	50.425	113.68	81.571	86.058	87.615	314.11	229.84
#1	.03588	.00001	.00000	.00668	-.01286	-.04598	.00511
#2	.08191	.00100	.01000	.00890	-.00430	.01525	.01573
#3	.07379	.00001	.00500	-.00134	-.01929	-.02293	.02611
#4	.13607	.00101	.00501	.00668	-.00116	.01521	-.01579

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03536	.03099	-.01409	.00019	.00074	.04082	.00255
SDev	.04322	.03647	.02011	.00031	.00073	.04560	.00289
%RSD	122.25	117.66	142.73	157.19	98.549	111.73	113.28
#1	.05295	.07077	.00107	.00040	.00033	.08217	.00000
#2	.05690	.05314	-.03447	.00051	.00164	.04673	.00510

664 1543

#3	-.02930	.00000	-.02813	-.00001	.00000	-.02391	.00009
#4	.06087	.00006	.00517	-.00012	.00098	.05826	.00501
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00315
SDev .00166
%RSD 52.884

#1 .00470
#2 .00413
#3 .00096
#4 .00279

Errors LC Pass
High .02000
Low -.02000

Method: QUANMET Sample Name: DGKG7C

Operator: MTW

Run Time: 07/24/00 11:09:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1544**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05254	2.1088	2.0791	1.0326	2.0601	.05224	L.03561
SDev	.00139	.0098	.0228	.0085	.0205	.00032	.01451
%RSD	2.6485	.46443	1.0984	.82388	.99413	.60655	40.744

#1	.05219	2.0957	2.0558	1.0364	2.0878	.05272	L.01710
#2	.05071	2.1192	2.0790	1.0427	2.0631	.05208	L.03121
#3	.05362	2.1084	2.1101	1.0275	2.0423	.05208	L.04522
#4	.05362	2.1120	2.0713	1.0240	2.0473	.05208	L.04891

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05182	.52029	.20734	.26253	1.1173	L.18554	1.0330
SDev	.00355	.00355	.00231	.00170	.0034	.49340	.0136
%RSD	6.8552	.68252	1.1135	.64874	.30108	265.93	1.3184

#1	.04998	.52381	.20883	.26475	1.1217	L-.19596	1.0494
#2	.04916	.51535	.20396	.26119	1.1136	L-.22098	1.0391
#3	.05111	.52100	.20883	.26120	1.1163	L.34606	1.0210
#4	.05701	.52099	.20775	.26297	1.1176	L.81304	1.0227

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02099	.51989	.00142	L.00646	.51935	.50858	L.00698
SDev	.01895	.00170	.00479	.00610	.00868	.01154	.00608
%RSD	90.323	.32630	337.84	94.477	1.6710	2.2686	87.064

#1	L.00068	.52163	.00517	L-.00223	.51015	.51825	L.00165
#2	L.01151	.51964	-.00483	L.00846	.51387	.50270	L.01222
#3	L.02775	.52063	.00017	L.01202	.52536	.51818	L.01227
#4	L.04400	.51766	.00517	L.00757	.52801	.49519	L.00179

Errors	LC Low	LC Pass	NOCHECK	LC Low	LC Pass	LC Pass	LC Low
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0833	.01968	-.00865	1.0336	.00041	2.0325	.50238
SDev	.0162	.02653	.00106	.0089	.00073	.0499	.00251
%RSD	.77529	134.79	12.262	.86471	177.39	2.4563	.49885

#1	2.0852	.00646	-.00920	1.0460	-.00033	2.0324	.50614
#2	2.1009	.00639	-.00915	1.0344	.00000	1.9973	.50103

664 1545

#3	2.0617	.05947	-.00706	1.0268	.00131	1.9972	.50114
#4	2.0852	.00640	-.00920	1.0273	.00066	2.1032	.50123

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem ZN
 Units ppm
 Avge .52387
 SDev .00161
 %RSD .30770

#1 .52533
 #2 .52406
 #3 .52449
 #4 .52158

Errors LC Pass
 High .60000
 Low .40000

Method: QUANMET Sample Name: DGHDK

Operator: MTW

Run Time: 07/24/00 11:12:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1546

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00074	1.6772	.00971	.01845	.05238	.00003	4.1582
SDev	.00345	.0174	.02515	.00925	.00029	.00012	.0335
%RSD	466.65	1.0373	259.07	50.146	.55610	451.28	.80596
#1	-.00436	1.6651	-.00963	.00868	.05245	.00008	4.1572
#2	.00140	1.7030	-.01364	.01460	.05277	-.00015	4.1409
#3	.00291	1.6687	.03688	.03044	.05216	.00008	4.2054
#4	-.00291	1.6722	.02522	.02008	.05216	.00008	4.1292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00102	-.00108	-.00243	.00022	.02355	-.16052	.00090
SDev	.00306	.00372	.00386	.00152	.00139	.60138	.00080
%RSD	301.28	343.29	158.60	681.71	5.9019	374.64	89.095
#1	-.00428	.00211	-.00000	.00045	.02203	.06254	.00058
#2	-.00293	-.00497	-.00810	-.00133	.02473	-.92979	.00026
#3	.00199	.00209	-.00000	.00222	.02473	.49616	.00207
#4	.00116	-.00356	-.00162	-.00045	.02271	-.27101	.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19699	.15166	.00250	10.839	-.00971	-.01637	-.00269
SDev	.02056	.00095	.00500	.123	.00327	.03315	.01318
%RSD	10.438	.62766	199.71	1.1391	33.706	202.51	490.50
#1	.19022	.15191	.00500	10.816	-.01069	.01433	-.01580
#2	.17668	.15091	-.00500	11.016	-.00550	-.06244	-.00523
#3	.22542	.15290	.00500	10.731	-.00928	-.01625	.01563
#4	.19564	.15092	.00500	10.793	-.01335	-.00113	-.00535
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00288	2.9237	-.00576	.05019	-.00049	.00943	.00250
SDev	.00669	.0029	.01157	.00030	.00078	.04342	.00501
%RSD	232.51	.10017	200.74	.58933	158.70	460.30	200.68
#1	.00593	2.9252	-.01577	.05023	-.00131	.01235	.00501
#2	-.00973	2.9251	-.00316	.05059	.00033	.01244	-.00502

664 1547

#3	-.00581	2.9252	.00950	.04997	.00000	-.04655	.00501
#4	-.00190	2.9193	-.01362	.04997	-.00098	.05948	.00500
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00262
SDev	.00114
%RSD	43.547

#1	.00205
#2	.00278
#3	.00415
#4	.00151

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHDKP5 Operator: MTW
 Run Time: 07/24/00 11:15:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00036	.30973	-.01803	.01236	.00927	.00006	.74959
SDev	.00324	.01292	.02852	.01564	.00017	.00006	.00633
%RSD	893.16	4.1709	158.18	126.60	1.8113	102.25	.84407
#1	-.00146	.29674	-.01402	.02592	.00942	.00010	.75201
#2	.00438	.32547	-.03762	.02247	.00913	.00008	.75690
#3	-.00146	.31470	.02074	-.00864	.00942	.00010	.74735
#4	-.00292	.30201	-.04121	.00967	.00913	-.00003	.74212
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00263	.00000	-.00095	-.00022	.00236	.10841	-.00014
SDev	.00234	.00439	.00235	.00152	.00229	.62671	.00073
%RSD	88.805	184760.	248.31	685.53	97.332	578.12	512.84
#1	L-.00517	.00213	.00108	.00045	.00050	.45447	-.00061
#2	-.00130	.00353	-.00000	.00134	.00522	.68796	.00069
#3	-.00010	.00070	-.00054	-.00044	.00320	.02919	.00023
#4	-.00397	-.00635	-.00432	-.00223	.00050	-.73799	-.00088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03317	.02805	.00000	1.9867	-.00560	-.01933	.00262
SDev	.01149	.00095	.00000	.0434	.00649	.01334	.01798
%RSD	34.634	3.3909	97.332	2.1833	115.73	69.028	686.57
#1	.03046	.02681	.00000	1.9939	-.00305	-.00011	.00525
#2	.04942	.02879	.00000	1.9254	.00236	-.02303	.02632
#3	.03046	.02879	.00000	2.0002	-.01153	-.02315	-.00535
#4	.02234	.02780	.00000	2.0273	-.01020	-.03101	-.01575
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00490	.56028	-.01464	.00927	-.00008	-.01754	.00123
SDev	.05919	.00835	.01375	.00006	.00056	.01522	.00246
%RSD	1207.2	1.4912	93.934	.66499	683.13	86.790	200.41
#1	.00588	.56026	-.01358	.00921	-.00033	-.02342	.00000
#2	.07641	.56622	-.01349	.00932	.00066	-.01173	.00491

664 1549

#3	.00589	.56616	.00102	.00932	.00000	-.03520	-.00000
#4	-.06856	.54847	-.03252	.00921	-.00066	.00020	-.00001

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00034
SDev	.00081
%RSD	241.04

#1	-.00042
#2	.00012
#3	.00016
#4	.00149

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHDKS

Operator: MTW

Run Time: 07/24/00 11:18:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1550

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05213	3.6831	2.0364	1.0179	2.0457	.05125	4.2108
SDev	.00239	.0361	.0497	.0196	.0234	.00043	.0243
%RSD	4.5776	.98135	2.4423	1.9285	1.1427	.83084	.57743
#1	.05214	3.7302	2.0816	1.0309	2.0789	.05182	4.2183
#2	.04920	3.6422	2.0203	1.0309	2.0303	.05093	4.1963
#3	.05214	3.6782	1.9734	1.0205	2.0453	.05131	4.2416
#4	.05505	3.6818	2.0703	.98942	2.0285	.05092	4.1871
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05125	.51641	.20329	.25631	1.1079	.27727	.99306
SDev	.00209	.00405	.00120	.00400	.0053	.57223	.01311
%RSD	4.0807	.78493	.58911	1.5628	.47955	206.38	1.3204
#1	.05140	.51533	.20451	.26119	1.1122	.52118	1.0125
#2	.04849	.51395	.20181	.25142	1.1015	-.54620	.98646
#3	.05357	.52241	.20397	.25676	1.1122	.37108	.98909
#4	.05153	.51394	.20289	.25586	1.1055	.76301	.98421
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19564	.66261	.00517	10.570	.51238	.49795	.00948
SDev	.01889	.00363	.00408	.132	.01071	.06081	.02328
%RSD	9.6556	.54755	79.039	1.2444	2.0902	12.213	245.55
#1	.19834	.66658	.01017	10.766	.52486	.51701	-.00885
#2	.16856	.66062	.00516	10.484	.51451	.41757	.04362
#3	.21188	.66459	.00517	10.522	.49887	.56318	.00153
#4	.20376	.65863	.00017	10.507	.51127	.49404	.00164
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0627	2.9035	.01229	1.0530	.00074	2.0982	.49999
SDev	.0719	.0368	.01365	.0115	.00062	.0435	.00246
%RSD	3.4869	1.2678	111.06	1.0920	84.132	2.0738	.49156
#1	2.0891	2.9433	.03261	1.0691	.00066	2.1630	.50132
#2	1.9951	2.8666	.00355	1.0453	.00033	2.0807	.49631

664 1551

#3	2.1518	2.9256	.00545	1.0536	.00033	2.0805	.50122
#4	2.0147	2.8785	.00754	1.0442	.00164	2.0688	.50112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .51787
 SDev .00743
 %RSD 1.4354

#1 .52371
 #2 .50914
 #3 .52437
 #4 .51424

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: DGHDKD

Operator: MTW

Run Time: 07/24/00 11:21:41

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1552

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05255	3.6934	2.1195	1.0394	2.0909	.05251	4.1475
SDev	.00345	.0381	.0629	.0067	.0383	.00055	.0139
%RSD	6.5710	1.0322	2.9688	.64066	1.8305	1.0381	.33443
#1	.04780	3.7177	2.2057	1.0433	2.1267	.05311	4.1371
#2	.05509	3.6565	2.0936	1.0295	2.0483	.05193	4.1581
#3	.05512	3.7338	2.0580	1.0433	2.1195	.05282	4.1341
#4	.05219	3.6656	2.1207	1.0413	2.0690	.05219	4.1608
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05026	.52522	.20815	.26076	1.1277	.58164	1.0110
SDev	.00323	.00201	.00270	.00328	.0061	.69869	.0243
%RSD	6.4185	.38299	1.2956	1.2585	.54006	120.12	2.3987
#1	.04645	.52380	.20451	.26298	1.1344	-.38776	1.0310
#2	.05092	.52807	.20991	.25676	1.1196	1.0799	.98198
#3	.04943	.52380	.20774	.26387	1.1284	.52952	1.0310
#4	.05421	.52522	.21045	.25943	1.1284	1.1049	.99998
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19293	.67180	.00767	10.391	.53231	.54412	.00972
SDev	.00912	.00328	.00500	.201	.01125	.00767	.01775
%RSD	4.7249	.48837	65.190	1.9302	2.1140	1.4098	182.74
#1	.17939	.67552	.00517	10.577	.54581	.54021	-.00851
#2	.19834	.66956	.01517	10.154	.51885	.54043	.03309
#3	.19564	.67353	.00517	10.536	.52942	.54022	.00194
#4	.19834	.66857	.00517	10.298	.53517	.55562	.01235
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0794	2.8771	-.00131	1.0747	.00008	2.1568	.51079
SDev	.0454	.0371	.02882	.0170	.00118	.0703	.00404
%RSD	2.1843	1.2911	2199.2	1.5818	1437.6	3.2613	.79165
#1	2.0892	2.8608	.00123	1.0905	-.00164	2.2333	.50613
#2	2.0186	2.8668	.02862	1.0558	.00098	2.1863	.51002

664 1553

#3	2.0813	2.9317	-.04060	1.0875	.00066	2.1391	.51596
#4	2.1283	2.8491	.00550	1.0650	.00033	2.0685	.51105
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.52733
SDev	.00243
%RSD	.45983

#1	.53086
#2	.52700
#3	.52563
#4	.52584

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-1 0014-164-11 Operator: MTW
 Run Time: 07/24/00 11:24:49
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

664 1554

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99764	50.413	5.0124	5.0325	4.9809	4.9564	49.900
SDev	.00427	.233	.0681	.0143	.0380	.0213	.164
%RSD	.42828	.46241	1.3586	.28514	.76322	.43013	.32951

#1	.99502	50.394	4.9478	5.0465	4.9896	4.9598	49.751
#2	.99513	50.535	4.9890	5.0327	5.0023	4.9658	49.765
#3	.99644	50.094	5.0047	5.0128	4.9249	4.9256	50.028
#4	1.0040	50.628	5.1080	5.0382	5.0068	4.9742	50.056

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0075	4.9330	4.9040	5.0031	51.432	50.584	5.0857
SDev	.0189	.0148	.0087	.0355	.142	.301	.0556
%RSD	.37760	.30098	.17685	.71054	.27593	.59446	1.0932

#1	4.9851	4.9231	4.8985	5.0184	51.388	50.730	5.0977
#2	5.0313	4.9385	4.8974	5.0184	51.433	50.213	5.1228
#3	5.0083	4.9189	4.9039	4.9500	51.283	50.905	5.0039
#4	5.0054	4.9513	4.9163	5.0255	51.623	50.488	5.1183

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.595	4.9270	4.9308	51.256	4.9598	4.9581	5.0556
SDev	.257	.0108	.0272	.439	.0155	.0492	.0290
%RSD	.50858	.21858	.55177	.85666	.31198	.99213	.57407

#1	50.625	4.9220	4.9021	51.376	4.9548	4.9177	5.0689
#2	50.701	4.9270	4.9221	51.568	4.9473	4.9257	5.0372
#3	50.230	4.9170	4.9321	50.607	4.9547	4.9637	5.0265
#4	50.826	4.9420	4.9671	51.470	4.9824	5.0255	5.0897

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.1159	5.2072	4.9846	4.9663	4.9420	9.9375	4.9452
SDev	.0498	.0336	.0440	.0350	.0215	.1903	.0172
%RSD	.97257	.64546	.88243	.70407	.43562	1.9148	.34683

#1	5.1560	5.2291	4.9276	4.9754	4.9413	9.9852	4.9324
#2	5.1051	5.2117	5.0049	4.9858	4.9521	10.138	4.9512

664 1555

#3	5.0499	5.1583	5.0301	4.9146	4.9124	9.6801	4.9305
#4	5.1527	5.2296	4.9758	4.9893	4.9623	9.9471	4.9668
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9467
SDev	.0086
%RSD	.17487

#1	4.9378
#2	4.9573
#3	4.9500
#4	4.9420

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB1

Operator: MTW

Run Time: 07/24/00 11:27:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1555

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00219	.01101	.03187	.01791	.00074	.00068	.00436
SDev	.00279	.00668	.03498	.01681	.00020	.00013	.00571
%RSD	127.38	60.695	109.75	93.836	27.428	19.527	131.12
#1	-.00145	.01056	-.00398	-.00374	.00072	.00061	-.00416
#2	.00146	.00332	.01547	.03285	.00052	.00061	.00635
#3	.00439	.01053	.07738	.01312	.00101	.00060	.00764
#4	.00437	.01964	.03861	.02941	.00072	.00087	.00759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	-.00071	.00001	.00089	.00741	.28978	.00108
SDev	.00158	.00231	.00233	.00212	.00308	.74091	.00128
%RSD	532.27	325.58	41568.	238.26	41.573	255.68	118.37
#1	.00148	-.00354	-.00324	-.00133	.00522	-.51284	-.00023
#2	.00168	-.00071	.00109	.00222	.00589	.49616	.00023
#3	-.00166	.00212	.00217	.00311	.00657	1.2133	.00243
#4	-.00031	-.00071	.00000	-.00044	.01195	-.03753	.00191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00609	.00075	.02250	.01480	-.00694	-.00769	-.00806
SDev	.01990	.00095	.00645	.01034	.00764	.02254	.01006
%RSD	326.60	126.07	28.686	69.818	110.02	292.94	124.83
#1	-.01828	.00001	.02000	.00846	-.01812	-.01543	-.00556
#2	.00609	.00001	.03000	.00401	-.00509	.02292	-.01597
#3	.03046	.00200	.02500	.02048	-.00102	-.00763	-.01584
#4	.00609	.00100	.01500	.02627	-.00354	-.03065	.00514
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00292	.03098	-.00213	.00077	.00115	.02641	.00166
SDev	.03667	.03585	.01830	.00021	.00057	.05802	.00249
%RSD	1256.2	115.72	857.78	27.623	49.487	219.65	149.98
#1	.02548	.00000	.02195	.00051	.00033	.09417	.00038
#2	.00981	.05897	-.00112	.00077	.00131	.03527	.00058

664 1557

#3	-.05679	.06494	-.02206	.00077	.00131	.02344	.00540
#4	.00983	.00000	-.00731	.00103	.00164	-.04721	.00029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00161
SDev	.00047
%RSD	29.240

#1	.00230
#2	.00146
#3	.00146
#4	.00123

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DGKGHB

Operator: MTW

Run Time: 07/24/00 11:31:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1558**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.00354	-.00301	.01783	.00044	.00035	.00206
SDev	.00314	.00734	.03562	.00767	.00043	.00010	.00490
%RSD	17379.	207.43	1184.2	42.986	96.744	28.737	237.68

#1	.00437	.01431	.03476	.02598	.00023	.00036	.00356
#2	.00003	.00176	-.03891	.02251	.00052	.00034	.00092
#3	-.00142	-.00006	-.02726	.01315	.00101	.00047	.00774
#4	-.00290	-.00187	.01938	.00970	.00002	.00023	-.00397

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00157	.00036	.00081	.00000	.02221	.33981	-.00023
SDev	.00143	.00291	.00244	.00115	.00277	.58651	.00017
%RSD	90.808	815.67	300.58	54640.	12.477	172.60	72.521

#1	-.00347	-.00211	-.00216	-.00133	.02407	.12091	-.00001
#2	-.00169	.00212	.00108	-.00044	.02473	.07088	-.00042
#3	-.00009	.00353	.00378	.00134	.02137	1.2133	-.00026
#4	-.00103	-.00212	.00054	.00044	.01867	-.04586	-.00023

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00271	.00026	.00375	.07690	-.01140	-.02104	.00515
SDev	.02344	.00095	.00250	.00846	.00447	.02760	.02099
%RSD	865.54	371.85	66.601	10.997	39.183	131.13	407.35

#1	-.01828	.00100	.00500	.08725	-.00542	-.01536	.01568
#2	-.00745	.00001	.00000	.07835	-.01285	.00007	.01565
#3	.03588	.00100	.00500	.06678	-.01124	-.00754	.01562
#4	.00068	-.00099	.00500	.07523	-.01609	-.06134	-.02634

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02737	.01330	-.01253	.00005	.00016	-.02969	.00253
SDev	.02036	.01947	.01618	.00008	.00127	.04556	.00281
%RSD	74.386	146.37	129.06	144.51	774.60	153.49	111.14

#1	-.05283	.04128	-.00516	.00010	.00197	-.01200	.00009
#2	-.01756	.01186	-.00516	-.00001	.00000	-.02386	.00491

664 1559

#3	-.00582	.00006	-.00306	-.00001	-.00033	.01150	.00501
#4	-.03325	.00000	-.03675	.00014	-.00098	-.09438	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00155
SDev	.00206
%RSD	132.92

#1	.00413
#2	-.00037
#3	.00228
#4	.00017

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DGKGHC
 Run Time: 07/24/00 11:34:14
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

Operator: MTW

664 1560

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04914	1.9218	1.9240	.93575	1.9027	.04735	49.186
SDev	.00002	.0069	.0198	.00337	.0229	.00031	.261
%RSD	.04387	.36044	1.0271	.36001	1.2038	.65033	.52969
#1	.04916	1.9306	1.9103	.94033	1.9354	.04773	48.848
#2	.04914	1.9236	1.9143	.93260	1.8981	.04748	49.417
#3	.04911	1.9147	1.9532	.93401	1.8953	.04711	49.115
#4	.04914	1.9181	1.9182	.93606	1.8820	.04709	49.363
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04633	.47893	.19346	.23851	1.0224	48.451	.95927
SDev	.00128	.00213	.00221	.00223	.0042	.550	.01578
%RSD	2.7670	.44381	1.1401	.93685	.40796	1.1347	1.6452
#1	.04451	.47714	.19508	.24161	1.0247	49.195	.98196
#2	.04634	.47999	.19022	.23806	1.0260	48.061	.95456
#3	.04724	.48141	.19454	.23807	1.0165	48.537	.95523
#4	.04722	.47718	.19400	.23629	1.0226	48.011	.94534
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.024	.47971	.95378	48.706	.48530	.51395	.48304
SDev	.253	.00100	.00629	.628	.01136	.03877	.01484
%RSD	.51561	.20763	.65962	1.2888	2.3413	7.5440	3.0715
#1	49.363	.48021	.96003	49.612	.50203	.48710	.48313
#2	49.071	.48021	.95503	48.478	.48115	.49485	.49345
#3	48.827	.47822	.94503	48.565	.47665	.50251	.46203
#4	48.835	.48021	.95503	48.169	.48136	.57134	.49357
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9322	9.6338	1.9218	.95775	.93470	1.9337	.48025
SDev	.0905	.0123	.0282	.00933	.00480	.0513	.00413
%RSD	4.6854	.12796	1.4669	.97471	.51365	2.6526	.85934
#1	2.0340	9.6486	1.9302	.97105	.94159	1.9160	.48529
#2	1.8147	9.6367	1.9554	.95612	.93437	2.0102	.48027

						664	1561
#3	1.9517	9.6190	1.9134	.95457	.93142	1.9043	.47518
#4	1.9283	9.6308	1.8884	.94928	.93142	1.9043	.48028
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000
Elem	ZN						
Units	ppm						
Avge	.48071						
SDev	.00343						
%RSD	.71291						
#1	.47914						
#2	.48530						
#3	.47732						
#4	.48109						
Errors	LC Pass						
High	.60000						
Low	.40000						

Method: QUANMET Sample Name: DG8GW

Operator: MTW

Run Time: 07/24/00 11:37:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1562

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.29760	.01500	.02255	.05273	.00019	6.9749
SDev	.00182	.00344	.02251	.00934	.00053	.00006	.0395
%RSD	167.86	1.1547	150.04	41.423	1.0039	29.116	.56560
#1	.00145	.30212	-.00249	.02640	.05265	.00023	6.9731
#2	.00147	.29488	.00524	.03394	.05344	.00021	6.9360
#3	-.00146	.29841	.04796	.01422	.05216	.00023	6.9613
#4	.00288	.29498	.00929	.01564	.05265	.00011	7.0293
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	.00315	.00297	.00378	.04576	3.1333	-.00030
SDev	.00116	.00353	.00129	.00044	.00115	.2777	.00049
%RSD	118.74	112.19	43.312	11.673	2.5116	8.8624	165.06
#1	-.00073	.00775	.00433	.00312	.04425	2.9728	-.00088
#2	.00141	.00209	.00162	.00400	.04694	3.5399	.00023
#3	.00185	-.00074	.00379	.00400	.04559	2.9395	-.00004
#4	.00138	.00350	.00217	.00400	.04627	3.0812	-.00050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2395	.08045	.00626	4.9630	-.00133	-.00775	.00519
SDev	.0175	.00081	.00479	.0184	.01070	.03476	.01917
%RSD	1.4102	1.0072	76.508	.37161	805.44	448.40	369.07
#1	1.2598	.08045	.01001	4.9428	.00844	-.04593	-.01572
#2	1.2192	.08044	.00001	4.9708	-.01278	.03817	.01564
#3	1.2327	.07945	.01001	4.9539	-.00810	-.00787	-.00539
#4	1.2463	.08144	.00501	4.9846	.00712	-.01537	.02625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01849	3.0180	-.00258	.02533	-.00033	.00584	.00013
SDev	.06312	.0029	.00317	.00020	.00046	.06269	.00397
%RSD	341.41	.09772	122.84	.77759	141.42	1073.0	3131.9
#1	-.03710	3.0195	-.00111	.02530	.00000	.04703	.00020
#2	.03342	3.0196	-.00096	.02539	.00000	-.05896	.00491

664 1563

#3	-.09978	3.0136	-.00734	.02508	-.00098	.07063	.00020
#4	.02950	3.0194	-.00091	.02556	-.00033	-.03534	-.00481

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.16609
SDev	.00257
%RSD	1.5496

#1	.16524
#2	.16298
#3	.16717
#4	.16898

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DG8GWP5

Operator: MTW

Run Time: 07/24/00 11:40:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1564**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00108	.07237	.00137	.00409	.01088	.00010	1.4335
SDev	.00137	.00401	.03838	.00717	.00020	.00001	.0213
%RSD	126.67	5.5399	2809.2	175.39	1.8701	12.552	1.4876
#1	.00002	.07363	-.01621	.00175	.01090	.00008	1.4630
#2	-.00000	.07010	.01106	.00174	.01090	.00010	1.4341
#3	.00143	.06835	.04994	-.00170	.01111	.00011	1.4230
#4	.00288	.07740	-.03933	.01455	.01061	.00011	1.4139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	-.00036	.00081	.00067	.00942	.63793	-.00057
SDev	.00262	.00212	.00326	.00112	.00101	.39531	.00018
%RSD	234.85	584.21	400.94	167.87	10.713	61.969	31.467
#1	-.00022	.00070	.00540	.00222	.01060	1.2300	-.00069
#2	.00494	.00069	-.00054	.00045	.00858	.42111	-.00058
#3	-.00084	-.00354	-.00216	-.00045	.00993	.42945	-.00031
#4	.00057	.00070	.00054	.00045	.00858	.47115	-.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.25250	.01639	.00250	1.0147	-.00196	.01719	.01309
SDev	.02002	.00057	.00289	.0025	.00494	.02890	.01789
%RSD	7.9289	3.5049	115.41	.24915	252.32	168.14	136.60
#1	.28229	.01688	.00500	1.0150	-.00725	.04593	.01566
#2	.24438	.01688	.00500	1.0181	.00193	-.02299	.00522
#3	.24438	.01589	.00000	1.0128	.00256	.02282	-.00519
#4	.23896	.01589	.00000	1.0128	-.00506	.02299	.03669
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00291	.65903	-.00988	.00525	.00033	.00295	-.00118
SDev	.03722	.00298	.01474	.00021	.00027	.01130	.00476
%RSD	1277.5	.45226	149.12	4.0251	81.650	383.09	403.96
#1	.02549	.66058	-.01563	.00543	.00033	-.01183	.00502
#2	.02549	.66052	.01154	.00543	.00000	.01178	.00010

664 1565

#3	-.00977	.65456	-.02200	.00507	.00033	.00005	-.00491
#4	-.05287	.66046	-.01344	.00507	.00066	.01181	-.00491

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.03503
SDev	.00088
%RSD	2.5095

#1	.03528
#2	.03602
#3	.03491
#4	.03391

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DG8GWS

Operator: MTW

Run Time: 07/24/00 11:43:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1566

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04692	2.1987	1.9015	.96749	1.9402	.04740	55.993
SDev	.00188	.0182	.0295	.02343	.0312	.00045	.364
%RSD	4.0045	.82619	1.5520	2.4220	1.6088	.95570	.64936
#1	.04474	2.2041	1.9121	.96722	1.9678	.04762	55.497
#2	.04765	2.1735	1.9317	.93551	1.9035	.04685	56.141
#3	.04620	2.2166	1.9003	.99084	1.9644	.04788	55.980
#4	.04911	2.2005	1.8617	.97639	1.9250	.04723	56.352
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04849	.47466	.19873	.24095	1.0532	51.094	.95351
SDev	.00359	.00313	.00247	.00284	.0062	.573	.02481
%RSD	7.4027	.66014	1.2438	1.1796	.59242	1.1210	2.6021
#1	.04634	.47571	.19562	.24339	1.0475	51.355	.97749
#2	.05198	.47292	.20157	.23806	1.0482	50.246	.92816
#3	.04459	.47147	.19941	.24339	1.0590	51.497	.97193
#4	.05106	.47855	.19833	.23895	1.0583	51.280	.93648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.283	.55295	.95379	53.739	.47328	.49453	.48555
SDev	.571	.00149	.00250	1.015	.00755	.01874	.05019
%RSD	1.1353	.26973	.26214	1.8893	1.5956	3.7887	10.337
#1	50.663	.55171	.95004	54.651	.46592	.49448	.43048
#2	49.607	.55171	.95504	52.564	.48114	.51743	.46200
#3	50.839	.55469	.95504	54.520	.46779	.47154	.54582
#4	50.024	.55370	.95504	53.221	.47828	.49466	.50392
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9185	12.562	1.8883	.97588	.93552	2.0487	.47536
SDev	.0473	.080	.0196	.01402	.00824	.0868	.00005
%RSD	2.4649	.63336	1.0378	1.4364	.88077	4.2349	.01104
#1	1.9127	12.603	1.8692	.98753	.94060	2.0458	.47528
#2	1.8891	12.444	1.8862	.95913	.92485	2.1517	.47539

						664	1567
#3	1.8853	12.615	1.8823	.98738	.94323	1.9397	.47538
#4	1.9871	12.585	1.9157	.96949	.93338	2.0574	.47538
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.63499
SDev	.00331
%RSD	.52059

#1	.63561
#2	.63105
#3	.63427
#4	.63903

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DG8GWD

Operator: MTW

Run Time: 07/24/00 11:46:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1568

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04700	2.2565	1.9589	.98801	1.9939	.04885	56.816
SDev	.00347	.0134	.0627	.00001	.0275	.00052	.084
%RSD	7.3795	.59327	3.2021	.00092	1.3768	1.0718	.14807
#1	.04916	2.2399	1.9310	.98800	1.9621	.04837	56.732
#2	.04919	2.2544	1.9114	.98802	1.9826	.04849	56.821
#3	.04189	2.2596	2.0510	.98802	2.0060	.04902	56.930
#4	.04776	2.2722	1.9422	.98801	2.0251	.04951	56.781
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04870	.48804	.19967	.24829	1.0876	52.093	.97931
SDev	.00165	.00404	.00113	.00304	.0052	.647	.01876
%RSD	3.3830	.82785	.56470	1.2230	.48050	1.2426	1.9156
#1	.05031	.48701	.19941	.24518	1.0805	51.405	.95843
#2	.04640	.48559	.19832	.24695	1.0873	51.689	.97361
#3	.04896	.48556	.20103	.24873	1.0900	52.531	.98177
#4	.04914	.49402	.19994	.25229	1.0927	52.748	1.0034
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.974	.56687	.97004	54.386	.49409	.50442	.48572
SDev	.495	.00274	.01000	.886	.00970	.01583	.03001
%RSD	.97155	.48280	1.0308	1.6282	1.9636	3.1388	6.1775
#1	50.346	.56364	.97504	53.386	.48824	.52551	.52492
#2	50.880	.56562	.95504	54.064	.50840	.48710	.46240
#3	51.148	.56861	.97504	54.612	.49186	.50241	.46206
#4	51.524	.56960	.97504	55.480	.48788	.50267	.49350
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9255	12.674	1.8914	1.0038	.94700	1.9775	.48948
SDev	.0804	.064	.0277	.0127	.00815	.0390	.00439
%RSD	4.1748	.50713	1.4659	1.2684	.86037	1.9702	.89642
#1	1.8696	12.597	1.9220	.98910	.93732	1.9982	.48559
#2	1.8501	12.645	1.8631	.99833	.94389	2.0217	.49011

664 1569

#3	2.0225	12.727	1.8735	1.0093	.95078	1.9510	.48682
#4	1.9598	12.727	1.9072	1.0183	.95603	1.9391	.49541
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .65085
 SDev .00622
 %RSD .95520

#1 .64433
 #2 .65602
 #3 .64674
 #4 .65632

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: DG8H3

Operator: MTW

Run Time: 07/24/00 11:49:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1570**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00183	.58397	-.00197	.01467	.02812	.00016	21.881
SDev	.00184	.01033	.03778	.01116	.00014	.00007	.143
%RSD	100.68	1.7686	1920.7	76.070	.48805	44.840	.65201
#1	.00146	.57902	.04561	.01031	.02813	.00010	21.680
#2	.00001	.57541	-.04357	.01029	.02821	.00023	21.908
#3	.00439	.58263	-.01656	.03124	.02821	.00021	21.920
#4	.00146	.59882	.00666	.00685	.02792	.00010	22.017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00061	.00599	.00878	.01089	.12888	10.795	.00064
SDev	.00240	.00389	.00222	.00168	.00085	.727	.00088
%RSD	391.55	64.853	25.298	15.457	.65677	6.7327	135.98
#1	-.00397	.00211	.00595	.00845	.12904	9.9191	-.00012
#2	-.00027	.00776	.00811	.01201	.12770	11.003	.00058
#3	.00171	.01058	.01081	.01201	.12905	11.654	.00188
#4	.00008	.00352	.01027	.01111	.12972	10.603	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.5254	.13285	.00877	14.213	.00537	-.01359	.01570
SDev	.0257	.00050	.00479	.077	.01219	.00971	.01486
%RSD	.56765	.37430	54.589	.53971	227.18	71.431	94.667
#1	4.4902	.13210	.00502	14.307	-.01061	-.02328	.00502
#2	4.5470	.13310	.01502	14.219	.00257	-.00011	.03669
#3	4.5227	.13310	.01002	14.120	.01294	-.01538	.01576
#4	4.5416	.13309	.00502	14.206	.01657	-.01560	.00532
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03168	3.9661	-.00148	.07169	.00090	.03174	.00141
SDev	.02742	.0076	.02408	.00052	.00031	.06759	.00248
%RSD	86.558	.19177	1632.3	.72306	34.816	212.93	175.03
#1	.01797	3.9572	.02831	.07195	.00066	.08182	.00011
#2	.06498	3.9690	-.02807	.07195	.00098	.09357	.00031

664 1571

#3	.00230	3.9632	.00533	.07092	.00131	-.04780	.00512
#4	.04148	3.9749	-.01147	.07195	.00066	-.00062	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.12480
SDev	.00253
%RSD	2.0266

#1	.12834
#2	.12398
#3	.12451
#4	.12237

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DG8H6

Operator: MTW

Run Time: 07/24/00 11:53:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1572

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.40247	.00249	.02588	.02547	.00051	3.0541
SDev	.00074	.00696	.01032	.01761	.00037	.00006	.0230
%RSD	197.82	1.7282	414.74	68.062	1.4549	11.858	.75173
#1	-.00000	.41015	.00441	.01420	.02545	.00049	3.0305
#2	-.00000	.39753	.01615	.00870	.02574	.00049	3.0406
#3	.00002	.39571	-.00331	.03390	.02574	.00047	3.0636
#4	.00148	.40648	-.00729	.04673	.02496	.00060	3.0816
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00025	.01200	.00216	.00201	.04105	1.8846	.00028
SDev	.00119	.00305	.00296	.00112	.00282	.5376	.00051
%RSD	485.84	25.431	136.96	55.663	6.8779	28.524	184.31
#1	-.00042	.00776	-.00108	.00045	.04089	1.1132	.00034
#2	-.00186	.01200	.00108	.00223	.04021	1.9471	.00004
#3	.00063	.01482	.00270	.00312	.03819	2.1473	.00096
#4	.00067	.01341	.00594	.00224	.04493	2.3307	-.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.79067	.06877	.00251	2.9186	-.00472	.02112	-.01053
SDev	.02113	.00050	.00500	.0361	.00207	.03220	.01350
%RSD	2.6729	.72265	199.51	1.2359	43.801	152.49	128.21
#1	.76427	.06852	-.00499	2.9186	-.00327	-.02304	-.01565
#2	.81572	.06952	.00501	2.9693	-.00775	.02304	-.00530
#3	.79405	.06852	.00501	2.8976	-.00431	.05376	.00512
#4	.78864	.06853	.00501	2.8887	-.00355	.03070	-.02628
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00871	3.2422	.00676	.01156	.00107	.00280	.00251
SDev	.01820	.0392	.03025	.00018	.00068	.05636	.00290
%RSD	209.07	1.2100	447.61	1.5826	63.432	2016.6	115.51
#1	-.00185	3.2082	-.02205	.01129	.00098	-.00010	-.00010
#2	.00990	3.2790	-.00316	.01165	.00033	-.04722	.00010

664 1573

#3	-.03320	3.2083	.04922	.01165	.00098	.08226	.00501
#4	-.00968	3.2732	.00302	.01165	.00197	-.02377	.00502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01150
SDev	.00089
%RSD	7.7364

#1	.01154
#2	.01022
#3	.01211
#4	.01211

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DG8HA

Operator: MTW

Run Time: 07/24/00 11:56:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1574**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00146	.57325	.01658	.01836	.02743	.00013	22.760
SDev	.00119	.00858	.05531	.01541	.00000	.00006	.040
%RSD	81.638	1.4975	333.51	83.961	.00000	50.000	.17593
#1	.00146	.57546	.03402	.01231	.02743	.00023	22.806
#2	.00145	.56660	.08452	.04138	.02743	.00010	22.780
#3	.00291	.58447	-.04363	.00885	.02743	.00010	22.726
#4	.00000	.56647	-.00857	.01088	.02743	.00010	22.726
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	.00528	.00811	.01245	.11424	11.162	.00087
SDev	.00162	.00242	.00182	.00089	.00145	.159	.00059
%RSD	146.31	45.722	22.456	7.1194	1.2739	1.4215	66.955
#1	.00070	.00210	.00919	.01378	.11424	11.353	.00169
#2	.00056	.00776	.00540	.01200	.11289	11.053	.00069
#3	-.00028	.00634	.00919	.01200	.11626	11.012	.00080
#4	.00346	.00492	.00865	.01200	.11356	11.228	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.6587	.13383	.00127	14.655	.00563	-.01551	.02363
SDev	.0393	.00049	.00479	.130	.00435	.00619	.02624
%RSD	.84278	.37020	377.82	.88796	77.195	39.916	111.04
#1	4.6662	.13408	.00002	14.620	.00698	-.00793	.02629
#2	4.6824	.13408	-.00498	14.755	-.00066	-.01545	.01573
#3	4.6012	.13309	.00502	14.486	.00686	-.02309	.05775
#4	4.6851	.13408	.00502	14.760	.00935	-.01555	-.00523
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02381	3.9852	-.01139	.07474	.00107	.02897	.00004
SDev	.03239	.0029	.01606	.00049	.00049	.03397	.00010
%RSD	136.04	.07399	141.06	.65647	46.154	117.28	235.66
#1	-.00949	3.9867	-.02603	.07481	.00131	.03488	.00002
#2	.00226	3.9808	.00951	.07506	.00066	.02308	-.00009

664 1575

#3	.04536	3.9867	-.02169	.07403	.00164	.07015	.00012
#4	.05711	3.9867	-.00733	.07506	.00066	-.01223	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .12946
SDev .00172
%RSD 1.3289

#1 .12771
#2 .13095
#3 .13093
#4 .12826

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: CCV2-2

Operator: MTW

Run Time: 07/24/00 11:59:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1576

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99581	49.622	4.9964	4.9917	4.8674	4.9100	50.862
SDev	.00436	.410	.1075	.0398	.0587	.0457	.269
%RSD	.43828	.82653	2.1506	.79833	1.2052	.93146	.52973
#1	.99217	49.760	4.8479	4.9913	4.8974	4.9324	50.606
#2	.99971	49.930	5.0782	5.0193	4.9045	4.9411	51.216
#3	.99189	49.018	4.9869	4.9354	4.7800	4.8421	50.920
#4	.99946	49.781	5.0727	5.0206	4.8876	4.9243	50.709
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.1078	4.9685	4.9452	4.8719	51.508	49.095	4.8588
SDev	.0251	.0161	.0189	.0568	.288	.190	.0825
%RSD	.49233	.32399	.38257	1.1656	.55956	.38757	1.6975
#1	5.0845	4.9696	4.9347	4.9092	51.494	49.020	4.9212
#2	5.1327	4.9822	4.9736	4.9003	51.865	48.970	4.8817
#3	5.1262	4.9456	4.9363	4.7875	51.159	49.379	4.7376
#4	5.0879	4.9767	4.9363	4.8905	51.516	49.012	4.8948
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.867	4.9529	4.9521	49.781	4.9976	5.0132	5.0530
SDev	.406	.0260	.0449	.665	.0262	.0391	.0301
%RSD	.81369	.52529	.90718	1.3361	.52506	.77983	.59528
#1	50.075	4.9469	4.9071	50.179	4.9954	5.0265	5.0481
#2	50.162	4.9877	4.9771	50.102	5.0352	4.9578	5.0583
#3	49.271	4.9250	4.9220	48.786	4.9834	5.0493	5.0164
#4	49.959	4.9519	5.0021	50.057	4.9765	5.0191	5.0893
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.9555	5.0685	4.9869	4.8822	4.8960	9.8659	4.9396
SDev	.1508	.0180	.0353	.0530	.0365	.1737	.0316
%RSD	3.0429	.35495	.70765	1.0857	.74618	1.7610	.63912
#1	5.1053	5.0641	5.0051	4.9091	4.9042	9.7365	4.9399
#2	5.0201	5.0941	5.0030	4.9192	4.9328	10.121	4.9770

664 1577

#3	4.7518	5.0518	4.9339	4.8039	4.8455	9.8228	4.8997
#4	4.9447	5.0641	5.0053	4.8964	4.9016	9.7834	4.9418
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9452
SDev	.0158
%RSD	.31943

#1	4.9344
#2	4.9679
#3	4.9345
#4	4.9439

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB2

Operator: MTW

Run Time: 07/24/00 12:02:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1578**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00110	.00613	-.00979	.01608	.00071	.00084	.00431
SDev	.00139	.00379	.02716	.00102	.00043	.00016	.00231
%RSD	126.43	61.750	277.55	6.3317	59.837	19.207	53.609

#1	.00000	.00528	.01934	.01659	.00072	.00061	.00318
#2	.00148	.00154	-.01951	.01658	.00031	.00086	.00160
#3	.00291	.01064	.00378	.01455	.00052	.00087	.00620
#4	.00001	.00707	-.04276	.01658	.00130	.00100	.00625

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00093	.00106	.00054	.00111	.00774	.24600	.00051
SDev	.00218	.00212	.00177	.00152	.00127	.48809	.00035
%RSD	235.13	199.57	324.23	136.55	16.456	198.41	69.179

#1	-.00237	-.00211	-.00162	-.00045	.00858	-.37942	.00023
#2	-.00285	.00213	.00054	.00045	.00589	.26268	.00023
#3	-.00044	.00212	.00055	.00133	.00791	.28769	.00061
#4	.00195	.00211	.00271	.00311	.00858	.81304	.00096

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00338	.00050	.01750	.00790	-.00281	-.02679	-.01320
SDev	.02432	.00057	.00645	.00673	.00278	.01333	.01573
%RSD	718.52	113.69	36.882	85.239	98.901	49.763	119.22

#1	-.02099	.00001	.01000	.01202	-.00495	-.04604	-.02629
#2	-.00745	.00001	.02500	-.00178	-.00543	-.02292	-.00543
#3	.00609	.00100	.02000	.01291	-.00003	-.01525	.00522
#4	.03588	.00100	.01500	.00846	-.00082	-.02295	-.02629

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02940	.02951	-.01890	.00100	.00066	-.00599	.00187
SDev	.02498	.03403	.01720	.00005	.00000	.04353	.00242
%RSD	84.962	115.33	91.017	5.3435	.00000	727.10	129.13

#1	.04899	.00000	-.01792	.00092	.00066	.01170	.00019
#2	.05290	.00007	.00311	.00103	.00066	.02343	.00539

664 1579

#3	.00982	.05897	-.03870	.00103	.00066	-.07074	.00039
#4	.00590	.05899	-.02210	.00103	.00066	.01166	.00152
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
 Units ppm
 Avge .00085
 SDev .00109
 %RSD 128.04

#1 .00068
 #2 .00094
 #3 -.00044
 #4 .00222

Errors LC Pass
 High .02000
 Low -.02000

Method: QUANMET Sample Name: DGHDCBW

Operator: MTW

Run Time: 07/24/00 12:05:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1580

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	.00896	-.01269	.00815	.00005	.00019	.01277
SDev	.00188	.01169	.04120	.01412	.00012	.00007	.00252
%RSD	258.39	130.44	324.71	173.30	242.44	33.761	19.751
#1	-.00002	.00542	-.06203	-.00863	.00023	.00024	.01230
#2	.00148	.01437	-.03124	.02593	.00002	.00021	.01566
#3	-.00145	-.00551	.02331	.00765	.00002	.00010	.00961
#4	.00291	.02157	.01921	.00764	-.00007	.00023	.01350
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	-.00035	-.00054	-.00111	.00757	-.00625	-.00003
SDev	.00160	.00353	.00146	.00045	.00117	.16332	.00064
%RSD	476.11	995.91	270.74	40.225	15.428	2611.3	1903.6
#1	.00176	.00070	-.00108	-.00133	.00791	-.19596	-.00058
#2	.00089	.00353	.00162	-.00044	.00791	.17095	.00015
#3	.00064	-.00495	-.00162	-.00134	.00589	.07922	-.00050
#4	-.00195	-.00070	-.00108	-.00133	.00858	-.07922	.00080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00609	.00050	.00250	.01080	-.00710	-.02487	.01833
SDev	.00469	.00057	.00289	.00787	.00235	.03506	.01324
%RSD	76.980	114.63	115.41	72.868	33.074	140.94	72.222
#1	-.00745	.00000	.00500	.01113	-.00598	-.06887	.01565
#2	.00068	.00100	.00000	.00801	-.00857	.01545	.03674
#3	-.00745	.00000	.00500	.00267	-.00949	-.03075	.00516
#4	-.01015	.00100	.00000	.02137	-.00437	-.01533	.01579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01569	.04423	-.02032	.00000	.00025	-.02657	.00005
SDev	.02404	.02988	.01613	.00011	.00082	.04441	.00397
%RSD	153.23	67.557	79.381	.00000	333.33	167.17	8405.8
#1	.03332	.05302	-.00097	-.00012	.00000	-.07070	-.00481
#2	.03332	.05904	-.03018	-.00001	.00033	.01164	.00491

664 1581

#3	.01373	.00000	-.01358	.00014	-.00066	-.05890	.00009
#4	-.01761	.06487	-.03656	-.00001	.00131	.01170	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	-.00025
SDev	.00175
%RSD	709.49

#1	-.00066
#2	.00072
#3	-.00251
#4	.00147

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DGJ66BW

Operator: MTW

Run Time: 07/24/00 12:08:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1582

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00146	.02202	.00466	.03250	.00087	.00010	.28632
SDev	.00358	.01287	.03012	.01280	.00031	.00001	.00709
%RSD	245.49	58.445	646.79	39.391	35.679	11.264	2.4744
#1	.00291	.02703	.02305	.04668	.00101	.00010	.28205
#2	-.00148	.00898	-.03878	.03387	.00052	.00011	.28392
#3	-.00145	.01442	.00761	.03387	.00072	.00009	.28243
#4	.00585	.03764	.02675	.01557	.00121	.00008	.29687
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00132	.00036	.00068	.00133	.00690	.34189	.00033
SDev	.00223	.00178	.00204	.00073	.00117	.27911	.00128
%RSD	169.16	500.81	301.68	54.437	16.931	81.638	395.26
#1	-.00332	.00071	-.00000	.00045	.00791	.18763	-.00012
#2	.00095	-.00212	-.00162	.00133	.00589	.06254	-.00107
#3	-.00315	.00071	.00108	.00133	.00589	.42111	.00050
#4	.00024	.00212	.00324	.00222	.00791	.69630	.00199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05619	.00050	.00125	2.1884	-.00738	.01721	-.00531
SDev	.01602	.00057	.00750	.0149	.00287	.01302	.02264
%RSD	28.511	115.13	599.51	.68290	38.844	75.650	426.70
#1	.04400	.00099	-.00500	2.1911	-.00404	.03060	-.01573
#2	.04129	.00000	.00500	2.2067	-.01049	.02287	-.02632
#3	.07379	-.00000	-.00500	2.1849	-.00887	.01531	-.00530
#4	.06566	.00100	.01000	2.1707	-.00612	.00007	.02612
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01177	.23443	-.00840	.00055	.00066	.00876	.00033
SDev	.03207	.03060	.00997	.00016	.00080	.07532	.00409
%RSD	272.45	13.055	118.76	28.572	122.47	860.05	1230.2
#1	.05291	.18872	-.00950	.00051	.00098	-.00008	-.00010
#2	-.01370	.24763	-.02210	.00040	.00000	.05886	-.00482

664 1583

#3	-.01370	.24771	-.00107	.00051	.00000	-.09427	.00113
#4	.02157	.25366	-.00093	.00077	.00164	.07052	.00511
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
 Units ppm
 Avge .00878
 SDev .00172
 %RSD 19.574

#1 .00623
 #2 .00998
 #3 .00946
 #4 .00946

Errors LC Pass
 High .02000
 Low -.02000

Method: QUANMET Sample Name: DGHDCCW

Operator: MTW

Run Time: 07/24/00 12:11:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1584

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04804	1.9319	1.9065	.97517	1.8978	.04790	49.723
SDev	.00137	.0031	.0152	.01067	.0196	.00021	.160
%RSD	2.8475	.16147	.79706	1.0939	1.0306	.43792	.32210
#1	.04912	1.9360	1.8871	.96374	1.8910	.04788	49.521
#2	.04911	1.9307	1.9143	.98588	1.8759	.04762	49.667
#3	.04626	1.9323	1.9025	.98244	1.9224	.04811	49.845
#4	.04769	1.9286	1.9220	.96861	1.9018	.04800	49.858
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04597	.47679	.19211	.23695	1.0311	47.784	.94719
SDev	.00263	.00371	.00270	.00255	.0032	.388	.01324
%RSD	5.7165	.77785	1.4081	1.0768	.31504	.81273	1.3984
#1	.04260	.47150	.19075	.23628	1.0307	47.628	.94502
#2	.04539	.47858	.19075	.23362	1.0267	47.311	.93035
#3	.04872	.47711	.19617	.23895	1.0341	48.045	.96206
#4	.04718	.47996	.19076	.23895	1.0328	48.153	.95130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.042	.47823	.97378	51.024	.46890	.47944	.48796
SDev	.399	.00244	.01548	.553	.01130	.01254	.03032
%RSD	.81273	.50972	1.5894	1.0844	2.4105	2.6162	6.2141
#1	48.854	.47724	.96503	50.934	.46505	.46403	.52472
#2	48.632	.47525	.96003	50.369	.45745	.49475	.45123
#3	49.558	.48022	.97503	51.716	.48430	.47946	.49334
#4	49.125	.48023	.99503	51.078	.46881	.47952	.48257
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9136	9.9596	1.9370	.95808	.95119	1.9483	.47941
SDev	.0229	.0473	.0155	.00885	.00657	.0309	.00487
%RSD	1.1983	.47526	.80283	.92402	.69029	1.5863	1.0160
#1	1.9048	9.9315	1.9241	.95451	.94783	1.9278	.47556
#2	1.9008	9.9138	1.9342	.94829	.94454	1.9160	.47546

664 1585

#3	1.9009	10.020	1.9302	.96907	.95964	1.9748	.48558
#4	1.9479	9.9729	1.9594	.96047	.95275	1.9748	.48105
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem ZN
Units ppm
Avge .48069
SDev .00575
%RSD 1.1951

#1 .47470
#2 .47685
#3 .48531
#4 .48589

Errors LC Pass
High .60000
Low .40000

Method: QUANMET Sample Name: DS12C01CSW

Operator: MTW

Run Time: 07/24/00 12:15:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1586**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.56903	.01710	.12076	.02159	.00009	51.864
SDev	.00140	.00902	.01455	.00300	.00056	.00010	.194
%RSD	283.76	1.5843	85.098	2.4836	2.6095	111.11	.37385
#1	.00014	.57895	.02958	.12304	.02178	.00021	52.056
#2	.00160	.56806	.02967	.11816	.02228	.00008	51.803
#3	-.00134	.55733	.00268	.11817	.02129	-.00003	51.977
#4	.00157	.57178	.00645	.12365	.02100	.00010	51.620
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00141	-.00073	.00135	.00270	.48792	.52327	.00327
SDev	.00147	.00200	.00093	.00115	.00168	.48137	.00028
%RSD	104.19	274.85	69.185	42.467	.34465	91.993	8.6429
#1	-.00017	.00210	.00216	.00404	.48708	1.0048	.00354
#2	-.00019	-.00214	.00162	.00315	.48708	.82138	.00318
#3	-.00216	-.00214	.00162	.00137	.49045	-.05420	.00291
#4	-.00313	-.00072	.00000	.00226	.48708	.32105	.00346
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.1600	.00535	.00757	22.705	-.00524	.00335	-.00011
SDev	.0230	.00050	.00289	.134	.00314	.01932	.01821
%RSD	.72837	9.2753	38.121	.59228	59.862	577.35	17238.
#1	3.1823	.00510	.00507	22.830	-.00234	.03024	.01568
#2	3.1606	.00510	.01007	22.783	-.00395	-.00050	.01565
#3	3.1688	.00510	.01007	22.681	-.00964	-.00053	-.01597
#4	3.1282	.00609	.00507	22.526	-.00502	-.01582	-.01579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01341	3.0549	-.00151	.23868	.00788	.00381	.00260
SDev	.04284	.0340	.01668	.00145	.00027	.06891	.00284
%RSD	319.57	1.1146	1107.6	.60571	3.4021	1808.6	108.93
#1	-.05552	3.0255	.00118	.24004	.00788	.04205	.00501
#2	-.02418	3.0844	-.00719	.23952	.00820	.03030	.00511

664 1587

#3	-.02026	3.0844	.01988	.23837	.00755	-.09922	.00020
#4	.04634	3.0254	-.01990	.23677	.00788	.04211	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01544
SDev	.00325
%RSD	21.050

#1	.01894
#2	.01738
#3	.01340
#4	.01205

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DS12C01CSP5W

Operator: MTW

Run Time: 07/24/00 12:18:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1588

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.11369	.01836	.02535	.00435	.00010	10.706
SDev	.00119	.00402	.02074	.00816	.00025	.00011	.069
%RSD	4979.6	3.5344	112.97	32.200	5.6856	108.87	.64154
#1	.00002	.11514	.01447	.02855	.00447	.00023	10.804
#2	-.00143	.11142	.01837	.02653	.00447	-.00003	10.671
#3	.00002	.11863	.04547	.01371	.00447	.00010	10.701
#4	.00148	.10959	-.00488	.03262	.00398	.00010	10.649
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00124	-.00000	-.00067	.00045	.09944	.25225	.00009
SDev	.00164	.00245	.00092	.00126	.00095	.34371	.00066
%RSD	132.58	129420.	136.87	278.27	.95684	136.26	751.33
#1	-.00281	.00353	-.00054	.00223	.09944	.74633	.00096
#2	.00085	-.00213	.00054	.00045	.10078	.05420	.00023
#3	-.00224	-.00071	-.00162	-.00044	.09876	-.01251	-.00050
#4	-.00075	-.00071	-.00108	-.00044	.09876	.22098	-.00034
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.63430	.00177	.00501	4.5748	-.00716	-.01540	.00255
SDev	.00989	.00050	.00408	.0527	.00654	.01084	.01004
%RSD	1.5588	28.102	81.407	1.1523	91.295	70.369	394.25
#1	.63971	.00201	.00001	4.5274	-.00879	-.01529	.01571
#2	.62346	.00102	.00501	4.6503	-.01482	-.03077	.00507
#3	.64513	.00201	.00501	4.5617	-.00599	-.00778	-.00529
#4	.62888	.00202	.01001	4.5599	.00094	-.00777	-.00530
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00561	.67379	-.00678	.04861	.00181	.05197	.00010
SDev	.03401	.02654	.00909	.00028	.00019	.03904	.00008
%RSD	605.67	3.9387	134.05	.57908	10.497	75.128	82.110
#1	.00222	.71360	-.01562	.04872	.00197	.08138	-.00000
#2	.03357	.66052	.00108	.04882	.00164	.04608	.00010

664 1589

#3	-.00953	.66052	-.01362	.04872	.00197	-.00100	.00009
#4	-.04871	.66052	.00103	.04820	.00164	.08142	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00373
SDev	.00080
%RSD	21.431

#1	.00333
#2	.00493
#3	.00334
#4	.00332

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DS12C01CSSW

Operator: MTW

Run Time: 07/24/00 12:21:17

664 1590

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04523	2.6435	1.9041	1.0824	1.9069	.04765	100.08
SDev	.00217	.0220	.0434	.0265	.0360	.00055	.26
%RSD	4.7944	.83119	2.2771	2.4437	1.8880	1.1495	.26467
#1	.04198	2.6714	1.9193	1.1023	1.9481	.04826	99.733
#2	.04631	2.6354	1.9585	1.0974	1.9013	.04749	100.02
#3	.04631	2.6193	1.8656	1.0441	1.8615	.04698	100.27
#4	.04632	2.6478	1.8731	1.0856	1.9167	.04788	100.30
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04389	.46372	.18603	.23786	1.4874	48.609	.95746
SDev	.00436	.00407	.00405	.00311	.0119	.475	.02583
%RSD	9.9390	.87686	2.1789	1.3080	.79942	.97631	2.6978
#1	.03983	.46863	.18373	.24164	1.4978	49.229	.98537
#2	.04350	.45878	.18211	.23631	1.4870	48.453	.95350
#3	.05003	.46445	.19129	.23453	1.4708	48.095	.92404
#4	.04221	.46300	.18698	.23897	1.4938	48.662	.96694
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.860	.47512	.96760	71.866	.46833	.49764	.46445
SDev	.669	.00188	.01190	1.568	.01296	.02222	.03460
%RSD	1.2905	.39674	1.2300	2.1812	2.7663	4.4645	7.4500
#1	52.542	.47636	.96510	73.638	.45191	.50155	.44082
#2	51.806	.47537	.96010	71.542	.47783	.47068	.44099
#3	50.964	.47238	.96010	69.901	.46406	.52455	.51421
#4	52.128	.47637	.98510	72.382	.47953	.49379	.46179
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8844	13.656	1.9014	1.1832	.95045	1.9437	.47683
SDev	.0316	.095	.0283	.0204	.01045	.0201	.00243
%RSD	1.6761	.69515	1.4897	1.7219	1.0996	1.0354	.50962
#1	1.9099	13.730	1.8651	1.2065	.96227	1.9229	.48045
#2	1.9021	13.676	1.8965	1.1794	.94750	1.9467	.47545

664 1591

#3	1.8863	13.517	1.9325	1.1577	.93765	1.9350	.47546
#4	1.8394	13.700	1.9113	1.1892	.95439	1.9702	.47594
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.47742
SDev	.00366
%RSD	.76605

#1	.47837
#2	.47352
#3	.47577
#4	.48203

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DS12C01CSDW Operator: MTW
 Run Time: 07/24/00 12:24:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1592**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04632	2.6533	1.8817	1.0865	1.9053	.04785	100.18
SDev	.00120	.0145	.0111	.0099	.0187	.00036	.40
%RSD	2.5826	.54643	.59201	.91463	.98105	.75012	.40391
#1	.04487	2.6731	1.8845	1.0995	1.9298	.04827	100.49
#2	.04632	2.6479	1.8963	1.0856	1.8932	.04749	99.736
#3	.04780	2.6389	1.8731	1.0753	1.8885	.04761	100.56
#4	.04632	2.6533	1.8730	1.0856	1.9095	.04801	99.947
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04472	.46477	.18913	.23720	1.4993	48.155	.95267
SDev	.00314	.00532	.00679	.00291	.0093	.863	.00967
%RSD	7.0154	1.1453	3.5908	1.2250	.62148	1.7922	1.0149
#1	.04171	.47147	.19292	.24076	1.5126	48.895	.96345
#2	.04326	.45878	.18967	.23364	1.4910	46.969	.94962
#3	.04489	.46584	.19454	.23720	1.4958	48.678	.94090
#4	.04900	.46299	.17941	.23720	1.4978	48.078	.95673
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.639	.47711	.97385	71.364	.47530	.47857	.49336
SDev	.305	.00170	.00629	.697	.01595	.04520	.01472
%RSD	.59055	.35633	.64608	.97633	3.3559	9.4440	2.9844
#1	52.030	.47935	.98010	72.193	.47183	.52467	.49332
#2	51.440	.47537	.96510	70.910	.46217	.41717	.50380
#3	51.359	.47736	.97510	70.681	.49845	.47858	.47255
#4	51.727	.47637	.97510	71.674	.46875	.49384	.50378
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9589	13.651	1.8811	1.1820	.95258	1.8847	.47695
SDev	.0513	.096	.0248	.0104	.00571	.0934	.00248
%RSD	2.6208	.70311	1.3159	.88228	.59972	4.9535	.52011
#1	1.9922	13.771	1.8612	1.1952	.96030	1.9110	.47585
#2	1.9843	13.541	1.8654	1.1747	.94750	1.8642	.47556

664 1593

#3	1.8825	13.623	1.8820	1.1727	.94914	1.9936	.48067
#4	1.9765	13.671	1.9157	1.1855	.95340	1.7700	.47573
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.48147
SDev	.00361
%RSD	.75061

#1	.47649
#2	.48477
#3	.48333
#4	.48129

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET ; Sample Name: DS13C01CSW

Operator: MTW

Run Time: 07/24/00 12:27:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1594**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	30.761	.00580	.42948	.12699	.00137	34.193
SDev	.00141	.152	.05286	.00369	.00096	.00006	.183
%RSD	57.666	.49444	911.79	.85986	.75598	4.2082	.53604
#1	.00131	30.548	.05625	.42842	.12556	.00134	33.945
#2	.00138	30.891	-.04384	.43241	.12754	.00134	34.261
#3	.00283	30.844	-.03567	.43237	.12754	.00134	34.186
#4	.00429	30.760	.04645	.42470	.12734	.00145	34.379
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00240	.01031	.05224	.01786	28.821	4.6885	.02239
SDev	.00144	.00268	.00149	.00162	.127	.4590	.00089
%RSD	60.020	25.966	2.8474	9.0553	.43932	9.7895	3.9964
#1	-.00082	.00855	.05076	.01873	28.640	4.7907	.02142
#2	-.00195	.00996	.05400	.01698	28.921	4.7740	.02245
#3	-.00258	.00855	.05130	.01608	28.895	4.0485	.02210
#4	-.00427	.01421	.05292	.01964	28.826	5.1409	.02357
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.7134	.26066	.01056	53.369	.01763	.02454	.01248
SDev	.0137	.00128	.00250	.344	.00577	.01469	.00997
%RSD	.23971	.49178	23.680	.64443	32.703	59.888	79.907
#1	5.7087	.25888	.00928	53.006	.01819	.01317	.00464
#2	5.7303	.26193	.00932	53.662	.01021	.02827	.02547
#3	5.7168	.26093	.00932	53.663	.01784	.01294	.01514
#4	5.6978	.26092	.01431	53.143	.02428	.04377	.00467
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01516	H60.232	.00635	.13670	.35379	.03298	.06995
SDev	.04083	.241	.01459	.00075	.00154	.07510	.00277
%RSD	269.44	.39999	229.97	.54809	.43510	227.70	3.9594
#1	-.07538	H59.884	-.00105	.13582	.35182	.12906	.06778
#2	.01547	H60.350	.02631	.13727	.35445	-.02691	.06901

664 1595

#3	-.00027	H60.426	-.00724	.13738	.35543	-.02663	.06901
#4	-.00045	H60.267	.00736	.13634	.35347	.05642	.07402
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .10868
 SDev .00223
 %RSD 2.0528

#1 .10999
 #2 .11079
 #3 .10576
 #4 .10818

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: DSDUP02W

Operator: MTW

Run Time: 07/24/00 12:30:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1596**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00231	24.934	.03640	.46931	.10046	.00099	20.675
SDev	.00072	.100	.00590	.01698	.00047	.00001	.062
%RSD	31.253	.40213	16.202	3.6185	.47137	.51286	.30006
#1	.00268	24.984	.04274	.44434	.10083	.00099	20.706
#2	.00265	24.826	.02865	.47522	.09984	.00099	20.589
#3	.00268	24.878	.03587	.47529	.10034	.00098	20.674
#4	.00123	25.047	.03835	.48238	.10083	.00099	20.731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00334	.00740	.04023	.01223	22.374	3.4815	.01457
SDev	.00211	.00241	.00103	.00085	.064	.3468	.00029
%RSD	63.266	32.507	2.5717	6.9900	.28788	9.9625	1.9748
#1	L-.00540	.00846	.04104	.01290	22.423	3.6149	.01489
#2	-.00354	.00423	.03888	.01111	22.299	3.0896	.01470
#3	-.00040	.00987	.04104	.01290	22.342	3.8901	.01443
#4	-.00402	.00706	.03995	.01201	22.432	3.3314	.01424
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.3670	.16682	.00959	43.641	.01780	.02950	-.00595
SDev	.0304	.00002	.00749	.199	.01242	.03882	.01920
%RSD	.69510	.00917	78.096	.45542	69.764	131.59	322.46
#1	4.3602	.16683	.01335	43.789	.02125	.01798	-.02698
#2	4.3494	.16680	.01333	43.425	.00746	-.02028	-.01653
#3	4.3466	.16681	.01334	43.520	.00859	.06409	.01497
#4	4.4116	.16683	-.00164	43.829	.03388	.05622	.00473
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01879	H52.752	.00690	.08709	.41607	.02261	.05518
SDev	.01893	.221	.01453	.00051	.00557	.02001	.00189
%RSD	100.73	.41902	210.55	.58369	1.3377	88.475	3.4341
#1	.02969	H52.889	.02039	.08751	.42337	.01622	.05434
#2	.03720	H52.512	-.00676	.08647	.41320	.01754	.05433

664 1597

#3	.01381	H52.624	-.00452	.08688	.41714	.00524	.05802
#4	-.00554	H52.984	.01850	.08751	.41057	.05146	.05405
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .09898
 SDev .00105
 %RSD 1.0651

#1 .10046
 #2 .09842
 #3 .09896
 #4 .09808

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: 193C02CSW2W Operator: MTW
 Run Time: 07/24/00 12:34:01
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

664 1598

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00167	2.2994	.00289	.20995	.01996	.00017	26.949
SDev	.00074	.0158	.01773	.00180	.00010	.00006	.101
%RSD	44.112	.68806	614.69	.85809	.51021	34.813	.37381
#1	.00202	2.2999	.02134	.21006	.01981	.00021	26.843
#2	.00057	2.2855	-.01732	.20740	.02001	.00008	26.885
#3	.00205	2.3214	-.00607	.21150	.02001	.00020	27.018
#4	.00204	2.2908	.01359	.21085	.02001	.00020	27.051
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	.00204	.00351	.00196	2.2805	1.1904	.00355
SDev	.00268	.00001	.00129	.00115	.0082	.3299	.00084
%RSD	247.69	.39350	36.673	58.470	.35787	27.712	23.697
#1	-.00455	.00205	.00378	.00329	2.2833	1.0465	.00262
#2	.00134	.00204	.00432	.00152	2.2739	1.0715	.00310
#3	.00069	.00204	.00162	.00063	2.2907	.96314	.00402
#4	-.00180	.00205	.00432	.00240	2.2739	1.6803	.00446
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8162	.01377	.00534	17.350	-.00688	-.00571	-.00017
SDev	.0047	.00049	.00000	.174	.00426	.01326	.02009
%RSD	.25822	3.5975	.02285	1.0056	61.825	232.27	11925.
#1	1.8230	.01352	.00534	17.462	-.00642	-.00190	-.01592
#2	1.8122	.01352	.00534	17.285	-.01258	.00576	-.01591
#3	1.8149	.01352	.00534	17.519	-.00227	-.02486	.00513
#4	1.8149	.01451	.00534	17.135	-.00626	-.00184	.02603
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00111	7.6639	.00499	.10426	.04193	-.00588	.00747
SDev	.03007	.0375	.02103	.00088	.00138	.02803	.00283
%RSD	2706.1	.48896	421.45	.84640	3.2824	476.92	37.906
#1	.00797	7.6491	.00754	.10502	.04135	.03532	.00502
#2	-.03123	7.6432	-.02386	.10342	.04102	-.01168	.00502

664 1599

#3	-.01159	7.7199	.00972	.10502	.04398	-.02366	.00992
#4	.03929	7.6433	.02657	.10358	.04135	-.02349	.00993
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01737
SDev	.00132
%RSD	7.5832

#1	.01721
#2	.01724
#3	.01911
#4	.01591

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-3

Operator: MTW

Run Time: 07/24/00 12:37:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1600**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0032	50.025	4.9999	5.0416	4.9156	4.9931	51.708
SDev	.0031	.198	.0476	.0210	.0280	.0187	.143
%RSD	.30769	.39625	.95161	.41599	.56928	.37459	.27625
#1	.99985	50.002	5.0227	5.0341	4.9133	4.9930	51.517
#2	1.0057	49.916	5.0115	5.0268	4.9051	4.9899	51.691
#3	1.0059	50.311	4.9300	5.0727	4.9549	5.0175	51.774
#4	1.0013	49.871	5.0353	5.0327	4.8893	4.9721	51.849
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.1865	5.0307	5.0141	4.9164	52.215	49.785	4.8865
SDev	.0195	.0094	.0140	.0298	.142	.240	.0506
%RSD	.37687	.18644	.27893	.60589	.27224	.48205	1.0352
#1	5.1783	5.0173	4.9963	4.9208	52.119	49.604	4.9059
#2	5.1627	5.0315	5.0120	4.9093	52.155	49.796	4.8640
#3	5.2038	5.0356	5.0298	4.9537	52.426	50.121	4.9464
#4	5.2012	5.0385	5.0185	4.8818	52.157	49.621	4.8299
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.419	5.0214	5.0372	50.414	5.1140	5.0873	5.0847
SDev	.228	.0132	.0258	.350	.0256	.0202	.0326
%RSD	.45127	.26344	.51287	.69452	.49993	.39788	.64204
#1	50.417	5.0087	5.0072	50.496	5.0804	5.0966	5.1214
#2	50.338	5.0156	5.0272	50.248	5.1090	5.0893	5.1004
#3	50.731	5.0396	5.0672	50.863	5.1280	5.0585	5.0478
#4	50.192	5.0216	5.0472	50.050	5.1388	5.1048	5.0692
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.9701	5.1166	5.0780	4.9473	4.9479	10.105	5.0076
SDev	.1038	.0462	.0371	.0274	.0190	.088	.0168
%RSD	2.0879	.90299	.72993	.55451	.38362	.86734	.33499
#1	4.8562	5.0766	5.0578	4.9459	4.9439	10.048	4.9935
#2	5.0130	5.1534	5.1017	4.9352	4.9413	10.047	5.0062

664 1601

#3	5.0921	5.1596	5.1160	4.9858	4.9751	10.233	5.0316
#4	4.9190	5.0767	5.0366	4.9223	4.9311	10.094	4.9993
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9903
SDev	.0146
%RSD	.29306

#1	4.9895
#2	4.9805
#3	5.0112
#4	4.9800

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET ' Sample Name: CCB3

Operator: MTW

Run Time: 07/24/00 12:40:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1602**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00220	.02634	.02686	.00998	.00113	.00093	.03366
SDev	.00347	.01335	.01876	.01752	.00062	.00030	.00642
%RSD	157.52	50.674	69.858	175.52	54.849	32.892	19.078
#1	-.00145	.01068	.04257	.03285	.00101	.00074	.02799
#2	.00003	.02323	-.00029	-.00375	.00052	.00086	.02953
#3	.00439	.02854	.03070	.01456	.00101	.00073	.03495
#4	.00585	.04293	.03445	-.00373	.00200	.00138	.04219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.00176	.00338	.00111	.00993	.61708	.00085
SDev	.00270	.00135	.00189	.00044	.00429	.20318	.00098
%RSD	544.15	76.619	55.942	39.914	43.232	32.926	115.68
#1	.00099	.00212	.00108	.00045	.00589	.37108	-.00034
#2	.00241	.00352	.00270	.00134	.00858	.86308	.00058
#3	.00205	.00070	.00541	.00133	.00926	.65460	.00115
#4	-.00346	.00071	.00433	.00133	.01599	.57955	.00199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01354	.00150	.01750	.02237	-.00450	.01727	.01031
SDev	.00746	.00100	.00289	.00477	.00593	.02454	.01812
%RSD	55.076	66.405	16.497	21.333	131.80	142.10	175.80
#1	.00609	.00100	.01500	.01603	-.00452	.00770	-.00545
#2	.01692	.00100	.01500	.02315	-.00886	.05368	.00512
#3	.00880	.00100	.02000	.02270	-.00850	.00771	.03644
#4	.02234	.00299	.02000	.02760	.00389	-.00000	.00512
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00394	.04871	.01627	.00115	.00148	.02636	.00403
SDev	.03568	.03282	.02099	.00026	.00063	.05119	.00249
%RSD	904.76	67.391	128.99	22.442	42.552	194.23	61.845
#1	.05290	.00000	.03242	.00103	.00098	.03525	.00029
#2	.00590	.06494	-.01149	.00103	.00098	-.00015	.00520

664 1603

#3	-.01369	.07084	.03261	.00103	.00164	-.02368	.00531
#4	-.02934	.05904	.01153	.00154	.00230	.09401	.00530
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00194
SDev	.00172
%RSD	88.525

#1	.00013
#2	.00095
#3	.00392
#4	.00278

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: 193C04CSW3W

Operator: MTW

Run Time: 07/24/00 12:43:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1604**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	13.407	.01824	.18381	.06153	.00073	25.356
SDev	.00219	.031	.04251	.00248	.00037	.00007	.228
%RSD	1387.0	.22826	233.08	1.3515	.60225	9.6694	.89744

#1	-.00125	13.407	.00856	.18269	.06156	.00079	25.137
#2	-.00127	13.389	-.03776	.18128	.06126	.00068	25.245
#3	.00313	13.450	.04694	.18420	.06205	.00079	25.379
#4	-.00123	13.382	.05522	.18708	.06126	.00067	25.664

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00134	.00247	.02079	.00655	12.519	2.1160	.01113
SDev	.00214	.00182	.00185	.00111	.032	.2243	.00076
%RSD	160.08	73.490	8.8796	16.992	.25263	10.601	6.8699

#1	-.00274	.00036	.01890	.00766	12.490	2.2390	.01167
#2	-.00355	.00177	.01998	.00677	12.496	1.8554	.01102
#3	.00004	.00317	.02322	.00678	12.534	2.3557	.01175
#4	.00090	.00459	.02106	.00500	12.557	2.0138	.01010

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1701	.07533	.00562	16.727	.00296	.02339	-.00827
SDev	.0147	.00100	.00479	.153	.00710	.00449	.03951
%RSD	.46523	1.3271	85.146	.91417	240.11	19.190	477.86

#1	3.1688	.07483	.00687	16.881	.00590	.01946	-.04755
#2	3.1498	.07483	.00187	16.748	-.00355	.01955	-.01621
#3	3.1823	.07484	.01187	16.763	-.00212	.02728	.04666
#4	3.1796	.07683	.00188	16.516	.01159	.02727	-.01596

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00913	H28.880	.00057	.09957	.19831	-.01132	.02838
SDev	.00579	.087	.02628	.00047	.00194	.09576	.00250
%RSD	63.441	.30157	4573.1	.46771	.97791	845.81	8.8284

#1	-.00431	H28.815	-.01426	.09984	.19626	.08318	.02962
#2	-.00430	H28.798	.01100	.09958	.19856	-.09348	.02462

664 1605

#3	-.01203	H28.933	.03223	.09995	.20085	.05916	.02973
#4	-.01589	H28.975	-.02667	.09891	.19757	-.09415	.02953
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .05199
 SDev .00080
 %RSD 1.5288

#1 .05273
 #2 .05086
 #3 .05221
 #4 .05217

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: 193C05CSN3W Operator: MTW
 Run Time: 07/24/00 12:46:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1606**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00131	.33074	.03352	.06804	.01187	.00012	28.922
SDev	.00119	.00464	.05677	.00143	.00020	.00006	.114
%RSD	90.481	1.4025	169.40	2.0943	1.7142	55.772	.39412

#1	-0.00277	.32538	-.00328	.06975	.01189	.00021	28.780
#2	.00014	.33615	-.01113	.06631	.01210	.00008	29.032
#3	-0.00131	.33253	.11301	.06774	.01189	.00008	28.993
#4	-0.00131	.32891	.03547	.06834	.01160	.00008	28.882

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	-.00072	.00027	.00026	.48708	.45447	.00090
SDev	.00095	.00115	.00218	.00133	.00436	.34738	.00039
%RSD	475.60	159.28	811.11	511.68	.89547	76.435	43.471

#1	.00152	.00069	.00324	.00137	.48102	.71298	.00039
#2	-.00067	-.00072	-.00108	-.00041	.48910	.28769	.00099
#3	.00020	-.00214	.00054	.00137	.49112	.77135	.00088
#4	-.00026	-.00072	-.00162	-.00129	.48708	.04586	.00134

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3830	.00237	.00632	8.8888	-.00881	-.01755	.00779
SDev	.0166	.00050	.00250	.0494	.00613	.01305	.01324
%RSD	1.2016	20.952	39.539	.55609	69.607	74.324	169.95

#1	1.3708	.00212	.00507	8.8875	-.00283	-.02322	.02624
#2	1.3898	.00311	.00507	8.9591	-.00922	-.01566	-.00530
#3	1.4033	.00212	.00507	8.8545	-.00606	-.00037	.00513
#4	1.3681	.00212	.01007	8.8541	-.01713	-.03095	.00510

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00949	3.3115	-.01559	.10687	.00640	-.00210	.00503
SDev	.00196	.0156	.02056	.00023	.00033	.03887	.00005
%RSD	20.603	.47118	131.83	.21731	5.1282	1848.7	.91282

#1	-.00853	3.3027	-.03435	.10699	.00624	-.04032	.00501
#2	-.01242	3.3321	-.02194	.10705	.00689	.01849	.00500

664 1607

#3	-.00850	3.2968	.01370	.10690	.00624	.04202	.00501
#4	-.00851	3.3144	-.01979	.10653	.00624	-.02860	.00510
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00517
SDev	.00119
%RSD	23.104

#1	.00675
#2	.00435
#3	.00543
#4	.00415

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGKEMB

Operator: MTW

Run Time: 07/24/00 12:49:47

664 1608

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00147	.01798	.00658	.00755	.00015	.00016	.05268
SDev	.00204	.01094	.01854	.01632	.00015	.00007	.00197
%RSD	139.00	60.863	281.74	216.09	101.16	48.512	3.7430
#1	.00003	.01244	.01143	.02596	.00002	.00008	.05078
#2	.00437	.02523	-.00798	.01660	.00023	.00010	.05314
#3	.00146	.02883	.03078	-.00515	.00002	.00023	.05155
#4	.00003	.00540	-.00791	-.00719	.00031	.00021	.05525
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00177	.00175	.00023	.01767	.49616	.00032
SDev	.00239	.00212	.00092	.00085	.00129	.23830	.00049
%RSD	7357.0	119.94	52.574	378.61	7.2951	48.029	154.19
#1	.00174	.00070	.00162	-.00044	.01598	.32105	.00023
#2	.00022	.00070	.00054	-.00044	.01733	.29603	-.00023
#3	-.00341	.00071	.00270	.00045	.01868	.56288	.00096
#4	.00157	.00494	.00216	.00134	.01867	.80470	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00135	.00050	.00000	.02771	-.00195	-.00763	-.00266
SDev	.00973	.00057	.00707	.00645	.00367	.01398	.01319
%RSD	718.80	114.50	267620.	23.256	188.80	183.40	495.80
#1	-.00474	.00100	.01000	.02315	.00017	-.01531	-.00536
#2	-.00745	.00100	-.00500	.03561	-.00633	-.02295	.01569
#3	.01422	.00000	-.00500	.03027	.00185	.00763	-.01575
#4	.00338	.00001	.00000	.02181	-.00347	.00012	-.00523
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01171	.06638	.00889	.00016	.00049	.02039	.00246
SDev	.01767	.00293	.01737	.00020	.00063	.07154	.00295
%RSD	150.91	4.4104	195.48	130.16	127.66	350.77	119.90
#1	-.01367	.06494	.02824	-.00001	.00000	.03512	.00511
#2	-.02150	.06487	.00740	-.00001	.00131	.08225	-.00010

664 1609

#3	-.02542	.07077	.01353	.00040	.00066	-.08262	-.00009
#4	.01376	.06493	-.01363	.00025	.00000	.04683	.00491

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00551
SDev	.00223
%RSD	40.424

#1	.00624
#2	.00280
#3	.00809
#4	.00492

Errors	LC Pass
High	.02000
Low	-.02000

Method: !QUANMET Sample Name: DGKEMC

Operator: MTW

Run Time: 07/24/00 12:52:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1610

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04883	1.9506	1.9817	.95632	1.9375	.04894	51.080
SDev	.00323	.0123	.0638	.02559	.0137	.00025	.186
%RSD	6.6061	.62975	3.2192	2.6762	.70949	.50593	.36400
#1	.05211	1.9483	1.9216	.93466	1.9172	.04862	51.052
#2	.04774	1.9395	1.9333	.93405	1.9474	.04888	50.836
#3	.04483	1.9465	2.0496	.97411	1.9419	.04913	51.160
#4	.05065	1.9681	2.0223	.98246	1.9435	.04913	51.272
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04776	.49017	.19711	.24252	1.0513	48.933	.95848
SDev	.00375	.00071	.00280	.00103	.0045	.188	.01019
%RSD	7.8467	.14426	1.4215	.42308	.42408	.38322	1.0635
#1	.04670	.48984	.20102	.24163	1.0483	49.129	.94556
#2	.04523	.48982	.19508	.24163	1.0483	48.720	.97033
#3	.04580	.49123	.19724	.24340	1.0510	49.045	.95765
#4	.05331	.48979	.19508	.24340	1.0577	48.837	.96038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.244	.49140	.99878	49.893	.49779	.51042	.48806
SDev	.277	.00149	.01031	.358	.01680	.02578	.01810
%RSD	.55089	.30372	1.0319	.71665	3.3745	5.0516	3.7094
#1	49.829	.49016	1.0000	49.373	.48873	.52576	.51414
#2	50.371	.49016	.98503	50.179	.48101	.47213	.48283
#3	50.392	.49215	1.0100	49.973	.50209	.52574	.47223
#4	50.384	.49314	1.0000	50.050	.51934	.51804	.48304
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9704	9.8241	1.9631	.98151	.96235	1.9657	.49095
SDev	.0372	.0404	.0290	.00595	.00448	.0243	.00020
%RSD	1.8893	.41119	1.4772	.60590	.46542	1.2365	.04098
#1	1.9753	9.8079	1.9826	.97265	.95603	1.9627	.49098
#2	1.9205	9.8020	1.9280	.98503	.96292	1.9981	.49068

664 1611

#3	1.9753	9.8020	1.9908	.98348	.96391	1.9627	.49117
#4	2.0106	9.8845	1.9510	.98488	.96653	1.9391	.49097

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.48453
SDev	.00445
%RSD	.91817

#1	.47944
#2	.48956
#3	.48659
#4	.48254

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DGJ6M

Operator: MTW

Run Time: 07/24/00 12:56:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1612

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00019	.53264	.02006	.00782	.07679	.00012	67.800
SDev	.00072	.00089	.02845	.00169	.00062	.00006	.348
%RSD	383.72	.16787	141.78	21.565	.80747	53.122	.51309
#1	-.00128	.53397	-.00517	.00991	.07689	.00008	67.486
#2	.00016	.53227	.06084	.00646	.07759	.00009	68.255
#3	.00018	.53211	.01035	.00848	.07610	.00021	67.884
#4	.00018	.53220	.01424	.00645	.07660	.00008	67.574
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00067	.00136	.00243	.00982	.66071	1.8471	.00071
SDev	.00285	.00082	.00223	.00170	.00213	.5848	.00027
%RSD	428.60	60.464	91.665	17.312	.32211	31.663	38.143
#1	.00288	.00065	.00432	.01115	.65937	2.3224	.00077
#2	.00041	.00065	-.00000	.00760	.66340	1.0048	.00088
#3	-.00315	.00208	.00432	.00938	.66138	1.9221	.00031
#4	-.00279	.00207	.00108	.01115	.65869	2.1389	.00088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.2316	.01806	.00635	55.707	-.00499	.00914	.01043
SDev	.0441	.00000	.00629	.300	.00530	.02197	.02192
%RSD	.53541	.01146	99.097	.53773	106.27	240.33	210.13
#1	8.2188	.01806	.00510	55.753	-.01230	.02249	-.01586
#2	8.2946	.01806	.00010	56.105	.00012	.02255	.03678
#3	8.2215	.01806	.01510	55.415	-.00494	.01490	.00510
#4	8.1917	.01806	.00510	55.554	-.00283	-.02337	.01571
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00762	3.4914	-.01556	.71407	.00903	-.00970	.00412
SDev	.04489	.0000	.00995	.00390	.00019	.01127	.00193
%RSD	589.37	.00067	63.926	.54594	2.0995	116.08	46.841
#1	.02328	3.4914	-.02196	.71434	.00886	-.01852	.00502
#2	-.05506	3.4913	-.02590	.71948	.00919	.00501	.00123

664 1613

#3	.05071	3.4914	-.00512	.71149	.00886	-.00678	.00521
#4	.01153	3.4914	-.00925	.71097	.00919	-.01853	.00501
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01542
SDev	.00232
%RSD	15.031

#1	.01790
#2	.01653
#3	.01257
#4	.01466

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGJ6MP5

Operator: MTW

Run Time: 07/24/00 12:59:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1614**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.12136	-.02732	.00880	.01583	.00010	13.879
SDev	.00185	.00945	.02291	.01306	.00045	.00001	.069
%RSD	467.34	7.7857	83.840	148.34	2.8572	10.734	.49941

#1	.00003	.11328	-.02047	.02721	.01634	.00010	13.936
#2	-.00145	.11328	-.02426	-.00146	.01556	.00011	13.884
#3	.00297	.13126	-.00518	.00890	.01535	.00008	13.780
#4	.00003	.12762	-.05937	.00057	.01605	.00010	13.915

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00196	-.00071	.00014	.00112	.13696	.37942	.00021
SDev	.00278	.00115	.00161	.00085	.00248	.52533	.00042
%RSD	141.62	161.13	1190.1	75.960	1.8109	138.46	200.56

#1	L-.00550	-.00071	-.00162	.00045	.13713	-.09590	-.00023
#2	-.00281	-.00212	.00054	.00045	.13712	.08756	-.00004
#3	.00060	.00069	.00216	.00223	.13376	1.0966	.00069
#4	-.00014	-.00072	-.00054	.00134	.13982	.42945	.00042

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6856	.00376	.00127	11.222	-.00653	-.01351	.01040
SDev	.0114	.00050	.00479	.204	.00828	.01144	.02186
%RSD	.67361	13.175	376.82	1.8182	126.75	84.672	210.21

#1	1.7012	.00401	.00002	11.409	-.00920	-.02304	.03657
#2	1.6849	.00302	.00502	11.251	-.01658	-.00018	-.01595
#3	1.6741	.00401	-.00498	10.933	.00270	-.02305	.00526
#4	1.6822	.00401	.00502	11.294	-.00304	-.00777	.01571

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01531	.72686	.00896	.14618	.00246	.00744	.00002
SDev	.02274	.03243	.02217	.00257	.00057	.04234	.00393
%RSD	148.51	4.4620	247.41	1.7610	23.094	568.86	15845.

#1	-.03686	.75488	.03682	.14837	.00295	-.02494	-.00000
#2	.00232	.70174	-.00319	.14682	.00164	.06930	-.00481

664 1615

#3	-.03295	.69597	.01574	.14246	.00263	-.00140	.00482
#4	.00624	.75488	-.01352	.14708	.00263	-.01319	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00405
SDev	.00118
%RSD	29.085

#1	.00522
#2	.00279
#3	.00488
#4	.00332

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGJ6MS

Operator: MTW

Run Time: 07/24/00 13:02:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1616

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04792	2.7054	2.0193	.99968	2.0377	.04977	119.55
SDev	.00264	.0265	.0636	.02074	.0334	.00057	.54
%RSD	5.5009	.97784	3.1512	2.0742	1.6398	1.1561	.45244
#1	.05081	2.6712	2.0236	.98929	2.0027	.04926	119.30
#2	.04936	2.7073	1.9457	.98930	2.0179	.04939	119.67
#3	.04651	2.7358	2.1004	.98934	2.0759	.05053	120.24
#4	.04502	2.7071	2.0077	1.0308	2.0542	.04990	118.98
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04611	.48727	.19764	.25522	1.7595	51.753	.98902
SDev	.00176	.00505	.00294	.00336	.0171	.780	.01919
%RSD	3.8095	1.0371	1.4855	1.3154	.97391	1.5070	1.9406
#1	.04422	.48272	.19778	.25144	1.7462	51.130	.96811
#2	.04830	.48835	.19670	.25411	1.7549	51.413	.97735
#3	.04659	.49395	.20156	.25945	1.7846	52.889	1.0056
#4	.04532	.48408	.19454	.25589	1.7523	51.580	1.0050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.172	.50847	.99514	108.68	.50161	.48870	.51698
SDev	.681	.00286	.01000	1.97	.00522	.01139	.02890
%RSD	1.1504	.56234	1.0050	1.8133	1.0396	2.3304	5.5904
#1	58.521	.50524	.99014	106.65	.50633	.49436	.53536
#2	58.735	.50822	.99014	107.36	.49421	.49450	.54588
#3	60.018	.51221	1.0101	110.71	.50365	.47161	.50370
#4	59.415	.50822	.99014	109.99	.50224	.49430	.48298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9939	13.736	1.9497	1.7138	.97621	2.0762	.49456
SDev	.0274	.093	.0358	.0252	.00956	.0844	.00487
%RSD	1.3752	.67932	1.8384	1.4717	.97958	4.0659	.98521
#1	1.9811	13.647	1.9681	1.6879	.96686	2.1088	.49078
#2	1.9615	13.677	1.9158	1.6983	.97014	1.9909	.49078

664 1617

#3	2.0125	13.854	1.9910	1.7429	.98787	2.1789	.50100
#4	2.0203	13.765	1.9239	1.7262	.97999	2.0262	.49569
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.50471
SDev	.00520
%RSD	1.0307

#1	.49953
#2	.50167
#3	.51121
#4	.50643

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGJ6MD

Operator: MTW

Run Time: 07/24/00 13:05:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1618**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04751	2.6677	1.9365	.98749	2.0022	.04905	118.29
SDev	.00183	.0200	.0113	.00346	.0165	.00028	.26
%RSD	3.8536	.74794	.58318	.35015	.82198	.58169	.21679

#1	.04932	2.6965	1.9265	.98921	2.0090	.04928	118.11
#2	.04496	2.6657	1.9462	.98923	2.0139	.04915	118.21
#3	.04789	2.6552	1.9268	.98921	2.0080	.04914	118.16
#4	.04787	2.6533	1.9463	.98230	1.9778	.04863	118.67

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04658	.48307	.19535	.25078	1.7076	51.207	.97276
SDev	.00381	.00176	.00129	.00210	.0033	.203	.01079
%RSD	8.1857	.36440	.65972	.83722	.19467	.39720	1.1089

#1	.05117	.48552	.19454	.25233	1.7065	51.422	.97862
#2	.04826	.48270	.19724	.25055	1.7125	51.055	.97955
#3	.04355	.48272	.19508	.25233	1.7065	51.338	.97616
#4	.04333	.48133	.19454	.24789	1.7051	51.013	.95673

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.544	.50200	.99138	106.92	.47267	.48479	.51929
SDev	.363	.00096	.01493	1.02	.00868	.02190	.05715
%RSD	.61953	.19028	1.5059	.95281	1.8373	4.5171	11.006

#1	58.667	.50126	.99513	107.39	.48551	.47146	.53516
#2	58.800	.50325	1.0101	107.47	.46750	.47139	.52438
#3	58.702	.50125	.97513	107.43	.46725	.47912	.57701
#4	58.007	.50225	.98513	105.39	.47041	.51718	.44062

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9585	13.591	1.9749	1.6842	.96661	1.9414	.48712
SDev	.0445	.026	.0168	.0126	.00417	.0789	.00225
%RSD	2.2712	.19264	.84846	.74526	.43159	4.0641	.46269

#1	2.0202	13.582	1.9660	1.6893	.96850	1.8383	.48596
#2	1.9457	13.582	1.9639	1.6934	.97014	2.0032	.48626

664 1619

#3	1.9144	13.629	1.9997	1.6883	.96719	2.0032	.49049
#4	1.9536	13.570	1.9698	1.6656	.96062	1.9208	.48577
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .49089
 SDev .00409
 %RSD .83355

#1 .48972
 #2 .49534
 #3 .48581
 #4 .49269

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET Sample Name: CCV2-4

Operator: MTW

Run Time: 07/24/00 13:08:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1620

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0037	50.006	5.1024	5.0533	4.9279	5.0240	51.902
SDev	.0059	.652	.1499	.0638	.0878	.0578	.303
%RSD	.58530	1.3034	2.9382	1.2617	1.7812	1.1502	.58371
#1	1.0103	49.842	5.1315	5.0360	4.9005	5.0094	52.256
#2	1.0016	50.350	5.2126	5.0720	4.9708	5.0496	51.933
#3	1.0061	50.661	5.1823	5.1286	5.0212	5.0860	51.903
#4	.99666	49.170	4.8832	4.9766	4.8192	4.9512	51.516
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.2133	5.0462	5.0147	4.9246	52.349	49.602	4.8670
SDev	.0217	.0419	.0290	.0801	.469	.791	.1112
%RSD	.41720	.83055	.57781	1.6269	.89537	1.5944	2.2857
#1	5.2280	5.0653	5.0325	4.8925	52.434	49.896	4.7959
#2	5.2290	5.0638	5.0249	4.9626	52.525	49.929	4.9300
#3	5.2136	5.0722	5.0298	5.0133	52.760	50.154	4.9895
#4	5.1824	4.9836	4.9715	4.8302	51.677	48.428	4.7525
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.503	5.0341	5.0547	50.559	5.1274	5.0533	5.0848
SDev	.604	.0398	.0437	.975	.0237	.0459	.0626
%RSD	1.1958	.79020	.86549	1.9283	.46242	.90928	1.2306
#1	50.414	5.0465	5.0572	50.105	5.1373	5.0979	5.1005
#2	50.831	5.0485	5.0822	51.091	5.1561	5.0363	5.1426
#3	51.072	5.0655	5.0873	51.606	5.1047	5.0822	5.1001
#4	49.694	4.9758	4.9921	49.434	5.1117	4.9966	4.9958

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0723	5.1094	5.1183	4.9674	4.9515	9.9654	5.0212
SDev	.1222	.0390	.0140	.0779	.0577	.1055	.0443
%RSD	2.4091	.76415	.27415	1.5682	1.1648	1.0585	.88251
#1	5.2096	5.1597	5.1352	4.9456	4.9449	9.9261	5.0338
#2	4.9827	5.1066	5.1060	5.0028	4.9777	9.9134	5.0380

664 1621

#3	5.1400	5.1069	5.1245	5.0510	5.0089	10.123	5.0565
#4	4.9569	5.0643	5.1076	4.8700	4.8743	9.8994	4.9564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9715
SDev	.0211
%RSD	.42522

#1	4.9747
#2	4.9740
#3	4.9943
#4	4.9431

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB4

Operator: MTW

Run Time: 07/24/00 13:11:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1622

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.03895	.02479	.00447	.00316	.00303	.04395
SDev	.00237	.01556	.02348	.00682	.00085	.00090	.01379
%RSD	160.23	39.947	94.708	152.47	26.914	29.575	31.368
#1	.00440	.03220	.03841	-.00027	.00220	.00202	.03010
#2	.00146	.03759	.01129	.00178	.00270	.00256	.03663
#3	-.00142	.02502	.05009	.00178	.00377	.00358	.04743
#4	.00149	.06097	-.00063	.01460	.00398	.00397	.06163
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00321	.00352	.00203	.00422	.03046	.59206	.00317
SDev	.00163	.00258	.00227	.00168	.00749	.47155	.00093
%RSD	50.710	73.359	111.64	39.843	24.571	79.645	29.323
#1	.00103	.00211	.00108	.00311	.02138	.47115	.00299
#2	.00492	.00069	.00109	.00311	.02811	.40444	.00299
#3	.00317	.00634	.00054	.00400	.03349	.21264	.00224
#4	.00373	.00493	.00541	.00667	.03888	1.2800	.00446
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04400	.00349	.01875	.05476	-.00256	-.00184	.00250
SDev	.02062	.00058	.00250	.01289	.00119	.01453	.01006
%RSD	46.866	16.494	13.335	23.545	46.663	788.10	402.89
#1	.03317	.00299	.01500	.04541	-.00192	.00771	.01564
#2	.02775	.00299	.02000	.04452	-.00410	-.02297	.00510
#3	.04129	.00399	.02000	.05698	-.00137	.00014	-.00534
#4	.07379	.00399	.02000	.07212	-.00284	.00774	-.00542
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00694	.06197	.00053	.00337	.00336	.03792	.00405
SDev	.01981	.00762	.00624	.00088	.00073	.03517	.00244
%RSD	285.62	12.299	1181.2	26.222	21.633	92.746	60.279
#1	.02944	.07084	.00321	.00232	.00295	.02329	.00520
#2	-.01756	.05897	-.00731	.00299	.00361	.04682	.00039

664 1623

#3	.00205	.05314	-.00107	.00388	.00263	.08201	.00530
#4	.01381	.06494	.00729	.00429	.00427	-.00046	.00531
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00331
SDev	.00065
%RSD	19.743

#1	.00412
#2	.00356
#3	.00278
#4	.00278

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DGKFEB

Operator: MTW

Run Time: 07/24/00 13:14:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1624

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.01163	-.01077	.00384	.00025	.00045	.00304
SDev	.00266	.00799	.02057	.00655	.00037	.00016	.00405
%RSD	86795.	68.709	190.92	170.63	149.86	35.952	133.50
#1	.00146	.01438	-.01952	-.00170	.00023	.00061	.00121
#2	-.00291	.00354	-.03495	.01111	.00052	.00049	.00395
#3	-.00145	.00708	-.00007	-.00170	-.00027	.00023	-.00124
#4	.00291	.02152	.01145	.00765	.00052	.00049	.00822
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	-.00177	-.00162	-.00044	.01178	-.06880	-.00066
SDev	.00144	.00212	.00253	.00145	.00149	.52300	.00135
%RSD	423.26	119.74	156.44	326.47	12.672	760.22	206.06
#1	.00035	-.00071	-.00054	-.00044	.01329	.07922	-.00031
#2	.00225	-.00071	-.00216	-.00044	.01262	-.00417	-.00134
#3	-.00123	-.00494	-.00486	-.00222	.00993	-.79636	-.00205
#4	-.00000	-.00071	.00108	.00133	.01127	.44613	.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00542	.00050	.00375	.01580	-.00510	-.00198	-.00272
SDev	.01439	.00099	.00250	.00573	.01001	.02752	.01007
%RSD	265.75	198.13	66.631	36.257	196.40	1392.2	370.64
#1	.00068	.00199	.00000	.01647	.00662	-.02299	.00530
#2	-.00203	.00001	.00500	.01246	-.00523	.03823	-.01587
#3	-.02640	.00000	.00500	.01068	-.01783	-.01545	.00505
#4	.00609	.00000	.00500	.02359	-.00396	-.00770	-.00535
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00389	.04571	.01464	.00032	.00000	.00578	.00007
SDev	.02134	.03097	.01136	.00023	.00060	.04350	.00005
%RSD	549.08	67.766	77.599	70.745	1373e6	752.40	68.014
#1	-.00584	.06487	.00317	.00040	.00033	.03520	-.00000
#2	.00983	.00000	.03028	.00040	-.00066	.04697	.00009

664 1625

#3	-.03327	.05308	.01363	-.00001	-.00033	-.04716	.00009
#4	.01374	.06487	.01149	.00051	.00066	-.01189	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00060
SDev	.00078
%RSD	128.75

#1	.00064
#2	.00147
#3	.00073
#4	-.00042

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DGKFEC

Operator: MTW

Run Time: 07/24/00 13:18:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1626

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04735	1.9305	1.9645	.95184	1.9214	.04905	50.469
SDev	.00183	.0172	.0370	.02142	.0250	.00042	.112
%RSD	3.8557	.89098	1.8820	2.2506	1.3031	.86251	.22196
#1	.04917	1.9071	1.9686	.93262	1.8926	.04863	50.458
#2	.04769	1.9287	1.9142	.93405	1.9156	.04877	50.315
#3	.04772	1.9465	2.0032	.96863	1.9245	.04928	50.551
#4	.04481	1.9395	1.9722	.97207	1.9532	.04953	50.553
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04343	.48595	.19467	.23985	1.0429	48.822	.95229
SDev	.00329	.00451	.00155	.00316	.0034	.529	.01801
%RSD	7.5811	.92719	.79657	1.3193	.32284	1.0832	1.8912
#1	.04308	.48421	.19562	.23718	1.0408	48.411	.93298
#2	L.03956	.48421	.19562	.23807	1.0395	48.512	.95076
#3	.04760	.48276	.19238	.23984	1.0442	48.787	.94892
#4	.04347	.49263	.19508	.24429	1.0470	49.579	.97651
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.979	.48569	.99128	49.884	.48701	.49502	.50372
SDev	.432	.00172	.00750	.781	.01583	.01662	.02262
%RSD	.86360	.35449	.75654	1.5665	3.2504	3.3571	4.4903
#1	49.496	.48420	.98503	49.022	.50008	.47968	.50386
#2	49.853	.48519	.98503	49.693	.48769	.48736	.53513
#3	50.032	.48520	1.0000	49.909	.46454	.49491	.49295
#4	50.533	.48817	.99503	50.910	.49572	.51814	.48293
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9293	9.8034	1.9700	.97359	.95948	1.9393	.48497
SDev	.0611	.0561	.0406	.01150	.00766	.0333	.00281
%RSD	3.1651	.57175	2.0625	1.1814	.79854	1.7147	.57862
#1	1.8500	9.7606	1.9763	.96041	.95176	1.9158	.48577
#2	1.9792	9.7606	2.0099	.97062	.95570	1.9394	.48086

664 1627

#3	1.9126	9.8137	1.9804	.97518	.96095	1.9158	.48606
#4	1.9753	9.8786	1.9133	.98814	.96949	1.9863	.48719

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.47597
SDev	.00278
%RSD	.58500

#1	.47220
#2	.47566
#3	.47739
#4	.47861

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DGHAK

Operator: MTW

Run Time: 07/24/00 13:21:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1628

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.23732	.02502	.06649	.07978	.00025	26.316
SDev	.00266	.00531	.03963	.00374	.00080	.00012	.203
%RSD	547.01	2.2386	158.41	5.6176	1.0064	47.468	.77257
#1	-.00099	.23546	-.02919	.06836	.07936	.00010	26.090
#2	.00195	.23732	.02109	.06089	.08055	.00034	26.577
#3	.00340	.24456	.04824	.06832	.07887	.00034	26.255
#4	-.00242	.23195	.05993	.06840	.08035	.00021	26.343
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00061	.00525	.00122	.00760	3.3675	6.9567	.00083
SDev	.00284	.00405	.00262	.00085	.0240	.4203	.00084
%RSD	464.34	77.127	215.65	11.206	.71217	6.0423	100.98
#1	-.00356	-.00074	-.00270	.00693	3.3546	6.5002	-.00023
#2	.00271	.00772	.00216	.00783	3.3909	6.8754	.00096
#3	.00067	.00772	.00270	.00871	3.3404	7.5175	.00180
#4	-.00226	.00632	.00270	.00694	3.3842	6.9338	.00077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.0441	1.6732	.00800	109.22	-.00313	.00303	.00519
SDev	.0338	.0106	.00289	1.16	.00827	.02385	.01487
%RSD	.83696	.63223	36.079	1.0585	263.82	787.22	286.65
#1	4.0217	1.6663	.01050	109.31	-.01138	-.00862	.00508
#2	4.0921	1.6842	.01051	109.25	.00775	.02990	.01577
#3	4.0190	1.6623	.00550	107.75	-.00719	-.02372	-.01581
#4	4.0434	1.6802	.00551	110.57	-.00171	.01456	.01570
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01573	5.9123	.00170	.13093	.00394	.03346	.00384
SDev	.01610	.0432	.00573	.00129	.00097	.01657	.00243
%RSD	102.38	.73124	338.07	.98776	24.533	49.522	63.248
#1	-.00487	5.8503	.00588	.13096	.00361	.01008	.00020
#2	.01481	5.9388	.00384	.13126	.00394	.04503	.00512

664 1629

#3	.03427	5.9152	-.00678	.12919	.00525	.04542	.00502
#4	.01871	5.9447	.00385	.13230	.00295	.03331	.00502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .10181
 SDev .00142
 %RSD 1.3963

#1 .10276
 #2 .10326
 #3 .10034
 #4 .10087

Errors LC Pass
 High 100.00
 Low -.02000

Method: QUANMET' Sample Name: DGHAL

Operator: MTW

Run Time: 07/24/00 13:24:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1630

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00128	.45940	.01544	.01377	.01924	.00019	11.568
SDev	.00218	.00958	.03407	.00056	.00034	.00006	.050
%RSD	171.13	2.0854	220.72	4.0828	1.7701	33.333	.43281
#1	.00054	.46571	.00473	.01451	.01882	.00023	11.517
#2	-.00382	.44954	.02038	.01368	.01911	.00023	11.535
#3	.00055	.46930	-.02247	.01374	.01951	.00010	11.599
#4	-.00236	.45305	.05910	.01314	.01951	.00023	11.622
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	.00069	.01311	.02130	2.6434	1.5218	-.00037
SDev	.00205	.00116	.00092	.00085	.0164	.4684	.00079
%RSD	190.79	167.68	7.0410	3.9927	.61990	30.776	215.79
#1	.00151	.00068	.01351	.02019	2.6318	1.4218	-.00047
#2	-.00226	.00211	.01405	.02197	2.6271	2.1723	.00039
#3	-.00311	.00069	.01189	.02108	2.6547	1.0549	-.00142
#4	-.00044	-.00072	.01297	.02197	2.6601	1.4385	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9828	.43893	.00664	9.9865	.00874	.00486	-.00009
SDev	.0286	.00338	.00250	.0749	.00546	.02532	.02783
%RSD	1.4410	.77111	37.645	.74977	62.499	521.19	31867.
#1	1.9530	.43769	.00539	9.8927	.01280	-.00084	.03673
#2	2.0044	.43471	.00539	9.9603	.00100	.03741	-.02637
#3	1.9638	.44167	.00540	10.038	.01237	.00677	.00517
#4	2.0098	.44167	.01040	10.055	.00879	-.02391	-.01588
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02459	3.9528	.00624	.03644	.00624	.06937	.00015
SDev	.04085	.0415	.01690	.00024	.00097	.09474	.00005
%RSD	166.09	1.0506	271.05	.65052	15.494	136.58	31.225
#1	-.03420	3.9690	-.01296	.03623	.00722	-.00117	.00013
#2	.05981	3.8923	-.00278	.03628	.00525	.18725	.00013

664 1631

#3	.04029	3.9631	.02248	.03675	.00689	.10459	.00013
#4	.03247	3.9867	.01820	.03649	.00558	-.01320	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.18049
SDev	.00279
%RSD	1.5428

#1	.17929
#2	.17956
#3	.17850
#4	.18462

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHAQ

Operator: MTW

Run Time: 07/24/00 13:27:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E 664 1632

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00071	.07501	-.00772	.01565	.00341	.00006	4.5920
SDev	.00188	.00942	.02142	.00755	.00015	.00005	.0190
%RSD	266.73	12.554	277.30	48.239	4.2644	87.672	.41457
#1	.00150	.08798	-.02438	.02541	.00348	.00008	4.5762
#2	-.00147	.07023	.01085	.00711	.00319	-.00002	4.5769
#3	.00002	.07547	-.02807	.01402	.00348	.00010	4.6157
#4	-.00287	.06636	.01071	.01606	.00348	.00008	4.5992
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00058	-.00212	.00041	.00468	.25893	1.3613	-.00134
SDev	.00145	.00306	.00243	.00152	.00055	.4416	.00062
%RSD	247.70	143.96	600.04	32.454	.21275	32.442	46.567
#1	.00040	-.00213	.00162	.00490	.25893	1.5135	-.00115
#2	.00000	-.00354	-.00324	.00313	.25893	.70464	-.00088
#3	-.00274	.00212	.00162	.00668	.25960	1.6553	-.00226
#4	-.00001	-.00495	.00162	.00401	.25825	1.5719	-.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.84279	.23046	.00254	5.6719	-.00824	-.01358	-.01055
SDev	.01727	.00081	.00866	.0349	.00377	.02525	.01828
%RSD	2.0488	.35220	341.13	.61470	45.783	185.97	173.17
#1	.83738	.22947	.00504	5.6283	-.00838	.01512	-.01579
#2	.82655	.23046	-.00996	5.7111	-.00297	-.03846	.01584
#3	.86716	.23146	.01004	5.6640	-.01174	-.03069	-.01592
#4	.84009	.23046	.00504	5.6840	-.00986	-.00027	-.02634
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00264	2.6347	-.01780	.01458	.00148	-.02492	.00128
SDev	.01466	.0111	.01542	.00016	.00042	.03466	.00482
%RSD	555.01	.42215	86.656	1.1100	28.689	139.09	377.69
#1	-.00128	2.6185	-.02829	.01440	.00164	.02215	.00501
#2	.02223	2.6420	-.03233	.01466	.00131	-.02486	-.00511

664 1633

#3	-.01303	2.6421	.00101	.01476	.00197	-.06027	.00020
#4	.00264	2.6362	-.01159	.01450	.00098	-.03669	.00501
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.06043
SDev	.00142
%RSD	2.3428

#1	.06209
#2	.06047
#3	.05863
#4	.06053

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHAR

Operator: MTW

Run Time: 07/24/00 13:30:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1634**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.10645	.01701	.04229	.05889	.00006	32.557
SDev	.00364	.01110	.04214	.00200	.00053	.00006	.030
%RSD	812.61	10.424	247.78	4.7233	.89514	105.08	.09314
#1	-.00427	.09341	.04520	.04056	.05888	.00008	32.532
#2	.00446	.12032	.04498	.04402	.05879	.00008	32.591
#3	.00152	.10788	-.04404	.04056	.05830	-.00003	32.531
#4	.00008	.10419	.02188	.04403	.05958	.00009	32.573
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00098	-.00144	.00486	.08528	.42127	2.9624	.00705
SDev	.00314	.00082	.00197	.00115	.00201	.3493	.00031
%RSD	319.14	56.818	40.568	1.3435	.47719	11.792	4.3797
#1	-.00357	-.00214	.00594	.08573	.41908	3.0979	.00695
#2	-.00263	-.00073	.00702	.08484	.42044	3.3814	.00668
#3	-.00123	-.00073	.00270	.08395	.42178	2.5892	.00714
#4	.00349	-.00216	.00378	.08661	.42380	2.7810	.00741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.3582	.16298	.00381	35.266	.00100	.00172	.00262
SDev	.0602	.00000	.00479	.426	.00565	.02892	.01781
%RSD	.72077	.00098	125.55	1.2087	564.77	1685.6	678.40
#1	8.3541	.16298	.00006	35.335	-.00508	-.02317	.00520
#2	8.3487	.16298	.01006	34.813	.00005	.03047	.02609
#3	8.2919	.16298	.00006	35.095	.00045	.02276	-.01563
#4	8.4381	.16298	.00506	35.819	.00858	-.02320	-.00516
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00575	2.0671	-.02084	.19038	-.00033	-.00344	.00315
SDev	.05327	.0076	.03298	.00174	.00080	.03188	.00240
%RSD	927.05	.36853	158.25	.91246	244.95	925.87	76.068
#1	.06183	2.0642	-.01559	.19057	-.00131	-.01520	.00492
#2	-.00085	2.0760	.02009	.18850	.00066	-.02700	.00512

664 1635

#3	-.01652	2.0700	-.05965	.18980	-.00033	-.01521	.00001
#4	-.06744	2.0583	-.02820	.19265	-.00033	.04364	.00256
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.05076
SDev	.00151
%RSD	2.9724

#1	.05159
#2	.05025
#3	.04890
#4	.05231

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHCO

Operator: MTW

Run Time: 07/24/00 13:33:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1636**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.28458	-.01891	.06017	.08095	.00019	23.177
SDev	.00169	.01050	.04478	.00622	.00045	.00007	.069
%RSD	1141.3	3.6911	236.80	10.343	.56029	37.321	.29766
#1	-.00131	.28053	-.03922	.06033	.08134	.00023	23.234
#2	.00162	.30029	-.05497	.06377	.08055	.00008	23.104
#3	.00159	.27883	-.02756	.05136	.08055	.00023	23.133
#4	-.00131	.27868	.04611	.06522	.08134	.00023	23.239
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.00384	.00392	.01457	1.7140	6.8858	.00019
SDev	.00163	.00291	.00161	.00044	.0076	.2430	.00048
%RSD	652.36	75.895	41.212	3.0449	.44460	3.5284	253.01
#1	-.00124	.00066	.00324	.01479	1.7146	7.1923	-.00015
#2	.00255	.00348	.00432	.01479	1.7085	6.6086	.00015
#3	-.00040	.00773	.00216	.01480	1.7085	6.9255	.00088
#4	.00008	.00349	.00595	.01391	1.7246	6.8170	-.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.4673	1.3302	.00276	129.10	-.00730	-.01959	.01563
SDev	.0173	.0052	.00500	.76	.00611	.00765	.00866
%RSD	.49954	.39050	181.44	.59029	83.788	39.063	55.415
#1	3.4775	1.3341	.00026	129.32	-.00556	-.02351	.01568
#2	3.4477	1.3232	.00026	128.02	.00047	-.00811	.02624
#3	3.4585	1.3292	.00026	129.28	-.01068	-.02331	.01558
#4	3.4856	1.3341	.01026	129.80	-.01342	-.02344	.00502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00745	6.1467	.00509	.13767	.00402	.00153	.00129
SDev	.05241	.0358	.01762	.00079	.00041	.03038	.00243
%RSD	703.13	.58267	345.97	.57256	10.272	1984.8	188.21
#1	-.04837	6.1334	-.00903	.13749	.00361	.01336	.00001
#2	.04172	6.1157	-.00271	.13692	.00459	-.03380	.00492

664 1637

#3	-.02488	6.1393	.03074	.13749	.00394	-.01021	.00001
#4	.06135	6.1983	.00138	.13878	.00394	.03678	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.04414
SDev	.00040
%RSD	.91275

#1	.04379
#2	.04434
#3	.04381
#4	.04461

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DGHC0P5

Operator: MTW

Run Time: 07/24/00 13:36:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1638

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00149	.07056	.00384	.00891	.01639	.00013	4.7845
SDev	.00118	.00648	.03780	.00565	.00019	.00007	.0202
%RSD	79.049	9.1857	985.28	63.452	1.1894	53.304	.42287
#1	.00294	.07914	.00282	.00872	.01655	.00010	4.8096
#2	.00005	.06468	-.04757	.01276	.01614	.00008	4.7864
#3	.00148	.06654	.01843	.01318	.01634	.00010	4.7602
#4	.00148	.07187	.04166	.00099	.01655	.00023	4.7818
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00034	.00149	.00291	.35247	1.6761	-.00028
SDev	.00262	.00241	.00142	.00085	.00269	.1666	.00025
%RSD	413.15	704.84	95.641	29.207	.76388	9.9378	89.194
#1	-.00083	-.00213	-.00000	.00313	.35381	1.4385	-.00004
#2	.00202	.00352	.00270	.00403	.34843	1.6886	-.00015
#3	.00354	.00069	.00270	.00225	.35381	1.7637	-.00061
#4	-.00220	-.00071	.00054	.00225	.35382	1.8137	-.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.70876	.27567	.00130	25.808	-.00522	-.01733	.00782
SDev	.01632	.00099	.00479	.305	.01017	.00379	.03778
%RSD	2.3029	.36018	367.46	1.1816	194.93	21.853	482.89
#1	.69928	.27616	-.00495	25.666	-.00561	-.01543	.05769
#2	.69116	.27418	.00505	25.452	-.00621	-.02301	-.01573
#3	.72636	.27617	.00005	26.122	.00789	-.01540	.01580
#4	.71824	.27617	.00505	25.991	-.01693	-.01549	-.02647
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01072	1.3048	-.00670	.02781	.00090	.01556	.00126
SDev	.02949	.0286	.02244	.00059	.00056	.06833	.00251
%RSD	275.04	2.1925	334.83	2.1049	62.103	439.04	199.60
#1	-.02453	1.3210	-.00281	.02794	.00098	.10389	-.00010
#2	.00288	1.2621	-.03664	.02695	.00066	-.00212	.00501

664 1639

#3	.04599	1.3151	-.00509	.02820	.00033	-.06098	.00001
#4	.01856	1.3210	.01773	.02815	.00164	.02146	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00968
SDev .00110
%RSD 11.344

#1 .00940
#2 .00942
#3 .01124
#4 .00866

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DGHC0S Operator: MTW
 Run Time: 07/24/00 13:40:01
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1640**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04863	2.2694	2.0333	1.0387	2.0372	.05064	74.651
SDev	.00085	.0064	.0431	.0071	.0123	.00016	.143
%RSD	1.7404	.27992	2.1178	.68725	.60552	.31982	.19198

#1	.04938	2.2630	1.9828	1.0326	2.0283	.05066	74.754
#2	.04790	2.2757	2.0875	1.0465	2.0536	.05080	74.603
#3	.04790	2.2740	2.0371	1.0430	2.0399	.05067	74.778
#4	.04935	2.2649	2.0256	1.0326	2.0271	.05042	74.470

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04446	.49860	.19887	.25975	2.7331	56.788	.97649
SDev	.00269	.00373	.00192	.00183	.0098	.065	.00658
%RSD	6.0597	.74748	.96727	.70485	.35849	.11406	.67409

#1	.04304	.50109	.20157	.25953	2.7374	56.884	.96811
#2	.04585	.49540	.19779	.26219	2.7401	56.767	.98320
#3	.04150	.50249	.19887	.25953	2.7361	56.742	.97990
#4	.04747	.49542	.19724	.25775	2.7186	56.759	.97475

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	54.088	1.8149	.99653	180.44	.50182	.49478	.51703
SDev	.230	.0026	.00629	1.15	.01642	.02246	.02612
%RSD	.42541	.14492	.63135	.63890	3.2715	4.5394	5.0523

#1	53.964	1.8144	1.0053	179.38	.49778	.48724	.54572
#2	54.427	1.8164	.99529	181.91	.52032	.49464	.48307
#3	54.032	1.8173	.99528	180.79	.48144	.47191	.51434
#4	53.929	1.8114	.99028	179.69	.50772	.52533	.52498

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0043	15.959	1.9541	1.1307	.96440	2.0145	.49705
SDev	.0432	.068	.0354	.0060	.00374	.0595	.00257
%RSD	2.1555	.42351	1.8109	.53096	.38752	2.9521	.51729

#1	2.0581	15.965	1.9935	1.1268	.96128	2.0350	.50090
#2	1.9563	16.042	1.9597	1.1386	.96949	2.0822	.49579

664 1641

#3	2.0150	15.953	1.9075	1.1320	.96489	1.9998	.49579
#4	1.9876	15.876	1.9557	1.1254	.96194	1.9411	.49569
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .52839
SDev .00229
%RSD .43417

#1 .52709
#2 .52753
#3 .52712
#4 .53182

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DGHC0D
 Run Time: 07/24/00 13:43:09
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E
 Mode: CONC Corr. Factor: 1

Operator: MTW

664 1642

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04784	2.2186	2.0068	1.0256	1.9969	.04963	73.471
SDev	.00206	.0120	.0360	.0240	.0185	.00026	.151
%RSD	4.3065	.53913	1.7944	2.3368	.92619	.52225	.20557
#1	.04933	2.2126	1.9951	1.0326	2.0029	.04978	73.401
#2	.04927	2.2093	2.0031	1.0325	1.9774	.04942	73.422
#3	.04493	2.2164	1.9719	.99106	1.9875	.04941	73.367
#4	.04785	2.2360	2.0570	1.0464	2.0197	.04992	73.695
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04230	.48487	.19332	.25441	2.6807	55.950	.95914
SDev	.00290	.00185	.00052	.00233	.0166	.195	.01205
%RSD	6.8471	.38069	.26753	.91787	.61856	.34784	1.2563
#1	.04363	.48415	.19400	.25685	2.6849	56.050	.96182
#2	.03862	.48702	.19292	.25241	2.6633	55.875	.94762
#3	.04536	.48558	.19292	.25241	2.6728	56.158	.95223
#4	.04159	.48273	.19346	.25596	2.7017	55.716	.97488
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.486	1.7751	.99028	177.05	.48439	.50207	.49848
SDev	.412	.0068	.00913	1.71	.00682	.03907	.01054
%RSD	.77069	.38120	.92196	.96499	1.4078	7.7813	2.1152
#1	53.682	1.7776	.99528	177.85	.48508	.46377	.49316
#2	53.073	1.7697	.98028	175.13	.48627	.55573	.49339
#3	53.222	1.7697	.98528	176.23	.49125	.48681	.51429
#4	53.967	1.7836	1.0003	178.99	.47499	.50199	.49307
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9836	15.714	1.9661	1.1086	.95308	1.9238	.48556
SDev	.0774	.065	.0262	.0092	.00618	.0436	.00418
%RSD	3.9024	.41417	1.3332	.83408	.64851	2.2681	.86175
#1	1.9366	15.741	1.9912	1.1124	.95505	1.9414	.49088
#2	1.9326	15.658	1.9305	1.0989	.94783	1.9416	.48077

664 1643

#3	1.9679	15.664	1.9788	1.1035	.94848	1.9533	.48454
#4	2.0972	15.794	1.9640	1.1197	.96095	1.8589	.48606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .53320
SDev .00606
%RSD 1.1370

#1 .53642
#2 .52520
#3 .53209
#4 .53909

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: CCV2-5

Operator: MTW

Run Time: 07/24/00 13:46:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E

664 1644

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0071	50.104	5.1311	5.0733	4.9381	5.0662	52.074
SDev	.0032	.220	.1419	.0110	.0336	.0259	.211
%RSD	.31553	.43990	2.7646	.21777	.68019	.51049	.40564
#1	1.0090	50.068	5.0168	5.0728	4.9267	5.0683	52.263
#2	1.0045	49.962	5.1694	5.0641	4.9255	5.0574	51.948
#3	1.0044	49.960	5.0225	5.0674	4.9126	5.0387	51.842
#4	1.0106	50.426	5.3157	5.0890	4.9876	5.1003	52.243
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.2410	5.0889	5.0352	4.9407	52.476	49.698	4.8508
SDev	.0257	.0355	.0239	.0328	.236	.363	.0334
%RSD	.49031	.69858	.47529	.66289	.44904	.73015	.68908
#1	5.2665	5.0891	5.0503	4.9298	52.531	49.946	4.8316
#2	5.2127	5.0808	5.0184	4.9245	52.361	49.312	4.8443
#3	5.2261	5.0497	5.0114	4.9191	52.233	49.470	4.8276
#4	5.2585	5.1357	5.0606	4.9894	52.778	50.063	4.8998
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.768	5.0515	5.0847	50.705	5.1641	5.0142	5.1191
SDev	.299	.0207	.0185	.364	.0481	.0483	.0132
%RSD	.58978	.40964	.36410	.71761	.93142	.96280	.25789
#1	50.761	5.0595	5.0772	50.550	5.2281	5.0755	5.1224
#2	50.552	5.0405	5.0772	50.589	5.1185	5.0217	5.1215
#3	50.566	5.0296	5.0722	50.438	5.1376	4.9596	5.1007
#4	51.194	5.0764	5.1123	51.242	5.1722	4.9999	5.1320
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0227	5.1333	5.0975	4.9959	4.9638	10.243	5.0457
SDev	.1075	.0665	.0700	.0304	.0250	.166	.0278
%RSD	2.1405	1.2947	1.3731	.60851	.50428	1.6212	.55062
#1	4.9435	5.1599	5.0578	4.9872	4.9672	10.490	5.0502
#2	4.9626	5.0948	5.0704	4.9829	4.9502	10.139	5.0354

664 1645

#3	5.0054	5.0651	5.0598	4.9728	4.9403	10.152	5.0157
#4	5.1792	5.2134	5.2022	5.0406	4.9974	10.193	5.0816
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9848
SDev	.0122
%RSD	.24498

#1	4.9871
#2	4.9853
#3	4.9687
#4	4.9983

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB5

Operator: MTW

Run Time: 07/24/00 13:49:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61E **664 1646**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00109	.02144	-.00018	.00426	.00126	.00146	.01071
SDev	.00140	.00893	.04643	.00691	.00033	.00045	.00446
%RSD	128.52	41.643	25778.	162.38	26.261	30.586	41.589
#1	.00000	.01782	.04250	.00033	.00081	.00087	.00519
#2	.00001	.02678	.02690	.01458	.00121	.00139	.00903
#3	-.00145	.01068	-.00788	.00034	.00151	.00165	.01388
#4	-.00293	.03049	-.06225	.00178	.00151	.00192	.01474
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00025	-.00036	-.00054	.00045	.01952	.03336	.00030
SDev	.00173	.00177	.00211	.00073	.00644	.50257	.00063
%RSD	707.68	499.26	395.18	163.06	33.000	1506.7	207.37
#1	-.00223	-.00212	.00054	.00044	.01060	.56288	-.00023
#2	-.00111	-.00071	-.00108	.00044	.01935	.06254	.00042
#3	.00155	.00211	.00163	.00134	.02272	.15427	.00115
#4	.00081	-.00071	-.00324	-.00044	.02541	-.64626	-.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00000	.00175	.01625	.02905	-.00111	-.00769	-.00534
SDev	.00948	.00050	.00250	.00679	.00735	.01398	.01217
%RSD	.00000	28.510	15.382	23.389	664.76	181.76	227.95
#1	.01151	.00100	.01500	.02137	-.00390	.00756	-.01591
#2	.00338	.00200	.02000	.03561	.00228	-.02300	.00521
#3	-.00474	.00200	.01500	.02537	.00704	.00005	.00519
#4	-.01015	.00200	.01500	.03383	-.00985	-.01538	-.01585
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04706	.05896	-.00631	.00146	.00123	.05575	-.00091
SDev	.02180	.00481	.02309	.00043	.00041	.02612	.00247
%RSD	46.315	8.1672	366.18	29.147	33.555	46.846	270.62
#1	.07642	.05897	.01563	.00092	.00066	.04701	.00029
#2	.03727	.06487	-.02405	.00144	.00131	.09401	.00038

664 1647

#3	.04903	.05308	.01154	.00154	.00131	.03508	.00029
#4	.02553	.05892	-.02834	.00196	.00164	.04689	-.00463

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00178
SDev	.00198
%RSD	111.80

#1	.00013
#2	.00011
#3	.00408
#4	.00279

Errors	LC Pass
High	.02000
Low	-.02000

COG700210
Pittsburgh 72500

664 1648

#	Sample Name	AG	AS	CD	CR	PB	SB
1	STD1	.00009	-.0032	-.00043	.00011		
2	STD6	11.2991	7.38578	22.3199			
3	STD7				17.2848		
4	ICV3-1 0014-183-4	.50215	.25274	.24675	.99980	.24837	.25392
5	ICB1	.00088	.00173	.00021	.00068	-.00016	-.00020
6	ICSA 0014-170-1	.00014	.00106	-.00202	.00347	.00143	.00287
7	ICSAB 0014-136-3	1.1104	1.0439	.94639	.51019	.98691	1.0684
8	DGKEMB	.00028	.00060	.00003	-.00011	.00000	.00068
9	DGKEMC	.05055	2.0113	.04829	.20108	.48880	.49936
10	DGJ6M	.00008	.00484	.00022	.00262	.00136	.00172
11	DGJ6MP5	-.00005	.00128	.00014	.00021	.00000	.00110
12	DGJ6MS	.05244	2.0805	.04875	.20815	.50066	.52275
13	DGJ6MD	.05116	2.0515	.04812	.20450	.49079	.51236
14	DGHDCBW	-.00019	-.00029	.00001	.00004	-.00092	.00029
15	DGJ66BW	-.00003	.00111	.00002	-.00030	-.00040	.00099
16	CCV3-1 0014-183-1	1.0579	.52645	.50503	2.0679	.51298	.52932
17	CCB1	-.00015	-.00075	.00002	-.00005	-.00138	.00114
18	DGHDCCW	.05223	2.0708	.04957	.20741	.50048	.51932
19	DS12C01CSW	.00012	.00132	.00010	.00162	-.00009	.00119
20	DS12C01CSP5W	.00039	.00001	.00015	.00027	-.00073	.00101
21	DS12C01CSSW	.05093	1.9934	.04722	.20054	.48381	.50805
22	DS12C01CSDW	.05107	1.9938	.04713	.20103	.48308	.50722
23	DS13C01CSW	-.00017	.00709	-.00054	.05549	.03191	.00152
24	DSDUP02W	.00043	.00642	-.00019	.04190	.02552	.00130
25	193C02CSW2W	.00006	.00219	.00012	.00470	.00058	.00012
26	193C04CSW3W	.00040	.00309	-.00009	.02354	.00563	.00002
27	193C05CSN3W	-.00011	.00032	.00008	.00092	-.00028	.00059
28	CCV3-2	1.0260	.50812	.48853	1.9946	.50019	.51991
29	CCB2	.00004	.00057	.00011	.00035	-.00061	-.00029
30	DGKFEB	-.00001	.00008	.00009	.00002	-.00135	.00194
31	DGKFEC	.05066	1.9810	.04739	.19833	.48328	.50051
32	DGHAK	.00013	.00483	.00040	.00417	.00537	.00212
33	DGHAL	.00059	.00170	.00039	.01458	.00623	.00498
34	DGHAQ	.00018	-.00022	.00001	.00159	.00136	.00128
35	DGHAR	.00032	.00133	.00015	.00556	.00105	.00007
36	DGHC0	.00029	.00334	.00010	.00459	.00551	.00143
37	DGHC0P5	.00023	.00008	.00017	.00102	-.00001	.00051
38	DGHC0S	.05311	2.0849	.04903	.21006	.51004	.52137
39	DGHC0D	.05135	2.0181	.04764	.20229	.49280	.50729
40	CCV3-3	1.0378	.51601	.49407	2.0210	.50590	.52297
41	CCB3	.00031	.00114	.00031	.00066	-.00065	.00069
42	DG7AWB	.00024	.00105	.00017	.00037	.00030	.00138
43	DG7AWC	.05013	1.9745	.04749	.19684	.48553	L.00047
44	DFTJ8	-.00001	.00114	.00016	.00140	-.00049	.00111
45	DFTJ8P5	.00056	.00148	.00010	.00070	-.00044	.00108
46	DFTJ8S	.05124	1.9856	.04688	.19727	.48129	.00140
47	DFTJ8D	.05119	2.0029	.04759	.19982	.48825	.00133
48	DFTJJ	.00025	.01048	.00010	.00129	.00006	.00096
49	DFTJ8F	.00055	.00045	.00019	.00118	-.00038	.00165
50	DFTJ8P5F	-.00030	.00102	-.00001	.00001	-.00096	.00085
51	DFTJ8SF	.05087	1.9862	.04720	.19702	.48152	.00129
52	CCV3-4	1.0306	.51177	.49306	2.0110	.50159	.52034
53	CCB4	.00036	.00117	.00033	.00079	.00017	.00133

#	Sample Name	AG	AS	CD	CR	PB	SB
54	DFTJ8DF	.05077	1.9725	.04670	.19632	.48171	.00132
55	DFTJJF	.00019	.00844	.00014	.00078	-.00023	.00181
56	CCV3-5	1.0280	.50674	.48892	2.0019	.49973	.51995
57	CCB5	.00086	.00053	.00013	.00073	.00003	.00173
58	DGHFNB	.00020	.00179	.00006	-.00004	-.00042	-.00014
59	DGHFNC	.05106	2.0174	.05016	.20596	.50553	L.00074
60	DG9QG	.00003	.00172	.00004	.00058	-.00017	.00059
61	DG9QGP5	-.00013	.00076	.00001	.00013	-.00035	.00181
62	DG9QGS	.05001	2.0282	.04907	.20251	.49888	-.00008
63	DG9QGD	.04756	1.9098	.04624	.19125	.47237	.00160
64	DG9QM	.00049	.00105	-.00001	.00096	-.00031	.00161
65	DG9QQ	.00024	.00170	.00011	.00052	-.00006	.00090
66	DG9T3	.00037	.00206	.00003	.00030	-.00070	.00092
67	DGF3C	.00017	.00164	-.00001	.00013	.00052	.00028
68	CCV3-6	1.0281	.50706	.48948	2.0008	.50147	.52103
69	CCB6	.00043	.00103	.00024	.00079	.00045	.00251
70	DGKGQB	.00023	.00099	.00013	.00020	.00057	.00191
71	DGKGQC	.04967	1.9889	.04951	.20243	.49977	L.00175
72	DG9LA	.00056	.00195	.00057	.02353	.00121	-.00015
73	DG9LD	.00272	.01099	-.00026	.00821	.00158	.00112
74	DG9LF	.00010	.00515	.00004	.00724	.00325	-.00050
75	DG9LFP5	-.00003	.00072	.00003	.00145	.00009	.00099
76	DG9LFS	.05085	2.0261	.04856	.20747	.49578	.00148
77	DG9LFD	.05086	2.0359	.04856	.20886	.49915	.00192
78	DG9LG	.00087	.00171	.00023	.06293	.00294	.00120
79	DG9LK	.00000	.00553	.00001	.00766	.00285	.00077
80	CCV3-7	1.0340	.51310	.49186	2.0043	.50270	.52381
81	CCB7	.00014	.00078	.00005	.00031	-.00059	.00100
82	DG9LL	.00008	.00018	.00017	.00005	.00047	.00184
83	DG9LAF	.00034	.00099	.00047	.00250	-.00170	.00008
84	DG9LDF	.00231	.01266	-.00012	.00580	.00126	.00000
85	DG9LFF	.00032	.00567	-.00003	.00074	-.00029	.00172
86	DG9LFP5F	-.00017	.00257	.00007	.00027	-.00066	.00131
87	DG9LFSF	.05068	2.0492	.04861	.20161	.49824	.00258
88	DG9LDFD	.04984	2.0057	.04763	.19697	.48585	.00132
89	DG9LGF	.00007	.00114	.00036	.00118	-.00056	-.00038
90	DG9LKF	-.00047	.00545	-.00005	.00006	.00074	.00049
91	CCV3-8	1.0304	.51050	.48884	1.9894	.49809	.51901
92	CCB8	.00028	.00013	.00021	.00054	-.00015	.00063
93	DGKGHB	.00035	.00096	.00009	.00014	-.00039	.00113
94	DGKGHC	.04965	1.9537	.04668	.19382	.47610	.48927
95	DG8GW	.00061	.00209	.00136	.00561	.00019	.00280
96	DG8GWP5	.00017	.00009	.00017	.00102	-.00021	.00108
97	DG8GWS	.04889	1.9448	.04717	.20229	.46724	.48824
98	DG8GWD	.05109	2.0158	.04893	.20402	.48806	.50089
99	DG8H3	.00037	.00665	.00065	.00892	-.00027	.00259
100	DG8H6	.00042	.00145	.00023	.00251	.00003	.00103
101	DG8HA	.00024	.00576	.00070	.00858	.00003	.00231
102	CCV3-9	1.0343	.51302	.48879	1.9870	.49525	.51922
103	CCB9	.00025	.00031	.00021	.00071	-.00001	.00155

664 1650

#	Sample Name	SE	TL
1	STD1		-.04028
2	STD6		5.69727
3	STD7		
4	ICV3-1 0014-183-4	.25609	.50223
5	ICB1	.00157	-.00004
6	ICSA 0014-170-1	-.00746	.00679
7	ICSAB 0014-136-3	1.0561	1.0194
8	DGKEMB	.00134	.00160
9	DGKEMC	2.0085	1.9732
10	DGJ6M	.00167	.00338
11	DGJ6MP5	.00131	.00349
12	DGJ6MS	2.0731	2.0083
13	DGJ6MD	2.0288	1.9766
14	DGHDCBW	.00153	.00269
15	DGJ66BW	.00102	.00177
16	CCV3-1 0014-183-1	.53345	1.0221
17	CCB1	-.00025	-.00100
18	DGHDCCW	2.0546	2.0145
19	DS12C01CSW	.00188	.00038
20	DS12C01CSP5W	.00102	.00242
21	DS12C01CSSW	1.9901	1.9446
22	DS12C01CSDW	1.9849	1.9369
23	DS13C01CSW	.00354	-.00204
24	DSDUP02W	.00096	.00048
25	193C02CSW2W	.00233	-.00331
26	193C04CSW3W	.00143	-.00125
27	193C05CSN3W	.00189	-.00312
28	CCV3-2	.52149	.99695
29	CCB2	.00024	-.00024
30	DGKFEB	.00080	.00078
31	DGKFEC	1.9922	1.9533
32	DGHAK	.00074	-.00115
33	DGHAL	.00057	-.00298
34	DGHAQ	.00109	-.00356
35	DGHAR	.00000	-.00161
36	DGHC0	.00319	-.00139
37	DGHC0P5	.00055	.00123
38	DGHC0S	2.0943	2.0339
39	DGHC0D	2.0276	1.9739
40	CCV3-3	.52714	.99834
41	CCB3	.00093	.00073
42	DG7AWB	.00124	-.00120
43	DG7AWC	2.0141	1.9343
44	DFTJ8	.00229	.00249
45	DFTJ8P5	-.00011	-.00009
46	DFTJ8S	2.0113	1.9455
47	DFTJ8D	2.0354	1.9534
48	DFTJJ	.00095	.00135
49	DFTJ8F	.00121	.00181
50	DFTJ8P5F	.00085	-.00142
51	DFTJ8SF	2.0073	1.9299
52	CCV3-4	.52425	.99149
53	CCB4	.00217	.00243

664 1651

#	Sample Name	SE	TL
54	DFTJ8DF	2.0041	1.9267
55	DFTJJF	.00057	.00158
56	CCV3-5	.52151	.98359
57	CCB5	-.00032	.00395
58	DGHFNB	-.00163	.00002
59	DGHFNC	2.0295	1.9593
60	DG9QG	.00175	-.00152
61	DG9QGP5	.00059	.00060
62	DG9QGS	2.0136	1.9884
63	DG9QGD	1.9105	1.8700
64	DG9QM	-.00111	.00034
65	DG9QQ	.00368	.00031
66	DG9T3	.00123	.00249
67	DGF3C	.00123	-.00225
68	CCV3-6	.52108	.99171
69	CCB6	-.00038	.00352
70	DGKGQB	.00358	.00119
71	DGKGQC	2.0054	1.9416
72	DG9LA	.00532	.00193
73	DG9LD	.00292	.00122
74	DG9LF	.00232	-.00075
75	DG9LFP5	.00102	-.00412
76	DG9LFS	2.0236	1.9767
77	DG9LFD	2.0352	1.9869
78	DG9LG	.00119	.00190
79	DG9LK	.00137	.00152
80	CCV3-7	.52485	1.0038
81	CCB7	.00162	-.00117
82	DG9LL	.00118	-.00004
83	DG9LAF	.00123	-.00119
84	DG9LDF	.00335	.00383
85	DG9LFF	.00375	-.00173
86	DG9LFP5F	-.00028	-.00085
87	DG9LFSF	2.0414	2.0136
88	DG9LFDf	1.9931	1.9599
89	DG9LGF	.00204	-.00244
90	DG9LKF	.00267	-.00075
91	CCV3-8	.52326	.99903
92	CCB8	-.00057	.00238
93	DGKGHB	.00279	-.00079
94	DGKGHC	1.9826	1.9019
95	DG8GW	.00108	-.00078
96	DG8GWP5	-.00010	.00067
97	DG8GWS	1.9523	1.8983
98	DG8GWD	2.0348	1.9731
99	DG8H3	.00223	.00272
100	DG8H6	.00003	.00040
101	DG8HA	.00329	-.00125
102	CCV3-9	.52326	.99733
103	CCB9	.00001	-.00028

PB 7-25-00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T00724A	METTRA	07/24/00	08:46		X	IR
2	STD6	T00724A	METTRA	07/24/00	08:50		X	IR
3	STD7	T00724A	METTRA	07/24/00	08:54		X	IR
4	ICV3-1 0014-183-4	T00724A	METTRA	07/24/00	08:58	RJG	S	CONC
5	ICB1	T00724A	METTRA	07/24/00	09:02	RJG	S	CONC
6	ICSA 0014-170-1	T00724A	METTRA	07/24/00	09:06	RJG	Q	CONC
7	ICSAB 0014-136-3	T00724A	METTRA	07/24/00	09:10	RJG	Q	CONC
8	DGKEMB	T00724A	METTRA	07/24/00	09:17	RJG	S	CONC
9	DGKEMC	T00724A	METTRA	07/24/00	09:21	RJG	S	CONC
10	DGJ6M	T00724A	METTRA	07/24/00	09:25	RJG	S	CONC
11	DGJ6MP5	T00724A	METTRA	07/24/00	09:29	RJG	S	CONC
12	DGJ6MS	T00724A	METTRA	07/24/00	09:33	RJG	S	CONC
13	DGJ6MD	T00724A	METTRA	07/24/00	09:37	RJG	S	CONC
14	DGHDCBW	T00724A	METTRA	07/24/00	09:42	RJG	S	CONC
15	DGJ66BW	T00724A	METTRA	07/24/00	09:46	RJG	S	CONC
16	CCV3-1 0014-183-1	T00724A	METTRA	07/24/00	09:51	RJG	S	CONC
17	CCB1	T00724A	METTRA	07/24/00	09:55	RJG	S	CONC
18	DGHDCCW	T00724A	METTRA	07/24/00	09:59	RJG	S	CONC
19	DS12C01CSW	T00724A	METTRA	07/24/00	10:03	RJG	S	CONC
20	DS12C01CSP5W	T00724A	METTRA	07/24/00	10:07	RJG	S	CONC
21	DS12C01CSSW	T00724A	METTRA	07/24/00	10:11	RJG	S	CONC
22	DS12C01CSDW	T00724A	METTRA	07/24/00	10:15	RJG	S	CONC
23	DS13C01CSW	T00724A	METTRA	07/24/00	10:20	RJG	S	CONC
24	DSDUP02W	T00724A	METTRA	07/24/00	10:24	RJG	S	CONC
25	193C02CSW2W	T00724A	METTRA	07/24/00	10:28	RJG	S	CONC
26	193C04CSW3W	T00724A	METTRA	07/24/00	10:32	RJG	S	CONC
27	193C05CSN3W	T00724A	METTRA	07/24/00	10:36	RJG	S	CONC
28	CCV3-2	T00724A	METTRA	07/24/00	10:40	RJG	S	CONC
29	CCB2	T00724A	METTRA	07/24/00	10:45	RJG	S	CONC
30	DGKFEB	T00724A	METTRA	07/24/00	10:49	RJG	S	CONC
31	DGKFEC	T00724A	METTRA	07/24/00	10:53	RJG	S	CONC
32	DGHAK	T00724A	METTRA	07/24/00	10:57	RJG	S	CONC
33	DGHAL	T00724A	METTRA	07/24/00	11:01	RJG	S	CONC
34	DGHAQ	T00724A	METTRA	07/24/00	11:05	RJG	S	CONC
35	DGHAR	T00724A	METTRA	07/24/00	11:09	RJG	S	CONC
36	DGHC0	T00724A	METTRA	07/24/00	11:14	RJG	S	CONC
37	DGHC0P5	T00724A	METTRA	07/24/00	11:18	RJG	S	CONC
38	DGHC0S	T00724A	METTRA	07/24/00	11:22	RJG	S	CONC
39	DGHC0D	T00724A	METTRA	07/24/00	11:26	RJG	S	CONC
40	CCV3-3	T00724A	METTRA	07/24/00	11:30	RJG	S	CONC
41	CCB3	T00724A	METTRA	07/24/00	11:34	RJG	S	CONC
42	DG7AWB	T00724A	METTRA	07/24/00	11:39	RJG	S	CONC
43	DG7AWC	T00724A	METTRA	07/24/00	11:43	RJG	S	CONC
44	DFTJ8	T00724A	METTRA	07/24/00	11:47	RJG	S	CONC
45	DFTJ8P5	T00724A	METTRA	07/24/00	11:51	RJG	S	CONC
46	DFTJ8S	T00724A	METTRA	07/24/00	11:55	RJG	S	CONC
47	DFTJ8D	T00724A	METTRA	07/24/00	11:59	RJG	S	CONC
48	DFTJJ	T00724A	METTRA	07/24/00	12:04	RJG	S	CONC
49	DFTJ8F	T00724A	METTRA	07/24/00	12:08	RJG	S	CONC
50	DFTJ8P5F	T00724A	METTRA	07/24/00	12:12	RJG	S	CONC
51	DFTJ8SF	T00724A	METTRA	07/24/00	12:16	RJG	S	CONC
52	CCV3-4	T00724A	METTRA	07/24/00	12:20	RJG	S	CONC
53	CCB4	T00724A	METTRA	07/24/00	12:24	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DFTJ8DF	T00724A	METTRA	07/24/00	12:28	RJG	S	CONC
55	DFTJJF	T00724A	METTRA	07/24/00	12:33	RJG	S	CONC
56	CCV3-5	T00724A	METTRA	07/24/00	12:37	RJG	S	CONC
57	CCB5	T00724A	METTRA	07/24/00	12:41	RJG	S	CONC
58	DGHFNB	T00724A	METTRA	07/24/00	12:45	RJG	S	CONC
59	DGHFNC	T00724A	METTRA	07/24/00	12:49	RJG	S	CONC
60	DG9QG	T00724A	METTRA	07/24/00	12:53	RJG	S	CONC
61	DG9QGP5	T00724A	METTRA	07/24/00	12:58	RJG	S	CONC
62	DG9QGS	T00724A	METTRA	07/24/00	13:02	RJG	S	CONC
63	DG9QGD	T00724A	METTRA	07/24/00	13:06	RJG	S	CONC
64	DG9QM	T00724A	METTRA	07/24/00	13:10	RJG	S	CONC
65	DG9QQ	T00724A	METTRA	07/24/00	13:14	RJG	S	CONC
66	DG9T3	T00724A	METTRA	07/24/00	13:18	RJG	S	CONC
67	DGF3C	T00724A	METTRA	07/24/00	13:23	RJG	S	CONC
68	CCV3-6	T00724A	METTRA	07/24/00	13:27	RJG	S	CONC
69	CCB6	T00724A	METTRA	07/24/00	13:31	RJG	S	CONC
70	DGKGQB	T00724A	METTRA	07/24/00	13:35	RJG	S	CONC
71	DGKGQC	T00724A	METTRA	07/24/00	13:39	RJG	S	CONC
72	DG9LA	T00724A	METTRA	07/24/00	13:43	RJG	S	CONC
73	DG9LD	T00724A	METTRA	07/24/00	13:48	RJG	S	CONC
74	DG9LF	T00724A	METTRA	07/24/00	13:52	RJG	S	CONC
75	DG9LFP5	T00724A	METTRA	07/24/00	13:56	RJG	S	CONC
76	DG9LFS	T00724A	METTRA	07/24/00	14:00	RJG	S	CONC
77	DG9LFD	T00724A	METTRA	07/24/00	14:04	RJG	S	CONC
78	DG9LG	T00724A	METTRA	07/24/00	14:08	RJG	S	CONC
79	DG9LK	T00724A	METTRA	07/24/00	14:13	RJG	S	CONC
80	CCV3-7	T00724A	METTRA	07/24/00	14:17	RJG	S	CONC
81	CCB7	T00724A	METTRA	07/24/00	14:21	RJG	S	CONC
82	DG9LL	T00724A	METTRA	07/24/00	14:27	RJG	S	CONC
83	DG9LAF	T00724A	METTRA	07/24/00	14:32	RJG	S	CONC
84	DG9LDF	T00724A	METTRA	07/24/00	14:36	RJG	S	CONC
85	DG9LFF	T00724A	METTRA	07/24/00	14:40	RJG	S	CONC
86	DG9LFP5F	T00724A	METTRA	07/24/00	14:44	RJG	S	CONC
87	DG9LFSF	T00724A	METTRA	07/24/00	14:48	RJG	S	CONC
88	DG9LDFD	T00724A	METTRA	07/24/00	14:52	RJG	S	CONC
89	DG9LGF	T00724A	METTRA	07/24/00	14:57	RJG	S	CONC
90	DG9LKF	T00724A	METTRA	07/24/00	15:01	RJG	S	CONC
91	CCV3-8	T00724A	METTRA	07/24/00	15:05	RJG	S	CONC
92	CCB8	T00724A	METTRA	07/24/00	15:09	RJG	S	CONC
93	DGKGHB	T00724A	METTRA	07/24/00	15:13	RJG	S	CONC
94	DGKGHC	T00724A	METTRA	07/24/00	15:17	RJG	S	CONC
95	DG8GW	T00724A	METTRA	07/24/00	15:22	RJG	S	CONC
96	DG8GWP5	T00724A	METTRA	07/24/00	15:26	RJG	S	CONC
97	DG8GWS	T00724A	METTRA	07/24/00	15:30	RJG	S	CONC
98	DG8GWD	T00724A	METTRA	07/24/00	15:34	RJG	S	CONC
99	DG8H3	T00724A	METTRA	07/24/00	15:38	RJG	S	CONC
100	DG8H6	T00724A	METTRA	07/24/00	15:42	RJG	S	CONC
101	DG8HA	T00724A	METTRA	07/24/00	15:47	RJG	S	CONC
102	CCV3-9	T00724A	METTRA	07/24/00	15:51	RJG	S	CONC
103	CCB9	T00724A	METTRA	07/24/00	15:55	RJG	S	CONC

Method: METTRA Standard: STD1

Run Time: 07/24/00 08:46:02

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	.00009	.02324	-.00320	.00028	-.05056	.00629	-.00043
SDev	.00260	.00463	.00006	.00012	.00095	.00012	.00193
%RSD	2816.3	19.934	1.9273	42.950	1.8804	1.8498	447.30
#1	-.00175	.02652	-.00324	.00020	-.05123	.00621	.00093
#2	.00193	.01997	-.00316	.00037	-.04989	.00637	-.00179
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00112	.00011	.01880	-.00099	-.00068	.00102	.00113
SDev	.00055	.00048	.00085	.00021	.00072	.00040	.00015
%RSD	48.842	428.93	4.5185	20.767	105.81	38.752	13.572
#1	-.00073	.00045	.01820	-.00085	-.00118	.00130	.00124
#2	-.00151	-.00023	.01940	-.00114	-.00017	.00074	.00102
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00082	.01954	.00766	-.05071	.00118	-.08182	.06924
SDev	.00108	.02715	.01710	.01267	.00485	.00550	.02416
%RSD	131.59	138.97	223.39	24.985	412.98	6.7194	34.887
#1	.00158	.00034	.01975	-.04175	-.00226	-.08570	.08632
#2	.00006	.03874	-.00444	-.05967	.00461	-.07793	.05216
Elem	TL	V ₋	ZN				
Avge	-.04029	-.00003	.00025				
SDev	.00231	.00004	.00016				
%RSD	5.7465	141.42	62.391				
#1	-.03865	.00000	.00037				
#2	-.04192	-.00006	.00014				

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17652	--	--	--	--	--	--
SDev	101.6466	--	--	--	--	--	--
%RSD	.5758337	--	--	--	--	--	--
#1	17724	--	--	--	--	--	--
#2	17580	--	--	--	--	--	--

Method: METTRA Standard: STD6
 Run Time: 07/24/00 08:50:13

004-165-1

664 1656

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	11.299	7.3858	22.320	8.7184	11.290	10.158	7.2977
SDev	.012	.0115	.006	.0673	.036	.074	.0337
%RSD	.10605	.15609	.02693	.77176	.31764	.73101	.46211

#1	11.308	7.3776	22.324	8.7660	11.315	10.211	7.3215
#2	11.291	7.3939	22.316	8.6708	11.264	10.106	7.2738

Elem	SE/1	SE/2	TL
Avge	6.5270	6.0383	5.6973
SDev	.0182	.0575	.0029
%RSD	.27898	.95196	.05145

#1	6.5398	6.0789	5.6993
#2	6.5141	5.9976	5.6952

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17774	--	--	--	--	--	--
SDev	60.52806	--	--	--	--	--	--
%RSD	.3405437	--	--	--	--	--	--

#1	17731	--	--	--	--	--	--
#2	17817	--	--	--	--	--	--

Method: METTRA Standard: STD7
 Run Time: 07/24/00 08:54:24

0014-105-2

664 1057

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	7.5844	12.674	15.661	6.9823	4.5677	17.285	3.1595
SDev	.1325	.222	.248	.1145	.0707	.266	.0522
%RSD	1.7476	1.7553	1.5807	1.6392	1.5483	1.5367	1.6527

#1	7.6781	12.831	15.836	7.0633	4.6177	17.473	3.1964
#2	7.4907	12.517	15.486	6.9014	4.5177	17.097	3.1225

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	5.2836	18.148	13.332	3.0779	3.7725	1.0341	4.1785
SDev	.0858	.300	.219	.0286	.0629	.0173	.0648
%RSD	1.6237	1.6533	1.6454	.92782	1.6666	1.6764	1.5516

#1	5.3442	18.360	13.487	3.0981	3.8170	1.0464	4.2243
#2	5.2229	17.936	13.177	3.0577	3.7281	1.0219	4.1326

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17486	--	--	--	--	--	--
SDev	200.1457	--	--	--	--	--	--
%RSD	1.144601	--	--	--	--	--	--

#1	17345	--	--	--	--	--	--
#2	17628	--	--	--	--	--	--

Method: METTRA

Slope = Conc(SIR)/IR

664 1658

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.177006	-.000016	07/24/00 08:54:24
AL	308.215	STD7	STD1	6.62683	-.154019	07/24/00 08:54:24
AS	189.042	STD6	STD1	.135337	.000433	07/24/00 08:54:24
BA	493.409	STD7	STD1	.315613	-.000090	07/24/00 08:54:24
BE	313.042	STD7	STD1	.252890	.012786	07/24/00 08:54:24
CA	317.933	STD7	STD1	14.3348	-.090145	07/24/00 08:54:24
CD	226.502	STD6	STD1	.044802	.000019	07/24/00 08:54:24
CO	228.616	STD7	STD1	.875500	.000981	07/24/00 08:54:24
CR	267.716	STD7	STD1	.231304	-.000026	07/24/00 08:54:24
CU	324.753	STD7	STD1	1.27361	-.023939	07/24/00 08:54:24
FE	271.441	STD7	STD1	9.53171	.009455	07/24/00 08:54:24
MG	279.078	STD7	STD1	5.51013	.003734	07/24/00 08:54:24
MN	257.610	STD7	STD1	.300058	-.000306	07/24/00 08:54:24
MO	202.030	STD7	STD1	1.30007	-.001472	07/24/00 08:54:24
NI	231.604	STD7	STD1	1.05983	-.000867	07/24/00 08:54:24
PB/1	220.351	STD6	STD1	.114957	-.002246	07/24/00 08:54:24
PB/2	220.352	STD6	STD1	.088637	-.000679	07/24/00 08:54:24
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.097955	.004967	07/24/00 08:54:24
SB/2	206.832	STD6	STD1	.137052	-.000161	07/24/00 08:54:24
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.151314	.012380	07/24/00 08:54:24
SE/2	196.022	STD6	STD1	.167532	-.011600	07/24/00 08:54:24
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.348580	.014043	07/24/00 08:54:24
V	292.402	STD7	STD1	3.85103	.000110	07/24/00 08:54:24
ZN	213.856	STD7	STD1	.964107	-.000245	07/24/00 08:54:24

Method: METTRA Sample Name: ICV3-1 0014-183-4 Operator: RJG
 Run Time: 07/24/00 08:58:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Renuka Jindal
 7/24/00

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50215	11.785	.25274	.98471	.98880	25.233	.24676
SDev	.00271	.125	.00081	.00721	.03737	.749	.00275
%RSD	.54066	1.0595	.32233	.73263	3.7792	2.9675	1.1159
#1	.50023	11.696	.25217	.98981	1.0152	25.763	.24481
#2	.50407	11.873	.25332	.97961	.96237	24.704	.24871
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99769	.99980	.96775	12.550	24.689	.97540	.99820
SDev	.01898	.01462	.00782	.133	.622	.00451	.02883
%RSD	1.9025	1.4622	.80760	1.0588	2.5208	.46253	2.8882
#1	.98427	.98947	.97328	12.644	25.129	.97859	.97781
#2	1.0111	1.0101	.96223	12.456	24.249	.97221	1.0186
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0268	.25079	.24717	.24837	.25785	.25197	.25393
SDev	.0264	.00222	.00096	.00138	.00653	.00391	.00044
%RSD	2.5683	.88566	.38832	.55555	2.5306	1.5532	.17231
#1	1.0454	.24922	.24649	.24740	.26246	.24920	.25362
#2	1.0081	.25236	.24785	.24935	.25323	.25474	.25424
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.24891	.25968	.25609	.50224	1.0037	1.0105	
SDev	.00882	.00001	.00295	.00775	.0294	.0021	
%RSD	3.5438	.00532	1.1506	1.5434	2.9262	.20500	
#1	.24267	.25967	.25401	.50772	1.0245	1.0120	
#2	.25514	.25969	.25818	.49675	.98294	1.0091	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18013	--	--	--	--	--	--
SDev	310.7389	--	--	--	--	--	--
%RSD	1.725074	--	--	--	--	--	--
#1	18233	--	--	--	--	--	--
#2	17793	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 07/24/00 09:02:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	-.02184	.00174	.00065	.00108	.02258	.00021
SDev	.00022	.00096	.00051	.00044	.00030	.00704	.00023
%RSD	25.319	4.4066	29.029	67.858	27.702	31.199	108.11
#1	.00073	-.02115	.00138	.00034	.00087	.01759	.00005
#2	.00104	-.02252	.00210	.00096	.00129	.02756	.00037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00124	.00069	.00125	.01462	.01488	.00056	.00501
SDev	.00019	.00032	.00019	.01043	.00801	.00014	.00080
%RSD	15.314	46.418	15.421	71.361	53.844	25.664	15.918
#1	.00110	.00046	.00112	.00724	.00922	.00046	.00557
#2	.00137	.00091	.00139	.02199	.02055	.00066	.00444
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00154	-.00099	.00024	-.00017	-.00091	.00015	-.00020
SDev	.00034	.00194	.00049	.00032	.00070	.00033	.00001
%RSD	21.991	196.55	203.80	189.60	77.370	217.08	6.9595
#1	.00130	-.00236	.00059	-.00039	-.00041	-.00008	-.00019
#2	.00178	.00038	-.00011	.00006	-.00140	.00039	-.00021
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00223	.00124	.00157	-.00005	.00257	.00116	
SDev	.00097	.00439	.00260	.00353	.00227	.00042	
%RSD	43.577	352.56	165.63	7797.3	88.409	35.866	
#1	.00291	-.00186	-.00027	-.00254	.00096	.00087	
#2	.00154	.00435	.00341	.00245	.00418	.00145	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1662

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18060	--	--	--	--	--	--
SDev	49.35661	--	--	--	--	--	--
%RSD	.2732939	--	--	--	--	--	--
#1	18095	--	--	--	--	--	--
#2	18025	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0014-170-1 Operator: RJG

Run Time: 07/24/00 09:06:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1663**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	520.45	.00106	.00204	-.00020	499.34	-.00203
SDev	.00049	1.47	.00215	.00006	.00009	.36	.00056
%RSD	347.51	.28216	201.93	2.7404	44.662	.07288	27.834
#1	-.00021	519.41	-.00046	.00208	-.00027	499.59	-.00243
#2	.00049	521.48	.00258	.00200	-.00014	499.08	-.00163
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.00348	.00267	200.80	509.04	.00811	-.00058
SDev	.00059	.00040	.00034	.44	.42	.00026	.00170
%RSD	82.396	11.428	12.910	.21670	.08269	3.1550	293.58
#1	.00030	.00320	.00242	200.49	509.34	.00793	-.00178
#2	.00114	.00376	.00291	201.10	508.75	.00830	.00062
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00141	-.00267	.00349	.00144	.00332	.00265	.00287
SDev	.00027	.00010	.00311	.00204	.00810	.01026	.00414
%RSD	19.179	3.7584	89.133	141.91	243.91	387.23	144.22
#1	.00161	-.00274	.00569	.00288	.00905	-.00460	-.00006
#2	.00122	-.00260	.00129	-.00001	-.00241	.00990	.00580
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00603	-.00819	-.00747	.00680	.00703	.00018	
SDev	.00897	.00093	.00361	.00103	.00332	.00006	
%RSD	148.74	11.330	48.271	15.220	47.234	36.683	
#1	-.01237	-.00884	-.01002	.00753	.00468	.00022	
#2	.00031	-.00753	-.00492	.00607	.00938	.00013	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16730	--	--	--	--	--	--
SDev	20.47157	--	--	--	--	--	--
%RSD	.1223610	--	--	--	--	--	--
#1	16716	--	--	--	--	--	--
#2	16745	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0014-136-3 Operator: RJG

Run Time: 07/24/00 09:10:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1665**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1104	529.37	1.0439	.53229	.49256	506.24	.94640
SDev	.0061	1.84	.0058	.00169	.00378	3.96	.00447
%RSD	.54729	.34838	.55089	.31676	.76675	.78145	.47187
#1	1.1147	530.67	1.0480	.53348	.49523	509.03	.94955
#2	1.1062	528.07	1.0398	.53110	.48989	503.44	.94324
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49667	.51020	.54644	203.78	515.88	.50670	1.0046
SDev	.00228	.00325	.00232	.06	3.83	.00342	.0021
%RSD	.45826	.63770	.42530	.03060	.74249	.67441	.20834
#1	.49828	.51250	.54808	203.74	518.59	.50912	1.0061
#2	.49506	.50790	.54479	203.82	513.17	.50429	1.0031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	500.00	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99176	1.0034	.97867	.98691	1.0746	1.0652	1.0684
SDev	.00857	.0108	.01049	.01061	.0130	.0083	.0099
%RSD	.86466	1.0803	1.0718	1.0747	1.2087	.77886	.92285
#1	.99782	1.0111	.98609	.99441	1.0838	1.0711	1.0753
#2	.98569	.99576	.97125	.97941	1.0654	1.0594	1.0614
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			1.0000			1.0000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.0340	1.0671	1.0561	1.0194	.52068	1.0487	
SDev	.0100	.0152	.0134	.0008	.00325	.0055	
%RSD	.96314	1.4216	1.2722	.07365	.62342	.52729	
#1	1.0410	1.0779	1.0656	1.0188	.52298	1.0526	
#2	1.0269	1.0564	1.0466	1.0199	.51839	1.0448	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			1.0000	1.0000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

664 1666

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16547	--	--	--	--	--	--
SDev	120.3145	--	--	--	--	--	--
%RSD	.7271153	--	--	--	--	--	--
#1	16462	--	--	--	--	--	--
#2	16632	--	--	--	--	--	--

Method: METTRA Sample Name: DGKEMB

Operator: RJG

Run Time: 07/24/00 09:17:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1667

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	-.00315	.00061	.00010	.00027	.04850	.00003
SDev	.00056	.00600	.00062	.00003	.00003	.00483	.00020
%RSD	200.62	190.61	101.83	26.077	9.9733	9.9589	598.88
#1	.00068	.00110	.00104	.00008	.00025	.05192	.00018
#2	-.00012	-.00740	.00017	.00012	.00029	.04509	-.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	-.00011	.00228	.00915	.02181	.00029	.00090
SDev	.00037	.00016	.00179	.00343	.00462	.00004	.00041
%RSD	71.192	142.50	78.536	37.452	21.186	13.299	45.861
#1	.00026	.00000	.00101	.00672	.02508	.00026	.00119
#2	.00078	-.00022	.00355	.01157	.01854	.00031	.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	-.00076	.00038	.00000	.00183	.00012	.00069
SDev	.00022	.00298	.00128	.00014	.00310	.00006	.00108
%RSD	113.14	394.90	336.06	4087.2	169.66	53.150	156.30
#1	.00004	.00135	-.00053	.00010	-.00037	.00007	-.00007
#2	.00035	-.00287	.00129	-.00009	.00402	.00016	.00145
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00118	.00260	.00134	.00160	.00011	.00279	
SDev	.00040	.00007	.00009	.00288	.00000	.00096	
%RSD	34.231	2.6367	6.5879	179.31	1.0610	34.357	
#1	-.00146	.00265	.00128	-.00043	.00011	.00211	
#2	-.00089	.00255	.00140	.00364	.00011	.00347	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17524	--	--	--	--	--	--
SDev	47.44659	--	--	--	--	--	--
%RSD	.2707590	--	--	--	--	--	--
#1	17557	--	--	--	--	--	--
#2	17490	--	--	--	--	--	--

664 1668

Method: METTRA Sample Name: DGKEMC

Operator: RJG

Run Time: 07/24/00 09:21:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1669**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05056	1.9813	2.0113	1.9473	.04767	49.014	.04829
SDev	.00009	.0026	.0069	.0077	.00039	.359	.00005
%RSD	.18618	.13051	.34203	.39462	.81265	.73317	.09628
#1	.05062	1.9831	2.0162	1.9528	.04795	49.268	.04832
#2	.05049	1.9794	2.0064	1.9419	.04740	48.760	.04826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49983	.20109	.24554	.90144	48.388	.48278	1.0061
SDev	.00047	.00038	.00066	.00034	.309	.00191	.0032
%RSD	.09410	.19013	.26735	.03749	.63821	.39589	.31556
#1	.50016	.20082	.24600	.90168	48.606	.48413	1.0039
#2	.49950	.20136	.24507	.90120	48.170	.48143	1.0084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49148	.49697	.48474	.48881	.50070	.49870	.49937
SDev	.00347	.00143	.00653	.00388	.00745	.00213	.00106
%RSD	.70545	.28830	1.3472	.79351	1.4884	.42623	.21303
#1	.49394	.49595	.48936	.49155	.50597	.49720	.50012
#2	.48903	.49798	.48012	.48607	.49543	.50021	.49862
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0078	2.0088	2.0085	1.9732	.49167	.50257	
SDev	.0032	.0244	.0152	.0078	.00326	.00202	
%RSD	.15734	1.2138	.75733	.39399	.66267	.40240	
#1	2.0056	2.0261	2.0193	1.9787	.49398	.50400	
#2	2.0101	1.9916	1.9977	1.9677	.48937	.50114	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17552	--	--	--	--	--	--
SDev	27.71803	--	--	--	--	--	--
%RSD	.1579182	--	--	--	--	--	--
#1	17533	--	--	--	--	--	--
#2	17572	--	--	--	--	--	--

664 1670

Method: METTRA Sample Name: DGJ6M

Operator: RJG

Run Time: 07/24/00 09:25:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1671

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.52188	.00484	.07759	.00020	66.395	.00023
SDev	.00021	.02998	.00040	.00060	.00020	2.078	.00018
%RSD	254.95	5.7440	8.1818	.77477	101.11	3.1290	79.249
#1	-.00007	.54307	.00456	.07801	.00006	67.864	.00036
#2	.00023	.50068	.00512	.07716	.00034	64.926	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	.00263	.01020	.63256	8.0244	.01767	.00500
SDev	.00022	.00035	.00139	.00663	.2095	.00001	.00129
%RSD	28.832	13.238	13.595	1.0480	2.6107	.03791	25.780
#1	.00062	.00288	.00922	.63725	8.1725	.01768	.00591
#2	.00093	.00238	.01118	.62787	7.8763	.01767	.00409
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.00022	.00194	.00137	.00335	.00092	.00173
SDev	.00048	.00161	.00052	.00088	.00454	.00166	.00040
%RSD	24.905	736.78	26.764	64.460	135.53	181.23	23.253
#1	.00226	-.00092	.00157	.00074	.00656	-.00026	.00201
#2	.00158	.00135	.00231	.00199	.00014	.00209	.00144
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00066	.00285	.00168	.00338	.00229	.01632	
SDev	.00032	.00291	.00184	.00055	.00057	.00002	
%RSD	47.996	102.18	109.30	16.309	24.835	.10981	
#1	-.00089	.00491	.00298	.00377	.00269	.01631	
#2	-.00044	.00079	.00038	.00299	.00189	.01633	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1672

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17626	--	--	--	--	--	--
SDev	465.5235	--	--	--	--	--	--
%RSD	2.641182	--	--	--	--	--	--
#1	17955	--	--	--	--	--	--
#2	17296	--	--	--	--	--	--

Method: METTRA Sample Name: DGJ6MP5 Operator: RJG
 Run Time: 07/24/00 09:29:29
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1673

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	.07567	.00129	.01533	.00044	12.955	.00015
SDev	.00003	.00696	.00114	.00024	.00002	.019	.00016
%RSD	50.528	9.2016	88.597	1.5609	4.2348	.14754	109.06

#1	-.00004	.07075	.00048	.01516	.00042	12.969	.00003
#2	-.00008	.08059	.00209	.01550	.00045	12.942	.00026

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	.00022	.00320	.13042	1.5813	.00354	.00060
SDev	.00054	.00020	.00030	.00692	.0074	.00005	.00020
%RSD	351.78	89.926	9.4240	5.3020	.46606	1.3259	33.511

#1	-.00054	.00008	.00299	.12553	1.5761	.00357	.00075
#2	.00023	.00036	.00341	.13531	1.5865	.00350	.00046

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	-.00237	.00117	-.00001	.00251	.00040	.00110
SDev	.00030	.00094	.00102	.00037	.00068	.00175	.00139
%RSD	41.513	39.552	87.432	4202.2	26.936	437.87	126.16

#1	.00052	-.00171	.00045	-.00027	.00298	.00163	.00208
#2	.00095	-.00303	.00189	.00025	.00203	-.00084	.00012

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00166	.00114	.00131	.00349	.00027	.00374
SDev	.00101	.00097	.00098	.00036	.00016	.00007
%RSD	61.092	84.662	74.761	10.170	59.641	1.8731

#1	.00094	.00046	.00062	.00324	.00015	.00369
#2	.00237	.00182	.00201	.00374	.00038	.00379

664 1674

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17527	--	--	--	--	--	--
SDev	62.12043	--	--	--	--	--	--
%RSD	.3544215	--	--	--	--	--	--
#1	17571	--	--	--	--	--	--
#2	17483	--	--	--	--	--	--

Method: METTRA Sample Name: DGJ6MS

Operator: RJG

Run Time: 07/24/00 09:33:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1675

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05245	2.8529	2.0805	2.0660	.04817	115.85	.04875
SDev	.00016	.0001	.0024	.0070	.00044	.94	.00003
%RSD	.29915	.00276	.11449	.33828	.91586	.80823	.06721
#1	.05233	2.8528	2.0822	2.0710	.04848	116.52	.04873
#2	.05256	2.8529	2.0788	2.0611	.04786	115.19	.04878
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50948	.20815	.26515	1.6173	57.509	.51307	1.0329
SDev	.00010	.00034	.00079	.0123	.373	.00182	.0046
%RSD	.01907	.16471	.29643	.75990	.64865	.35428	.44620
#1	.50955	.20791	.26571	1.6086	57.772	.51435	1.0297
#2	.50942	.20840	.26459	1.6260	57.245	.51178	1.0362
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49354	.51210	.49496	.50067	.52760	.52033	.52275
SDev	.00102	.00372	.00252	.00044	.00112	.00135	.00127
%RSD	.20654	.72657	.50896	.08814	.21256	.25860	.24313
#1	.49426	.50947	.49674	.50098	.52839	.52128	.52365
#2	.49282	.51473	.49318	.50036	.52681	.51938	.52185
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0792	2.0701	2.0731	2.0083	.50277	.53296	
SDev	.0101	.0108	.0039	.0003	.00376	.00175	
%RSD	.48488	.52200	.18572	.01676	.74753	.32736	
#1	2.0721	2.0777	2.0758	2.0081	.50543	.53419	
#2	2.0864	2.0624	2.0704	2.0086	.50012	.53172	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1676

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17111	--	--	--	--	--	--
SDev	34.47145	--	--	--	--	--	--
%RSD	.2014540	--	--	--	--	--	--
#1	17136	--	--	--	--	--	--
#2	17087	--	--	--	--	--	--

Method: METTRA Sample Name: DGJ6MD

Operator: RJG

Run Time: 07/24/00 09:37:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1677**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05117	2.8138	2.0515	2.0311	.04759	114.31	.04812
SDev	.00020	.0083	.0105	.0103	.00048	1.20	.00000
%RSD	.38865	.29394	.51091	.50624	.99965	1.0468	.00391

#1	.05131	2.8196	2.0589	2.0383	.04792	115.16	.04812
#2	.05103	2.8079	2.0440	2.0238	.04725	113.46	.04812

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50121	.20450	.26059	1.5758	56.934	.50510	1.0195
SDev	.00154	.00124	.00088	.0090	.505	.00311	.0002
%RSD	.30750	.60779	.33850	.57381	.88696	.61572	.02044

#1	.50230	.20538	.26121	1.5822	57.291	.50729	1.0196
#2	.50012	.20362	.25996	1.5694	56.577	.50290	1.0193

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48867	.50455	.48394	.49080	.51648	.51031	.51237
SDev	.00481	.00402	.00210	.00274	.00633	.00103	.00142
%RSD	.98394	.79724	.43372	.55816	1.2255	.20258	.27679

#1	.49207	.50739	.48542	.49274	.52096	.50958	.51337
#2	.48527	.50170	.48245	.48886	.51201	.51104	.51136

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0302	2.0281	2.0288	1.9766	.49635	.51574
SDev	.0003	.0094	.0064	.0049	.00412	.00170
%RSD	.01471	.46336	.31386	.24931	.83080	.32964

#1	2.0304	2.0348	2.0333	1.9731	.49926	.51694
#2	2.0300	2.0215	2.0243	1.9801	.49343	.51453

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17205	--	--	--	--	--	--
SDev	16.29798	--	--	--	--	--	--
%RSD	.0947305	--	--	--	--	--	--
#1	17216	--	--	--	--	--	--
#2	17193	--	--	--	--	--	--

664 1678

Method: METTRA Sample Name: DGHDCBW Operator: RJG
 Run Time: 07/24/00 09:42:42
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1679
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	-.00772	-.00029	.00040	.00004	.03219	.00002
SDev	.00044	.03785	.00159	.00009	.00033	.00311	.00019
%RSD	222.94	490.12	540.96	21.682	774.37	9.6728	1051.7
#1	.00011	.01904	.00083	.00047	-.00019	.03439	.00016
#2	-.00051	-.03448	-.00142	.00034	.00028	.02999	-.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.00005	.00089	.00564	.00877	.00007	.00219
SDev	.00018	.00029	.00100	.00069	.00350	.00019	.00004
%RSD	157.59	638.37	112.81	12.322	39.852	261.21	1.9157
#1	-.00024	.00025	.00018	.00514	.01124	.00021	.00222
#2	.00001	-.00016	.00160	.00613	.00630	-.00006	.00216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00034	-.00081	-.00098	-.00092	.00212	-.00062	.00029
SDev	.00066	.00060	.00164	.00130	.00238	.00054	.00115
%RSD	190.62	74.370	168.01	140.60	112.54	86.284	395.33
#1	-.00081	-.00038	.00018	-.00001	.00380	-.00024	.00110
#2	.00012	-.00124	-.00214	-.00184	.00043	-.00100	-.00052
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00045	.00252	.00153	.00269	.00044	.00142	
SDev	.00440	.00211	.00006	.00119	.00046	.00009	
%RSD	980.20	83.879	3.6541	44.256	105.49	6.5108	
#1	.00266	.00102	.00157	.00353	.00077	.00148	
#2	-.00356	.00401	.00149	.00185	.00011	.00135	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1680

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17397	--	--	--	--	--	--
SDev	302.8903	--	--	--	--	--	--
%RSD	1.741097	--	--	--	--	--	--
#1	17611	--	--	--	--	--	--
#2	17182	--	--	--	--	--	--

Method: METTRA Sample Name: DGJ66BW Operator: RJG
 Run Time: 07/24/00 09:46:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1681**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	-.01979	.00112	.00106	.00015	.30356	.00002
SDev	.00044	.00727	.00114	.00006	.00010	.00414	.00019
%RSD	1254.8	36.753	101.88	5.8555	66.970	1.3652	914.93
#1	.00028	-.01465	.00193	.00101	.00008	.30649	.00016
#2	-.00035	-.02493	.00031	.00110	.00022	.30063	-.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	-.00030	.00334	.02125	.05094	.00021	.00082
SDev	.00008	.00037	.00064	.00487	.00203	.00001	.00024
%RSD	30.657	123.10	19.278	22.936	3.9869	2.2335	28.757
#1	.00020	-.00004	.00379	.02470	.05238	.00021	.00099
#2	.00032	-.00057	.00288	.01781	.04951	.00020	.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00061	-.00224	.00051	-.00041	.00194	.00053	.00100
SDev	.00106	.00025	.00089	.00051	.00041	.00198	.00146
%RSD	173.17	11.158	175.00	124.96	21.086	376.39	146.17
#1	.00014	-.00241	.00113	-.00005	.00223	.00193	.00203
#2	-.00136	-.00206	-.00012	-.00077	.00165	-.00088	-.00003
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00267	.00286	.00102	.00178	.00000	.00929	
SDev	.00032	.00013	.00002	.00307	.00016	.00000	
%RSD	12.144	4.6586	1.8519	172.64	3737.5	.00829	
#1	-.00244	.00277	.00104	-.00039	.00012	.00929	
#2	-.00290	.00296	.00101	.00395	-.00011	.00929	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16986	--	--	--	--	--	--
SDev	153.0527	--	--	--	--	--	--
%RSD	.9010455	--	--	--	--	--	--
#1	16878	--	--	--	--	--	--
#2	17094	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-1 0014-183-1 Operator: RJG
 Run Time: 07/24/00 09:51:00
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1683**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0579	24.804	.52645	1.9921	1.9988	50.087	.50504
SDev	.0353	.858	.01964	.0719	.0826	2.023	.01742
%RSD	3.3370	3.4579	3.7316	3.6076	4.1317	4.0380	3.4497
#1	1.0829	25.410	.54034	2.0429	2.0572	51.517	.51736
#2	1.0330	24.197	.51256	1.9413	1.9404	48.657	.49272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0775	2.0679	2.0018	25.570	50.209	2.0260	2.0818
SDev	.0699	.0726	.0740	.973	1.968	.0748	.0618
%RSD	3.3625	3.5091	3.6991	3.8057	3.9193	3.6937	2.9705
#1	2.1268	2.1192	2.0541	26.258	51.600	2.0789	2.1256
#2	2.0281	2.0166	1.9494	24.882	48.817	1.9731	2.0381
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0063	.51909	.50994	.51299	.53897	.52450	.52932
SDev	.0809	.01694	.01870	.01811	.02071	.01197	.01488
%RSD	4.0333	3.2640	3.6666	3.5309	3.8426	2.2818	2.8110
#1	2.0635	.53108	.52316	.52580	.55361	.53297	.53984
#2	1.9491	.50711	.49672	.50018	.52432	.51604	.51880
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52883	.53577	.53346	1.0221	2.0239	2.0500	
SDev	.01947	.02033	.02004	.0417	.0828	.0737	
%RSD	3.6818	3.7940	3.7569	4.0802	4.0924	3.5964	
#1	.54260	.55014	.54763	1.0516	2.0825	2.1021	
#2	.51506	.52140	.51929	.99260	1.9654	1.9978	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1684

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17035	--	--	--	--	--	--
SDev	493.3133	--	--	--	--	--	--
%RSD	2.895911	--	--	--	--	--	--
#1	16686	--	--	--	--	--	--
#2	17384	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1

Operator: RJG

Run Time: 07/24/00 09:55:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1685

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00016	-.02960	-.00075	.00031	.00078	.01307	.00002
SDev	.00030	.00587	.00011	.00001	.00007	.00015	.00010
%RSD	190.45	19.815	14.288	4.6834	8.7595	1.1851	478.35
#1	-.00037	-.03375	-.00083	.00030	.00083	.01318	-.00005
#2	.00005	-.02546	-.00068	.00032	.00073	.01296	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	-.00005	.00132	.00671	.00766	.00030	.00629
SDev	.00039	.00006	.00010	.01453	.00201	.00011	.00227
%RSD	54.616	112.47	7.7988	216.58	26.270	36.946	36.082
#1	.00043	-.00001	.00125	-.00357	.00624	.00022	.00790
#2	.00098	-.00009	.00140	.01698	.00908	.00038	.00469
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00017	-.00131	-.00142	-.00138	.00069	.00137	.00114
SDev	.00013	.00250	.00133	.00005	.00127	.00165	.00068
%RSD	75.832	191.60	93.527	3.7962	184.23	120.25	59.174
#1	-.00027	.00046	-.00236	-.00142	.00158	.00020	.00066
#2	-.00008	-.00307	-.00048	-.00134	-.00021	.00253	.00162
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00240	-.00159	-.00026	-.00101	.00000	.00059	
SDev	.00100	.00095	.00097	.00013	.00016	.00006	
%RSD	41.733	60.023	375.69	13.055	6167.5	9.6957	
#1	.00311	-.00091	.00043	-.00091	-.00011	.00063	
#2	.00169	-.00226	-.00094	-.00110	.00012	.00055	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1686

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17569	--	--	--	--	--	--
SDev	71.84315	--	--	--	--	--	--
%RSD	.4089223	--	--	--	--	--	--
#1	17620	--	--	--	--	--	--
#2	17518	--	--	--	--	--	--

Method: METTRA Sample Name: DGHDCCW Operator: RJG
 Run Time: 07/24/00 09:59:19
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1687

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05223	2.0761	2.0708	1.9830	.04869	50.737	.04958
SDev	.00104	.0862	.0745	.0756	.00124	1.739	.00186
%RSD	1.9972	4.1516	3.5994	3.8123	2.5417	3.4280	3.7507
#1	.05150	2.0152	2.0181	1.9296	.04781	49.507	.04826
#2	.05297	2.1371	2.1235	2.0365	.04956	51.967	.05089
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51672	.20742	.25655	.95597	50.301	.50040	1.0547
SDev	.01898	.00726	.01077	.04951	1.783	.01791	.0420
%RSD	3.6732	3.5008	4.1962	5.1785	3.5452	3.5783	3.9836
#1	.50330	.20228	.24894	.92096	49.040	.48774	1.0250
#2	.53014	.21255	.26416	.99097	51.562	.51306	1.0844
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49794	.50972	.49588	.50049	.52752	.51523	.51932
SDev	.01665	.01536	.01470	.01492	.01496	.01666	.01609
%RSD	3.3443	3.0125	2.9638	2.9803	2.8357	3.2326	3.0984
#1	.48616	.49886	.48549	.48994	.51694	.50345	.50794
#2	.50971	.52058	.50627	.51104	.53810	.52701	.53070
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0468	2.0585	2.0546	2.0145	.50635	.52445	
SDev	.0674	.0534	.0581	.0768	.01638	.01943	
%RSD	3.2921	2.5956	2.8266	3.8122	3.2353	3.7053	
#1	1.9991	2.0207	2.0136	1.9602	.49477	.51071	
#2	2.0944	2.0963	2.0957	2.0688	.51794	.53819	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

664 1688

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16732	--	--	--	--	--	--
SDev	508.9401	--	--	--	--	--	--
%RSD	3.041713	--	--	--	--	--	--
#1	17092	--	--	--	--	--	--
#2	16372	--	--	--	--	--	--

Method: METTRA Sample Name: DS12C01CSW

Operator: RJG

Run Time: 07/24/00 10:03:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1689**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.54204	.00132	.02167	.00014	51.676	.00011
SDev	.00032	.00393	.00003	.00022	.00008	.424	.00003
%RSD	252.10	.72542	2.6593	1.0322	60.131	.82006	30.655
#1	-.00010	.53926	.00135	.02183	.00008	51.976	.00013
#2	.00036	.54482	.00130	.02151	.00019	51.376	.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.00162	.00474	.47503	3.1146	.00543	.00562
SDev	.00015	.00007	.00018	.01555	.0220	.00002	.00027
%RSD	21.975	4.4787	3.8316	3.2732	.70647	.40528	4.8694
#1	.00057	.00157	.00487	.46403	3.1302	.00545	.00581
#2	.00078	.00168	.00461	.48602	3.0991	.00542	.00543
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00193	.00164	-.00095	-.00009	.00019	.00171	.00120
SDev	.00059	.00107	.00105	.00106	.00093	.00169	.00144
%RSD	30.740	65.205	110.11	1163.2	499.82	99.093	119.74
#1	.00151	.00240	-.00021	.00066	.00084	.00290	.00222
#2	.00235	.00088	-.00170	-.00084	-.00047	.00051	.00018
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00139	.00352	.00188	.00038	.00220	.01874	
SDev	.00051	.00186	.00141	.00029	.00017	.00004	
%RSD	36.483	52.885	74.855	76.207	7.7405	.20771	
#1	-.00175	.00220	.00089	.00059	.00232	.01871	
#2	-.00103	.00484	.00288	.00018	.00208	.01876	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1690

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17053	--	--	--	--	--	--
SDev	139.4064	--	--	--	--	--	--
%RSD	.8174828	--	--	--	--	--	--
#1	16955	--	--	--	--	--	--
#2	17152	--	--	--	--	--	--

Method: METTRA Sample Name: DS12C01CSP5W

Operator: RJG

Run Time: 07/24/00 10:07:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1691**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00039	.08236	.00001	.00446	.00035	10.099	.00016
SDev	.00009	.00413	.00102	.00031	.00000	.078	.00006
%RSD	23.592	5.0206	7079.5	6.9300	.71018	.77038	35.274

#1	.00046	.07944	.00073	.00424	.00035	10.154	.00020
#2	.00033	.08529	-.00070	.00468	.00035	10.044	.00012

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.00028	.00173	.09564	.61254	.00113	.00140
SDev	.00035	.00015	.00001	.00735	.00073	.00011	.00058
%RSD	107.82	53.738	.80707	7.6830	.11862	9.7407	41.603

#1	.00008	.00017	.00174	.09045	.61203	.00105	.00099
#2	.00058	.00039	.00172	.10084	.61306	.00121	.00181

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	-.00139	-.00041	-.00074	.00335	-.00015	.00102
SDev	.00004	.00024	.00032	.00013	.00054	.00083	.00073
%RSD	9.9784	17.565	78.688	18.133	16.235	563.46	71.951

#1	.00041	-.00156	-.00018	-.00064	.00374	.00044	.00154
#2	.00047	-.00122	-.00064	-.00083	.00297	-.00073	.00050

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	.00090	.00102	.00243	.00058	.00354
SDev	.00238	.00107	.00150	.00136	.00031	.00014
%RSD	186.74	118.78	146.95	56.082	52.948	3.8804

#1	-.00041	.00014	-.00004	.00339	.00080	.00344
#2	.00296	.00165	.00209	.00146	.00037	.00364

664 1692

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y.	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17450	--	--	--	--	--	--
SDev	8.025386	--	--	--	--	--	--
%RSD	.0459916	--	--	--	--	--	--
#1	17455	--	--	--	--	--	--
#2	17444	--	--	--	--	--	--

Method: METTRA Sample Name: DS12C01CSSW Operator: RJG
 Run Time: 07/24/00 10:11:48
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1693

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05093	2.7809	1.9934	1.9305	.04740	99.631	.04723
SDev	.00060	.0176	.0100	.0071	.00005	.088	.00025
%RSD	1.1703	.63256	.50176	.36747	.10506	.08869	.52980
#1	.05051	2.7685	1.9863	1.9255	.04744	99.568	.04705
#2	.05135	2.7933	2.0005	1.9355	.04737	99.693	.04741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49397	.20055	.24878	1.3897	51.764	.48640	1.0126
SDev	.00264	.00113	.00145	.0133	.078	.00135	.0092
%RSD	.53396	.56579	.58176	.96013	.15118	.27794	.90464
#1	.49210	.19975	.24776	1.3802	51.708	.48545	1.0061
#2	.49583	.20135	.24980	1.3991	51.819	.48736	1.0191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47707	.49710	.47718	.48381	.51307	.50555	.50805
SDev	.00126	.00641	.00166	.00324	.00267	.00696	.00553
%RSD	.26379	1.2894	.34735	.66968	.52022	1.3765	1.0885
#1	.47618	.49256	.47601	.48152	.51118	.50063	.50414
#2	.47796	.50163	.47835	.48610	.51496	.51047	.51197
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9858	1.9922	1.9901	1.9446	.49222	.50732	
SDev	.0206	.0015	.0079	.0171	.00228	.00278	
%RSD	1.0363	.07738	.39602	.87816	.46264	.54834	
#1	1.9713	1.9912	1.9845	1.9325	.49061	.50535	
#2	2.0004	1.9933	1.9957	1.9567	.49383	.50928	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1694

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17194	--	--	--	--	--	--
SDev	112.7131	--	--	--	--	--	--
%RSD	.6555297	--	--	--	--	--	--
#1	17274	--	--	--	--	--	--
#2	17114	--	--	--	--	--	--

Method: METTRA Sample Name: DS12C01CSDW

Operator: RJG

Run Time: 07/24/00 10:15:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1695

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05108	2.7948	1.9938	1.9342	.04750	99.482	.04714
SDev	.00072	.0174	.0083	.0048	.00004	.019	.00012
%RSD	1.4030	.62281	.41852	.24915	.07603	.01931	.25325
#1	.05057	2.7825	1.9879	1.9308	.04753	99.468	.04705
#2	.05158	2.8071	1.9997	1.9376	.04747	99.495	.04722
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49408	.20104	.24945	1.3903	51.601	.48751	1.0167
SDev	.00166	.00130	.00090	.0064	.035	.00031	.0069
%RSD	.33628	.64672	.36011	.46140	.06711	.06348	.67936
#1	.49291	.20012	.24881	1.3857	51.577	.48729	1.0118
#2	.49525	.20196	.25008	1.3948	51.626	.48773	1.0216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47730	.49678	.47625	.48309	.51191	.50488	.50723
SDev	.00236	.00227	.00247	.00090	.00007	.00200	.00136
%RSD	.49424	.45607	.51955	.18546	.01471	.39719	.26865
#1	.47563	.49518	.47800	.48372	.51197	.50630	.50819
#2	.47897	.49838	.47450	.48246	.51186	.50347	.50626
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9707	1.9919	1.9849	1.9369	.49347	.50779	
SDev	.0083	.0095	.0035	.0045	.00065	.00072	
%RSD	.42028	.47445	.17862	.23061	.13082	.14139	
#1	1.9649	1.9986	1.9874	1.9337	.49392	.50728	
#2	1.9766	1.9852	1.9824	1.9400	.49301	.50830	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17209	--	--	--	--	--	--
SDev	6.044934	--	--	--	--	--	--
%RSD	.0351264	--	--	--	--	--	--
#1	17205	--	--	--	--	--	--
#2	17213	--	--	--	--	--	--

664 1696

Method: METTRA Sample Name: DS13C01CSW

Operator: RJG

Run Time: 07/24/00 10:20:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1697

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00017	31.589	.00710	.12837	.00131	34.397	-.00054
SDev	.00009	.454	.00042	.00204	.00013	.714	.00005
%RSD	52.950	1.4379	5.9267	1.5919	9.7847	2.0761	8.7818

#1	-.00011	31.910	.00739	.12981	.00122	34.902	-.00058
#2	-.00024	31.268	.00680	.12692	.00140	33.892	-.00051

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00975	.05550	.02041	28.854	5.8017	.26614	.00754
SDev	.00045	.00109	.00067	.390	.1243	.00449	.00094
%RSD	4.6083	1.9690	3.2989	1.3508	2.1419	1.6855	12.517

#1	.01007	.05627	.02088	29.129	5.8896	.26931	.00821
#2	.00944	.05473	.01993	28.578	5.7138	.26297	.00687

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03111	.03186	.03195	.03192	.00341	.00059	.00153
SDev	.00021	.00105	.00183	.00087	.00140	.00128	.00132
%RSD	.66183	3.2868	5.7124	2.7216	41.208	215.59	86.330

#1	.03126	.03112	.03324	.03253	.00241	-.00031	.00060
#2	.03097	.03260	.03066	.03131	.00440	.00150	.00246

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00299	.00681	.00354	-.00205	.07200	.11555
SDev	.00108	.00247	.00129	.00302	.00110	.00187
%RSD	36.061	36.250	36.303	147.63	1.5264	1.6214

#1	-.00375	.00855	.00445	.00009	.07278	.11687
#2	-.00223	.00506	.00263	-.00418	.07123	.11422

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

664 1698

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17319	--	--	--	--	--	--
SDev	181.6919	--	--	--	--	--	--
%RSD	1.049070	--	--	--	--	--	--
#1	17191	--	--	--	--	--	--
#2	17448	--	--	--	--	--	--

Method: METTRA Sample Name: DSDUP02W Operator: RJG
 Run Time: 07/24/00 10:24:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1699

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	24.159	.00643	.09729	.00105	20.650	-.00020
SDev	.00052	.010	.00132	.00027	.00007	.121	.00005
%RSD	120.31	.04226	20.533	.27427	7.0178	.58604	24.447
#1	.00081	24.166	.00736	.09748	.00099	20.736	-.00023
#2	.00007	24.152	.00550	.09710	.00110	20.565	-.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00726	.04191	.01511	22.016	4.3497	.16690	.00513
SDev	.00003	.00036	.00006	.081	.0219	.00023	.00004
%RSD	.36780	.86873	.36302	.36577	.50255	.13664	.84738
#1	.00728	.04216	.01507	22.073	4.3651	.16706	.00516
#2	.00725	.04165	.01515	21.959	4.3342	.16674	.00510
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02381	.02723	.02468	.02553	.00199	.00097	.00131
SDev	.00027	.00212	.00005	.00074	.00032	.00150	.00111
%RSD	1.1194	7.7664	.21062	2.8945	16.201	154.35	84.513
#1	.02400	.02574	.02464	.02501	.00176	-.00009	.00053
#2	.02362	.02873	.02472	.02605	.00222	.00203	.00209
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00014	.00138	.00097	.00048	.05578	.10573	
SDev	.00098	.00174	.00084	.00034	.00184	.00019	
%RSD	688.81	126.54	86.528	69.215	3.2934	.17740	
#1	-.00055	.00261	.00156	.00072	.05708	.10587	
#2	.00083	.00014	.00037	.00025	.05448	.10560	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1700

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17416	--	--	--	--	--	--
SDev	24.46562	--	--	--	--	--	--
%RSD	.1404758	--	--	--	--	--	--
#1	17434	--	--	--	--	--	--
#2	17399	--	--	--	--	--	--

Method: METTRA Sample Name: 193C02CSW2W Operator: RJG
 Run Time: 07/24/00 10:28:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1701

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	2.2530	.00220	.02006	.00014	27.306	.00012
SDev	.00037	.0066	.00045	.00011	.00002	.256	.00006
%RSD	529.40	.29202	20.416	.56065	15.188	.93747	49.217
#1	-.00019	2.2577	.00252	.02014	.00012	27.487	.00008
#2	.00033	2.2484	.00188	.01999	.00015	27.125	.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.00471	.00319	2.2692	1.8461	.01371	.00155
SDev	.00007	.00022	.00010	.0043	.0122	.00005	.00002
%RSD	12.651	4.6557	3.1846	.18926	.66274	.33361	1.1512
#1	.00060	.00455	.00312	2.2662	1.8547	.01374	.00156
#2	.00050	.00486	.00326	2.2723	1.8374	.01367	.00154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00264	.00129	.00023	.00059	.00258	-.00110	.00012
SDev	.00024	.00074	.00014	.00034	.00098	.00102	.00035
%RSD	9.1007	57.327	59.639	57.941	38.034	92.057	288.80
#1	.00247	.00181	.00033	.00083	.00327	-.00182	-.00013
#2	.00281	.00077	.00013	.00035	.00188	-.00039	.00037
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00175	.00438	.00234	-.00331	.00627	.01857	
SDev	.00327	.00370	.00355	.00157	.00035	.00021	
%RSD	187.22	84.425	151.93	47.281	5.5262	1.1511	
#1	.00057	.00699	.00485	-.00442	.00652	.01872	
#2	-.00406	.00176	-.00017	-.00220	.00603	.01842	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1702

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17206	--	--	--	--	--	--
SDev	101.5762	--	--	--	--	--	--
%RSD	.5903403	--	--	--	--	--	--
#1	17135	--	--	--	--	--	--
#2	17278	--	--	--	--	--	--

Method: METTRA Sample Name: 193C04CSW3W

Operator: RJG

Run Time: 07/24/00 10:32:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1703**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	13.006	.00310	.06037	.00066	25.550	-.00009
SDev	.00043	.010	.00050	.00000	.00001	.122	.00005
%RSD	107.66	.07948	16.150	.00553	.78941	.47761	51.359
#1	.00010	13.013	.00274	.06037	.00065	25.636	-.00006
#2	.00071	12.999	.00345	.06037	.00066	25.463	-.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00325	.02355	.00880	12.324	3.1845	.07593	.00167
SDev	.00011	.00022	.00010	.033	.0090	.00025	.00010
%RSD	3.3596	.93906	1.0946	.27005	.28373	.32628	6.1529
#1	.00332	.02370	.00873	12.300	3.1909	.07610	.00159
#2	.00317	.02339	.00887	12.347	3.1781	.07575	.00174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01107	.00562	.00565	.00564	.00281	-.00136	.00003
SDev	.00025	.00301	.00047	.00069	.00391	.00278	.00056
%RSD	2.2242	53.643	8.4137	12.176	138.98	204.24	2052.6
#1	.01090	.00349	.00599	.00515	.00557	-.00333	-.00037
#2	.01125	.00775	.00531	.00613	.00005	.00061	.00042
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00033	.00231	.00143	-.00125	.02887	.05535	
SDev	.00282	.00108	.00022	.00044	.00046	.00020	
%RSD	858.34	46.853	15.170	34.970	1.5811	.36227	
#1	-.00233	.00308	.00128	-.00094	.02855	.05550	
#2	.00167	.00155	.00159	-.00156	.02919	.05521	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1704

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17398	--	--	--	--	--	--
SDev	17.57133	--	--	--	--	--	--
%RSD	.1009967	--	--	--	--	--	--
#1	17386	--	--	--	--	--	--
#2	17410	--	--	--	--	--	--

Method: METTRA Sample Name: 193C05CSN3W Operator: RJG
 Run Time: 07/24/00 10:36:44
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1705**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.29144	.00033	.01118	.00017	27.992	.00008
SDev	.00011	.00420	.00105	.00025	.00007	.160	.00010
%RSD	96.936	1.4413	322.64	2.2110	42.575	.56984	113.21
#1	-.00020	.28847	.00107	.01100	.00022	27.879	.00002
#2	-.00004	.29441	-.00042	.01135	.00012	28.105	.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.00092	.00114	.47102	1.3513	.00198	.00142
SDev	.00056	.00016	.00070	.00678	.0157	.00009	.00045
%RSD	347.08	17.063	61.872	1.4398	1.1597	4.2851	31.676
#1	-.00023	.00104	.00064	.46622	1.3403	.00192	.00110
#2	.00055	.00081	.00163	.47581	1.3624	.00204	.00174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.00027	-.00057	-.00029	.00062	.00059	.00060
SDev	.00088	.00024	.00031	.00029	.00111	.00016	.00026
%RSD	80.222	89.467	54.970	100.05	179.83	26.966	43.859
#1	.00171	.00044	-.00035	-.00008	.00140	.00048	.00079
#2	.00047	.00010	-.00079	-.00049	-.00017	.00070	.00041
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00136	.00216	.00190	-.00312	.00269	.00695	
SDev	.00157	.00079	.00000	.00024	.00003	.00004	
%RSD	115.05	36.456	.18559	7.6758	1.0437	.60852	
#1	.00247	.00161	.00190	-.00295	.00267	.00692	
#2	.00025	.00272	.00190	-.00329	.00271	.00698	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1706

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17538	--	--	--	--	--	--
SDev	186.6058	--	--	--	--	--	--
%RSD	1.064008	--	--	--	--	--	--
#1	17670	--	--	--	--	--	--
#2	17406	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2
 Run Time: 07/24/00 10:40:53
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1707

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0260	23.912	.50813	1.9323	1.9812	49.453	.48853
SDev	.0015	.104	.00033	.0059	.0025	.005	.00114
%RSD	.14290	.43683	.06415	.30610	.12751	.01023	.23251

#1	1.0250	23.838	.50836	1.9281	1.9830	49.457	.48773
#2	1.0270	23.985	.50790	1.9365	1.9795	49.449	.48934

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9996	1.9946	1.9473	25.162	49.680	1.9777	1.9977
SDev	.0059	.0051	.0030	.046	.015	.0034	.0164
%RSD	.29272	.25654	.15597	.18317	.03060	.17292	.82247

#1	1.9954	1.9910	1.9452	25.129	49.691	1.9752	1.9860
#2	2.0037	1.9983	1.9495	25.194	49.669	1.9801	2.0093

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9559	.50766	.49647	.50019	.53364	.51306	.51991
SDev	.0002	.00317	.00063	.00063	.00095	.00100	.00035
%RSD	.01024	.62399	.12701	.12680	.17820	.19488	.06737

#1	1.9560	.50542	.49691	.49974	.53431	.51235	.51967
#2	1.9557	.50990	.49602	.50064	.53297	.51377	.52016

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51448	.52499	.52149	.99696	1.9928	1.9877
SDev	.00095	.00102	.00037	.00035	.0020	.0020
%RSD	.18435	.19497	.07036	.03534	.09943	.09838

#1	.51381	.52572	.52175	.99671	1.9942	1.9863
#2	.51515	.52427	.52123	.99720	1.9914	1.9891

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

664 1708

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17680	--	--	--	--	--	--
SDev	9.650903	--	--	--	--	--	--
%RSD	.0545872	--	--	--	--	--	--
#1	17687	--	--	--	--	--	--
#2	17673	--	--	--	--	--	--

Method: METTRA Sample Name: CCB2

Operator: RJG

Run Time: 07/24/00 10:45:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1709**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.00945	.00057	.00064	.00069	.01999	.00011
SDev	.00028	.00189	.00094	.00037	.00026	.00999	.00018
%RSD	571.00	19.972	163.50	57.383	37.784	49.967	161.22

#1	-.00015	-.01078	.00123	.00038	.00051	.01293	-.00002
#2	.00024	-.00812	-.00009	.00090	.00087	.02705	.00024

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	.00035	.00098	.00371	.01579	.00051	.00671
SDev	.00025	.00062	.00040	.00346	.00994	.00023	.00155
%RSD	37.747	177.52	40.513	93.257	62.921	44.837	23.065

#1	.00048	-.00009	.00070	.00615	.00877	.00035	.00780
#2	.00083	.00079	.00126	.00126	.02282	.00067	.00561

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00046	-.00027	-.00078	-.00061	.00122	-.00105	-.00029
SDev	.00026	.00366	.00115	.00198	.00067	.00109	.00095
%RSD	56.554	1372.0	146.43	324.95	54.800	103.76	321.55

#1	.00065	-.00286	-.00159	-.00201	.00169	-.00028	.00038
#2	.00028	.00232	.00003	.00079	.00074	-.00182	-.00097

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00337	-.00132	.00024	-.00025	.00044	.00107
SDev	.00128	.00029	.00023	.00190	.00046	.00015
%RSD	37.913	22.219	94.219	764.36	105.43	14.256

#1	.00427	-.00152	.00041	.00109	.00011	.00096
#2	.00247	-.00111	.00008	-.00159	.00077	.00118

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

664 1710

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17569	--	--	--	--	--	--
SDev	63.53465	--	--	--	--	--	--
%RSD	.3616339	--	--	--	--	--	--
#1	17524	--	--	--	--	--	--
#2	17614	--	--	--	--	--	--

Method: METTRA Sample Name: DGKFEB

Operator: RJG

Run Time: 07/24/00 10:49:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1711**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.00598	.00008	.00021	.00015	.00313	.00009
SDev	.00001	.00243	.00072	.00003	.00006	.00215	.00005
%RSD	87.692	40.672	872.96	16.505	41.080	68.655	49.004
#1	-.00003	-.00426	-.00043	.00019	.00019	.00161	.00013
#2	-.00001	-.00770	.00059	.00024	.00011	.00465	.00006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	.00002	.00099	.00620	.00311	.00016	.00108
SDev	.00005	.00008	.00037	.00842	.00177	.00001	.00055
%RSD	11.220	413.14	37.014	135.93	56.898	3.1383	50.709
#1	.00039	.00008	.00073	.00024	.00186	.00015	.00147
#2	.00045	-.00004	.00125	.01215	.00437	.00016	.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00193	-.00163	-.00122	-.00135	.00297	.00144	.00195
SDev	.00311	.00078	.00026	.00043	.00229	.00030	.00096
%RSD	160.94	48.000	21.167	31.917	77.118	20.728	49.383
#1	-.00027	-.00108	-.00104	-.00105	.00135	.00122	.00127
#2	.00413	-.00218	-.00140	-.00166	.00459	.00165	.00263
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00023	.00132	.00080	.00079	.00022	.00090	
SDev	.00018	.00098	.00072	.00280	.00016	.00012	
%RSD	80.568	74.655	89.278	355.26	71.726	13.638	
#1	-.00036	.00062	.00030	.00277	.00011	.00098	
#2	-.00010	.00202	.00131	-.00119	.00034	.00081	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17522	--	--	--	--	--	--
SDev	186.4290	--	--	--	--	--	--
%RSD	1.063978	--	--	--	--	--	--
#1	17654	--	--	--	--	--	--
#2	17390	--	--	--	--	--	--

664 1712

Method: METTRA Sample Name: DGKFEC

Operator: RJG

Run Time: 07/24/00 10:53:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1713

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05067	1.9707	1.9810	1.8969	.04801	49.471	.04740
SDev	.00047	.0058	.0078	.0099	.00029	.447	.00046
%RSD	.92955	.29203	.39273	.52223	.61089	.90287	.97674
#1	.05100	1.9747	1.9865	1.9039	.04822	49.787	.04772
#2	.05033	1.9666	1.9755	1.8899	.04780	49.155	.04707
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49180	.19834	.24235	.92213	49.503	.48234	.99664
SDev	.00356	.00122	.00192	.00746	.397	.00432	.00333
%RSD	.72284	.61726	.79209	.80937	.80239	.89632	.33395
#1	.49432	.19920	.24371	.92740	49.784	.48540	.99900
#2	.48929	.19747	.24099	.91685	49.222	.47928	.99429
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47958	.49643	.47671	.48328	.51110	.49523	.50051
SDev	.00273	.00423	.00391	.00402	.00818	.00757	.00777
%RSD	.56999	.85235	.82067	.83151	1.6012	1.5280	1.5529
#1	.48151	.49943	.47948	.48612	.51688	.50058	.50601
#2	.47765	.49344	.47395	.48044	.50531	.48988	.49502
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9667	2.0050	1.9922	1.9533	.49279	.49054	
SDev	.0122	.0218	.0186	.0030	.00326	.00128	
%RSD	.62181	1.0889	.93534	.15309	.66096	.26167	
#1	1.9753	2.0204	2.0054	1.9512	.49509	.49145	
#2	1.9580	1.9896	1.9791	1.9554	.49048	.48964	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

664 1714

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17713	--	--	--	--	--	--
SDev	122.6126	--	--	--	--	--	--
%RSD	.6922357	--	--	--	--	--	--
#1	17626	--	--	--	--	--	--
#2	17799	--	--	--	--	--	--

Method: METTRA Sample Name: DGHAK

Operator: RJG

Run Time: 07/24/00 10:57:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1715**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.21231	.00484	.07735	.00038	25.729	.00040
SDev	.00005	.00157	.00002	.00029	.00004	.166	.00007
%RSD	35.211	.73796	.44468	.37767	9.7551	.64558	16.821
#1	.00010	.21120	.00482	.07756	.00035	25.846	.00035
#2	.00017	.21342	.00485	.07714	.00040	25.612	.00045
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00486	.00417	.00872	3.2604	3.9560	1.6589	.00720
SDev	.00021	.00019	.00016	.0095	.0207	.0085	.00081
%RSD	4.3255	4.4718	1.8239	.29209	.52451	.51196	11.307
#1	.00500	.00431	.00860	3.2671	3.9706	1.6649	.00778
#2	.00471	.00404	.00883	3.2537	3.9413	1.6528	.00663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00627	.00455	.00580	.00538	.00373	.00132	.00212
SDev	.00017	.00015	.00032	.00017	.00013	.00009	.00010
%RSD	2.7518	3.2255	5.5705	3.0956	3.5348	6.5203	4.7713
#1	.00614	.00465	.00557	.00526	.00364	.00126	.00205
#2	.00639	.00444	.00602	.00550	.00383	.00138	.00219
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00146	.00185	.00075	-.00115	.00330	.10533	
SDev	.00082	.00288	.00220	.00149	.00260	.00053	
%RSD	56.597	156.07	294.03	129.04	78.808	.49908	
#1	-.00087	.00389	.00230	-.00010	.00513	.10570	
#2	-.00204	-.00019	-.00081	-.00220	.00146	.10496	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1716

IntStd	1	2	3	4	5	6	7
Mode ..	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17911	--	--	--	--	--	--
SDev	92.06475	--	--	--	--	--	--
%RSD	.5140037	--	--	--	--	--	--
#1	17846	--	--	--	--	--	--
#2	17976	--	--	--	--	--	--

Method: METTRA Sample Name: DGHAL

Operator: RJG

Run Time: 07/24/00 11:01:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1717

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.42646	.00171	.01863	.00012	11.431	.00040
SDev	.00061	.00177	.00040	.00010	.00007	.046	.00004
%RSD	102.15	.41472	23.109	.53808	55.975	.39991	10.124
#1	.00103	.42521	.00199	.01870	.00007	11.464	.00043
#2	.00017	.42771	.00143	.01856	.00017	11.399	.00037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00264	.01458	.02260	2.5534	1.9728	.43711	.00892
SDev	.00010	.00017	.00015	.0064	.0150	.00132	.00038
%RSD	3.9363	1.1898	.67157	.25039	.75932	.30180	4.3200
#1	.00256	.01471	.02271	2.5579	1.9834	.43804	.00919
#2	.00271	.01446	.02250	2.5488	1.9622	.43618	.00865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01471	.00649	.00611	.00624	.00651	.00422	.00498
SDev	.00084	.00184	.00171	.00052	.00108	.00092	.00097
%RSD	5.7145	28.383	27.912	8.4156	16.632	21.836	19.572
#1	.01531	.00779	.00491	.00587	.00728	.00487	.00567
#2	.01412	.00519	.00732	.00661	.00575	.00357	.00429
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00063	.00055	.00057	-.00299	.00133	.19065	
SDev	.00267	.00047	.00121	.00098	.00047	.00044	
%RSD	426.03	86.925	210.49	32.935	35.339	.22926	
#1	.00252	.00088	.00143	-.00368	.00167	.19096	
#2	-.00126	.00021	-.00028	-.00229	.00100	.19034	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1718

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17452	--	--	--	--	--	--
SDev	27.89481	--	--	--	--	--	--
%RSD	.1598403	--	--	--	--	--	--
#1	17432	--	--	--	--	--	--
#2	17471	--	--	--	--	--	--

Method: METTRA Sample Name: DGHAQ

Operator: RJG

Run Time: 07/24/00 11:05:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1719**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	.05619	-.00022	.00365	.00008	4.5888	.00001
SDev	.00011	.00462	.00046	.00019	.00005	.0013	.00010
%RSD	61.215	8.2262	207.10	5.0964	62.845	.02756	944.41
#1	.00011	.05292	-.00055	.00378	.00004	4.5879	-.00006
#2	.00027	.05946	.00010	.00352	.00012	4.5897	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00159	.00671	.24251	.85212	.23046	.00214
SDev	.00000	.00047	.00002	.01357	.00192	.00010	.00046
%RSD	.50994	29.785	.28799	5.5935	.22508	.04267	21.560
#1	.00040	.00193	.00670	.25211	.85348	.23039	.00181
#2	.00041	.00126	.00673	.23292	.85077	.23053	.00246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00393	.00031	.00189	.00136	.00265	.00060	.00129
SDev	.00010	.00179	.00081	.00006	.00272	.00091	.00030
%RSD	2.6216	569.00	42.744	4.2007	102.34	151.38	22.992
#1	.00400	.00158	.00132	.00141	.00073	.00125	.00108
#2	.00386	-.00095	.00246	.00132	.00457	-.00004	.00149
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00080	.00204	.00109	-.00356	.00053	.06369	
SDev	.00226	.00085	.00018	.00378	.00079	.00016	
%RSD	283.39	41.862	16.756	106.18	149.25	.25731	
#1	-.00239	.00264	.00096	-.00624	.00108	.06358	
#2	.00080	.00143	.00122	-.00089	-.00003	.06381	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1720

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17461	--	--	--	--	--	--
SDev	62.43670	--	--	--	--	--	--
%RSD	.3575709	--	--	--	--	--	--
#1	17417	--	--	--	--	--	--
#2	17506	--	--	--	--	--	--

Method: METTRA Sample Name: DGHAR

Operator: RJG

Run Time: 07/24/00 11:09:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1721**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.08760	.00134	.05826	.00008	32.276	.00015
SDev	.00014	.00815	.00128	.00137	.00028	.712	.00005
%RSD	42.035	9.3070	95.325	2.3499	334.75	2.2050	33.566
#1	.00023	.09337	.00044	.05922	-.00011	32.779	.00019
#2	.00042	.08184	.00224	.05729	.00028	31.773	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	.00556	.08711	.40433	8.3550	.16292	.00247
SDev	.00019	.00005	.00205	.00949	.1892	.00347	.00009
%RSD	21.371	.90487	2.3501	2.3478	2.2642	2.1303	3.5722
#1	.00103	.00560	.08856	.41104	8.4888	.16538	.00241
#2	.00076	.00553	.08566	.39761	8.2213	.16047	.00253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00873	.00033	.00142	.00106	.00100	-.00039	.00007
SDev	.00111	.00037	.00186	.00112	.00235	.00016	.00067
%RSD	12.687	112.60	131.28	105.93	234.54	42.241	913.26
#1	.00795	.00059	.00010	.00027	.00266	-.00051	.00055
#2	.00951	.00007	.00274	.00185	-.00066	-.00027	-.00040
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00152	.00075	-.00001	-.00161	.00124	.05221	
SDev	.00496	.00105	.00095	.00219	.00048	.00095	
%RSD	325.61	139.45	13482.	135.83	39.072	1.8233	
#1	-.00503	.00149	-.00068	-.00006	.00158	.05288	
#2	.00199	.00001	.00067	-.00316	.00089	.05154	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1722

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17651	--	--	--	--	--	--
SDev	305.1166	--	--	--	--	--	--
%RSD	1.728647	--	--	--	--	--	--
#1	17435	--	--	--	--	--	--
#2	17866	--	--	--	--	--	--

Method: METTRA Sample Name: DGHCO

Operator: RJG

Run Time: 07/24/00 11:14:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1723**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.28072	.00335	.08010	.00024	23.087	.00011
SDev	.00010	.00185	.00010	.00013	.00005	.000	.00002
%RSD	33.488	.65853	2.8988	.16330	20.864	.00032	16.586

#1	.00022	.28203	.00342	.08000	.00021	23.087	.00012
#2	.00036	.27941	.00328	.08019	.00028	23.087	.00010

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00373	.00460	.01567	1.6749	3.4816	1.3377	.00351
SDev	.00044	.00012	.00032	.0029	.0025	.0001	.00076
%RSD	11.918	2.5496	2.0609	.17549	.07147	.00859	21.632

#1	.00341	.00452	.01589	1.6770	3.4798	1.3378	.00298
#2	.00404	.00468	.01544	1.6728	3.4834	1.3376	.00405

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00457	.00537	.00559	.00552	.00299	.00066	.00143
SDev	.00070	.00164	.00157	.00050	.00001	.00190	.00126
%RSD	15.347	30.528	28.030	9.0451	.16564	288.50	88.080

#1	.00407	.00421	.00670	.00587	.00299	-.00068	.00054
#2	.00506	.00653	.00448	.00516	.00299	.00200	.00233

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00345	.00307	.00320	-.00140	.00069	.04771
SDev	.00098	.00132	.00055	.00273	.00000	.00007
%RSD	28.516	43.041	17.323	195.38	.14780	.14830

#1	.00276	.00401	.00359	.00053	.00070	.04766
#2	.00415	.00214	.00281	-.00333	.00069	.04776

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17856	--	--	--	--	--	--
SDev	43.23848	--	--	--	--	--	--
%RSD	.2421574	--	--	--	--	--	--
#1	17825	--	--	--	--	--	--
#2	17886	--	--	--	--	--	--

664 1724

Method: METTRA Sample Name: DGHC0P5

Operator: RJG

Run Time: 07/24/00 11:18:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1725

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.04509	.00009	.01571	.00022	4.6187	.00018
SDev	.00024	.00417	.00028	.00019	.00004	.0046	.00003
%RSD	98.292	9.2448	311.41	1.2230	19.579	.10041	17.644
#1	.00007	.04215	-.00011	.01557	.00019	4.6220	.00016
#2	.00041	.04804	.00028	.01585	.00025	4.6154	.00020
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00103	.00102	.00315	.32077	.69868	.26653	.00056
SDev	.00017	.00005	.00021	.00212	.00143	.00063	.00002
%RSD	16.763	4.5596	6.7389	.66031	.20516	.23652	2.8850
#1	.00091	.00099	.00300	.32227	.69767	.26698	.00057
#2	.00115	.00105	.00330	.31927	.69970	.26609	.00055
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	.00133	-.00069	-.00002	.00096	.00029	.00051
SDev	.00018	.00239	.00062	.00038	.00143	.00113	.00028
%RSD	14.566	179.88	90.177	2149.8	148.73	390.47	53.888
#1	.00140	-.00036	-.00025	-.00029	.00197	-.00051	.00032
#2	.00113	.00302	-.00113	.00025	-.00005	.00109	.00071
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00111	.00028	.00056	.00123	.00022	.00991	
SDev	.00211	.00238	.00089	.00066	.00030	.00004	
%RSD	190.13	841.26	159.03	53.549	137.74	.42233	
#1	-.00038	.00197	.00119	.00170	.00001	.00994	
#2	.00260	-.00140	-.00007	.00077	.00043	.00988	

664 1726

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17903	--	--	--	--	--	--
SDev	142.4820	--	--	--	--	--	--
%RSD	.7958489	--	--	--	--	--	--
#1	17802	--	--	--	--	--	--
#2	18004	--	--	--	--	--	--

Method: METTRA Sample Name: DGHC0S

Operator: RJG

Run Time: 07/24/00 11:22:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1727

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05311	2.4313	2.0849	2.0755	.05092	75.803	.04903
SDev	.00042	.0043	.0167	.0081	.00022	.485	.00015
%RSD	.80011	.17852	.80156	.38869	.42349	.63971	.29600
#1	.05341	2.4343	2.0967	2.0812	.05107	76.146	.04914
#2	.05281	2.4282	2.0731	2.0698	.05077	75.460	.04893
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51884	.21007	.27402	2.6628	55.895	1.8743	1.0197
SDev	.00358	.00177	.00172	.0223	.371	.0129	.0051
%RSD	.68928	.84379	.62965	.83846	.66389	.68781	.49667
#1	.52137	.21132	.27524	2.6786	56.157	1.8834	1.0233
#2	.51631	.20881	.27280	2.6470	55.633	1.8652	1.0161
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50878	.52382	.50317	.51005	.53274	.51570	.52138
SDev	.00333	.00550	.00472	.00498	.00666	.00681	.00676
%RSD	.65417	1.0507	.93769	.97632	1.2499	1.3213	1.2970
#1	.51113	.52771	.50651	.51357	.53745	.52052	.52616
#2	.50642	.51993	.49984	.50653	.52803	.51089	.51659
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0450	2.1189	2.0943	2.0339	.52516	.55700	
SDev	.0176	.0194	.0188	.0041	.00170	.00358	
%RSD	.86162	.91440	.89724	.20145	.32382	.64298	
#1	2.0574	2.1326	2.1076	2.0368	.52636	.55953	
#2	2.0325	2.1052	2.0810	2.0310	.52396	.55446	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1728

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17634	--	--	--	--	--	--
SDev	150.4729	--	--	--	--	--	--
%RSD	.8532917	--	--	--	--	--	--
#1	17528	--	--	--	--	--	--
#2	17741	--	--	--	--	--	--

Method: METTRA Sample Name: DGHC0D

Operator: RJG

Run Time: 07/24/00 11:26:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1729**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05135	2.3429	2.0181	2.0011	.04946	73.544	.04765
SDev	.00160	.0543	.0323	.0297	.00045	.962	.00068
%RSD	3.1224	2.3167	1.6023	1.4862	.91009	1.3074	1.4160
#1	.05022	2.3045	1.9952	1.9801	.04914	72.864	.04717
#2	.05249	2.3813	2.0410	2.0222	.04978	74.224	.04812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49954	.20229	.26462	2.5855	54.338	1.8033	.99041
SDev	.00662	.00326	.00397	.0369	.726	.0240	.01517
%RSD	1.3242	1.6089	1.4987	1.4253	1.3356	1.3309	1.5314
#1	.49487	.19999	.26182	2.5594	53.825	1.7864	.97969
#2	.50422	.20459	.26743	2.6115	54.852	1.8203	1.0011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49236	.50538	.48652	.49280	.51949	.50121	.50730
SDev	.00689	.00763	.00451	.00555	.00068	.01226	.00840
%RSD	1.3996	1.5094	.92672	1.1257	.13122	2.4460	1.6566
#1	.48749	.49999	.48333	.48888	.51901	.49254	.50135
#2	.49723	.51078	.48971	.49672	.51997	.50988	.51324
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9850	2.0488	2.0276	1.9739	.50638	.53893	
SDev	.0291	.0215	.0241	.0407	.00719	.00829	
%RSD	1.4671	1.0505	1.1863	2.0636	1.4199	1.5374	
#1	1.9644	2.0336	2.0106	1.9451	.50130	.53307	
#2	2.0056	2.0640	2.0446	2.0028	.51146	.54479	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1730

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17848	--	--	--	--	--	--
SDev	167.2653	--	--	--	--	--	--
%RSD	.9371746	--	--	--	--	--	--
#1	17966	--	--	--	--	--	--
#2	17730	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-3

Operator: RJG

Run Time: 07/24/00 11:30:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1731

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0378	24.047	.51601	1.9473	2.0442	51.053	.49408
SDev	.0029	.056	.00020	.0009	.0014	.036	.00171
%RSD	.28135	.23479	.03801	.04796	.06911	.07037	.34682
#1	1.0357	24.007	.51587	1.9466	2.0452	51.078	.49287
#2	1.0398	24.087	.51615	1.9479	2.0432	51.027	.49529
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0212	2.0210	1.9683	25.482	51.333	2.0132	2.0157
SDev	.0061	.0090	.0023	.084	.016	.0050	.0200
%RSD	.29954	.44675	.11784	.33090	.03140	.24817	.99136
#1	2.0169	2.0146	1.9667	25.422	51.322	2.0097	2.0015
#2	2.0255	2.0274	1.9700	25.542	51.344	2.0168	2.0298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9848	.51300	.50236	.50590	.54308	.51294	.52298
SDev	.0015	.00666	.00170	.00335	.00560	.00707	.00658
%RSD	.07427	1.2974	.33793	.66191	1.0312	1.3780	1.2581
#1	1.9859	.50829	.50116	.50353	.53912	.50794	.51833
#2	1.9838	.51771	.50356	.50827	.54704	.51794	.52763
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51385	.53378	.52715	.99835	2.0452	1.9979	
SDev	.00954	.00214	.00460	.00316	.0009	.0057	
%RSD	1.8565	.40097	.87343	.31675	.04243	.28356	
#1	.50711	.53227	.52389	.99611	2.0458	1.9939	
#2	.52060	.53530	.53040	1.0006	2.0446	2.0019	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1732

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17830	--	--	--	--	--	--
SDev	159.3103	--	--	--	--	--	--
%RSD	.8935034	--	--	--	--	--	--
#1	17942	--	--	--	--	--	--
#2	17717	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3

Operator: RJG

Run Time: 07/24/00 11:34:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1733

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.00328	.00115	.00078	.00095	.01981	.00031
SDev	.00027	.00301	.00147	.00022	.00018	.00647	.00012
%RSD	86.819	91.648	128.46	28.647	18.931	32.652	38.887
#1	.00012	-.00541	.00011	.00063	.00083	.01523	.00023
#2	.00050	-.00116	.00219	.00094	.00108	.02438	.00040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00110	.00067	-.00006	.00962	.01824	.00076	.00688
SDev	.00021	.00029	.00026	.00259	.00586	.00024	.00191
%RSD	18.688	43.556	406.41	26.946	32.157	31.370	27.809
#1	.00096	.00046	-.00025	.00778	.01409	.00059	.00823
#2	.00125	.00087	.00012	.01145	.02238	.00093	.00552
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00051	-.00133	-.00032	-.00066	.00099	.00055	.00070
SDev	.00091	.00098	.00213	.00174	.00261	.00148	.00012
%RSD	178.11	73.228	663.03	265.19	263.42	268.80	17.316
#1	-.00116	-.00202	-.00183	-.00189	-.00085	.00160	.00078
#2	.00013	-.00064	.00118	.00058	.00283	-.00050	.00061
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00142	.00069	.00093	.00073	.00118	.00106	
SDev	.00063	.00277	.00205	.00248	.00061	.00030	
%RSD	44.166	402.85	220.57	339.31	51.436	28.194	
#1	.00187	.00264	.00239	.00248	.00075	.00085	
#2	.00098	-.00127	-.00052	-.00102	.00161	.00128	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1734

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18058	--	--	--	--	--	--
SDev	48.15369	--	--	--	--	--	--
%RSD	.2666613	--	--	--	--	--	--
#1	18092	--	--	--	--	--	--
#2	18024	--	--	--	--	--	--

Method: METTRA Sample Name: DG7AWB

Operator: RJG

Run Time: 07/24/00 11:39:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1735**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.00066	.00106	.00016	.00013	.00834	.00018
SDev	.00037	.00054	.00027	.00006	.00002	.00034	.00009
%RSD	150.74	82.012	25.761	38.936	14.886	4.0196	48.577
#1	.00051	-.00104	.00125	.00012	.00011	.00858	.00012
#2	-.00002	-.00028	.00087	.00020	.00014	.00810	.00024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00038	-.00002	.01291	.00436	.00015	.00116
SDev	.00007	.00031	.00007	.01176	.00132	.00000	.00040
%RSD	71.286	82.530	364.05	91.101	30.263	1.0314	34.852
#1	.00014	.00016	-.00007	.00460	.00529	.00015	.00088
#2	.00005	.00060	.00003	.02123	.00342	.00015	.00145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.00015	.00038	.00031	.00208	.00104	.00138
SDev	.00012	.00171	.00052	.00091	.00088	.00012	.00021
%RSD	214.01	1145.3	134.51	298.88	42.413	11.953	15.271
#1	-.00003	.00136	.00075	.00095	.00270	.00095	.00153
#2	.00014	-.00106	.00002	-.00034	.00146	.00112	.00123
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00047	.00164	.00125	-.00120	.00033	.00111	
SDev	.00111	.00171	.00151	.00229	.00061	.00005	
%RSD	235.08	104.21	120.73	190.11	183.77	4.0704	
#1	-.00031	.00043	.00018	-.00282	.00076	.00114	
#2	.00126	.00284	.00232	.00041	-.00010	.00108	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1736

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17757	--	--	--	--	--	--
SDev	60.45763	--	--	--	--	--	--
%RSD	.3404682	--	--	--	--	--	--
#1	17714	--	--	--	--	--	--
#2	17800	--	--	--	--	--	--

Method: METTRA Sample Name: DG7AWC

Operator: RJG

Run Time: 07/24/00 11:43:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1737

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05013	1.9752	1.9745	1.8896	.04896	50.137	.04750
SDev	.00018	.0119	.0118	.0149	.00047	.496	.00041
%RSD	.36051	.60338	.59537	.78687	.94978	.98859	.86645
#1	.05001	1.9837	1.9828	1.9001	.04929	50.487	.04779
#2	.05026	1.9668	1.9662	1.8791	.04863	49.786	.04721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49160	.19684	.24269	.91641	50.081	.48524	L.00067
SDev	.00172	.00132	.00190	.00371	.449	.00353	.00016
%RSD	.34902	.66864	.78260	.40441	.89720	.72794	24.005
#1	.49282	.19777	.24403	.91903	50.399	.48774	L.00078
#2	.49039	.19591	.24135	.91379	49.764	.48274	L.00055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48895	.49439	.48112	.48554	.00067	.00038	L.00048
SDev	.00283	.00374	.00502	.00460	.00072	.00185	.00147
%RSD	.57889	.75706	1.0440	.94672	106.71	487.13	308.49
#1	.49095	.49703	.48467	.48879	.00016	-.00093	L-.00056
#2	.48695	.49174	.47757	.48229	.00118	.00168	L.00152
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9653	2.0384	2.0141	1.9343	.50038	.49006	
SDev	.0078	.0199	.0159	.0041	.00367	.00366	
%RSD	.39829	.97669	.78874	.21394	.73433	.74691	
#1	1.9708	2.0525	2.0253	1.9373	.50298	.49265	
#2	1.9598	2.0243	2.0028	1.9314	.49778	.48747	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

C64 1738

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17944	--	--	--	--	--	--
SDev	50.13415	--	--	--	--	--	--
%RSD	.2793954	--	--	--	--	--	--
#1	17908	--	--	--	--	--	--
#2	17979	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8

Operator: RJG

Run Time: 07/24/00 11:47:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1739

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.12077	.00114	.03599	.00012	96.350	.00017
SDev	.00037	.00275	.00028	.00007	.00002	.920	.00011
%RSD	3138.8	2.2801	24.435	.20023	16.730	.95512	62.247
#1	-.00027	.12272	.00095	.03604	.00011	97.001	.00009
#2	.00025	.11882	.00134	.03594	.00014	95.699	.00024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.00140	.00358	.05167	35.170	.00589	.00097
SDev	.00017	.00051	.00012	.00514	.288	.00002	.00056
%RSD	36.973	36.436	3.2138	9.9498	.81988	.35896	57.968
#1	.00059	.00104	.00366	.04803	35.374	.00588	.00057
#2	.00034	.00176	.00350	.05530	34.966	.00591	.00136
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	-.00336	.00093	-.00050	.00454	-.00060	.00111
SDev	.00033	.00131	.00104	.00026	.00054	.00245	.00181
%RSD	87.629	38.915	112.13	51.796	11.971	410.98	162.70
#1	.00014	-.00428	.00166	-.00032	.00416	-.00233	-.00017
#2	.00062	-.00243	.00019	-.00068	.00492	.00114	.00240
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00146	.00271	.00230	.00249	.00239	.00650	
SDev	.00176	.00060	.00018	.00133	.00015	.00006	
%RSD	120.26	22.221	7.9832	53.161	6.2290	.89396	
#1	.00022	.00314	.00217	.00343	.00229	.00646	
#2	.00271	.00229	.00243	.00156	.00250	.00654	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1740

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17843	--	--	--	--	--	--
SDev	41.82564	--	--	--	--	--	--
%RSD	.2344096	--	--	--	--	--	--
#1	17813	--	--	--	--	--	--
#2	17873	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8P5

Operator: RJG

Run Time: 07/24/00 11:51:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1741**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	.02436	.00148	.00723	.00023	18.882	.00011
SDev	.00005	.00296	.00127	.00013	.00003	.076	.00002
%RSD	9.6301	12.169	85.552	1.7263	10.812	.40224	16.140

#1	.00052	.02226	.00238	.00714	.00025	18.936	.00010
#2	.00060	.02645	.00058	.00731	.00022	18.829	.00012

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00070	.00019	-.00268	6.8657	.00129	.00032
SDev	.00005	.00015	.00035	.00370	.0239	.00000	.00021
%RSD	24.182	20.834	190.75	137.71	.34798	.28736	64.219

#1	.00018	.00081	.00044	-.00007	6.8826	.00129	.00047
#2	.00026	.00060	-.00006	-.00530	6.8488	.00128	.00018

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00036	.00068	-.00101	-.00045	-.00036	.00181	.00108
SDev	.00033	.00239	.00006	.00075	.00232	.00078	.00025
%RSD	92.155	351.42	5.9872	169.63	636.90	43.018	23.380

#1	.00060	.00237	-.00105	.00009	-.00200	.00235	.00090
#2	.00013	-.00101	-.00096	-.00098	.00127	.00126	.00126

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00412	-.00222	-.00011	-.00009	.00149	.00199
SDev	.00133	.00228	.00108	.00070	.00076	.00000
%RSD	32.263	102.57	962.77	764.04	50.703	.14558

#1	.00505	-.00383	-.00087	-.00059	.00203	.00199
#2	.00318	-.00061	.00065	.00040	.00096	.00199

664 1742

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18108	--	--	--	--	--	--
SDev	42.03833	--	--	--	--	--	--
%RSD	.2321524	--	--	--	--	--	--
#1	18078	--	--	--	--	--	--
#2	18138	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8S

Operator: RJG

Run Time: 07/24/00 11:55:42

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1743

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05125	2.1374	1.9856	1.9592	.04920	147.91	.04688
SDev	.00027	.0014	.0040	.0085	.00044	.99	.00015
%RSD	.51864	.06559	.20182	.43554	.88408	.67118	.31799
#1	.05106	2.1384	1.9884	1.9652	.04951	148.61	.04699
#2	.05144	2.1364	1.9827	1.9532	.04889	147.21	.04678
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48449	.19727	.24971	1.0077	86.427	.49276	.00042
SDev	.00022	.00004	.00049	.0107	.468	.00105	.00040
%RSD	.04605	.01832	.19752	1.0663	.54154	.21359	96.524
#1	.48433	.19725	.25006	1.0153	86.757	.49350	.00070
#2	.48464	.19730	.24937	1.0001	86.096	.49201	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48248	.49362	.47514	.48130	.00015	.00204	.00141
SDev	.00359	.00099	.00104	.00102	.00021	.00192	.00121
%RSD	.74471	.20106	.21852	.21256	139.07	94.129	85.868
#1	.48502	.49292	.47441	.48057	.00000	.00339	.00226
#2	.47994	.49432	.47588	.48202	.00030	.00068	.00055
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9616	2.0361	2.0113	1.9455	.50641	.49585
SDev	.0090	.0020	.0017	.0025	.00587	.00076
%RSD	.46054	.09631	.08455	.13035	1.1590	.15269
#1	1.9552	2.0374	2.0101	1.9473	.51056	.49639
#2	1.9680	2.0347	2.0125	1.9437	.50226	.49532
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

664 1744

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17875	--	--	--	--	--	--
SDev	78.02895	--	--	--	--	--	--
%RSD	.4365213	--	--	--	--	--	--
#1	17930	--	--	--	--	--	--
#2	17820	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8D

Operator: RJG

Run Time: 07/24/00 11:59:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1745**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05120	2.1371	2.0029	1.9637	.04955	146.52	.04760
SDev	.00022	.0002	.0055	.0074	.00034	1.13	.00022
%RSD	.42493	.00766	.27706	.37590	.69074	.77170	.46078
#1	.05135	2.1370	2.0069	1.9689	.04980	147.32	.04775
#2	.05104	2.1372	1.9990	1.9585	.04931	145.72	.04744
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49100	.19982	.25121	.99276	85.651	.49775	.00017
SDev	.00068	.00017	.00122	.00845	.588	.00216	.00056
%RSD	.13929	.08381	.48530	.85102	.68693	.43338	326.61
#1	.49148	.19994	.25208	.99874	86.067	.49927	-.00023
#2	.49051	.19970	.25035	.98679	85.235	.49622	.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48503	.49971	.48254	.48826	.00276	.00062	.00133
SDev	.00363	.00233	.00202	.00212	.00144	.00055	.00084
%RSD	.74842	.46557	.41856	.43458	52.078	88.541	63.393
#1	.48759	.50136	.48397	.48976	.00377	.00101	.00193
#2	.48246	.49807	.48111	.48676	.00174	.00023	.00073
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9840	2.0610	2.0354	1.9534	.50990	.50018	
SDev	.0010	.0266	.0174	.0002	.00154	.00212	
%RSD	.04804	1.2923	.85726	.00791	.30224	.42400	
#1	1.9833	2.0798	2.0477	1.9533	.51099	.50168	
#2	1.9847	2.0422	2.0230	1.9535	.50881	.49868	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1746

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17776	--	--	--	--	--	--
SDev	80.39749	--	--	--	--	--	--
%RSD	.4522875	--	--	--	--	--	--
#1	17719	--	--	--	--	--	--
#2	17833	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJJ

Operator: RJG

Run Time: 07/24/00 12:04:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1747**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.10796	.01049	.05074	.00013	120.80	.00010
SDev	.00050	.00351	.00009	.00038	.00011	1.33	.00004
%RSD	193.92	3.2533	.84329	.73828	87.693	1.0984	41.637
#1	-.00010	.10547	.01055	.05101	.00005	121.74	.00007
#2	.00061	.11044	.01043	.05048	.00021	119.86	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	.00129	.00193	.11008	17.695	.03939	.00708
SDev	.00026	.00013	.00047	.01236	.181	.00021	.00018
%RSD	53.363	9.7795	24.648	11.229	1.0251	.53471	2.5960
#1	.00066	.00120	.00226	.10134	17.823	.03954	.00695
#2	.00030	.00138	.00159	.11881	17.566	.03924	.00721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00166	.00049	-.00015	.00006	.00356	-.00033	.00096
SDev	.00023	.00048	.00028	.00003	.00360	.00075	.00070
%RSD	13.986	96.808	186.95	48.407	101.08	225.72	72.553
#1	.00182	.00083	-.00035	.00004	.00610	-.00086	.00146
#2	.00149	.00016	.00005	.00008	.00101	.00020	.00047
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00009	.00147	.00095	.00135	.00112	.01390	
SDev	.00295	.00206	.00039	.00189	.00045	.00001	
%RSD	3346.1	139.65	40.881	139.62	40.617	.08316	
#1	-.00218	.00293	.00123	.00269	.00080	.01389	
#2	.00200	.00002	.00068	.00002	.00144	.01390	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17851	--	--	--	--	--	--
SDev	153.5126	--	--	--	--	--	--
%RSD	.8599568	--	--	--	--	--	--
#1	17743	--	--	--	--	--	--
#2	17960	--	--	--	--	--	--

664 1748

Method: METTRA Sample Name: DFTJ8F

Operator: RJG

Run Time: 07/24/00 12:08:11

664 1749

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.01390	.00045	.03622	.00008	98.081	.00019
SDev	.00029	.00373	.00145	.00009	.00007	.402	.00016
%RSD	52.677	26.849	321.59	.26070	83.219	.41008	82.755
#1	.00077	.01126	.00148	.03629	.00013	98.366	.00031
#2	.00035	.01654	-.00057	.03616	.00003	97.797	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.00118	.00300	-.06204	35.735	.00061	.00082
SDev	.00026	.00067	.00070	.01618	.129	.00006	.00005
%RSD	100.65	56.362	23.246	26.073	.36186	9.6927	6.1907
#1	.00044	.00166	.00349	-.07348	35.827	.00065	.00085
#2	.00007	.00071	.00250	-.05061	35.644	.00057	.00078
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00130	-.00024	-.00045	-.00038	.00103	.00196	.00165
SDev	.00021	.00292	.00094	.00034	.00305	.00074	.00052
%RSD	16.121	1240.6	207.54	90.591	294.49	37.583	31.689
#1	.00145	.00183	-.00112	-.00014	-.00112	.00248	.00128
#2	.00115	-.00230	.00021	-.00062	.00319	.00144	.00202
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00151	.00107	.00122	.00181	.00235	.00596	
SDev	.00459	.00218	.00008	.00016	.00045	.00000	
%RSD	304.39	203.56	6.3117	8.9974	19.177	.01817	
#1	.00475	-.00047	.00127	.00170	.00267	.00596	
#2	-.00174	.00261	.00116	.00193	.00203	.00596	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1750

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17873	--	--	--	--	--	--
SDev	5.761815	--	--	--	--	--	--
%RSD	.0322384	--	--	--	--	--	--
#1	17877	--	--	--	--	--	--
#2	17868	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8P5F

Operator: RJG

Run Time: 07/24/00 12:12:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1751

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00030	.00794	.00103	.00708	.00026	19.221	-.00001
SDev	.00019	.00007	.00027	.00002	.00004	.192	.00000
%RSD	61.727	.87991	26.457	.25078	14.675	1.0007	41.961

#1	-.00044	.00799	.00122	.00710	.00023	19.357	-.00001
#2	-.00017	.00789	.00084	.00707	.00028	19.085	-.00001

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.00001	-.00035	-.01402	6.9689	.00008	-.00026
SDev	.00029	.00011	.00021	.00209	.0612	.00008	.00009
%RSD	282.09	857.96	59.988	14.926	.87880	97.838	35.404

#1	-.00010	.00009	-.00020	-.01254	7.0122	.00002	-.00033
#2	.00031	-.00006	-.00049	-.01550	6.9256	.00014	-.00020

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.00057	-.00174	-.00097	.00056	.00100	.00085
SDev	.00046	.00195	.00078	.00013	.00430	.00196	.00012
%RSD	559.91	338.62	44.660	13.498	770.88	195.85	14.484

#1	.00024	-.00080	-.00119	-.00106	.00360	-.00039	.00094
#2	-.00040	.00195	-.00229	-.00087	-.00248	.00239	.00077

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00299	-.00021	.00086	-.00142	.00074	.00170
SDev	.00107	.00199	.00097	.00493	.00029	.00012
%RSD	35.713	953.87	113.07	346.38	39.832	7.0924

#1	.00375	-.00161	.00017	.00206	.00053	.00161
#2	.00224	.00120	.00154	-.00491	.00094	.00178

664 1752

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18248	--	--	--	--	--	--
SDev	122.9661	--	--	--	--	--	--
%RSD	.6738776	--	--	--	--	--	--
#1	18161	--	--	--	--	--	--
#2	18334	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8SF

Operator: RJG

Run Time: 07/24/00 12:16:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1753

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05088	2.0305	1.9862	1.9504	.04945	148.64	.04721
SDev	.00022	.0055	.0104	.0096	.00028	1.20	.00033
%RSD	.42845	.26847	.52539	.49430	.56439	.80553	.69897
#1	.05103	2.0343	1.9936	1.9572	.04965	149.48	.04744
#2	.05072	2.0266	1.9788	1.9436	.04925	147.79	.04698
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48608	.19702	.24828	.92530	86.144	.48947	.00026
SDev	.00302	.00153	.00182	.00201	.668	.00291	.00063
%RSD	.62165	.77520	.73359	.21695	.77572	.59512	238.57
#1	.48821	.19810	.24957	.92388	86.616	.49153	.00070
#2	.48394	.19594	.24700	.92672	85.671	.48741	-.00018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48111	.49294	.47582	.48152	.00029	.00179	.00129
SDev	.00557	.00330	.00760	.00617	.00114	.00155	.00066
%RSD	1.1572	.66923	1.5975	1.2811	396.53	86.742	50.861
#1	.48505	.49527	.48120	.48588	-.00052	.00289	.00176
#2	.47717	.49060	.47045	.47716	.00110	.00069	.00083
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9575	2.0321	2.0073	1.9299	.50507	.49842	
SDev	.0135	.0410	.0318	.0062	.00467	.00261	
%RSD	.69138	2.0153	1.5854	.31890	.92375	.52341	
#1	1.9671	2.0611	2.0298	1.9342	.50837	.50026	
#2	1.9479	2.0032	1.9848	1.9255	.50178	.49657	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1754

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18014	--	--	--	--	--	--
SDev	128.7998	--	--	--	--	--	--
%RSD	.7149952	--	--	--	--	--	--
#1	17923	--	--	--	--	--	--
#2	18105	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-4

Operator: RJG

Run Time: 07/24/00 12:20:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0306	23.875	.51177	1.9361	2.0608	51.304	.49307
SDev	.0048	.176	.00504	.0099	.0037	.113	.00272
%RSD	.47004	.73842	.98412	.50913	.17739	.22054	.55216
#1	1.0272	23.750	.50821	1.9291	2.0582	51.224	.49114
#2	1.0340	24.000	.51533	1.9430	2.0634	51.384	.49499
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0083	2.0110	1.9587	25.680	51.806	2.0177	1.9972
SDev	.0116	.0133	.0103	.192	.141	.0089	.0230
%RSD	.57544	.65981	.52329	.74792	.27304	.44216	1.1529
#1	2.0001	2.0016	1.9515	25.544	51.706	2.0114	1.9809
#2	2.0164	2.0204	1.9660	25.816	51.906	2.0240	2.0135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9750	.51398	.49542	.50160	.53840	.51133	.52035
SDev	.0036	.00065	.00304	.00181	.00309	.00227	.00254
%RSD	.18070	.12647	.61445	.36163	.57310	.44435	.48871
#1	1.9725	.51444	.49327	.50032	.53621	.50973	.51855
#2	1.9775	.51352	.49757	.50288	.54058	.51294	.52214
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51194	.53041	.52426	.99150	2.0474	1.9830	
SDev	.00318	.00473	.00421	.00867	.0056	.0105	
%RSD	.62051	.89151	.80339	.87436	.27241	.52838	
#1	.50970	.52706	.52128	.98537	2.0434	1.9756	
#2	.51419	.53375	.52724	.99763	2.0513	1.9904	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1756

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18123	--	--	--	--	--	--
SDev	85.06412	--	--	--	--	--	--
%RSD	.4693594	--	--	--	--	--	--
#1	18184	--	--	--	--	--	--
#2	18063	--	--	--	--	--	--

Method: METTRA Sample Name: CCB4

Operator: RJG

Run Time: 07/24/00 12:24:50

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 064 1757

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.01519	.00118	.00080	.00075	.03182	.00033
SDev	.00057	.00069	.00000	.00018	.00013	.01443	.00002
%RSD	155.30	4.5149	.15755	22.668	17.574	45.352	6.1425
#1	-.00004	.01471	.00117	.00067	.00065	.02161	.00034
#2	.00077	.01568	.00118	.00093	.00084	.04202	.00032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	.00079	-.00047	.00859	.02393	.00062	.00665
SDev	.00053	.00022	.00066	.00552	.01231	.00026	.00214
%RSD	70.473	27.620	142.42	64.222	51.422	42.036	32.261
#1	.00113	.00064	-.00093	.01249	.01523	.00044	.00816
#2	.00038	.00095	.00000	.00469	.03263	.00080	.00513
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00051	.00001	.00018	.00163	.00118	.00133
SDev	.00009	.00109	.00054	.00000	.00594	.00090	.00138
%RSD	68.670	213.00	4413.5	2.4879	364.22	75.897	103.71
#1	.00006	-.00026	.00039	.00018	.00583	.00055	.00231
#2	.00019	.00128	-.00037	.00018	-.00257	.00181	.00035
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00558	.00048	.00218	.00244	.00043	.00448	
SDev	.00202	.00186	.00191	.00197	.00015	.00032	
%RSD	36.282	387.49	87.899	80.618	34.639	7.1252	
#1	.00415	-.00083	.00082	.00105	.00033	.00425	
#2	.00701	.00179	.00353	.00383	.00054	.00470	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1758

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18163	--	--	--	--	--	--
SDev	71.27554	--	--	--	--	--	--
%RSD	.3924173	--	--	--	--	--	--
#1	18214	--	--	--	--	--	--
#2	18113	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJ8DF Operator: RJG
 Run Time: 07/24/00 12:28:59
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1759**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05077	2.0194	1.9725	1.9363	.04932	146.35	.04670
SDev	.00002	.0005	.0018	.0019	.00019	.55	.00020
%RSD	.04701	.02292	.09145	.09927	.39488	.37635	.43234
#1	.05079	2.0191	1.9738	1.9377	.04946	146.74	.04656
#2	.05076	2.0197	1.9712	1.9350	.04918	145.96	.04685
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48312	.19633	.24652	.89695	85.600	.48685	.00181
SDev	.00180	.00037	.00082	.01180	.225	.00032	.00015
%RSD	.37362	.18905	.33486	1.3157	.26318	.06471	8.5920
#1	.48185	.19606	.24710	.88860	85.759	.48708	.00192
#2	.48440	.19659	.24593	.90529	85.441	.48663	.00170
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47623	.49578	.47470	.48172	-.00062	.00230	.00133
SDev	.00085	.00058	.00583	.00408	.00121	.00403	.00309
%RSD	.17892	.11788	1.2279	.84749	194.29	174.88	232.54
#1	.47683	.49620	.47882	.48460	.00023	.00515	.00352
#2	.47562	.49537	.47057	.47883	-.00148	-.00055	-.00086
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9612	2.0256	2.0041	1.9267	.50381	.49521	
SDev	.0001	.0219	.0146	.0042	.00022	.00080	
%RSD	.00582	1.0802	.73010	.21907	.04347	.16196	
#1	1.9612	2.0410	2.0145	1.9237	.50396	.49577	
#2	1.9611	2.0101	1.9938	1.9297	.50365	.49464	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1760

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18028	--	--	--	--	--	--
SDev	13.40050	--	--	--	--	--	--
%RSD	.0743323	--	--	--	--	--	--
#1	18018	--	--	--	--	--	--
#2	18037	--	--	--	--	--	--

Method: METTRA Sample Name: DFTJJF

Operator: RJG

Run Time: 07/24/00 12:33:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1761

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.01569	.00845	.04759	.00020	117.33	.00014
SDev	.00032	.00333	.00053	.00046	.00013	.30	.00013
%RSD	160.24	21.214	6.2827	.95716	66.422	.25726	93.340
#1	-.00003	.01805	.00807	.04727	.00029	117.12	.00024
#2	.00042	.01334	.00883	.04791	.00011	117.55	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00079	.00190	-.02485	17.405	.00261	.00770
SDev	.00043	.00024	.00044	.00291	.068	.00007	.00009
%RSD	179.44	30.691	23.480	11.707	.39038	2.5480	1.2172
#1	-.00006	.00062	.00158	-.02279	17.357	.00256	.00776
#2	.00054	.00096	.00221	-.02691	17.453	.00265	.00763
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	-.00276	.00103	-.00023	.00297	.00124	.00182
SDev	.00047	.00236	.00239	.00081	.00651	.00004	.00214
%RSD	67.121	85.538	231.93	346.96	218.95	3.4434	117.68
#1	.00037	-.00443	.00272	.00034	.00758	.00121	.00333
#2	.00103	-.00109	-.00066	-.00080	-.00163	.00127	.00031
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00181	.00176	.00057	.00159	.00010	.00836	
SDev	.00071	.00359	.00216	.00076	.00000	.00021	
%RSD	38.977	203.69	377.20	47.565	1.0072	2.4678	
#1	-.00231	.00430	.00210	.00105	.00010	.00821	
#2	-.00131	-.00078	-.00096	.00212	.00010	.00850	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1762

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17932	--	--	--	--	--	--
SDev	117.4861	--	--	--	--	--	--
%RSD	.6551709	--	--	--	--	--	--
#1	18015	--	--	--	--	--	--
#2	17849	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5

Operator: RJG

Run Time: 07/24/00 12:37:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1763

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0280	23.753	.50674	1.9231	2.0489	50.996	.48892
SDev	.0037	.042	.00014	.0058	.0128	.283	.00135
%RSD	.36207	.17798	.02660	.30257	.62542	.55464	.27584
#1	1.0307	23.783	.50684	1.9272	2.0580	51.196	.48988
#2	1.0254	23.723	.50665	1.9190	2.0399	50.796	.48797
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9983	2.0019	1.9486	25.636	51.627	2.0094	1.9888
SDev	.0029	.0047	.0064	.021	.265	.0078	.0107
%RSD	.14353	.23320	.32918	.08322	.51315	.38707	.53674
#1	2.0003	2.0052	1.9531	25.621	51.814	2.0149	1.9813
#2	1.9963	1.9986	1.9441	25.651	51.440	2.0039	1.9964
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9540	.51336	.49293	.49973	.53951	.51019	.51995
SDev	.0111	.00208	.00567	.00447	.00954	.00015	.00328
%RSD	.56588	.40526	1.1502	.89534	1.7692	.02970	.63074
#1	1.9618	.51484	.49694	.50290	.54626	.51030	.52227
#2	1.9462	.51189	.48892	.49657	.53276	.51008	.51763
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51269	.52592	.52151	.98360	2.0334	1.9659	
SDev	.00158	.00555	.00318	.00303	.0124	.0046	
%RSD	.30902	1.0559	.60907	.30847	.60829	.23325	
#1	.51157	.52985	.52376	.98145	2.0421	1.9691	
#2	.51381	.52199	.51927	.98574	2.0246	1.9626	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18157	--	--	--	--	--	--
SDev	6.080842	--	--	--	--	--	--
%RSD	.0334911	--	--	--	--	--	--
#1	18152	--	--	--	--	--	--
#2	18161	--	--	--	--	--	--

664 1764

Method: METTRA Sample Name: CCB5

Operator: RJG

Run Time: 07/24/00 12:41:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1765

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.01991	.00054	.00078	.00074	.04266	.00013
SDev	.00057	.00925	.00119	.00020	.00020	.02110	.00009
%RSD	66.091	46.449	221.70	25.872	26.852	49.468	69.619
#1	.00126	.01337	-.00030	.00064	.00060	.02773	.00007
#2	.00046	.02644	.00138	.00092	.00088	.05758	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00121	.00074	-.00090	.00908	.02261	.00066	.00658
SDev	.00032	.00043	.00029	.00551	.00662	.00014	.00192
%RSD	26.667	58.307	32.668	60.674	29.272	20.978	29.111
#1	.00098	.00043	-.00111	.00519	.01793	.00057	.00794
#2	.00144	.00104	-.00069	.01298	.02729	.00076	.00523
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.00045	-.00017	.00004	.00166	.00177	.00173
SDev	.00094	.00116	.00024	.00023	.00268	.00060	.00049
%RSD	153.66	258.74	143.51	605.07	161.09	34.026	28.396
#1	-.00005	.00127	-.00034	.00020	.00356	.00134	.00208
#2	.00128	-.00037	.00000	-.00012	-.00023	.00219	.00138
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00094	-.00095	-.00032	.00395	.00053	.00136	
SDev	.00289	.00124	.00179	.00014	.00030	.00014	
%RSD	309.04	130.75	557.34	3.4454	56.166	10.532	
#1	-.00111	-.00183	-.00159	.00386	.00032	.00126	
#2	.00298	-.00007	.00094	.00405	.00075	.00146	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1766

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18242	--	--	--	--	--	--
SDev	1.874109	--	--	--	--	--	--
%RSD	.0102735	--	--	--	--	--	--
#1	18241	--	--	--	--	--	--
#2	18243	--	--	--	--	--	--

Method: METTRA Sample Name: DGHFNB

Operator: RJG

Run Time: 07/24/00 12:45:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1767

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.01535	.00180	.00012	.00019	.01347	.00006
SDev	.00044	.00049	.00041	.00006	.00003	.00038	.00003
%RSD	213.65	3.1625	22.762	48.283	16.973	2.8367	46.265
#1	-.00010	.01569	.00151	.00008	.00021	.01374	.00008
#2	.00051	.01501	.00209	.00016	.00016	.01320	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	-.00004	-.00077	.00731	.00191	.00010	.00198
SDev	.00000	.00035	.00039	.00598	.00215	.00004	.00001
%RSD	.38911	800.01	50.854	81.748	113.11	35.401	.30159
#1	.00030	-.00029	-.00104	.01154	.00038	.00008	.00198
#2	.00030	.00021	-.00049	.00308	.00343	.00013	.00199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00087	.00006	-.00066	-.00042	.00075	-.00059	-.00015
SDev	.00075	.00145	.00053	.00083	.00150	.00024	.00066
%RSD	86.103	2385.9	79.478	197.13	200.38	40.085	448.97
#1	-.00034	.00108	-.00029	.00017	-.00031	-.00076	-.00061
#2	-.00140	-.00096	-.00104	-.00101	.00181	-.00042	.00032
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00199	-.00145	-.00163	.00003	.00011	.00097	
SDev	.00316	.00059	.00066	.00407	.00000	.00003	
%RSD	158.88	40.937	40.269	13797.	1.8616	2.6535	
#1	-.00423	-.00103	-.00210	-.00285	.00011	.00096	
#2	.00025	-.00187	-.00117	.00291	.00011	.00099	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1768

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18054	--	--	--	--	--	--
SDev	31.25495	--	--	--	--	--	--
%RSD	.1731149	--	--	--	--	--	--
#1	18077	--	--	--	--	--	--
#2	18032	--	--	--	--	--	--

Method: METTRA Sample Name: DGHFNC

Operator: RJG

Run Time: 07/24/00 12:49:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1769

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05106	1.8414	2.0174	1.9068	.05078	L.01126	.05017
SDev	.00131	.0168	.0183	.0183	.00064	.00252	.00067
%RSD	2.5653	.91396	.90501	.95991	1.2564	22.373	1.3263
#1	.05199	1.8533	2.0303	1.9198	.05124	L.01304	.05064
#2	.05014	1.8295	2.0045	1.8939	.05033	L.00948	.04970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52428	.20597	.24442	1.0568	L.01034	.50808	L.00095
SDev	.00419	.00223	.00227	.0032	.00631	.00418	.00067
%RSD	.79992	1.0809	.92953	.30457	61.024	.82317	70.406
#1	.52725	.20754	.24602	1.0545	L.01480	.51104	L.00143
#2	.52132	.20439	.24281	1.0590	L.00588	.50512	L.00048
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51201	.51990	.49837	.50554	-.00265	.00244	L.00075
SDev	.00742	.00638	.00139	.00305	.00428	.00374	.00107
%RSD	1.4489	1.2263	.27864	.60319	161.30	153.21	143.63
#1	.51726	.52441	.49935	.50770	-.00567	.00509	L.00150
#2	.50677	.51539	.49739	.50338	.00037	-.00020	L-.00001
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9961	2.0461	2.0295	1.9593	.51165	.50146	
SDev	.0180	.0027	.0078	.0072	.00465	.00384	
%RSD	.90301	.12955	.38288	.36839	.90951	.76634	
#1	2.0089	2.0480	2.0350	1.9644	.51494	.50418	
#2	1.9834	2.0442	2.0240	1.9542	.50836	.49874	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

664 1770

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17953	--	--	--	--	--	--
SDev	46.28097	--	--	--	--	--	--
%RSD	.2577885	--	--	--	--	--	--
#1	17920	--	--	--	--	--	--
#2	17986	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QG

Operator: RJG

Run Time: 07/24/00 12:53:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1771

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.06553	.00173	.03906	.00001	14.185	.00004
SDev	.00001	.00090	.00004	.00027	.00003	.129	.00007
%RSD	41.925	1.3709	2.3308	.68949	272.76	.90988	168.96
#1	.00002	.06617	.00175	.03925	-.00001	14.276	-.00001
#2	.00004	.06490	.00170	.03887	.00004	14.093	.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.00059	.00030	13.022	3.2133	.09739	.00005
SDev	.00003	.00017	.00002	.007	.0252	.00072	.00030
%RSD	31.079	29.255	6.8024	.05697	.78373	.74091	623.98
#1	.00013	.00046	.00031	13.027	3.2311	.09790	-.00017
#2	.00008	.00071	.00028	13.017	3.1955	.09688	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00228	-.00139	-.00017	.00045	.00067	.00060
SDev	.00112	.00113	.00104	.00107	.00282	.00065	.00051
%RSD	216.45	49.812	74.995	631.36	622.29	96.435	84.927
#1	-.00028	.00308	-.00065	.00059	.00245	.00021	.00096
#2	.00131	.00147	-.00213	-.00093	-.00154	.00113	.00024
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00227	.00150	.00176	-.00153	-.00071	.01518	
SDev	.00118	.00222	.00187	.00040	.00029	.00009	
%RSD	51.737	148.27	106.68	26.238	41.010	.61186	
#1	.00310	.00307	.00308	-.00181	-.00050	.01524	
#2	.00144	-.00007	.00043	-.00125	-.00091	.01511	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1772

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17945	--	--	--	--	--	--
SDev	52.18365	--	--	--	--	--	--
%RSD	.2908001	--	--	--	--	--	--
#1	17908	--	--	--	--	--	--
#2	17982	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QGP5 Operator: RJG
 Run Time: 07/24/00 12:58:07
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1773**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	.04034	.00076	.00769	.00033	2.7695	.00001
SDev	.00059	.00778	.00100	.00014	.00012	.0170	.00010
%RSD	427.63	19.280	130.53	1.8049	34.683	.61318	878.44
#1	-.00055	.04583	.00006	.00759	.00025	2.7815	-.00006
#2	.00028	.03484	.00147	.00779	.00041	2.7575	.00008
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00087	.00014	-.00142	2.5426	.62902	.01915	.00014
SDev	.00055	.00035	.00010	.0094	.00215	.00011	.00068
%RSD	63.149	259.98	7.3769	.36975	.34218	.56300	497.62
#1	.00048	-.00011	-.00149	2.5492	.63054	.01922	-.00035
#2	.00126	.00038	-.00135	2.5359	.62750	.01907	.00062
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	-.00102	-.00003	-.00036	.00423	.00061	.00181
SDev	.00028	.00138	.00107	.00025	.00081	.00221	.00121
%RSD	146.08	136.14	3269.1	69.828	19.183	365.04	66.520
#1	-.00001	-.00199	.00072	-.00018	.00366	.00217	.00267
#2	.00039	-.00004	-.00079	-.00054	.00481	-.00096	.00096
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00210	-.00016	.00059	.00060	.00100	.00352	
SDev	.00316	.00039	.00079	.00072	.00000	.00001	
%RSD	150.14	242.95	133.54	118.82	.32914	.19948	
#1	-.00013	.00011	.00003	.00111	.00100	.00353	
#2	.00434	-.00043	.00116	.00010	.00099	.00352	

664 1774

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18550	--	--	--	--	--	--
SDev	113.7033	--	--	--	--	--	--
%RSD	.6129592	--	--	--	--	--	--
#1	18470	--	--	--	--	--	--
#2	18630	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QGS

Operator: RJG

Run Time: 07/24/00 13:02:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1775**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05001	1.9855	2.0282	1.9578	.05134	14.395	.04908
SDev	.00024	.0158	.0102	.0107	.00030	.098	.00036
%RSD	.48431	.79745	.50322	.54452	.58122	.68245	.73394
#1	.05018	1.9966	2.0354	1.9653	.05155	14.465	.04933
#2	.04984	1.9743	2.0210	1.9502	.05113	14.326	.04883
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51576	.20251	.25064	14.240	3.2647	.60322	.00005
SDev	.00130	.00091	.00097	.081	.0199	.00246	.00034
%RSD	.25184	.45024	.38872	.57227	.60940	.40814	626.84
#1	.51668	.20316	.25132	14.298	3.2787	.60497	-.00019
#2	.51485	.20187	.24995	14.183	3.2506	.60148	.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51059	.50902	.49382	.49888	.00078	-.00051	-.00008
SDev	.00129	.00003	.00500	.00332	.00205	.00202	.00203
%RSD	.25306	.00671	1.0119	.66583	262.60	394.77	2479.8
#1	.51150	.50899	.49736	.50123	-.00067	-.00194	-.00152
#2	.50968	.50904	.49029	.49654	.00223	.00092	.00136
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9699	2.0354	2.0136	1.9884	.51145	.52066	
SDev	.0038	.0164	.0122	.0130	.00388	.00298	
%RSD	.19437	.80378	.60525	.65554	.75840	.57325	
#1	1.9726	2.0470	2.0222	1.9976	.51419	.52277	
#2	1.9672	2.0239	2.0050	1.9792	.50871	.51855	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1776

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18291	--	--	--	--	--	--
SDev	96.06018	--	--	--	--	--	--
%RSD	.5251809	--	--	--	--	--	--
#1	18223	--	--	--	--	--	--
#2	18359	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QGD

Operator: RJG

Run Time: 07/24/00 13:06:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1777**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04756	1.8683	1.9098	1.8517	.04844	13.456	.04624
SDev	.00019	.0080	.0027	.0026	.00012	.017	.00024
%RSD	.39758	.43089	.14234	.13779	.23673	.12632	.51389
#1	.04770	1.8626	1.9079	1.8499	.04852	13.468	.04607
#2	.04743	1.8740	1.9117	1.8535	.04836	13.444	.04641
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48747	.19125	.23724	13.195	3.0332	.56835	-.00069
SDev	.00053	.00000	.00053	.017	.0066	.00044	.00000
%RSD	.10833	.00093	.22287	.12818	.21729	.07691	.20501
#1	.48710	.19125	.23687	13.183	3.0378	.56866	-.00069
#2	.48784	.19125	.23762	13.207	3.0285	.56804	-.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48049	.48334	.46691	.47238	.00126	.00178	.00161
SDev	.00022	.00036	.00179	.00108	.00254	.00021	.00070
%RSD	.04668	.07532	.38425	.22766	202.35	12.007	43.842
#1	.48033	.48308	.46818	.47314	-.00054	.00193	.00111
#2	.48064	.48360	.46564	.47162	.00305	.00163	.00210
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.8689	1.9313	1.9105	1.8700	.48283	.49367	
SDev	.0023	.0082	.0062	.0035	.00102	.00023	
%RSD	.12370	.42488	.32677	.18651	.21025	.04576	
#1	1.8705	1.9371	1.9149	1.8675	.48355	.49383	
#2	1.8672	1.9255	1.9061	1.8725	.48211	.49351	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1773

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18361	--	--	--	--	--	--
SDev	33.51575	--	--	--	--	--	--
%RSD	.1825412	--	--	--	--	--	--
#1	18337	--	--	--	--	--	--
#2	18384	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QM

Operator: RJG

Run Time: 07/24/00 13:10:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1779**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.07572	.00106	.04026	.00007	14.730	-.00001
SDev	.00035	.00279	.00132	.00115	.00033	.415	.00013
%RSD	71.910	3.6901	125.03	2.8492	458.61	2.8167	1047.0
#1	.00024	.07375	.00199	.03945	.00031	14.436	-.00010
#2	.00074	.07770	.00012	.04107	-.00016	15.023	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.00096	.00007	13.362	3.3136	.10001	.00056
SDev	.00035	.00062	.00135	.452	.1002	.00334	.00128
%RSD	41.689	64.194	1801.3	3.3834	3.0227	3.3399	229.88
#1	.00108	.00052	-.00088	13.042	3.2428	.09765	-.00035
#2	.00059	.00140	.00103	13.682	3.3845	.10237	.00146
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00097	.00134	-.00113	-.00031	.00178	.00153	.00161
SDev	.00121	.00226	.00107	.00004	.00028	.00040	.00017
%RSD	125.71	169.10	94.717	12.216	15.994	26.456	10.831
#1	.00011	-.00026	-.00037	-.00034	.00158	.00181	.00173
#2	.00182	.00294	-.00189	-.00028	.00198	.00124	.00149
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00302	-.00016	-.00111	.00034	.00265	.01810	
SDev	.00023	.00358	.00247	.00149	.00039	.00058	
%RSD	7.6244	2184.2	221.46	434.37	14.864	3.2057	
#1	-.00285	.00237	.00063	-.00071	.00237	.01769	
#2	-.00318	-.00270	-.00286	.00140	.00293	.01851	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1780

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18114	--	--	--	--	--	--
SDev	548.1486	--	--	--	--	--	--
%RSD	3.026105	--	--	--	--	--	--
#1	18502	--	--	--	--	--	--
#2	17726	--	--	--	--	--	--

Method: METTRA Sample Name: DG9QQ

Operator: RJG

Run Time: 07/24/00 13:14:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1781

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.05843	.00170	.01740	-.00005	7.4866	.00012
SDev	.00022	.00773	.00092	.00023	.00013	.1069	.00005
%RSD	88.562	13.223	54.233	1.3014	231.31	1.4274	45.414
#1	.00040	.06390	.00235	.01756	-.00014	7.5622	.00008
#2	.00009	.05297	.00105	.01724	.00003	7.4111	.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.00053	-.00094	4.8904	3.5035	.03243	-.00003
SDev	.00000	.00000	.00010	.0513	.0469	.00030	.00042
%RSD	1.2896	.44878	10.406	1.0484	1.3396	.92089	1545.1
#1	.00025	.00053	-.00101	4.9267	3.5367	.03264	.00027
#2	.00025	.00053	-.00087	4.8542	3.4703	.03222	-.00032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.00033	-.00027	-.00007	.00105	.00082	.00090
SDev	.00084	.00173	.00079	.00110	.00408	.00219	.00010
%RSD	616.67	521.91	296.88	1639.9	387.69	265.45	11.163
#1	.00073	-.00089	-.00083	-.00085	.00394	-.00072	.00083
#2	-.00046	.00155	.00029	.00071	-.00183	.00237	.00097
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00458	.00324	.00369	.00032	.00139	.01021	
SDev	.00403	.00022	.00149	.00443	.00002	.00006	
%RSD	88.049	6.8355	40.397	1404.6	1.1519	.55870	
#1	.00173	.00309	.00263	.00345	.00140	.01025	
#2	.00743	.00340	.00474	-.00282	.00138	.01017	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1782

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17999	--	--	--	--	--	--
SDev	79.93759	--	--	--	--	--	--
%RSD	.4441329	--	--	--	--	--	--
#1	17942	--	--	--	--	--	--
#2	18055	--	--	--	--	--	--

Method: METTRA Sample Name: DG9T3

Operator: RJG

Run Time: 07/24/00 13:18:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1783**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.08527	.00207	.02456	.00018	7.1650	.00004
SDev	.00026	.00314	.00095	.00007	.00004	.0657	.00005
%RSD	70.122	3.6861	46.198	.30053	24.695	.91654	116.65
#1	.00019	.08749	.00274	.02461	.00015	7.2114	.00001
#2	.00055	.08305	.00139	.02451	.00021	7.1185	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	.00030	-.00054	5.4967	3.2204	.08043	-.00083
SDev	.00017	.00004	.00026	.0214	.0226	.00036	.00010
%RSD	41.590	11.809	48.577	.38955	.70156	.44543	12.033
#1	.00029	.00028	-.00073	5.5118	3.2364	.08069	-.00090
#2	.00053	.00033	-.00036	5.4815	3.2044	.08018	-.00076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00177	-.00073	-.00069	-.00070	.00229	.00025	.00093
SDev	.00102	.00231	.00177	.00041	.00060	.00020	.00006
%RSD	57.942	319.23	255.62	58.045	26.398	83.296	6.9650
#1	.00249	.00091	-.00194	-.00099	.00186	.00039	.00088
#2	.00104	-.00236	.00056	-.00041	.00272	.00010	.00097
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00033	.00202	.00124	.00249	.00119	.01535	
SDev	.00375	.00357	.00363	.00113	.00029	.00008	
%RSD	1127.1	176.66	293.43	45.409	24.451	.51048	
#1	.00232	.00454	.00380	.00169	.00098	.01529	
#2	-.00298	-.00050	-.00133	.00329	.00139	.01540	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1784

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18305	--	--	--	--	--	--
SDev	5.020182	--	--	--	--	--	--
%RSD	.0274252	--	--	--	--	--	--
#1	18301	--	--	--	--	--	--
#2	18309	--	--	--	--	--	--

Method: METTRA Sample Name: DGF3C

Operator: RJG

Run Time: 07/24/00 13:23:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1785**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.07679	.00165	.09630	.00017	81.248	-.00001
SDev	.00001	.00200	.00003	.00002	.00004	.115	.00003
%RSD	4.3539	2.6074	1.6552	.01678	25.312	.14207	240.69
#1	.00018	.07537	.00163	.09629	.00014	81.329	.00001
#2	.00017	.07820	.00167	.09631	.00021	81.166	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00013	.00204	.53970	24.385	.25534	.00079
SDev	.00026	.00006	.00009	.00476	.011	.00005	.00001
%RSD	92.160	46.858	4.4413	.88138	.04516	.01897	.99633
#1	.00010	.00009	.00211	.53634	24.393	.25537	.00080
#2	.00046	.00018	.00198	.54306	24.377	.25531	.00079
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00309	-.00032	.00094	.00052	.00229	-.00072	.00028
SDev	.00063	.00024	.00162	.00100	.00022	.00203	.00143
%RSD	20.267	76.421	172.48	192.00	9.5427	281.08	506.87
#1	.00353	-.00015	-.00021	-.00019	.00245	.00071	.00129
#2	.00265	-.00049	.00209	.00123	.00214	-.00216	-.00073
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00024	.00198	.00124	-.00226	.00093	.09733	
SDev	.00054	.00142	.00077	.00075	.00000	.00006	
%RSD	224.35	71.823	61.861	33.049	.05771	.06111	
#1	-.00063	.00298	.00178	-.00279	.00093	.09738	
#2	.00014	.00097	.00070	-.00173	.00093	.09729	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1786

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18359	--	--	--	--	--	--
SDev	64.06360	--	--	--	--	--	--
%RSD	.3489521	--	--	--	--	--	--
#1	18314	--	--	--	--	--	--
#2	18404	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-6

Operator: RJG

Run Time: 07/24/00 13:27:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1787

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0282	23.753	.50706	1.9281	2.0783	51.579	.48949
SDev	.0018	.018	.00032	.0056	.0109	.192	.00089
%RSD	.17505	.07541	.06369	.28828	.52372	.37303	.18092
#1	1.0294	23.765	.50683	1.9320	2.0860	51.715	.49011
#2	1.0269	23.740	.50729	1.9242	2.0706	51.443	.48886
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9950	2.0008	1.9554	25.995	52.471	2.0199	1.9829
SDev	.0010	.0004	.0052	.034	.158	.0036	.0118
%RSD	.04975	.01842	.26751	.12925	.30198	.17820	.59281
#1	1.9957	2.0010	1.9591	26.019	52.583	2.0225	1.9746
#2	1.9943	2.0005	1.9517	25.971	52.359	2.0174	1.9912
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9625	.51779	.49333	.50147	.54005	.51154	.52103
SDev	.0118	.00292	.00377	.00348	.00356	.00366	.00363
%RSD	.59916	.56433	.76315	.69479	.65822	.71643	.69635
#1	1.9708	.51985	.49599	.50394	.54257	.51413	.52360
#2	1.9541	.51572	.49067	.49901	.53754	.50895	.51847
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51247	.52539	.52109	.99172	2.0471	1.9670	
SDev	.00035	.00295	.00185	.00037	.0105	.0071	
%RSD	.06811	.56145	.35527	.03733	.51386	.35908	
#1	.51222	.52748	.52240	.99145	2.0545	1.9720	
#2	.51272	.52331	.51978	.99198	2.0396	1.9620	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1788

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18281	--	--	--	--	--	--
SDev	62.18949	--	--	--	--	--	--
%RSD	.3401813	--	--	--	--	--	--
#1	18237	--	--	--	--	--	--
#2	18325	--	--	--	--	--	--

Method: METTRA Sample Name: CCB6

Operator: RJG

Run Time: 07/24/00 13:31:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1789

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.04127	.00104	.00054	.00058	.01693	.00025
SDev	.00002	.00044	.00028	.00005	.00019	.00869	.00008
%RSD	4.0852	1.0601	26.980	8.3129	33.121	51.338	32.807
#1	.00042	.04158	.00084	.00050	.00045	.01078	.00030
#2	.00044	.04096	.00124	.00057	.00072	.02308	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00097	.00080	-.00131	.00598	.01465	.00053	.00578
SDev	.00002	.00002	.00009	.00625	.00480	.00018	.00209
%RSD	1.7435	1.8395	7.1030	104.42	32.776	34.122	36.250
#1	.00096	.00081	-.00124	.00157	.01125	.00040	.00726
#2	.00098	.00079	-.00137	.01040	.01804	.00065	.00429
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00106	.00027	.00055	.00046	.00420	.00168	.00252
SDev	.00046	.00001	.00114	.00076	.00095	.00118	.00047
%RSD	43.235	5.0975	209.16	166.40	22.657	70.115	18.619
#1	.00139	.00026	.00136	.00099	.00352	.00251	.00285
#2	.00074	.00028	-.00026	-.00008	.00487	.00085	.00219
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00436	-.00276	-.00039	.00353	.00011	.00086	
SDev	.00246	.00038	.00057	.00176	.00000	.00002	
%RSD	56.436	13.704	147.19	49.759	1.9542	2.7609	
#1	.00610	-.00302	.00002	.00229	.00011	.00088	
#2	.00262	-.00249	-.00079	.00477	.00011	.00084	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1790

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18403	--	--	--	--	--	--
SDev	115.3648	--	--	--	--	--	--
%RSD	.6268776	--	--	--	--	--	--
#1	18322	--	--	--	--	--	--
#2	18485	--	--	--	--	--	--

Analysis Report

07/24/00 01:39:42 PM

664 1791 page 1

Method: METTRA Sample Name: DGKGQB

Operator: RJG

Run Time: 07/24/00 13:35:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.04774	.00100	.00023	-.00007	.09088	.00014
SDev	.00011	.00175	.00077	.00004	.00012	.00113	.00017
%RSD	45.607	3.6548	77.165	17.580	172.29	1.2459	123.54
#1	.00016	.04650	.00045	.00020	-.00015	.09168	.00002
#2	.00031	.04897	.00154	.00026	.00001	.09008	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00020	-.00140	.09218	.00723	.00086	.00115
SDev	.00004	.00038	.00014	.00672	.00061	.00006	.00033
%RSD	57.938	186.01	9.7364	7.2946	8.4780	6.7520	28.832
#1	.00010	-.00006	-.00130	.09693	.00680	.00090	.00091
#2	.00004	.00047	-.00149	.08742	.00767	.00081	.00138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.00084	.00044	.00058	.00228	.00173	.00191
SDev	.00060	.00136	.00069	.00000	.00258	.00070	.00132
%RSD	71.426	161.67	154.80	.66676	112.80	40.220	69.061
#1	.00126	.00181	-.00004	.00057	.00046	.00124	.00098
#2	.00041	-.00012	.00093	.00058	.00411	.00222	.00285
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00254	.00410	.00358	.00119	.00078	.00642	
SDev	.00308	.00183	.00225	.00233	.00061	.00009	
%RSD	121.48	44.611	62.744	195.37	77.941	1.4367	
#1	.00472	.00540	H.00517	.00284	.00121	.00636	
#2	.00036	.00281	.00199	-.00046	.00035	.00649	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1792

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18095	--	--	--	--	--	--
SDev	169.1753	--	--	--	--	--	--
%RSD	.9349297	--	--	--	--	--	--
#1	17975	--	--	--	--	--	--
#2	18215	--	--	--	--	--	--

Method: METTRA Sample Name: DGKGQC

Operator: RJG

Run Time: 07/24/00 13:39:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1793

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04967	1.8340	1.9889	1.8773	.05063	L.01346	.04951
SDev	.00020	.0125	.0130	.0122	.00028	.00074	.00041
%RSD	.41165	.67962	.65392	.65039	.56329	5.5194	.83248
#1	.04953	1.8251	1.9798	1.8687	.05043	L.01294	.04922
#2	.04982	1.8428	1.9981	1.8860	.05084	L.01399	.04980
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51499	.20244	.23985	1.0691	L.00221	.50270	L.00075
SDev	.00362	.00150	.00090	.0158	.00044	.00327	.00009
%RSD	.70263	.73953	.37452	1.4774	19.922	.65016	11.386
#1	.51243	.20138	.23922	1.0580	L.00252	.50039	L.00081
#2	.51755	.20350	.24049	1.0803	L.00190	.50502	L.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50977	.50709	.49612	.49977	.00144	.00191	L.00175
SDev	.00850	.00447	.00005	.00145	.00178	.00193	.00069
%RSD	1.6674	.88106	.01038	.29081	123.48	101.13	39.588
#1	.50376	.50393	.49616	.49875	.00270	.00054	L.00126
#2	.51578	.51025	.49609	.50080	.00018	.00327	L.00224
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9530	2.0316	2.0054	1.9416	.50256	.49466	
SDev	.0104	.0055	.0002	.0188	.00270	.00350	
%RSD	.53136	.26942	.00973	.96700	.53828	.70824	
#1	1.9456	2.0355	2.0056	1.9283	.50065	.49218	
#2	1.9603	2.0277	2.0053	1.9549	.50448	.49714	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

664 1794

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18125	--	--	--	--	--	--
SDev	130.0013	--	--	--	--	--	--
%RSD	.7172515	--	--	--	--	--	--
#1	18217	--	--	--	--	--	--
#2	18033	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LA

Operator: RJG

Run Time: 07/24/00 13:43:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1795

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.20835	.00195	.10969	.00011	75.713	.00057
SDev	.00003	.00037	.00134	.00117	.00014	.934	.00011
%RSD	4.9431	.17637	68.418	1.0668	124.82	1.2335	18.766
#1	.00058	.20861	.00290	.11052	.00001	76.374	.00050
#2	.00054	.20809	.00101	.10886	.00021	75.053	.00065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00145	.02354	.00014	.44921	66.417	.06940	.00397
SDev	.00056	.00009	.00055	.00413	.836	.00089	.00027
%RSD	38.441	.36534	392.74	.92026	1.2587	1.2785	6.8010
#1	.00105	.02348	.00053	.44628	67.008	.07003	.00416
#2	.00184	.02360	-.00025	.45213	65.826	.06877	.00378
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03498	.00127	.00118	.00121	-.00079	.00016	-.00016
SDev	.00049	.00083	.00129	.00114	.00060	.00250	.00146
%RSD	1.3869	65.390	109.66	94.188	75.590	1587.4	917.27
#1	.03532	.00068	.00027	.00040	-.00037	-.00161	-.00120
#2	.03463	.00186	.00210	.00202	-.00122	.00192	.00088
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00510	.00543	.00532	.00193	.00493	.02524	
SDev	.00024	.00140	.00085	.00161	.00024	.00020	
%RSD	4.7589	25.800	16.039	83.407	4.9396	.80925	
#1	.00493	.00642	.00593	.00079	.00476	.02538	
#2	.00528	.00444	.00472	.00308	.00510	.02509	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1796

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18172	--	--	--	--	--	--
SDev	225.2135	--	--	--	--	--	--
%RSD	1.239350	--	--	--	--	--	--
#1	18013	--	--	--	--	--	--
#2	18331	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LD
 Run Time: 07/24/00 13:48:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1797

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00273	.43731	.01100	.16987	-.00007	58.829	-.00027
SDev	.00030	.00849	.00100	.00095	.00002	.168	.00006
%RSD	11.192	1.9417	9.0827	.56036	33.634	.28566	21.149
#1	.00294	.43130	.01029	.16919	-.00008	58.710	-.00023
#2	.00251	.44331	.01171	.17054	-.00005	58.948	-.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00826	.00821	-.00089	25.310	44.422	H15.321	.00139
SDev	.00049	.00002	.00022	.122	.129	.050	.00019
%RSD	5.9037	.22233	25.102	.48251	.29051	.32337	13.882
#1	.00792	.00820	-.00073	25.224	44.331	H15.286	.00126
#2	.00861	.00822	-.00105	25.396	44.513	H15.356	.00153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00311	.00125	.00175	.00159	.00252	.00042	.00112
SDev	.00023	.00042	.00036	.00010	.00212	.00066	.00026
%RSD	7.5642	33.337	20.580	6.3880	84.030	158.01	23.517
#1	.00294	.00155	.00150	.00151	.00402	-.00005	.00131
#2	.00327	.00096	.00201	.00166	.00102	.00089	.00093
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00148	.00364	.00292	.00123	.00492	.00432	
SDev	.00383	.00196	.00258	.00228	.00006	.00007	
%RSD	259.02	53.846	88.436	185.19	1.1346	1.6285	
#1	-.00123	.00226	.00109	-.00038	.00488	.00427	
#2	.00419	.00503	.00475	.00284	.00496	.00437	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1798

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18154	--	--	--	--	--	--
SDev	59.18428	--	--	--	--	--	--
%RSD	.3260168	--	--	--	--	--	--
#1	18112	--	--	--	--	--	--
#2	18196	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LF

Operator: RJG

Run Time: 07/24/00 13:52:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1799

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	4.2720	.00515	.04557	-.00001	56.520	.00004
SDev	.00015	.0196	.00148	.00025	.00007	.272	.00004
%RSD	150.70	.45781	28.765	.54281	738.50	.48184	100.52
#1	-.00001	4.2858	.00410	.04575	-.00006	56.713	.00001
#2	.00021	4.2582	.00620	.04540	.00004	56.328	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00552	.00725	.00356	3.8863	3.4239	.06686	.02397
SDev	.00002	.00025	.00009	.0065	.0161	.00050	.00071
%RSD	.33468	3.4449	2.4473	.16745	.46934	.74122	2.9690
#1	.00553	.00707	.00362	3.8816	3.4353	.06721	.02447
#2	.00550	.00742	.00350	3.8909	3.4126	.06651	.02346
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01643	.00399	.00289	.00326	-.00031	-.00059	-.00050
SDev	.00065	.00086	.00101	.00038	.00157	.00049	.00085
%RSD	3.9485	21.617	34.789	11.770	502.24	82.781	170.10
#1	.01689	.00460	.00218	.00299	-.00142	-.00094	-.00110
#2	.01597	.00338	.00360	.00353	.00080	-.00025	.00010
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00367	.00165	.00232	-.00076	.02726	.01021	
SDev	.00007	.00053	.00033	.00411	.00025	.00002	
%RSD	1.9225	31.986	14.125	543.90	.92748	.22954	
#1	.00372	.00128	.00209	.00215	.02743	.01023	
#2	.00362	.00202	.00255	-.00366	.02708	.01019	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18144	--	--	--	--	--	--
SDev	73.85675	--	--	--	--	--	--
%RSD	.4070605	--	--	--	--	--	--
#1	18092	--	--	--	--	--	--
#2	18196	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFP5

Operator: RJG

Run Time: 07/24/00 13:56:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1801**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00004	.83005	.00072	.00884	.00017	11.020	.00004
SDev	.00045	.00300	.00016	.00001	.00006	.072	.00010
%RSD	1165.8	.36099	21.652	.07647	37.538	.64895	275.75
#1	.00028	.83217	.00061	.00884	.00013	11.071	-.00004
#2	-.00036	.82793	.00083	.00885	.00022	10.969	.00011
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	.00146	-.00137	.76271	.67410	.01400	.00433
SDev	.00012	.00031	.00025	.00970	.00005	.00066	.00034
%RSD	8.9804	21.193	17.965	1.2713	.00695	4.6993	7.7369
#1	.00141	.00168	-.00120	.76956	.67413	.01354	.00457
#2	.00124	.00124	-.00155	.75585	.67407	.01447	.00409
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00355	.00172	-.00072	.00009	.00225	.00036	.00099
SDev	.00049	.00004	.00020	.00012	.00261	.00069	.00041
%RSD	13.935	2.1887	27.495	130.89	116.24	189.23	41.489
#1	.00320	.00169	-.00058	.00018	.00410	-.00012	.00128
#2	.00390	.00174	-.00086	.00001	.00040	.00085	.00070
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00375	-.00033	.00102	-.00413	.00700	.00262	
SDev	.00005	.00038	.00027	.00320	.00005	.00005	
%RSD	1.4001	114.50	26.561	77.507	.67606	1.9885	
#1	.00378	-.00006	.00122	-.00639	.00704	.00258	
#2	.00371	-.00060	.00083	-.00187	.00697	.00266	

664 1802

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18597	--	--	--	--	--	--
SDev	123.3542	--	--	--	--	--	--
%RSD	.6633098	--	--	--	--	--	--
#1	18510	--	--	--	--	--	--
#2	18684	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFS

Operator: RJG

Run Time: 07/24/00 14:00:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1803

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05086	5.9126	2.0261	1.9587	.05147	58.081	.04856
SDev	.00001	.0149	.0006	.0005	.00001	.023	.00014
%RSD	.02723	.25249	.02752	.02358	.01760	.03982	.27714
#1	.05087	5.9020	2.0257	1.9584	.05147	58.064	.04847
#2	.05085	5.9231	2.0265	1.9590	.05146	58.097	.04866
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51173	.20747	.25698	4.4531	3.4017	.56321	.02411
SDev	.00116	.00005	.00016	.0057	.0050	.00065	.00022
%RSD	.22686	.02492	.06372	.12696	.14779	.11485	.90294
#1	.51091	.20744	.25687	4.4491	3.3982	.56276	.02395
#2	.51255	.20751	.25710	4.4571	3.4053	.56367	.02426
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51307	.50706	.49016	.49579	.00338	.00053	.00148
SDev	.00046	.00411	.00166	.00247	.00127	.00218	.00188
%RSD	.08923	.80962	.33768	.49841	37.492	409.82	126.91
#1	.51275	.50996	.49133	.49754	.00248	-.00101	.00015
#2	.51339	.50416	.48899	.49404	.00427	.00208	.00281
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9654	2.0526	2.0236	1.9767	.53448	.51242	
SDev	.0008	.0047	.0034	.0076	.00012	.00038	
%RSD	.04247	.22768	.16778	.38316	.02260	.07477	
#1	1.9660	2.0560	2.0260	1.9821	.53457	.51269	
#2	1.9648	2.0493	2.0212	1.9714	.53440	.51215	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1804

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18221	--	--	--	--	--	--
SDev	24.64240	--	--	--	--	--	--
%RSD	.1352426	--	--	--	--	--	--
#1	18203	--	--	--	--	--	--
#2	18238	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFD
 Run Time: 07/24/00 14:04:46
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1805

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05086	6.0860	2.0359	1.9776	.05218	58.942	.04857
SDev	.00041	.0525	.0169	.0181	.00066	.622	.00063
%RSD	.79969	.86316	.83127	.91509	1.2727	1.0549	1.3026
#1	.05115	6.1232	2.0479	1.9904	.05265	59.381	.04902
#2	.05058	6.0489	2.0239	1.9648	.05171	58.502	.04812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51520	.20886	.25986	4.6945	3.4936	.56933	.02477
SDev	.00370	.00186	.00206	.0386	.0362	.00425	.00010
%RSD	.71910	.88792	.79319	.82204	1.0352	.74580	.39345
#1	.51782	.21017	.26131	4.7218	3.5192	.57233	.02470
#2	.51258	.20755	.25840	4.6672	3.4680	.56633	.02484
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51965	.51215	.49267	.49916	.00452	.00064	.00193
SDev	.00270	.00400	.00081	.00080	.00061	.00006	.00016
%RSD	.52027	.78197	.16361	.15946	13.602	9.2392	8.5693
#1	.52156	.50932	.49324	.49859	.00408	.00068	.00181
#2	.51774	.51498	.49210	.49972	.00495	.00060	.00205
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9816	2.0619	2.0352	1.9869	.53999	.53198	
SDev	.0082	.0025	.0011	.0067	.00570	.00408	
%RSD	.41177	.12106	.05170	.33835	1.0548	.76612	
#1	1.9758	2.0637	2.0344	1.9916	.54402	.53486	
#2	1.9874	2.0602	2.0359	1.9821	.53596	.52910	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1806

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18381	--	--	--	--	--	--
SDev	1.803675	--	--	--	--	--	--
%RSD	.0098128	--	--	--	--	--	--
#1	18380	--	--	--	--	--	--
#2	18382	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LG

Operator: RJG

Run Time: 07/24/00 14:08:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1807**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	4.1581	.00171	.20013	.00012	57.262	.00024
SDev	.00015	.0131	.00088	.00083	.00006	.342	.00004
%RSD	16.531	.31587	51.134	.41688	49.975	.59788	16.005

#1	.00098	4.1674	.00233	.20072	.00008	57.504	.00027
#2	.00077	4.1488	.00109	.19954	.00016	57.020	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08924	.06294	.00486	6.9094	48.781	.91534	.00995
SDev	.00026	.00014	.00020	.0327	.259	.00267	.00005
%RSD	.28735	.21382	4.0797	.47356	.53066	.29159	.50984

#1	.08906	.06303	.00500	6.9326	48.964	.91722	.00991
#2	.08942	.06284	.00472	6.8863	48.598	.91345	.00999

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07636	.00457	.00212	.00294	.00217	.00073	.00121
SDev	.00033	.00153	.00089	.00110	.00421	.00054	.00104
%RSD	.43343	33.336	41.813	37.422	193.61	74.580	86.012

#1	.07613	.00350	.00150	.00216	.00515	.00034	.00194
#2	.07660	.00565	.00275	.00372	-.00080	.00111	.00047

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	.00184	.00120	.00190	.01228	.02196
SDev	.00004	.00196	.00132	.00008	.00029	.00000
%RSD	43.831	106.09	110.16	4.0231	2.3505	.01158

#1	-.00013	.00046	.00026	.00185	.01208	.02195
#2	-.00007	.00322	.00213	.00195	.01248	.02196

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

664 1808

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18155	--	--	--	--	--	--
SDev	.1422500	--	--	--	--	--	--
%RSD	.0007835	--	--	--	--	--	--
#1	18155	--	--	--	--	--	--
#2	18155	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LK

Operator: RJG

Run Time: 07/24/00 14:13:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1809**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	4.1071	.00554	.04534	.00006	55.601	.00001
SDev	.00013	.0100	.00004	.00006	.00003	.117	.00013
%RSD	8248.9	.24427	.72177	.13656	42.623	.20983	1210.3
#1	-.00009	4.1000	.00557	.04539	.00008	55.683	.00010
#2	.00009	4.1142	.00551	.04530	.00004	55.518	-.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00555	.00767	.00254	3.9594	3.6531	.06432	.02514
SDev	.00011	.00016	.00069	.0026	.0033	.00015	.00032
%RSD	1.9259	2.1208	27.411	.06522	.09133	.22566	1.2721
#1	.00548	.00755	.00204	3.9613	3.6507	.06422	.02537
#2	.00563	.00778	.00303	3.9576	3.6555	.06443	.02492
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01509	.00484	.00187	.00286	.00197	.00018	.00078
SDev	.00032	.00157	.00106	.00123	.00004	.00009	.00004
%RSD	2.1469	32.371	56.734	42.996	1.9834	46.395	5.5779
#1	.01486	.00594	.00262	.00372	.00200	.00012	.00075
#2	.01531	.00373	.00112	.00199	.00194	.00024	.00081
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00459	-.00022	.00138	.00152	.02679	.01210	
SDev	.00210	.00134	.00019	.00047	.00003	.00001	
%RSD	45.743	598.79	13.940	30.657	.09188	.09934	
#1	.00607	-.00117	.00124	.00185	.02681	.01211	
#2	.00310	.00072	.00151	.00119	.02678	.01209	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1810

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18341	--	--	--	--	--	--
SDev	90.43785	--	--	--	--	--	--
%RSD	.4930804	--	--	--	--	--	--
#1	18405	--	--	--	--	--	--
#2	18277	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-7
 Run Time: 07/24/00 14:17:16
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1811

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0340	23.833	.51311	1.9443	2.1216	52.280	.49186
SDev	.0100	.259	.00410	.0154	.0124	.340	.00463
%RSD	.96367	1.0867	.79924	.79388	.58584	.64979	.94073
#1	1.0269	23.649	.51021	1.9334	2.1128	52.040	.48859
#2	1.0410	24.016	.51601	1.9552	2.1304	52.520	.49513
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9980	2.0043	1.9763	26.349	53.383	2.0318	1.9918
SDev	.0180	.0212	.0165	.241	.403	.0189	.0313
%RSD	.89865	1.0580	.83696	.91352	.75514	.92982	1.5735
#1	1.9853	1.9893	1.9646	26.179	53.097	2.0184	1.9697
#2	2.0107	2.0193	1.9880	26.520	53.668	2.0452	2.0140
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9784	.51269	.49772	.50271	.54924	.51112	.52382
SDev	.0137	.00286	.00245	.00258	.00327	.00159	.00215
%RSD	.69062	.55714	.49122	.51360	.59449	.31015	.40943
#1	1.9687	.51067	.49599	.50088	.54693	.51000	.52230
#2	1.9881	.51471	.49945	.50453	.55155	.51225	.52533
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.50808	.53322	.52485	1.0038	2.0699	1.9822	
SDev	.00147	.00285	.00239	.0130	.0124	.0156	
%RSD	.29020	.53484	.45597	1.2926	.59724	.78556	
#1	.50704	.53121	.52316	.99466	2.0611	1.9712	
#2	.50912	.53524	.52654	1.0130	2.0786	1.9932	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1812

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18219	--	--	--	--	--	--
SDev	179.9228	--	--	--	--	--	--
%RSD	.9875678	--	--	--	--	--	--
#1	18346	--	--	--	--	--	--
#2	18092	--	--	--	--	--	--

Method: METTRA Sample Name: CCB7
Run Time: 07/24/00 14:21:26
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Operator: RJG

664 1813

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.08577	.00078	.00082	.00028	.02162	.00006
SDev	.00000	.00179	.00029	.00046	.00004	.01163	.00015
%RSD	1.5396	2.0875	37.400	56.102	15.621	53.809	249.14
#1	.00015	.08451	.00058	.00050	.00025	.01339	.00016
#2	.00015	.08704	.00099	.00115	.00031	.02984	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00088	.00031	-.00209	.00355	.01607	.00061	.00549
SDev	.00007	.00026	.00019	.00454	.00039	.00018	.00133
%RSD	7.8946	82.437	9.3016	127.89	2.4053	29.105	24.163
#1	.00093	.00050	-.00195	.00677	.01579	.00048	.00642
#2	.00083	.00013	-.00223	.00034	.01634	.00073	.00455
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	-.00335	.00078	-.00059	.00302	.00000	.00101
SDev	.00032	.00058	.00051	.00015	.00449	.00050	.00183
%RSD	81.116	17.203	65.165	24.933	148.50	17525.	181.40
#1	-.00017	-.00376	.00114	-.00049	.00620	.00036	.00230
#2	-.00063	-.00295	.00042	-.00070	-.00015	-.00035	-.00029
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00209	.00139	.00162	-.00118	.00011	.00142	
SDev	.00182	.00067	.00105	.00216	.00000	.00019	
%RSD	87.169	47.955	64.785	183.56	1.4321	13.708	
#1	.00338	.00186	.00236	.00035	.00011	.00128	
#2	.00080	.00092	.00088	-.00270	.00011	.00156	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1814

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18098	--	--	--	--	--	--
SDev	251.1997	--	--	--	--	--	--
%RSD	1.388018	--	--	--	--	--	--
#1	18275	--	--	--	--	--	--
#2	17920	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LL

Operator: RJG

Run Time: 07/24/00 14:27:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1815**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.11699	.00018	.00015	-.00018	.03165	.00017
SDev	.00017	.04660	.00058	.00006	.00004	.00397	.00030
%RSD	199.66	39.832	320.55	43.344	24.272	12.535	175.00
#1	-.00004	.14994	.00059	.00019	-.00021	.02885	.00039
#2	.00021	.08404	-.00023	.00010	-.00015	.03446	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.00005	-.00355	-.00380	.00355	.00022	.00090
SDev	.00015	.00033	.00204	.00092	.00488	.00003	.00022
%RSD	50.187	608.49	57.303	24.296	137.57	14.103	24.069
#1	.00039	.00029	-.00499	-.00446	.00700	.00020	.00105
#2	.00019	-.00018	-.00211	-.00315	.00010	.00024	.00074
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00284	-.00071	.00048	.00349	.00102	.00184
SDev	.00091	.00093	.00005	.00028	.00174	.00068	.00104
%RSD	387.11	32.687	7.3265	57.740	49.942	67.040	56.262
#1	-.00041	.00219	-.00067	.00028	.00472	.00151	.00258
#2	.00088	.00350	-.00074	.00067	.00226	.00054	.00111
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00154	.00101	.00118	-.00004	.00053	.00390	
SDev	.00075	.00069	.00021	.00061	.00029	.00002	
%RSD	48.616	68.811	18.095	1385.6	55.225	.45373	
#1	.00101	.00150	.00134	.00038	.00073	.00389	
#2	.00206	.00052	.00103	-.00047	.00032	.00391	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1816

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18364	--	--	--	--	--	--
SDev	265.3763	--	--	--	--	--	--
%RSD	1.445062	--	--	--	--	--	--
#1	18552	--	--	--	--	--	--
#2	18177	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LAF
 Run Time: 07/24/00 14:32:04
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1817

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.12674	.00099	.10864	-.00011	76.006	.00047
SDev	.00016	.00548	.00020	.00047	.00006	.459	.00007
%RSD	48.030	4.3257	19.749	.43344	58.361	.60417	15.031
#1	.00023	.13062	.00113	.10897	-.00016	76.331	.00052
#2	.00046	.12286	.00085	.10830	-.00007	75.682	.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.00251	-.00054	.04658	66.812	.06328	.00207
SDev	.00010	.00031	.00019	.00433	.321	.00006	.00035
%RSD	14.273	12.186	35.654	9.3032	.48096	.09486	17.086
#1	.00064	.00229	-.00068	.04352	67.039	.06333	.00182
#2	.00079	.00272	-.00041	.04965	66.585	.06324	.00232
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02260	-.00226	-.00142	-.00170	.00138	-.00056	.00009
SDev	.00062	.00040	.00095	.00050	.00079	.00096	.00090
%RSD	2.7578	17.743	67.104	29.490	57.392	170.23	1050.3
#1	.02304	-.00255	-.00075	-.00135	.00082	-.00124	-.00055
#2	.02216	-.00198	-.00209	-.00206	.00194	.00011	.00072
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00140	.00115	.00123	-.00120	.00383	.01982	
SDev	.00133	.00353	.00191	.00354	.00045	.00013	
%RSD	94.710	306.30	154.78	296.24	11.743	.66930	
#1	.00046	.00364	.00259	-.00370	.00351	.01991	
#2	.00234	-.00134	-.00012	.00131	.00415	.01972	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1818

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18181	--	--	--	--	--	--
SDev	3.818653	--	--	--	--	--	--
%RSD	.0210035	--	--	--	--	--	--
#1	18178	--	--	--	--	--	--
#2	18184	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LDF
 Run Time: 07/24/00 14:36:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1819

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00231	.09979	.01267	.09350	-.00011	57.350	-.00013
SDev	.00056	.00170	.00080	.00066	.00008	.444	.00006
%RSD	24.032	1.7085	6.2788	.70184	77.126	.77350	46.437
#1	.00192	.10100	.01323	.09303	-.00005	57.037	-.00017
#2	.00270	.09859	.01211	.09396	-.00016	57.664	-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00665	.00581	-.00257	21.557	43.235	H14.075	.00242
SDev	.00035	.00068	.00117	.233	.389	.155	.00083
%RSD	5.2002	11.791	45.362	1.0827	.90014	1.1020	34.260
#1	.00641	.00532	-.00339	21.392	42.960	H13.965	.00184
#2	.00690	.00629	-.00175	21.722	43.511	H14.184	.00301
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00245	.00156	.00112	.00127	.00010	-.00005	-.00000
SDev	.00007	.00174	.00141	.00036	.00089	.00032	.00009
%RSD	2.6893	111.46	126.08	28.634	940.21	621.38	3980.5
#1	.00241	.00033	.00212	.00152	.00073	-.00027	.00006
#2	.00250	.00279	.00012	.00101	-.00054	.00017	-.00006
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00052	.00478	.00336	.00383	.00282	.00392	
SDev	.00279	.00338	.00133	.00115	.00242	.00010	
%RSD	534.31	70.828	39.539	30.028	85.541	2.4547	
#1	-.00145	.00717	.00430	.00465	.00112	.00385	
#2	.00249	.00238	.00242	.00302	.00453	.00399	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1820

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18375	--	--	--	--	--	--
SDev	138.3802	--	--	--	--	--	--
%RSD	.7530775	--	--	--	--	--	--
#1	18473	--	--	--	--	--	--
#2	18277	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFF

Operator: RJG

Run Time: 07/24/00 14:40:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1821

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	1.5877	.00567	.02450	-.00031	53.283	-.00003
SDev	.00055	.0094	.00101	.00025	.00001	.229	.00004
%RSD	170.01	.59212	17.749	1.0232	4.7665	.43060	124.72

#1	-.00006	1.5943	.00496	.02467	-.00030	53.445	-.00000
#2	.00071	1.5810	.00638	.02432	-.00032	53.120	-.00006

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00276	.00074	-.00033	.07063	1.8165	.00159	.02973
SDev	.00055	.00001	.00005	.00951	.0061	.00025	.00072
%RSD	20.046	1.8323	15.390	13.469	.33438	15.503	2.4237

#1	.00237	.00073	-.00036	.06390	1.8208	.00177	.02922
#2	.00315	.00075	-.00029	.07736	1.8122	.00142	.03023

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01070	-.00063	-.00012	-.00029	.00349	.00084	.00172
SDev	.00109	.00043	.00071	.00062	.00169	.00062	.00097
%RSD	10.197	67.204	585.09	210.84	48.542	73.145	56.560

#1	.00993	-.00094	-.00062	-.00073	.00469	.00128	.00241
#2	.01147	-.00033	.00038	.00014	.00229	.00041	.00103

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00472	.00328	.00376	-.00174	.02502	.00230
SDev	.00098	.00183	.00090	.00048	.00238	.00001
%RSD	20.699	55.908	23.881	27.770	9.5141	.52867

#1	.00403	.00458	.00439	-.00139	.02333	.00231
#2	.00541	.00198	.00312	-.00208	.02670	.00229

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

664 1822

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18191	--	--	--	--	--	--
SDev	95.95383	--	--	--	--	--	--
%RSD	.5274855	--	--	--	--	--	--
#1	18259	--	--	--	--	--	--
#2	18123	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFP5F
 Run Time: 07/24/00 14:44:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1823

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	.36543	.00257	.00484	-.00009	10.448	.00008
SDev	.00019	.00236	.00029	.00006	.00003	.031	.00003
%RSD	105.67	.64463	11.385	1.1590	36.459	.30006	36.070

#1	-.00031	.36377	.00278	.00480	-.00007	10.470	.00006
#2	-.00005	.36710	.00237	.00488	-.00011	10.426	.00010

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00091	.00028	-.00271	.02797	.36106	.00122	.00555
SDev	.00047	.00027	.00057	.00215	.00418	.00076	.00037
%RSD	51.363	96.018	21.084	7.6923	1.1575	62.533	6.6474

#1	.00058	.00009	-.00312	.02949	.35811	.00068	.00581
#2	.00124	.00047	-.00231	.02645	.36402	.00176	.00529

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00180	-.00036	-.00082	-.00067	.00287	.00054	.00131
SDev	.00054	.00078	.00012	.00034	.00056	.00148	.00118
%RSD	29.910	219.17	15.222	51.721	19.699	275.81	89.540

#1	.00142	-.00091	-.00091	-.00091	.00247	-.00051	.00048
#2	.00218	.00020	-.00073	-.00042	.00327	.00158	.00215

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	-.00081	-.00028	-.00086	.00511	.00106
SDev	.00052	.00011	.00010	.00140	.00002	.00006
%RSD	66.219	13.234	35.777	163.49	.37980	5.4797

#1	.00114	-.00088	-.00021	.00013	.00510	.00102
#2	.00041	-.00073	-.00035	-.00185	.00513	.00110

664 1824

IntStd	1	2	3	4	5	6	7
Mode	Count's	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18512	--	--	--	--	--	--
SDev	74.77654	--	--	--	--	--	--
%RSD	.4039252	--	--	--	--	--	--
#1	18565	--	--	--	--	--	--
#2	18460	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFSF

Operator: RJG

Run Time: 07/24/00 14:48:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1825

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05069	3.5080	2.0492	1.9722	.05275	52.735	.04861
SDev	.00008	.0108	.0065	.0097	.00028	.283	.00028
%RSD	.16495	.30808	.31682	.49208	.54033	.53754	.58567
#1	.05074	3.5156	2.0538	1.9790	.05295	52.936	.04881
#2	.05063	3.5004	2.0446	1.9653	.05255	52.535	.04841
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51142	.20161	.25769	1.1351	1.7880	.50407	.02884
SDev	.00018	.00057	.00081	.0135	.0039	.00088	.00015
%RSD	.03594	.28151	.31445	1.1913	.21907	.17527	.50710
#1	.51155	.20121	.25826	1.1256	1.7908	.50469	.02874
#2	.51129	.20201	.25712	1.1447	1.7853	.50344	.02895
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51837	.50611	.49432	.49825	.00471	.00152	.00258
SDev	.00489	.00324	.00118	.00029	.00073	.00064	.00067
%RSD	.94313	.63940	.23922	.05798	15.544	42.016	25.938
#1	.52183	.50382	.49516	.49804	.00419	.00107	.00211
#2	.51491	.50840	.49349	.49845	.00522	.00197	.00305
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9692	2.0774	2.0414	2.0136	.54082	.51205	
SDev	.0041	.0175	.0103	.0176	.00366	.00194	
%RSD	.20653	.84383	.50643	.87601	.67748	.37979	
#1	1.9664	2.0898	2.0487	2.0260	.54341	.51342	
#2	1.9721	2.0650	2.0341	2.0011	.53822	.51067	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1826

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18246	--	--	--	--	--	--
SDev	2.933388	--	--	--	--	--	--
%RSD	.0160766	--	--	--	--	--	--
#1	18244	--	--	--	--	--	--
#2	18248	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LFDF Operator: RJG
 Run Time: 07/24/00 14:52:55
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

664 1827

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04984	3.4342	2.0057	1.9228	.05155	52.005	.04764
SDev	.00010	.0071	.0080	.0046	.00015	.208	.00030
%RSD	.20278	.20532	.40027	.23895	.28586	.39911	.63853
#1	.04977	3.4392	2.0114	1.9260	.05165	52.152	.04785
#2	.04992	3.4292	2.0000	1.9195	.05144	51.859	.04742
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49947	.19698	.25117	1.1114	1.7649	.49213	.02879
SDev	.00110	.00030	.00023	.0131	.0053	.00078	.00055
%RSD	.21965	.15245	.09215	1.1800	.30049	.15863	1.9124
#1	.50024	.19677	.25133	1.1021	1.7687	.49269	.02840
#2	.49869	.19719	.25100	1.1207	1.7612	.49158	.02918
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50774	.49674	.48043	.48586	.00089	.00154	.00132
SDev	.00320	.00478	.00306	.00364	.00199	.00069	.00020
%RSD	.63082	.96211	.63776	.74819	223.83	44.872	15.118
#1	.51000	.50012	.48259	.48843	-.00052	.00203	.00118
#2	.50547	.49336	.47826	.48329	.00229	.00105	.00147
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9267	2.0262	1.9931	1.9599	.52996	.50023	
SDev	.0144	.0144	.0144	.0007	.00039	.00215	
%RSD	.74496	.70994	.72121	.03497	.07310	.43063	
#1	1.9368	2.0364	2.0032	1.9604	.53023	.50175	
#2	1.9165	2.0160	1.9829	1.9594	.52968	.49871	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1828

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18384	--	--	--	--	--	--
SDev	90.75688	--	--	--	--	--	--
%RSD	.4936765	--	--	--	--	--	--
#1	18320	--	--	--	--	--	--
#2	18448	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LGF

Operator: RJG

Run Time: 07/24/00 14:57:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1829

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.14364	.00114	.16265	-.00013	54.584	.00036
SDev	.00007	.00178	.00001	.00021	.00003	.036	.00009
%RSD	97.298	1.2392	.76684	.12639	23.093	.06641	25.301
#1	.00002	.14489	.00115	.16251	-.00011	54.610	.00043
#2	.00012	.14238	.00114	.16280	-.00015	54.558	.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03651	.00119	-.00252	.15603	45.390	.78348	.00142
SDev	.00028	.00005	.00038	.00736	.040	.00270	.00051
%RSD	.77584	4.2735	15.037	4.7193	.08747	.34459	36.123
#1	.03631	.00115	-.00279	.16123	45.362	.78157	.00106
#2	.03671	.00122	-.00225	.15082	45.419	.78539	.00179
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02908	-.00004	-.00082	-.00056	.00282	-.00198	-.00038
SDev	.00072	.00218	.00104	.00142	.00138	.00209	.00093
%RSD	2.4878	5550.2	126.97	253.25	48.883	105.11	242.61
#1	.02857	.00150	-.00008	.00044	.00185	-.00051	.00027
#2	.02959	-.00158	-.00156	-.00156	.00380	-.00346	-.00104
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00410	.00102	.00205	-.00244	.00309	.01313	
SDev	.00459	.00071	.00200	.00131	.00028	.00001	
%RSD	112.00	69.308	97.766	53.642	9.1648	.05657	
#1	.00734	.00152	.00346	-.00152	.00329	.01314	
#2	.00085	.00052	.00063	-.00337	.00289	.01313	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1830

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18419	--	--	--	--	--	--
SDev	94.57553	--	--	--	--	--	--
%RSD	.5134721	--	--	--	--	--	--
#1	18486	--	--	--	--	--	--
#2	18352	--	--	--	--	--	--

Method: METTRA Sample Name: DG9LKF

Operator: RJG

Run Time: 07/24/00 15:01:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1831**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00048	1.6772	.00546	.02471	-0.00013	54.376	-0.00006
SDev	.00037	.0052	.00184	.00024	.00001	.343	.00005
%RSD	76.854	.30847	33.714	.97794	4.5319	.63123	82.939
#1	-0.00074	1.6809	.00416	.02488	-0.00014	54.618	-0.00009
#2	-0.00022	1.6736	.00676	.02454	-0.00013	54.133	-0.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-0.01000	-0.20000	-0.01000	-0.20000	-0.00500	-5.0000	-0.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00215	.00007	-0.00097	.02912	.51343	.00034	.02916
SDev	.00057	.00028	.00006	.01055	.00108	.00006	.00018
%RSD	26.607	394.94	6.4786	36.220	.21070	17.137	.63603
#1	.00174	-0.00012	-0.00101	.02166	.51420	.00038	.02903
#2	.00255	.00026	-0.00092	.03658	.51267	.00030	.02929
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-0.05000	-0.01000	-0.02500	-0.10000	-5.0000	-0.01500	-0.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00998	.00048	.00088	.00075	.00289	-0.00070	.00049
SDev	.00028	.00090	.00023	.00045	.00134	.00096	.00109
%RSD	2.8072	189.90	25.736	60.598	46.521	137.38	220.58
#1	.00978	.00111	.00104	.00107	.00194	-0.00138	-0.00028
#2	.01018	-0.00016	.00072	.00043	.00384	-0.00002	.00126
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-0.04000			-0.00300			-0.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00301	.00251	.00268	-0.00076	.02688	.00188	
SDev	.00050	.00156	.00087	.00216	.00001	.00005	
%RSD	16.635	62.214	32.644	284.54	.03235	2.7439	
#1	.00337	.00140	.00206	.00077	.02688	.00184	
#2	.00266	.00361	.00329	-0.00229	.02687	.00192	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-0.00500	-0.01000	-0.05000	-0.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18421	--	--	--	--	--	--
SDev	8.521189	--	--	--	--	--	--
%RSD	.0462576	--	--	--	--	--	--
#1	18415	--	--	--	--	--	--
#2	18427	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-8 Operator: RJG
 Run Time: 07/24/00 15:05:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1833**
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0304	23.636	.51050	1.9403	2.1332	52.324	.48885
SDev	.0077	.158	.00093	.0193	.0222	.546	.00334
%RSD	.74530	.66990	.18195	.99299	1.0423	1.0428	.68347
#1	1.0358	23.748	.51116	1.9540	2.1489	52.710	.49121
#2	1.0249	23.524	.50984	1.9267	2.1175	51.938	.48648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9799	1.9894	1.9747	26.266	53.537	2.0212	1.9782
SDev	.0140	.0137	.0159	.216	.498	.0157	.0007
%RSD	.70763	.68896	.80388	.82298	.92946	.77897	.03642
#1	1.9898	1.9991	1.9860	26.419	53.889	2.0323	1.9777
#2	1.9700	1.9797	1.9635	26.113	53.185	2.0100	1.9787
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9787	.50953	.49239	.49810	.54479	.50615	.51901
SDev	.0194	.00068	.00257	.00194	.00389	.00391	.00390
%RSD	.97986	.13238	.52184	.38918	.71403	.77244	.75203
#1	1.9924	.51001	.49421	.49947	.54754	.50891	.52177
#2	1.9650	.50905	.49058	.49673	.54204	.50338	.51625
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.50567	.53205	.52327	.99904	2.0646	1.9750	
SDev	.00024	.00578	.00394	.00755	.0214	.0161	
%RSD	.04772	1.0869	.75249	.75583	1.0341	.81691	
#1	.50584	.53614	.52605	1.0044	2.0797	1.9864	
#2	.50550	.52796	.52048	.99370	2.0495	1.9636	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1834

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18272	--	--	--	--	--	--
SDev	59.29063	--	--	--	--	--	--
%RSD	.3244832	--	--	--	--	--	--
#1	18230	--	--	--	--	--	--
#2	18314	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8

Operator: RJG

Run Time: 07/24/00 15:09:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1835**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.10532	.00014	.00072	.00048	.02552	.00021
SDev	.00007	.00439	.00014	.00021	.00021	.00961	.00009
%RSD	24.352	4.1638	102.68	29.669	43.630	37.638	39.781
#1	.00023	.10221	.00004	.00057	.00033	.01873	.00027
#2	.00033	.10842	.00024	.00087	.00063	.03231	.00015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.00055	-.00349	.01067	.01736	.00061	.00605
SDev	.00012	.00013	.00009	.00548	.00744	.00016	.00243
%RSD	13.813	24.414	2.6346	51.372	42.835	26.883	40.206
#1	.00077	.00045	-.00356	.00680	.01210	.00049	.00777
#2	.00093	.00064	-.00343	.01455	.02262	.00072	.00433
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	-.00187	.00070	-.00016	.00236	-.00022	.00064
SDev	.00093	.00164	.00009	.00061	.00036	.00014	.00003
%RSD	141.78	87.621	13.312	387.74	15.124	62.580	3.9456
#1	.00132	-.00071	.00076	.00027	.00211	-.00013	.00062
#2	-.00000	-.00303	.00063	-.00059	.00261	-.00032	.00065
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00030	-.00071	-.00057	.00239	.00106	.00204	
SDev	.00094	.00098	.00096	.00039	.00045	.00006	
%RSD	314.68	137.44	168.12	16.152	42.430	3.1735	
#1	-.00096	-.00140	-.00126	.00266	.00074	.00200	
#2	.00037	-.00002	.00011	.00212	.00137	.00209	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1836

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18406	--	--	--	--	--	--
SDev	38.75000	--	--	--	--	--	--
%RSD	.2105349	--	--	--	--	--	--
#1	18433	--	--	--	--	--	--
#2	18378	--	--	--	--	--	--

Method: METTRA Sample Name: DGKGHB

Operator: RJG

Run Time: 07/24/00 15:13:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1837**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.10959	.00096	.00036	-.00025	.00636	.00009
SDev	.00010	.00095	.00076	.00011	.00011	.00415	.00001
%RSD	29.372	.86445	78.276	29.408	42.155	65.253	6.8265
#1	.00042	.11026	.00043	.00029	-.00033	.00343	.00009
#2	.00028	.10892	.00150	.00044	-.00018	.00930	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.00014	-.00314	.02554	.00801	.00029	.00148
SDev	.00017	.00024	.00057	.00114	.00390	.00012	.00010
%RSD	67.007	166.57	18.217	4.4843	48.617	40.587	6.4216
#1	.00013	-.00003	-.00354	.02473	.00526	.00021	.00155
#2	.00037	.00031	-.00273	.02635	.01077	.00038	.00141
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00178	.00091	-.00104	-.00039	.00339	.00002	.00114
SDev	.00092	.00050	.00062	.00024	.00063	.00012	.00029
%RSD	51.770	55.492	59.020	61.719	18.679	722.93	25.605
#1	.00113	.00055	-.00061	-.00022	.00383	.00010	.00135
#2	.00243	.00126	-.00148	-.00057	.00294	-.00007	.00093
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00413	.00213	.00280	-.00080	.00097	.00144	
SDev	.00257	.00412	.00189	.00115	.00030	.00006	
%RSD	62.110	193.23	67.627	145.04	30.815	3.8515	
#1	.00232	.00504	.00413	-.00161	.00118	.00140	
#2	.00595	-.00078	.00146	.00002	.00076	.00148	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1838

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18048	--	--	--	--	--	--
SDev	41.40165	--	--	--	--	--	--
%RSD	.2294022	--	--	--	--	--	--
#1	18077	--	--	--	--	--	--
#2	18018	--	--	--	--	--	--

07/24/00 03:22:03 PM

Analysis Report

Method: METTRA Sample Name: DGKGHC

Operator: RJG

Run Time: 07/24/00 15:17:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04965	2.0261	1.9537	1.8898	.05076	50.960	.04668
SDev	.00084	.0080	.0134	.0140	.00036	.454	.00024
%RSD	1.6919	.39567	.68710	.74144	.70273	.89005	.51838
#1	.05025	2.0317	1.9632	1.8997	.05101	51.280	.04685
#2	.04906	2.0204	1.9442	1.8799	.05050	50.639	.04651
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47912	.19383	.24008	.94373	51.916	.48600	.95644
SDev	.00461	.00211	.00206	.00186	.469	.00467	.00650
%RSD	.96175	1.0901	.85972	.19729	.90281	.96105	.67974
#1	.48238	.19532	.24154	.94241	52.248	.48931	.96103
#2	.47586	.19233	.23862	.94505	51.585	.48270	.95184
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47798	.48560	.47137	.47611	.51252	.47766	.48927
SDev	.00527	.00937	.00680	.00766	.00670	.00197	.00355
%RSD	1.1025	1.9298	1.4426	1.6081	1.3071	.41307	.72492
#1	.48170	.49222	.47618	.48152	.51726	.47906	.49178
#2	.47425	.47897	.46656	.47069	.50779	.47627	.48676
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9057	2.0210	1.9826	1.9019	.50295	.48380	
SDev	.0191	.0279	.0249	.0067	.00620	.00367	
%RSD	1.0013	1.3793	1.2583	.35107	1.2320	.75928	
#1	1.9192	2.0407	2.0002	1.9066	.50733	.48640	
#2	1.8922	2.0012	1.9649	1.8972	.49856	.48121	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

664 1840

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18424	--	--	--	--	--	--
SDev	173.0299	--	--	--	--	--	--
%RSD	.9391317	--	--	--	--	--	--
#1	18302	--	--	--	--	--	--
#2	18547	--	--	--	--	--	--

Method: METTRA Sample Name: DG8GW

Operator: RJG

Run Time: 07/24/00 15:22:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 664 1841

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.37474	.00209	.05160	.00012	7.3011	.00137
SDev	.00001	.00099	.00228	.00007	.00007	.0177	.00017
%RSD	1.0557	.26489	108.78	.13710	58.592	.24298	12.721
#1	.00062	.37544	.00048	.05165	.00007	7.3137	.00149
#2	.00061	.37403	.00370	.05155	.00017	7.2886	.00124
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00371	.00562	.00177	.05752	1.3227	.08151	.00355
SDev	.00002	.00002	.00016	.00186	.0082	.00011	.00090
%RSD	.41661	.36301	8.9436	3.2329	.62262	.13287	25.284
#1	.00372	.00560	.00188	.05621	1.3285	.08158	.00419
#2	.00370	.00563	.00166	.05884	1.3168	.08143	.00292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00909	-.00007	.00033	.00019	.00280	.00280	.00280
SDev	.00102	.00051	.00105	.00087	.00232	.00162	.00031
%RSD	11.167	763.49	324.43	448.03	83.098	57.984	11.063
#1	.00981	.00029	.00107	.00081	.00444	.00165	.00258
#2	.00837	-.00043	-.00042	-.00042	.00115	.00395	.00302
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00152	.00087	.00109	-.00078	.00044	.17509	
SDev	.00008	.00188	.00128	.00044	.00015	.00024	
%RSD	5.3859	216.49	118.10	55.939	33.204	.13648	
#1	.00146	-.00046	.00018	-.00047	.00055	.17526	
#2	.00158	.00220	.00200	-.00109	.00034	.17492	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1842

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18365	--	--	--	--	--	--
SDev	9.403691	--	--	--	--	--	--
%RSD	.0512034	--	--	--	--	--	--
#1	18372	--	--	--	--	--	--
#2	18359	--	--	--	--	--	--

Method: METTRA Sample Name: DG8GWP5

Operator: RJG

Run Time: 07/24/00 15:26:17

664 1843

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.15675	.00010	.01024	-.00004	1.4451	.00017
SDev	.00054	.00444	.00002	.00001	.00002	.0013	.00008
%RSD	314.41	2.8347	24.237	.06384	58.790	.09143	44.473

#1	.00055	.15989	.00012	.01023	-.00005	1.4442	.00023
#2	-.00021	.15361	.00008	.01024	-.00002	1.4460	.00012

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00117	.00103	-.00310	.01330	.26439	.01628	.00064
SDev	.00023	.00002	.00032	.00472	.00074	.00003	.00000
%RSD	20.041	1.6033	10.207	35.501	.27982	.15838	.40173

#1	.00134	.00104	-.00287	.01663	.26386	.01630	.00064
#2	.00100	.00102	-.00332	.00996	.26491	.01626	.00064

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00123	-.00104	.00020	-.00022	.00340	-.00007	.00108
SDev	.00044	.00075	.00078	.00027	.00279	.00084	.00037
%RSD	36.141	72.447	399.72	124.87	82.005	1151.5	33.947

#1	.00154	-.00157	.00075	-.00003	.00537	-.00067	.00134
#2	.00092	-.00051	-.00036	-.00041	.00143	.00052	.00082

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00383	-.00207	-.00010	.00067	.00043	.03447
SDev	.00166	.00113	.00131	.00010	.00015	.00010
%RSD	43.283	54.764	1259.8	14.280	34.845	.29224

#1	.00266	-.00287	-.00103	.00074	.00053	.03440
#2	.00501	-.00127	.00082	.00061	.00032	.03454

664 1844

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18455	--	--	--	--	--	--
SDev	22.48517	--	--	--	--	--	--
%RSD	.1218381	--	--	--	--	--	--
#1	18471	--	--	--	--	--	--
#2	18439	--	--	--	--	--	--

Method: METTRA Sample Name: DG8GWS
 Run Time: 07/24/00 15:30:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1845

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04890	2.3020	1.9448	1.9142	.05045	57.806	.04718
SDev	.00019	.0057	.0069	.0069	.00024	.295	.00023
%RSD	.38733	.24978	.35597	.35909	.47517	.51062	.49845
#1	.04903	2.3060	1.9497	1.9191	.05062	58.015	.04735
#2	.04876	2.2979	1.9399	1.9093	.05028	57.598	.04701
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47604	.20230	.24144	.97524	53.061	.55907	.95121
SDev	.00051	.00037	.00100	.00709	.231	.00176	.00243
%RSD	.10789	.18152	.41297	.72742	.43451	.31419	.25574
#1	.47640	.20256	.24214	.98026	53.224	.56031	.94949
#2	.47568	.20204	.24073	.97022	52.898	.55783	.95293
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48196	.47884	.46146	.46725	.51068	.47704	.48824
SDev	.00470	.00248	.00316	.00293	.00106	.00054	.00001
%RSD	.97519	.51730	.68518	.62789	.20759	.11316	.00145
#1	.48529	.48059	.46369	.46932	.51143	.47666	.48824
#2	.47864	.47709	.45922	.46517	.50993	.47742	.48825
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.8850	1.9859	1.9523	1.8983	.49568	.63805	
SDev	.0052	.0181	.0103	.0096	.00120	.00202	
%RSD	.27616	.91016	.52873	.50420	.24287	.31592	
#1	1.8813	1.9987	1.9596	1.9051	.49653	.63948	
#2	1.8886	1.9731	1.9450	1.8915	.49483	.63663	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1846

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18601	--	--	--	--	--	--
SDev	9.863587	--	--	--	--	--	--
%RSD	.0530281	--	--	--	--	--	--
#1	18608	--	--	--	--	--	--
#2	18594	--	--	--	--	--	--

Method: METTRA Sample Name: DG8GWD
 Run Time: 07/24/00 15:34:38
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1847

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05110	2.3813	2.0158	1.9819	.05214	58.850	.04894
SDev	.00019	.0017	.0003	.0016	.00001	.022	.00002
%RSD	.36724	.07323	.01351	.07884	.02221	.03822	.03698
#1	.05123	2.3826	2.0160	1.9830	.05214	58.866	.04895
#2	.05097	2.3801	2.0156	1.9808	.05213	58.834	.04892
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49525	.20402	.25147	1.0172	54.183	.57885	.97625
SDev	.00028	.00007	.00058	.0015	.019	.00012	.00227
%RSD	.05748	.03297	.23039	.15057	.03497	.02018	.23255
#1	.49545	.20397	.25106	1.0161	54.196	.57894	.97464
#2	.49505	.20407	.25188	1.0183	54.170	.57877	.97786
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49567	.49989	.48216	.48806	.52475	.48899	.50090
SDev	.00162	.00202	.00058	.00106	.00276	.00290	.00285
%RSD	.32661	.40392	.12001	.21685	.52583	.59280	.56944
#1	.49452	.50132	.48257	.48881	.52670	.49104	.50292
#2	.49681	.49847	.48175	.48731	.52280	.48694	.49888
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9723	2.0660	2.0348	1.9731	.51443	.65986	
SDev	.0056	.0166	.0129	.0052	.00077	.00140	
%RSD	.28428	.80167	.63467	.26407	.14953	.21254	
#1	1.9763	2.0777	2.0440	1.9767	.51497	.66085	
#2	1.9684	2.0543	2.0257	1.9694	.51388	.65887	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1848

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18395	--	--	--	--	--	--
SDev	38.14786	--	--	--	--	--	--
%RSD	.2073831	--	--	--	--	--	--
#1	18368	--	--	--	--	--	--
#2	18422	--	--	--	--	--	--

Method: METTRA Sample Name: DG8H3
 Run Time: 07/24/00 15:38:48
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1849

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.64767	.00665	.02754	.00002	22.611	.00065
SDev	.00007	.00245	.00132	.00020	.00002	.233	.00010
%RSD	18.953	.37800	19.790	.71866	87.978	1.0322	15.552
#1	.00043	.64594	.00758	.02768	.00004	22.776	.00073
#2	.00033	.64940	.00572	.02740	.00001	22.446	.00058
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00647	.00892	.00748	.11730	4.7792	.13482	.00373
SDev	.00023	.00047	.00071	.00299	.0523	.00131	.00080
%RSD	3.6309	5.2263	9.4930	2.5533	1.0947	.97219	21.424
#1	.00630	.00925	.00798	.11518	4.8162	.13574	.00429
#2	.00663	.00859	.00698	.11942	4.7422	.13389	.00316
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01268	.00178	-.00130	-.00028	.00326	.00227	.00260
SDev	.00061	.00068	.00001	.00023	.00106	.00093	.00026
%RSD	4.8540	38.244	.73415	84.189	32.554	40.752	10.152
#1	.01311	.00226	-.00130	-.00011	.00251	.00292	.00279
#2	.01224	.00130	-.00131	-.00044	.00401	.00162	.00241
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00326	.00173	.00224	.00272	.00130	.12786	
SDev	.00185	.00010	.00069	.00231	.00045	.00107	
%RSD	56.864	6.0203	30.645	84.778	34.803	.83449	
#1	.00457	.00180	.00272	.00435	.00163	.12862	
#2	.00195	.00166	.00175	.00109	.00098	.12711	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1850

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18394	--	--	--	--	--	--
SDev	172.1446	--	--	--	--	--	--
%RSD	.9358519	--	--	--	--	--	--
#1	18273	--	--	--	--	--	--
#2	18516	--	--	--	--	--	--

Method: METTRA Sample Name: DG8H6
 Run Time: 07/24/00 15:42:59
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Operator: RJG

664 1851

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.47223	.00145	.02454	.00039	3.1360	.00023
SDev	.00064	.00770	.00056	.00014	.00005	.0069	.00005
%RSD	150.04	1.6305	38.741	.57118	13.153	.22022	19.833
#1	.00088	.47768	.00105	.02464	.00036	3.1409	.00020
#2	-.00003	.46679	.00185	.02444	.00043	3.1311	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01315	.00251	-.00184	.04775	.83714	.06858	.00068
SDev	.00010	.00007	.00038	.01327	.00292	.00005	.00006
%RSD	.74359	2.7775	20.791	27.780	.34825	.06587	8.3211
#1	.01308	.00256	-.00157	.05713	.83920	.06861	.00072
#2	.01322	.00246	-.00211	.03837	.83508	.06855	.00064
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00307	.00071	-.00030	.00004	.00414	-.00051	.00104
SDev	.00030	.00075	.00006	.00021	.00068	.00031	.00002
%RSD	9.6234	104.61	19.560	544.33	16.371	59.929	1.9307
#1	.00328	.00124	-.00034	.00019	.00366	-.00030	.00102
#2	.00287	.00019	-.00026	-.00011	.00462	-.00073	.00105
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00075	.00043	.00004	.00041	.00065	.00881	
SDev	.00143	.00026	.00065	.00055	.00074	.00001	
%RSD	191.09	60.953	1655.6	135.13	114.63	.06104	
#1	.00026	.00062	.00050	.00002	.00117	.00881	
#2	-.00176	.00025	-.00042	.00079	.00012	.00880	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1852

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18460	--	--	--	--	--	--
SDev	55.22476	--	--	--	--	--	--
%RSD	.2991639	--	--	--	--	--	--
#1	18421	--	--	--	--	--	--
#2	18499	--	--	--	--	--	--

Method: METTRA Sample Name: DG8HA

Operator: RJG

Run Time: 07/24/00 15:47:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

664 1853

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.64425	.00577	.02701	-.00006	23.461	.00070
SDev	.00030	.00397	.00129	.00011	.00009	.126	.00010
%RSD	122.85	.61614	22.437	.38853	136.57	.53865	13.928
#1	.00045	.64144	.00485	.02709	-.00012	23.550	.00063
#2	.00003	.64706	.00668	.02694	-.00000	23.371	.00077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00642	.00858	.00814	.10215	4.9136	.13535	.00217
SDev	.00058	.00031	.00019	.00370	.0253	.00058	.00028
%RSD	9.0919	3.6173	2.3010	3.6241	.51460	.43091	12.878
#1	.00683	.00880	.00827	.09953	4.9315	.13576	.00237
#2	.00600	.00836	.00801	.10477	4.8958	.13494	.00197
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01275	.00146	-.00067	.00004	.00382	.00156	.00232
SDev	.00003	.00126	.00050	.00009	.00225	.00182	.00196
%RSD	.23127	86.440	74.116	226.76	58.944	116.25	84.765
#1	.01277	.00235	-.00102	.00010	.00542	.00285	.00371
#2	.01273	.00057	-.00032	-.00002	.00223	.00028	.00093
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00272	.00358	.00329	-.00125	.00329	.13103	
SDev	.00150	.00007	.00055	.00226	.00002	.00064	
%RSD	55.035	1.9861	16.596	180.87	.73782	.48963	
#1	.00166	.00353	.00291	-.00285	.00331	.13148	
#2	.00378	.00363	.00368	.00035	.00327	.13057	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1854

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18373	--	--	--	--	--	--
SDev	149.3763	--	--	--	--	--	--
%RSD	.8130086	--	--	--	--	--	--
#1	18268	--	--	--	--	--	--
#2	18479	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-9

Operator: RJG

Run Time: 07/24/00 15:51:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1855**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0343	23.721	.51303	1.9537	2.1458	52.530	.48880
SDev	.0061	.123	.00313	.0141	.0207	.484	.00382
%RSD	.59418	.51981	.60964	.72294	.96642	.92050	.78259
#1	1.0386	23.808	.51524	1.9637	2.1605	52.872	.49150
#2	1.0299	23.634	.51081	1.9437	2.1311	52.188	.48609
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9758	1.9870	1.9866	26.343	53.795	2.0274	1.9821
SDev	.0126	.0123	.0136	.128	.446	.0152	.0016
%RSD	.63954	.62063	.68533	.48753	.82880	.75089	.08236
#1	1.9847	1.9957	1.9963	26.433	54.111	2.0382	1.9810
#2	1.9669	1.9782	1.9770	26.252	53.480	2.0166	1.9833
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9797	.50167	.49206	.49526	.54985	.50394	.51923
SDev	.0210	.00006	.00360	.00238	.00328	.00036	.00085
%RSD	1.0603	.01112	.73192	.48128	.59662	.07107	.16438
#1	1.9945	.50163	.49460	.49694	.55217	.50369	.51983
#2	1.9649	.50171	.48951	.49357	.54753	.50419	.51862
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.50436	.53270	.52326	.99734	2.0711	1.9763	
SDev	.00389	.00615	.00540	.00023	.0203	.0141	
%RSD	.77179	1.1538	1.0312	.02345	.97911	.71317	
#1	.50711	.53705	.52708	.99717	2.0855	1.9863	
#2	.50161	.52835	.51945	.99750	2.0568	1.9663	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

664 1856

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18142	--	--	--	--	--	--
SDev	93.51487	--	--	--	--	--	--
%RSD	.5154514	--	--	--	--	--	--
#1	18076	--	--	--	--	--	--
#2	18208	--	--	--	--	--	--

Method: METTRA Sample Name: CCB9

Operator: RJG

Run Time: 07/24/00 15:55:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP **664 1857**

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	.13237	.00032	.00082	.00036	.01320	.00021
SDev	.00006	.00065	.00008	.00040	.00031	.00890	.00006
%RSD	21.541	.49418	25.910	49.361	85.772	67.370	29.791
#1	.00022	.13283	.00026	.00053	.00014	.00691	.00026
#2	.00029	.13190	.00038	.00110	.00058	.01949	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00072	-.00356	.02059	.01743	.00061	.00652
SDev	.00041	.00015	.00040	.00770	.01086	.00032	.00165
%RSD	67.775	21.206	11.271	37.378	62.296	53.058	25.385
#1	.00031	.00061	-.00384	.01515	.00975	.00038	.00769
#2	.00089	.00082	-.00327	.02603	.02511	.00084	.00535
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00040	-.00109	.00053	-.00001	.00308	.00080	.00156
SDev	.00025	.00056	.00070	.00028	.00063	.00062	.00020
%RSD	60.702	50.981	133.03	2476.6	20.443	77.401	12.933
#1	-.00023	-.00070	.00003	-.00021	.00264	.00123	.00170
#2	-.00058	-.00148	.00102	.00019	.00353	.00036	.00142
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00235	-.00115	.00002	-.00028	.00138	.00118	
SDev	.00251	.00040	.00057	.00338	.00060	.00022	
%RSD	106.60	34.463	2993.9	1205.1	43.375	19.071	
#1	.00058	-.00087	-.00039	.00211	.00096	.00102	
#2	.00413	-.00143	.00042	-.00267	.00180	.00133	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

664 1858

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18309	--	--	--	--	--	--
SDev	6.681607	--	--	--	--	--	--
%RSD	.0364935	--	--	--	--	--	--
#1	18314	--	--	--	--	--	--
#2	18304	--	--	--	--	--	--

Metals Preparation Log



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

664 1859

6385

Method: 3010A	Matrix: WATER	Start Time: 0900	SDG: _____	Balance# _____	Reagents: 3ml conc HNO3 5ml 1:1 HCl
Analyst: Melissa Nabors	Date: 7-21-00	Lot Number: COG-200210	Lab Lot No. (book, page, line): 09101-77-14, 0014-K2-6, 0014-15-A	MS	0014-176-2
Reviewed By: <i>Melissa Nabors</i>	Date: 7-21-00	MS-A, MS-B, MS-C, MS-D, MS-E, MS-F, MS-G, MS-H, MS-I, MS-J, MS-K, MS-L, MS-M, MS-N, MS-O, MS-P, MS-Q, MS-R, MS-S, MS-T, MS-U, MS-V, MS-W, MS-X, MS-Y, MS-Z	MS-A, MS-B, MS-C, MS-D, MS-E, MS-F, MS-G, MS-H, MS-I, MS-J, MS-K, MS-L, MS-M, MS-N, MS-O, MS-P, MS-Q, MS-R, MS-S, MS-T, MS-U, MS-V, MS-W, MS-X, MS-Y, MS-Z		

Sample ID	Init Wt/Vol g/mL	Final Vol mL	Comments	Color		Clarity		Texture		Artifacts	Artifact Codes
				Pre	Post	Pre	Post	Pre	Post		
1. DGJLM S	50ml	50ml									S=Stones O=Organic (plant mat'l) W=free H2O G=Glass M=Metal Fragments R=Rubber/Plastic C=Cloth P=Paper I=Insects
2. DGJLM D											
3. DGJLM B											
4. DGJLM C											
5. DGJLM C											
6. DGJLM C											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											
21.											
22.											
23.											
24.											

Digestate(s)	Digestate(s) Received			Digestate(s) Reblanched			Hot plate / Block Temp	Correction Factor	Color
	Date	Time	Analyst	Date	Time	Analyst			
ALL ABOVE	7-21-00	14:20	Melissa Nabors	7-21-00	14:25	Melissa Nabors	95°C	-0.8°C	R=Red BL=Blue BR=Brown BLK=Black Y=Yellow O=Orange
ALL ABOVE	7-21-00	07:30	Melissa Nabors	7-21-00	09:25	Melissa Nabors	95°C	-0.8°C	V=Violet P=Pink W=White GY=Gray GN=Green C=Colorless
ALL ABOVE	7-21-00	10:00	Melissa Nabors	7-21-00	13:30	Melissa Nabors			

REQUESTED BY: MAHANM

METHOD: QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
8E CLP1	DGJ6M	_____	251643	399411	I-05-QM	COG200210	001		WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<u>AC</u>	<u>Melissa Mahan</u>	<u>7-21-00 08:30</u>
<u>Melissa Mahan</u>	<u>AC</u>	<u>7-21-00 11:00</u>

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

STL-Pittsburgh Atomic Absorption Data for Mercury

Instrument: PS200HG

Analyst Name: William D. Baumst
William D. Baumst

Date of Analysis: 7-24-00

File ID: 0724HGA

Matrix: WATER

Lot Number/SDG

Method

COG150160

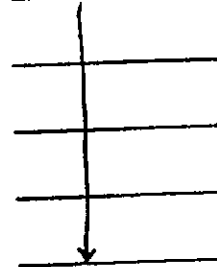
7470A

COG200133

COG200210

COG140252 CA002

COG190128 (TCLP)



William a Hoyle 7-04-00
Jeffrey Sarast 7-24-00

10:27:25 24 Jul 2000

Folder: 0724HGA
Protocol: HGMET

664 1862

Page 48

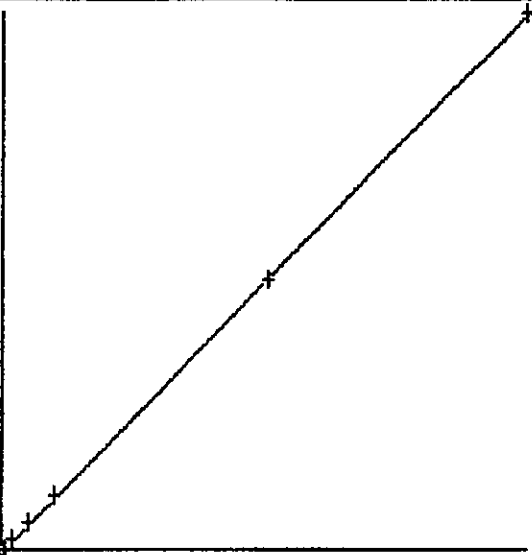
Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1								
				Seq: 0				10:27:25 24 Jul 2000 HG
Hg	.000	ppb	11250					
*** Standard: 2 Rep: 1								
				Seq: 1				10:29:04 24 Jul 2000 HG
Hg	.200	ppb	31268		0014-191-12			
*** Standard: 3 Rep: 1								
				Seq: 2				10:30:51 24 Jul 2000 HG
Hg	.500	ppb	71844		0014-191-13			
*** Standard: 4 Rep: 1								
				Seq: 3				10:32:19 24 Jul 2000 HG
Hg	1.00	ppb	138348		0014-191-14			
*** Standard: 5 Rep: 1								
				Seq: 4				10:33:54 24 Jul 2000 HG
Hg	5.00	ppb	677792		0014-192-1			
*** Standard: 6 Rep: 1								
				Seq: 5				10:35:46 24 Jul 2000 HG
Hg	10.0	ppb	1333445		0014-192-2			

William a Hoyle 7-24-00
 Geoffrey. Smart 7-24-00

664 1863

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
 RunFold: 0724HGA Seq: 6 Batch:
 Prnt: R/T On Pump: On
 Rev: 4.2 10:36:24 24 Jul 2000 Xmit: Off Gas: 0.30 LPM
 State: Idle User: WAH/GOF A/S: On

CALIBRATION: Line proto: HGMET
 hg accepted
 Conc. Calc. Dev. ->linear
 S1 .000 .028 .028 Quadratic
 S2 .200 .179 -.021 Wtdlinear
 S3 .500 .404 -.016 C
 S4 1.00 .905 -.015 Accept o
 S5 5.00 5.04 .045 n
 S6 10.0 9.98 -.020 c
 A .0000000 r .999974
 B 7.52604e-6 C -5.67270e-2



	Mean	SD	Mean
S1	11250	0	11250
S2	31268	0	31268
S3	71844	0	71844
S4	130340	0	130340
S5	677792	0	677792
S6	1333445	0	1333445

New cal coefficients stored

William a Hoyle 7-24-00
Dufford, Brent

10:38:45 24 Jul 2000

Folder: 0724HGA
Protocol: HGMET

664 1864 Page 49

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV5-1					Seq: 6	10:38:45 24 Jul 2000	HG	
Hg	2.52	ppb	342906		0014-192-3			
*** Sample ID: ICB1					Seq: 7	10:40:11 24 Jul 2000	HG	
Hg	-.006	ppb	6714					
*** Sample ID: CCV5-1					Seq: 8	10:41:41 24 Jul 2000	HG	
Hg	5.06	ppb	680454		0014-192-4			
*** Sample ID: CCB1					Seq: 9	10:43:17 24 Jul 2000	HG	
Hg	-.027	ppb	4001					
*** Sample ID: DGNK1B					Seq: 10	10:45:12 24 Jul 2000	HG	
Hg	.003	ppb	7926					
*** Sample ID: DGNK1C					Seq: 11	10:46:49 24 Jul 2000	HG	
Hg	2.57	ppb	348643		0014-192-5			
*** Sample ID: DGA45					Seq: 12	10:48:17 24 Jul 2000	HG	
Hg	.811	ppb	115224					
*** Sample ID: DGA48					Seq: 13	10:49:54 24 Jul 2000	HG	
Hg	.934	ppb	131642					
*** Sample ID: DGA50					Seq: 14	10:51:35 24 Jul 2000	HG	
Hg	.155	ppb	28163					
*** Sample ID: DGHAD					Seq: 15	10:53:00 24 Jul 2000	HG	
Hg	.022	ppb	10484					
*** Sample ID: DGHAJ					Seq: 16	10:54:57 24 Jul 2000	HG	
Hg	.038	ppb	12552					
*** Sample ID: DGHAK					Seq: 17	10:56:32 24 Jul 2000	HG	
Hg	.018	ppb	9946					

10:57:59 24 Jul 2000

Folder: 0724HGA
Protocol: HGMET

Page 50

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DGHAL					Seq: 18		10:57:59 24 Jul 2000	HG
Hg	.104	ppb	21393					
*** Sample ID: DGHAQ					Seq: 19		10:59:49 24 Jul 2000	HG
Hg	.091	ppb	19565					
*** Sample ID: CCV5-2					Seq: 20		11:01:46 24 Jul 2000	HG
Hg	5.10	ppb	684550					
*** Sample ID: CCB2					Seq: 21		11:03:35 24 Jul 2000	HG
Hg	-.007	ppb	6607					
*** Sample ID: DGHAR					Seq: 22		11:05:00 24 Jul 2000	HG
Hg	.015	ppb	9550					
*** Sample ID: DGHCO					Seq: 23		11:06:45 24 Jul 2000	HG
Hg	.023	ppb	10579					
*** Sample ID: DGJ6M					Seq: 24		11:08:50 24 Jul 2000	HG
Hg	-.000	ppb	7501					
*** Sample ID: DGJ6MS					Seq: 25		11:10:26 24 Jul 2000	HG
Hg	1.06	ppb	148576					SP.REC. 106%
*** Sample ID: DGJ6MD					Seq: 26		11:12:14 24 Jul 2000	HG
Hg	1.06	ppb	147891					SP.REC. 106%
*** Sample ID: DGNK3B					Seq: 27		11:13:52 24 Jul 2000	HG
Hg	.012	ppb	9148					
*** Sample ID: DGNK3C					Seq: 28		11:15:23 24 Jul 2000	HG
Hg	2.58	ppb	349804					
*** Sample ID: DG8GW					Seq: 29		11:16:49 24 Jul 2000	HG
Hg	-.008	ppb	6485					

6014-192-6

11:18:14 24 Jul 2000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: D68GWS								
				Seq: 30		11:18:14 24 Jul 2000	HG	
Hg	1.09	ppb	152057					SP.REC. 109%
*** Sample ID: D68GWD								
				Seq: 31		11:20:01 24 Jul 2000	HG	
Hg	1.09	ppb	152421					SP.REC. 109%
*** Sample ID: CCV5-3								
				Seq: 32		11:21:41 24 Jul 2000	HG	
Hg	5.20	ppb	698825					
*** Sample ID: CCB3								
				Seq: 33		11:23:27 24 Jul 2000	HG	
Hg	.011	ppb	8996					
*** Sample ID: D68H3								
				Seq: 34		11:25:07 24 Jul 2000	HG	
Hg	.015	ppb	9520					
*** Sample ID: D68H6								
				Seq: 35		11:26:32 24 Jul 2000	HG	
Hg	.027	ppb	11115					
*** Sample ID: D68HA								
				Seq: 36		11:28:18 24 Jul 2000	HG	
Hg	.004	ppb	8131					
*** Sample ID: DGNK5BT								
				Seq: 37		11:29:54 24 Jul 2000	HG	
Hg	-.015	ppb	5540					
*** Sample ID: DGNK5CT								
				Seq: 38		11:31:39 24 Jul 2000	HG	
Hg	2.67	ppb	361819					0014-192-7
*** Sample ID: DGKHEBT								
				Seq: 39		11:33:10 24 Jul 2000	HG	
Hg	.053	ppb	14577					
*** Sample ID: DGF35T								
				Seq: 40		11:35:08 24 Jul 2000	HG	
Hg	.038	ppb	12623					
*** Sample ID: DGF37T								
				Seq: 41		11:36:43 24 Jul 2000	HG	
Hg	.097	ppb	20368					

11:38:09 24 Jul 2000

Folder: 0724HGA

Page 52

Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DGF39T					Seq: 42			11:38:09 24 Jul 2000 HG
Hg	.050	ppb	14204					
*** Sample ID: DGF39ST					Seq: 43			11:39:34 24 Jul 2000 HG
Hg	5.30	ppb	711691					
*** Sample ID: CCV5-4					Seq: 44			11:41:11 24 Jul 2000 HG
Hg	5.13	ppb	689502					
*** Sample ID: CCB4					Seq: 45			11:43:00 24 Jul 2000 HG
Hg	.009	ppb	8766					
*** Sample ID: DGF39DT					Seq: 46			11:44:28 24 Jul 2000 HG
Hg	5.97	ppb	800595					
*** Sample ID: CCV5-5					Seq: 47			11:45:55 24 Jul 2000 HG
Hg	5.11	ppb	686223					
*** Sample ID: CCB5					Seq: 48			11:47:33 24 Jul 2000 HG
Hg	-.039	ppb	2377					

SP. REC.
105%SP. REC.
113%END OF ANALYSIS
WAH
7-24-00

William a Hoyle 7-24-00
Geoffrey D. Braust 7-24-00

664 1868

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS		
RunFold: 0724HGA	Seq: 0	Batch:	
	Prnt: R/T On	Pump: Off	
	Rev: 4.2	08:11:10 24 Jul 2000	Xmit: Off Gas: LPM
State: Idle		User: WAH/GOF	A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1

cup ID	Extended id	Weight	Volume	Macro	check macros
1	ICV5-1	1.0000	1.0000		
2	ICB1	1.0000	1.0000		
3	CCV5-1	1.0000	1.0000		
4	CCB1	1.0000	1.0000		
5	DGNK1B	1.0000	1.0000		
6	DGNK1C	1.0000	1.0000		
7	DGA45	1.0000	1.0000		
8	DGA48	1.0000	1.0000		
9	DGA50	1.0000	1.0000		
10	DGHAD	1.0000	1.0000		
11	DGHAJ	1.0000	1.0000		
12	DGHAK	1.0000	1.0000		
13	DGHAL 25 ML	1.0000	1.0000		
14	DGHAQ	1.0000	1.0000		
15	CCV5-2	1.0000	1.0000		

PgDn

Cup 1 ID: ICV5-1	Cell down mode Ins to switch
------------------	------------------------------

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS		
RunFold: 0724HGA	Seq: 0	Batch:	
	Prnt: R/T On	Pump: Off	
State: Idle	Rev: 4.2	08:12:24 24 Jul 2000	Xmit: Off Gas: LPM
		User: WAH/GDF	A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp

cup ID	Extended id	Weight	Volume	Macro	check macros
16	CCB2	1.0000	1.0000		
17	DGHAR	1.0000	1.0000		
18	DGHCO	1.0000	1.0000		
19	DGJ6M	1.0000	1.0000		
20	DGJ6MS	1.0000	1.0000		
21	DGJ6MD	1.0000	1.0000		
22	DGNK3B	1.0000	1.0000		
23	DGNK3C	1.0000	1.0000		
24	DGBGW	1.0000	1.0000		
25	DGBGWS	1.0000	1.0000		
26	DGBGWD	1.0000	1.0000		
27	CCV5-3	1.0000	1.0000		
28	CCB3	1.0000	1.0000		
29	DGBH3	1.0000	1.0000		
30	DGBH6	1.0000	1.0000		

PgDn

Cup 16 ID: CCB2	Cell down mode Ins to switch
-----------------	------------------------------

664 1870

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS
RunFold: 0724HGA	Seq: 0 Batch:
	Prnt: R/T On
State: Idle	Rev: 4.2 08:12:26 24 Jul 2000
	Pump: Off
	Xmit: Off Gas: LPM
	User: WAH/GDF A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp

cup ID	Extended id	Weight	Volume	Macro	check macros
31	DGBHA	1.0000	1.0000		
32	DGNK5BT	1.0000	1.0000		
33	DGNK5CT	1.0000	1.0000		
34	DGKHEBT	1.0000	1.0000		
35	DGF35T	1.0000	1.0000		
36	DGF37T	1.0000	1.0000		
37	DGF39T	1.0000	1.0000		
38	DGF39ST	1.0000	1.0000		
39	CCV5-4	1.0000	1.0000		
40	CCB4	1.0000	1.0000		
41	DGF39DT	1.0000	1.0000		
42	CCV5-5	1.0000	1.0000		
43	CCB5	1.0000	1.0000		
44		1.0000	1.0000		

PgDn

Cup 31 ID: DGBHA	Cell down mode Ins to switch
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Hg Digestion Log

T.81799

Quanterra Incorporated
 450 William Pitt Way
 Pittsburgh, Pennsylvania 15238
 412.826-5477 FAX: 412.826-5571



QUA-4189 PIPET # H31605

Serial Number 082 Log Book Number 96-MI-579 Start Time 08:55-209

Sample ID	Date Rec'd	Prep Date	Prepared By	WVVol	Sample Type	Run Date	Comments
1. STD0	N/A	7-24-00	WAH / G.O.F.	100ml	WATER	7-24-00	N/A
2. STD1							0014-191-12
3. STD2							0014-191-13
4. STD3							0014-191-14
5. STD4							0014-192-1
6. STD5							0014-192-2
7. JCV							0014-192-3
8. ICB							N/A
9. CCV							0014-192-4
10. CCB							N/A
11. DGMKIB							N/A
12. DGMKIC							0014-192-5
13. DGAU5	9-15-00						N/A
14. DGA48							
15. DGA50							
16. DGHAD	7-20-00						
17. DGHAT							
18. DGHAK							
19. DGHAL							
20. DGHAP				35ml			
21. DGHAR				100ml			
22. DGHCO							
23. DGTGM							
24. DGTGMS							+1ml 0014-191-1
25. DGTGMD							+1ml 0014-191-1
Reagents		Vol (mL)		Ref. Number		Method	
HNO3	2.5ml			MAILINCKRODT	6623 TOR9A05	7470A	AUTOCLAVE 15PSI 130°C
H2SO4	5.0ml			MAILINCKRODT	5557 N21A12	SOLAS	0014-189-2
KMNO4	15.0ml				0014-184-14	NOCL-NH20L	0014-185-1
K2S2O4	8.0ml				0014-184-15		WAH 7-24-00
Extract(s)		Extract(s) Received		Extract(s) Relinquished			
(Record line number from above)		Date	Time	Analyst	Location	Date	Time
				WAH			

Hg Digestion Log

2.81799

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



QUA-1169

PIPET # H31609

Serial Number 083 Log Book Number 96-MI-579

Start Time 08:55-20210

Sample ID	Date Rec'd	Prep Date	Prepared By	WVVol	Sample Type	Run Date	Comments
1. DGMK38	N/A	7-24-00	WAH / G.O.F.	100ml	WATER	7-24-00	N/A
2. DGMK3C	7-14-00						0014-192-6 N/A
3. DGB6W							+1ml 0014-191-1
4. DGB6WS							+1ml 0014-191-1
5. DGB6WD							N/A
6. DGBH3							N/A
7. DGBH6							N/A
8. DGBH4							N/A
9. DGMK5BT	N/A						0014-192-7
10. DGMK5CT	N/A						N/A
11. DGKHEBT	7-19-00						+5ml 0014-191-1
12. DGF3ST							+5ml 0014-191-1
13. DGF3T							
14. DGF3T							
15. DGF3ST							
16. DGF3RDT							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							

Reagents	Vol (ml)	Ref. Number	Method
HNO3	2.5ml	MALINCKRODT 6623 T09A05	74704 AUTOCLAVE 15 PSI 120°C
H2SO4	5.0ml	MALINCKRODT	SNCL0 = 0014-189-2
KMNO4	15.0ml	0014-184-14	AGL-4/4004 = 0014-185-1
K2S2O4	8.0ml	0014-184-15	WAH 7-24-00

Extract(s)	Date	Time	Analyst	Location	Date	Time	Analyst	Location
(Record line number from above)			WAH	7-24-00				

Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
	WAH	7-24-00					

WAH 7-24-00

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

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0014-192-7

0014-191-1

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0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

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0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

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0014-191-1

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74704 AUTOCLAVE 15 PSI 120°C

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0014-189-2

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WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

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0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-24-00

74704 AUTOCLAVE 15 PSI 120°C

SNCL0 = 0014-189-2

0014-192-6

0014-191-1

0014-192-7

0014-191-1

0014-184-15

0014-184-14

0014-189-2

AGL-4/4004 = 0014-185-1

WAH 7-2

REQUESTED BY: WESOLOSM

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
6B	DGA45	---	251786	378644	I-19-08	COG150160	001		WATER	0	1 1
6B	DGA48	---	251787	378644	I-19-08	COG150160	002		WATER	0	1 1
6B	DGA50	---	251788	378644	I-19-08	COG150160	011		WATER	0	1 1
8B,C	DGHAD	---	251789	378644	I-19-08	COG200133	001		WATER	0	1 1
8B,C	DGHAJ	---	251790	378644	I-19-08	COG200133	002		WATER	0	1 1
8B,C	DGHAK	---	251791	378644	I-19-08	COG200133	003		WATER	0	1 1
8B,C	DGHAL	---	251792	378644	I-19-08	COG200133	004		WATER	0	1 1
8B,C	DGHAQ	---	251793	378644	I-19-08	COG200133	005		WATER	0	1 1
8B,C	DGHAR	---	251794	378644	I-19-08	COG200133	006		WATER	0	4 1
8B,C	DGHCO	---	251795	378644	I-19-08	COG200133	007		WATER	0	4 1
8E CLP1	DGJ6M	---	251796	399411	I-19-08	COG200210	001		WATER	0	13 1

RELINQUISHED BY

Geoffrey O. Baust
Geoffrey O. Baust / William A. Doyle

RECEIVED BY

Geoffrey O. Baust / William A. Doyle
Geoffrey O. Baust

DATE/TIME

7-24-00 0645
7-24-00 0735

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

GENERAL CHEMISTRY DATA

UXB INTERNATIONAL

Client Sample ID: DF/S1/201/WA/002

664 1875

General Chemistry

Lot-Sample #...: COG200210-001
Date Sampled...: 07/19/00

Work Order #...: DGJ6M
Date Received...: 07/20/00

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	8.1		No Units	SW846 9040	07/20/00	0203307
	Dilution Factor: 1		MS Run #:.....: 0203106			
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/24-07/25/00	0206179
	Dilution Factor: 1		MS Run #:.....: 0206039			
Flashpoint	>200		deg F	SW846 1010	07/22/00	0204148
	Dilution Factor: 1		MS Run #:.....: 0204041			
Total Sulfide	8.3	1.0	mg/L	MCANW 376.1	07/22/00	0205130
	Dilution Factor: 1		MS Run #:.....: 0205030			

METHOD BLANK REPORT

664 1876

General Chemistry

Client Lot #...: COG200210

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DGNMR101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	COG240000-179 07/24-07/25/00	0206179
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: DGNGA101 1.0	mg/L	MB Lot-Sample #: MCAWW 376.1	COG230000-130 07/22/00	0205130
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: COG200210

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	100	Work Order #: DGL1N101 (85 - 115)	LCS Lot-Sample#: COG210000-307 SW846 9040	07/20/00	0203307
		Dilution Factor: 1			
Cyanide, Total	104	Work Order #: DGNMR102 (85 - 145)	LCS Lot-Sample#: COG240000-179 SW846 9012A	07/24-07/25/00	0206179
		Dilution Factor: 1			
Flashpoint	100	Work Order #: DGN92101 (85 - 115)	LCS Lot-Sample#: COG220000-148 SW846 1010	07/22/00	0204148
		Dilution Factor: 1			
Total Sulfide	104	Work Order #: DGNGA102 (75 - 125)	LCS Lot-Sample#: COG230000-130 MCAWW 376.1	07/22/00	0205130
		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

664 1878

Client Lot #...: COG200210

Matrix.....: WATER

Date Sampled...: 07/17/00

Date Received...: 07/18/00

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-		PREP
	RECOVERY LIMITS	RPD LIMITS	ANALYSIS DATE	BATCH #	BATCH #
Cyanide, Total		WO#: DGMWV103-MS/DGMWV104-MSD	MS Lot-Sample #:	COG220124-001	
107	(75 - 125)			07/24-07/25/00	0206179
104	(75 - 125)	3.2 (0-20)	SW846 9012A	07/24-07/25/00	0206179
		Dilution Factor: 1			
		MS Run #.....: 0206039			

Total Sulfide		WO#: DGL5V10A-MS/DGL5V10C-MSD	MS Lot-Sample #:	COG210192-004	
111	(0.0 - 0.0)		MCAWW 376.1	07/22/00	0205130
96	(0.0 - 0.0)	15 (0-0.0)	MCAWW 376.1	07/22/00	0205130
		Dilution Factor: 1			
		MS Run #.....: 0205030			

NOTE(S):

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

SAMPLE DUPLICATK EVALUATION REPORT

664 1879

General Chemistry

Client Lot #...: COG200210

Work Order #...: DGJ6M-SMP
DGJ6M-DUP

Matrix.....: WATER

Date Sampled...: 07/19/00

Date Received...: 07/20/00

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Flashpoint	>200	>200	deg F	0.0	(0-20)	SD Lot-Sample #: COG200210-001 SW846 1010	07/22/00	0204148
			Dilution Factor: 1					
			Prep Date.....: 0204041		Analysis Date...:		Prep Batch #...:	
pH	8.1	8.2	No Units	0.61	(0-20)	SD Lot-Sample #: COG200210-001 SW846 9040	07/20/00	0203307
			Dilution Factor: 1					
			Prep Date.....: 0203106		Analysis Date...:		Prep Batch #...:	

**Quanterra Environmental Services
pH LOG SHEET**

664 1880

Page _____ of _____

Lot No. COG180137 } 0203306 } SDG No.
COG200210 } 0203307 } _____
COG200142 } 0203308 } _____
COG200149 } _____ } _____

Includes attachment(s) _____
 Analyst: CM BRITSCH
 Date: 7-20-00
 Start Time: 1900

pH Meter Calibration

Reading	Buffer	Manf. Lot No.	Rec'd	Expire
<u>7.25</u>	7.0	<u>Lab Chem 0062-04</u>	<u>5-19-00</u>	<u>3-1-02</u>
<u>4.00</u>	4.0	<u>↓ 9167-08</u>	<u>6-30-00</u>	<u>6-25-01</u>
<u>10.0</u>	10.0	<u>↓ 0010-02</u>	<u>5-19-00</u>	<u>3-8-01</u>

LCS ID No.: 342-162-3

Relative Percent Difference =

Range = ± .05 pH units

$$\frac{|X_1 - X_2|}{\frac{X_1 + X_2}{2}} \times 100$$

X₁ = Original Result
 X₂ = Duplicate

Sample ID	pH Reading
LCS	7.01
COG180137 -004	11.80
-004 -Dup	11.88
LCS	7.00
COG200210 -001	8.14
-001 Dup	8.19
COG200142 -001	8.66
-001 Dup	8.71
COG200149 -001	6.87
-002	9.93
-003	6.75
-004	9.18
-005	8.52
-006	8.60
LCS	6.98
-007	8.49
-008	7.88
-009	10.94
-010	10.25
-011	6.96
-012	10.16
-013	9.08
-014	6.71
-015	6.99
-016	6.43
LCS	7.00

} 0.7%
 } 0.6%
 } 0.6%

CM BRITSCH 7/20/00

664 1881

REQUESTED BY: FAUSTE

MOD: 02 pH (9045C) - Non-Aqueous

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
7A	DGD7P-1-0E	___	251428	130551	A-88-02	COG180137	004		SOLID	0	1

RELINQUISHED BY

J. Yushinski
[Signature]

RECEIVED BY

[Signature]
J. Yushinski

DATE/TIME

7-20-00 1845
7-20-00 2000

TESTED BY: FAUSTE

METHOD: AJ pH - Aqueous (150.1)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
8C,D	DGHDK-1-02	___	251411	059184	I-88-AJ	COG200142	001		WATER	0	11 1
8C,D,E CLP1	DGHG2-1-02	___	251412	071212	I-88-AJ	COG200149	001		WATER	0	11 1
8C,D,E CLP1	DGHG7-1-02	___	251413	071212	I-88-AJ	COG200149	002		WATER	0	11 1
8C,D,E CLP1	DGHG8-1-02	___	251414	071212	I-88-AJ	COG200149	003		WATER	0	11 1
8C,D,E CLP1	DGHGA-1-02	___	251415	071212	I-88-AJ	COG200149	004		WATER	0	11 1
8C,D,E CLP1	DGHGE-1-02	___	251416	071212	I-88-AJ	COG200149	005		WATER	0	11 1
8C,D,E CLP1	DGHGG-1-02	___	251417	071212	I-88-AJ	COG200149	006		WATER	0	11 1
8C,D,E CLP1	DGHGJ-1-02	___	251418	071212	I-88-AJ	COG200149	007		WATER	0	11 1
8C,D,E CLP1	DGHGP-1-02	___	251419	071212	I-88-AJ	COG200149	008		WATER	0	11 1
8C,D,E CLP1	DGHGT-1-02	___	251420	071212	I-88-AJ	COG200149	009		WATER	0	11 1
8L,D,E CLP1	DGHGV-1-02	___	251421	071212	I-88-AJ	COG200149	010		WATER	0	11 1
8C,D,E CLP1	DGHH0-1-02	___	251422	071212	I-88-AJ	COG200149	011		WATER	0	11 1
8C,D,E CLP1	DGHH1-1-02	___	251423	071212	I-88-AJ	COG200149	012		WATER	0	11 1
8C,D,E CLP1	DGHH2-1-02	___	251424	071212	I-88-AJ	COG200149	013		WATER	0	11 1
8C,D,E CLP1	DGHH4-1-02	___	251425	071212	I-88-AJ	COG200149	014		WATER	0	11 1
8C,D,E CLP1	DGHH7-1-02	___	251426	071212	I-88-AJ	COG200149	015		WATER	0	11 1
8C,D,E CLP1	DGHH8-1-02	___	251427	071212	I-88-AJ	COG200149	016		WATER	0	11 1

664 1883

PC9024 7/20/00 16:42:31 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 003

REQUESTED BY: FAUSTE

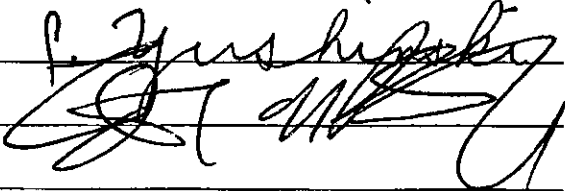
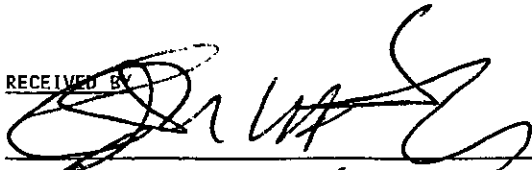
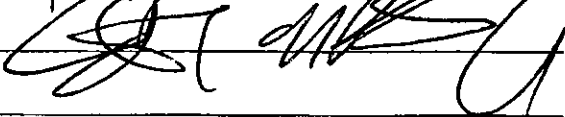
METHOD: AJ pH - Aqueous (150.1)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
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RELINQUISHED BY

RECEIVED BY

DATE/TIME

		7-20-00 1845
	P. Yushinski	7-20-00 2000

664 1884

P0024 7/20/00 16:42:31 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 004

REQUESTED BY: FAUSTE

METHOD: FJ pH (9040) - Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
8E CLP1	DGJ6M-1-11	---	251429	399411	1-88-FJ	COG200210	001		WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

[Signature] *[Signature]* 7-20-00 1845
[Signature] *[Signature]* 7-20-00 2200

Method: FLASHPOINT

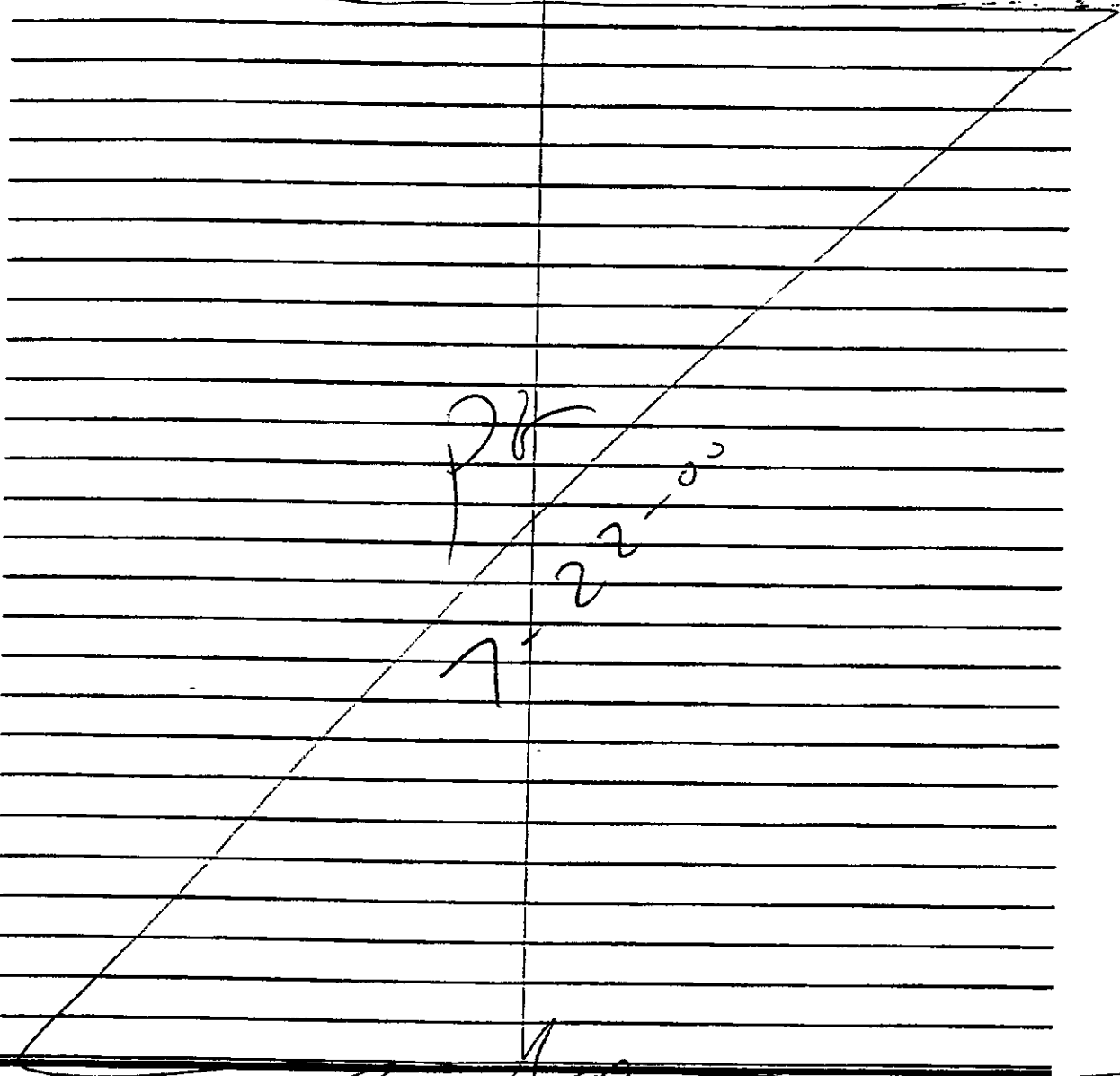
(CROSS CUP)



664 1885

ANALYST: <i>[Signature]</i>	DATE: 7-22-00
BATCH: 0204148	TIME: 15:30

SAMPLE ID	RESULT
PERYLENE	81°F
COG200210 - 001	>200°F
↓ -001X	>200°F
COG210204 - 001	>200°F



[Handwritten notes: 28, 7-22-00]

Reviewed by *[Signature]* Date 7-22-00

664 1886

PSR024 7/22/00 11:28:06 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 002

REQUESTED BY: GROVEP

METHOD: AE Flash Point (1010, Closed Cup)

STORAGE LOCATION	WORK ORDER #	PICKED CNIR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
10A;B-CLP1	DGLH4-1-06	---	251887	416241	N-88-AE	COG210219	002	WASTE	IGNITABLE	8	1
8E CLP1	DGJ6M-1-0X	---	251885	399411	I-88-AE	COG200210	001	WATER		13	1
9E C1PL	DGLD5-1-0T	---	251886	416241	I-88-AE	COG210204	001	WATER		20	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Edmund Faurot

[Signature]
Edmund Faurot

7-22-00 14:00

7-22-00 16:30

COG190165 (9 #11)
 COG200172
 COG200193
 COG200210
~~COG200171~~

Quanterra Environmental Services
 0205130 SULFIDE LOG SHEET

664 1887

7-24-00 PLEASE SEE NOTE FURTHER ON PAGE 120A.

Lot No. COG170159 Batch No. 0205129 SDG No. 12 Includes attachment(s) _____
COG180124 } _____ Analyst: CM BRETSCH
COG180165 } _____ Date: 7-22-00
COG190132 } _____ Start Time: 1200
COG190165 (1-8) } _____

Stock Std. ID No.: 0071-008-11 True Value 200ppm
 Prep 7-22-00 Exp 7-29-00

LCS 5 mL of 200 ppm (ID No.: 0071-008-11) = 200 ppm
 Range ± 25 %

Calculations:

$$\text{Sulfide mg/L} = \frac{[(20 \text{ mL of Iodine} \times N \text{ Iodine}) - (\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3)]}{\text{mL Sample}} \times 16,000$$

Iodine Standardization ID No.: 0071-006-09
0.0234 N Iodine = $\frac{(19.5 \text{ mL Na}_2\text{S}_2\text{O}_3)(0.024 \text{ N of Na}_2\text{S}_2\text{O}_3)}{20.0 \text{ mL of Iodine Solution}}$

Sodium Thiosulfate Standardization

ID No. 0071-006-10

Relative Percent Difference = 3.99%

Titration	mLs	Normality
1	<u>10.2 ml</u>	<u>0.0240</u>
2	<u>CAV</u>	<u>CAV</u>
Avg = _____ N		

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X₁ = Original Result
 X₂ = Duplicate

$$\frac{(10 \text{ mL of KH(IO}_3)_2) (0.025 \text{ N KH(IO}_3)_2)}{\text{mL of Na}_2\text{S}_2\text{O}_3}$$

Concentration of Sample in Spike:

MS Percent Recovery:

$$\text{Orig. Smp. Conc.} \left(\frac{\text{Vol. of Smp. in Spike}}{\text{Orig. Smp. Vol.}} \right) = \frac{9.408 \times 200}{200} = 9.408$$

$$100 \times \left(\frac{\text{Observed Conc. of MS} - \text{Conc. of Smp. in Spike}}{\text{True Spike Conc.}} \right) = 100 \times \left(\frac{14.592 - 9.408}{5.00} \right) = 103.7\%$$

Sample ID: COG170159-003

Sample ID: COG170159-003MS

 7-23-00

Quanterra Environmental Services
SULFIDE LOG SHEET

664 1888

MSD Percent Recovery:

$$100 \times \left(\frac{\text{Observed Conc. of MSD} \cdot \text{Conc. of Smp. in Spike}}{\text{True Spike Conc.}} \right) = 115.2\%$$

$\frac{15.168 \cdot 9.708}{5.00} = 115.2\%$

Sample ID: COG170159

Sample ID	Sample mL	N = .0234 mL of Iodine	mL of N = .0240 Na ₂ S ₂ O ₃	Conc.	LDL
MB	200	20	19.9	ND	1.0
LES			16.9	4.992	99.8%
COG170159-001			10.9	16.51	1.0
-002			19.1	ND	↓
-003			14.6	9.408	↓
-003MS			11.9	14.592	103.7%
-003MSD			11.6	15.168	115.2%
-004			12.6	13.25	1.0
-005			19.7	ND	↓
-006			16.2	6.34	↓
COG180124-002	19.9	ND	↓		
-003	20.4	ND	↓		
CCV	16.5	5.76	115.2%		
CCB	19.2	ND	1.0		
COG180165-001	15.6	7.79	↓		
COG190132-002	19.6	ND	↓		
COG190165-001	20.1	ND	↓		
-002	18.6	1.73	↓		
-003	17.5	3.84	↓		
-004	18.9	1.15	↓		
-005	2.1	33.41	↓		
-006	2.2	33.22	↓		
-007	6.0	25.92	↓		
-008	17.7	3.46	↓		
CCV	17.1	4.608	92.2%		
CCB	19.4	ND	1.0		
MB	19.4	ND	↓		
LES	17.1	4.608	92.2%		
COG190165-009	18.8	1.34	1.0		
-011	18.2	2.50	↓		
COG200142-001	19.6	ND	↓		

Quanterra Environmental Services
SULFIDE LOG SHEET

664 1889

* New iodine
IO NO 0071-008-10
N Iodine = .0240

MSD Percent Recovery:

$$100 \times \frac{\text{Observed Conc. of MSD} \times \text{Conc. of Sp. in Spike}}{\text{True Spike Conc.}} = \underline{\hspace{2cm}}$$

Sample ID: _____

Sample ID	Sample mL	N = .0234 mL of Iodine	mL of N = .024 Na ₂ S ₂ O ₃	Conc.	LDL
COG200193-002	200	20	19.4	ND	1.0
-003			17.0	4.8	
-004			16.2	6.34	
COG200210-001			15.2	8.26	
COG210192-004		N = .024 20ml	19.7	ND	
CCV			17.3	5.184	103.7%
CCB			19.8	ND	1.0
-004MS			17.1	5.57	111.4% } H %
-004MS			17.5	4.80	96% } H %
-005			19.4	ND	1.0
-006			17.8	4.22	
-007			17.5	4.80	

* New iodine standardization

Be Run AGAIN, DUE TO NO CCV, CCB AT END OF TEST TO BRACKET OFF FOR COMPLETION. TAKEN OUT OF BATCH

* 0205130
Out for Lot COG 210192

RE-RUN AT LATER DATE.

COG B
7-22-00

REQUESTED BY: LOHEYDEC

.HOD: CT Sulfide (376.1)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
CLP1 6C	DGCHA-1-0T	---	251845	059184	I-88-CT	COG170159	001		WATER	11	1
CLP1 6C	DGCHH-1-0T	---	251846	059184	I-88-CT	COG170159	002		WATER	11	1
CLP1 6C	DGCHJ-1-2E	---	251847	059184	I-88-CT	COG170159	003		WATER	33	1
CLP1 6C	DGCHM-1-0T	---	251848	059184	I-88-CT	COG170159	004		WATER	11	1
CLP1 6C	DGCHP-1-0T	---	251849	059184	I-88-CT	COG170159	005		WATER	11	1
CLP1 6C	DGCHR-1-0T	---	251850	059184	I-88-CT	COG170159	006		WATER	11	1
CLP1 10A	DGL5V-1-05	---	251871	375241	I-88-CT	COG210192	004		WATER	15	1
CLP1 10A	DGL6E-1-05	---	251872	375241	I-88-CT	COG210192	005		WATER	18	1
CLP1 10A	DGL70-1-05	---	251873	375241	I-88-CT	COG210192	006		WATER	15	1
CLP1 10A	DGL79-1-05	---	251874	375241	I-88-CT	COG210192	007		WATER	15	1
6D,E	DGD63-1-06	---	251852	375241	I-88-CT	COG180124	002		WATER	15	1
CLP1 6D,E	DGD65-1-06	---	251853	375241	I-88-CT	COG180124	003		WATER	15	1
CLP1 7B	DGF40-1-05	---	251855	375241	I-88-CT	COG190132	002		WATER	14	1
ERIN FAUST	DECCE-1-01	---	251844	000180	I-88-CT	COF080104	002		WATER	1	1
6E CLP1	DGDFK-1-03	---	251851	371899	I-88-CT	COG180165	001		WATER	8	1
7C,D,8A CLP1	DGFAJ-1-0T	---	251854	059184	I-88-CT	COG190165	011		WATER	11	1
7C,D,8A CLP1	DGF9C-1-0T	---	251856	059184	I-88-CT	COG190165	007		WATER	11	1
7C,D,8A CLP1	DGF9D-1-0T	---	251857	059184	I-88-CT	COG190165	008		WATER	11	1
7C,D,8A CLP1	DGF9G-1-0T	---	251858	059184	I-88-CT	COG190165	009		WATER	11	1
7C,D,8A CLP1	DGF90-1-0T	---	251859	059184	I-88-CT	COG190165	001		WATER	11	1
7C,D,8A CLP1	DGF93-1-0T	---	251860	059184	I-88-CT	COG190165	002		WATER	11	1
7C,D,8A CLP1	DGF95-1-0T	---	251861	059184	I-88-CT	COG190165	003		WATER	11	1
7C,D,8A CLP1	DGF96-1-0T	---	251862	059184	I-88-CT	COG190165	004		WATER	11	1
J,8A CLP1	DGF97-1-0T	---	251863	059184	I-88-CT	COG190165	005		WATER	11	1
7C,D,8A CLP1	DGF98-1-0T	---	251864	059184	I-88-CT	COG190165	006		WATER	11	1
8C,D	DGHDK-1-0A	---	251865	059184	I-88-CT	COG200142	001		WATER	11	1

STL Pittsburgh

664 1891

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Amber Hill

[Signature]

7-22-00 1145

[Signature]

Amber Hill

7-22-00 2030

REQUESTED BY: LONEYDEC

MO: CT Dissolved Sulfide

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
8C,D	DGHDK-1-0C		251866	059184	I-87-CT	COG200142	001		WATER	11	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<i>[Signature]</i>	<i>[Signature]</i>	7-22-00 1175
<i>[Signature]</i>	<i>[Signature]</i>	7-22-00 2030

TESTED BY: LOHEDEC


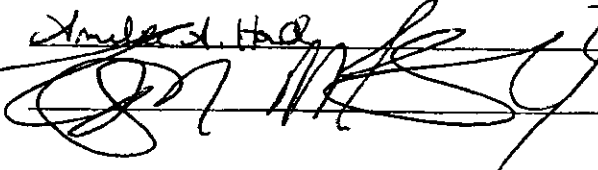
METHOD: CT Sulfide (376.1)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
8E CLP1	DGJ1M-1-01	___	251867	059184	1-88-CT	COG200193	002		WATER	1	1
8E CLP1	DGJ1N-1-02	___	251868	059184	1-88-CT	COG200193	003		WATER	3	1
8E CLP1	DGJ1R-1-03	___	251869	059184	1-88-CT	COG200193	004		WATER	5	1
8E CLP1	DGJ6M-1-10	___	251870	399411	1-88-CT	COG200210	001		WATER	13	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Amber A. Haas  7-22-00 1145
 *Amber A. Haas* 7-22-00 2030

Cyanide

664 1894

206220124 } Total
206200210 } Water 0206179

206210148 } Amenable
Water 0206180

206210102 } Free
Water 0206324

Results: C:\FLOW_4\072500B.RST
 Results completed: 14:39 July 25, 2000.
 Operator: P.JOHNSON

664 1895

P. Johnson 7-25-00

CYANIDE					
Time	Cup	Name	Height	Calc.	Flags
User request: Start Data Collect					
12:37	0	CARRYOVER	738	0.001161	
12:38	0	CARRYOVER	78	-0.000539	LO
		Mean & RSD:	408	0.000311	NoRSD
12:39	0	READ BASELIN	0	-0.000741	BL
12:41	301	0.500 PPM ST	182949	0.470256	OL
12:42	301	0.500 PPM ST	189118	0.486137	
12:43	301	0.500 PPM ST	190775	0.490403	
		Mean & RSD:	189946	0.488270	2.17%
12:44	302	0.400 PPM ST	152913	0.392930	
12:45	302	0.400 PPM ST	154824	0.397849	
12:46	302	0.400 PPM ST	155466	0.399501	
		Mean & RSD:	154401	0.396760	.86%
12:47	303	0.300 ppm ST	113449	0.291330	OL
12:49	303	0.300 ppm ST	116239	0.298513	
12:50	303	0.300 ppm ST	117322	0.301301	
		Mean & RSD:	116780	0.299907	1.71%
12:51	304	0.200 PPM ST	78664	0.201778	
12:52	304	0.200 PPM ST	78638	0.201711	
12:53	304	0.200 PPM ST	79163	0.203062	
		Mean & RSD:	78822	0.202184	.375%
12:54	305	0.100 PPM ST	39175	0.100115	
12:56	305	0.100 PPM ST	39133	0.100006	
12:57	305	0.100 PPM ST	39204	0.100188	
		Mean & RSD:	39171	0.100103	.0911
12:58	306	0.050 PPM ST	19415	0.049243	
12:59	306	0.050 PPM ST	19387	0.049170	
13:00	306	0.050 PPM ST	19314	0.048984	
		Mean & RSD:	19372	0.049132	.268%
13:01	307	0.010 PPM ST	4297	0.010322	
13:03	307	0.010 PPM ST	4256	0.010217	
13:04	307	0.010 PPM ST	4256	0.010217	
		Mean & RSD:	4270	0.010252	.552%
13:05	0	0.000 PPM ST	-41	-0.000847	LO OL
13:06	0	0.000 PPM ST	69	-0.000564	LO
13:07	0	0.000 PPM ST	15	-0.000703	LO
		Mean & RSD:	42	-0.000634	132%
13:08	0	BLANK	-6	-0.000757	LO
13:10	2	CCV 7210902	40427	0.103339	<i>103.39.</i>
13:11	0	CCB	-44	-0.000854	LO
13:12	0	BASELINE	0	-0.000741	BL
13:13	101	.05 7210814	19507	0.049480	<i>99.09.</i>
13:14	102	.40 7210815	151242	0.388627	<i>97.29.</i>
13:15	0	BLANK	-52	-0.000873	LO

Page #1
 Run Results Report

P. Johnson 7.25.00

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
13:17	2	CCV 7210902	40704	0.104051	104.19.
13:18	0	CCB	-43	-0.000850	LO
13:19	0	BASELINE	0	-0.000741	BL
13:20	110	DGNMR101B	1359	0.002758	
13:21	111	DGNMR102C	65101	0.166860	104.39.
13:22	112	DGMWV102	2890	0.006700	
13:24	113	DGMWV103S	41930	0.107208	103.29.
13:25	114	DGMWV104D	40625	0.103848	103.89. 3.29.29
13:26	115	DGJ6M10W	2254	0.005063	
13:27	0	BLANK	5	-0.000728	LO
13:28	2	CCV 7210902	40304	0.103021	103.01.
13:29	0	CCB	-5	-0.000754	LO
13:31	0	BASELINE	0	-0.000741	BL
13:32	116	DGNMT101B	922	0.001632	
13:33	117	DGNMT101B	855	0.001460	
13:34	118	DGNMT102C	113210	0.581430	
13:35	119	DGNMT102C	47597	0.121797	
13:36	120	DGKQP105	343640	0.883950	HI D
13:38	121	DGKQP105	226631	0.582714	HI D
13:39	122	DGKT2105	2457	0.005586	
13:40	123	DGKT2105	2398	0.005434	
13:41	0	BLANK	57	-0.000593	LO
13:42	2	CCV 7210902	40473	0.103457	103.59.
13:43	0	CCB	16	-0.000699	LO
13:45	0	BASELINE	0	-0.000741	BL
13:46	124	DGKT2106X	2851	0.006599	
13:47	125	DGKT2106X	1891	0.004127	
13:48	0	BLANK	-62	-0.000899	LO
13:49	2	CCV 7210902	40586	0.103747	103.79.
13:50	0	CCB	-59	-0.000893	LO
13:52	0	BASELINE	0	-0.000741	BL
13:53	126	DGP2A101B	1389	0.002835	
13:54	127	DGP2A102C	64242	0.164650	102.99.
13:55	128	DGK9E104	1748	0.003759	
13:56	129	DGK9G10A	1849	0.004020	
13:57	130	DGK9G10CS	38365	0.098029	
13:59	131	DGK9G10DD	38802	0.099155	
14:00	132	DGK9H104	912	0.001608	98.09. 1.29.29
14:01	133	DGK9K104	981	0.001785	
14:02	0	BLANK	-83	-0.000953	LO
14:03	2	CCV 7210902	40576	0.103722	103.79.
14:04	0	CCB	-103	-0.001006	LO
14:06	0	BASELINE	0	-0.000741	BL
14:07	134	DGK9L104	983	0.001789	

See Attached Sheet For Amenable CH Calculations

See Attached Sheet For Amenable CH Calculations

Results: C:\FLOW_4\072500B.RST
 Results completed: 14:39 July 25, 2000.
 Operator: P.JOHNSON

664 1897

P. Johnson 7-25-00

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
14:08	135	DGK9M104	1122	0.002147	
14:09	136	DGK9N104	1380	0.002813	
14:10	137	DGK9P104	1564	0.003285	
14:11	138	DGK9Q104	1480	0.003069	
14:13	139	DGK9R104	1605	0.003393	
14:14	140	DGK9T104	1531	0.003201	
14:15	0	BLANK	40	-0.000638	LO
14:16	2	CCV 7210902	40957	0.104702	164.79.
14:17	0	CCB	-21	-0.000796	LO
14:18	0	BASELINE	0	-0.000741	BL
14:27	308	DGKQP105	99235	1.273687	} See Attached Sheet For Amenable CN Calculations
14:28	309	DGKQP105	49183	0.629396	
14:29	0	BLANK	-14	-0.000776	LO
14:31	2	CCV 7210902	41072	0.104998	105.67.
14:32	0	CCB	-37	-0.000835	LO
14:33	0	BASELINE	0	-0.000741	BL

File name: C:\FLOW 4\072500B.RST

Date: July 25, 2000

Operator: P.JOHNSON

664 1898

P. Johnson 7.25.00

* Name	Conc	Height
* 0.500 PPM STD	0.500000	182949.000000
* 0.500 PPM STD	0.500000	189117.609375
* 0.500 PPM STD	0.500000	190774.562500
* 0.400 PPM STD	0.400000	152913.109375
* 0.400 PPM STD	0.400000	154823.781250
* 0.400 PPM STD	0.400000	155465.546875
* 0.300 ppm STD	0.300000	113448.679688
* 0.300 ppm STD	0.300000	116238.937500
* 0.300 ppm STD	0.300000	117321.679688
* 0.200 PPM STD	0.200000	78664.179688
* 0.200 PPM STD	0.200000	78638.000000
* 0.200 PPM STD	0.200000	79162.968750
* 0.100 PPM STD	0.100000	39175.082031
* 0.100 PPM STD	0.100000	39132.769531
* 0.100 PPM STD	0.100000	39203.734375
* 0.050 PPM STD	0.050000	19415.078125
* 0.050 PPM STD	0.050000	19386.714844
* 0.050 PPM STD	0.050000	19314.457031
* 0.010 PPM STD	0.010000	4296.990723
* 0.010 PPM STD	0.010000	4256.104980
* 0.010 PPM STD	0.010000	4256.289062
* 0.000 PPM STD	0.000000	-41.145298
* 0.000 PPM STD	0.000000	68.662064
* 0.000 PPM STD	0.000000	14.524292

Calib Coef:

y=bx+a

a: (intercept) 2.8767e+02

b: 3.8843e+05

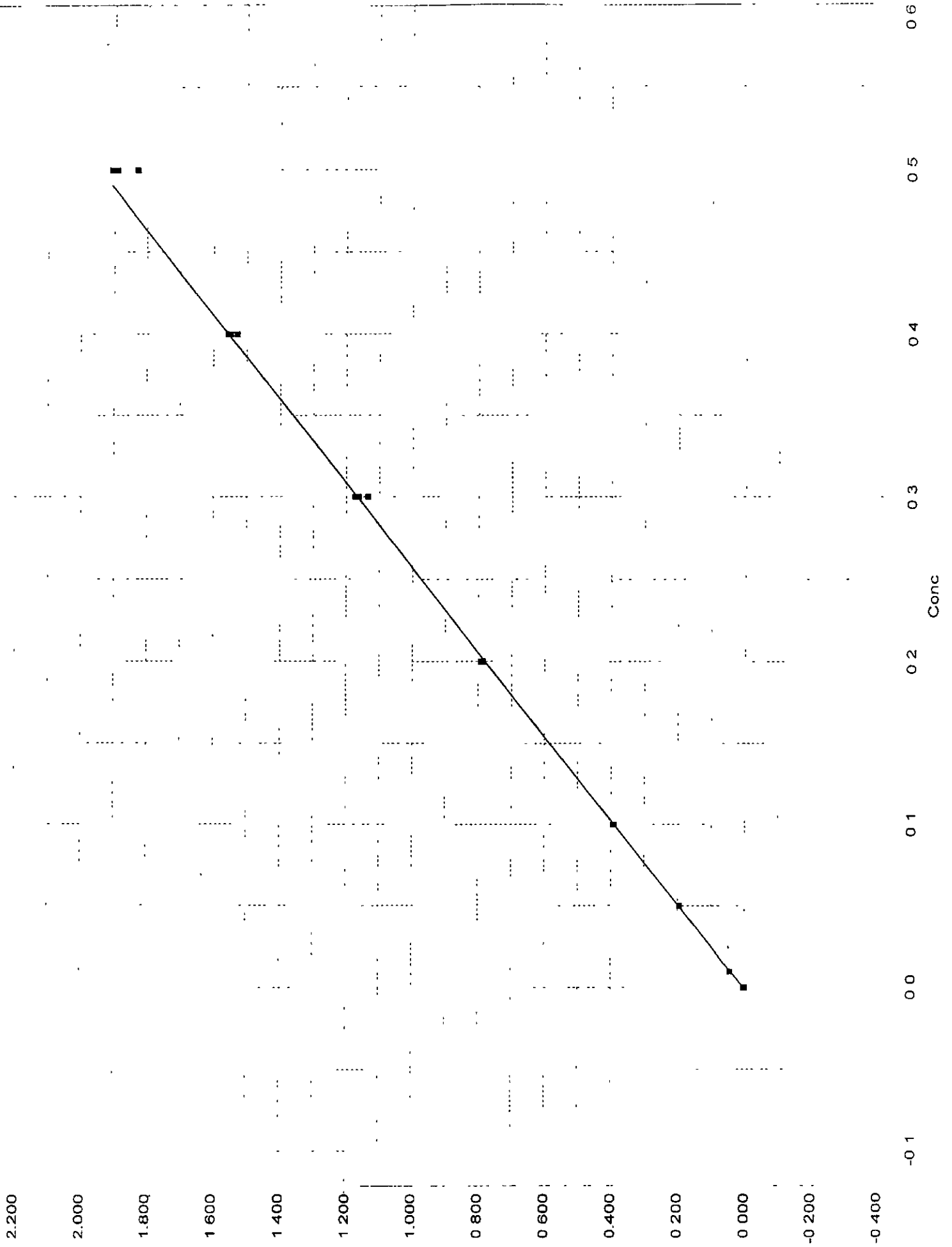
Corr Coef: 0.999531

Carryover: 0.214%

No Drift Peaks

664 1899

CYANIDE: Calibration, Peak 5-95



Sample ID	Total CN	Non-Amenable CN	Amenable CN
Sample 7J			
644101	NJ	NJ	
644102			
72,108.10	581.4	121.8	
206216148.001			
644103	1273.7	629.4	644.3
206216148.002			
644105	NJ	NJ	NJ
206210148.002			
644106	NJ	NJ	NJ 0.02

TU: 630
 Range: 10-850
 459.6 73.0

J. J. Johnson 7.25.00

Cyanide Distillation Worksheet

206226124
206206216 Total 620479



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

Sample ID	Distillation		Before Distillation	After Distillation	Expiration Date
	Initial	Final			
1. Johnson	Some	Some			NA
2. Johnson	Some	Some			7-31-00
3. Johnson	Some	Some			7-31-00
4. Johnson	Some	Some			7-31-00
5. Johnson	Some	Some			7-31-00
6. Johnson	Some	Some			7-31-00
7. Johnson	Some	Some			7-31-00
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					

Distillate(s) (Record line number from 1-26)	Distillate(s) Received		Distillate(s) Relinquished	
	Date	Time	Date	Time
1-26	7-24-00	13:45	7-24-00	13:45
	7-25-00	07:40	7-25-00	13:45

Analyst	Location	Date	Time
P. Johnson	W-1	7-24-00	13:45
P. Johnson	W-1	7-25-00	13:45

Comments: 1. Johnson 7-25-00 13:45
2. Johnson 7-25-00 13:45
3. Johnson 7-25-00 13:45
4. Johnson 7-25-00 13:45
5. Johnson 7-25-00 13:45
6. Johnson 7-25-00 13:45
7. Johnson 7-25-00 13:45

Cyanide Distillation Worksheet



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

206210148 Amerslow 6206/80

Sample ID	Distillation		Reagent / Std Book ID:	Sample Description (CLP Samples Only)		Expiration Date
	Initial	Final		Before Distillation	After Distillation	
1. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		NA
2. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		NA
3. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		NA
4. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		NA
5. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
6. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
7. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
8. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
9. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
10. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
11. 206210148	Start 11:00	7:24:00	341-1623-143	143.7/143.9.6		8:3:00
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						

Distillate(s) (Record line number from)	Distillate(s) Received		Distillate(s) Relinquished	
	Date	Analyst	Date	Analyst
1. 10	7:24:00	P. Johnson	7:24:00	P. Johnson
1. 10	7:25:00	P. Johnson	7:25:00	P. Johnson

Comments: 206210148 7:21:08:10
Reviewed by: P. Johnson Date: 7-24-00

Cyanide Distillation Worksheet

206210102 From 0206324

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



Distillate(s) (Record line number from	Distillate(s) Received		Distillate(s) Reinhaunched	
	Date	Time	Date	Time
1. 621A101	7/24/00	13:45	7/24/00	15:45
2. 621A102	7/24/00	13:45	7/24/00	15:45
3. 621A103	7/24/00	13:45	7/24/00	15:45
4. 621A104	7/24/00	13:45	7/24/00	15:45
5. 621A105	7/24/00	13:45	7/24/00	15:45
6. 621A106	7/24/00	13:45	7/24/00	15:45
7. 621A107	7/24/00	13:45	7/24/00	15:45
8. 621A108	7/24/00	13:45	7/24/00	15:45
9. 621A109	7/24/00	13:45	7/24/00	15:45
10. 621A110	7/24/00	13:45	7/24/00	15:45
11. 621A111	7/24/00	13:45	7/24/00	15:45
12. 621A112	7/24/00	13:45	7/24/00	15:45
13. 621A113	7/24/00	13:45	7/24/00	15:45
14. 621A114	7/24/00	13:45	7/24/00	15:45
15. 621A115	7/24/00	13:45	7/24/00	15:45
16. 621A116	7/24/00	13:45	7/24/00	15:45
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				

Distilled by: Johnson
 Reagent/Std Book ID: 34216237 935408/937306
 Date: 7/24/00
 Sample ID: 206210102
 Sample Description (CLP Samples Only):
 Initial: Some
 Final: Some
 Before Distillation: Some
 After Distillation: Some
 Expiration Date: 11/11/00

Comments: 1.13
 Distillate(s) Received: Johnson 7/24/00 13:45
 Distillate(s) Reinhaunched: Johnson 7/24/00 15:45
 Date: 7/24/00
 Time: 13:45
 Location: Johnson
 Analyst: Johnson
 Date: 7/24/00
 Time: 15:45
 Location: Johnson
 Analyst: Johnson

PSR024 7/24/00 6:06:40 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: JOHNSONP

METHOD: QP Cyanide, Total

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
6D	DGMWV-1-02	___	252070	413032	1-06-QP	COG220124	001		WATER	2	1
8E CLP1	DGJ6M-1-0W	___	252067	399411	1-06-QP	COG200210	001		WATER	13	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<u>_____</u> <i>P. Johnson</i>	<u>_____</u> <i>P. Johnson</i>	<u>_____</u> 7:24:00/0820
<u>_____</u> <i>P. Johnson</i>	<u>_____</u> <i>P. Johnson</i>	<u>_____</u> 7:24:00/1440
<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>

664 1905

PSR024 7/24/00 6:06:40 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 004

REQUESTED BY: JOHNSONP

METHOD: QP Amenable Cyanide

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX DESCRIPTION</u>	<u>QTY RCVD</u>	<u>QTY REQD</u>
9D,E	DGKQP-1-05	---	252068	413032	I-80-QP	COG210148	001		WATER	4	1
9D,E	DGKT2-1-05	---	252069	413032	I-80-QP	COG210148	002		WATER	4	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. G. Johnson
P. G. Johnson

P. G. Johnson
P. G. Johnson

7-24-00/0820
7-24-00/1440

REQUESTED BY: JOHNSONP

METHOD: HF Cyanide, Free (4500CN-1)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
9B,C,D CLP1	DGK9E-1-04	---	252268	062480	I-06-HF	COG210102	001		WATER	15	1
9B,C,D CLP1	DGK9G-1-0A	---	252269	062480	I-06-HF	COG210102	002		WATER	43	1
9B,C,D CLP1	DGK9H-1-04	---	252270	062480	I-06-HF	COG210102	003		WATER	15	1
9B,C,D CLP1	DGK9K-1-04	---	252271	062480	I-06-HF	COG210102	004		WATER	15	1
9B,C,D CLP1	DGK9L-1-04	---	252272	062480	I-06-HF	COG210102	005		WATER	15	1
9B,C,D CLP1	DGK9M-1-04	---	252273	062480	I-06-HF	COG210102	006		WATER	15	1
9B,C,D CLP1	DGK9N-1-04	---	252274	062480	I-06-HF	COG210102	007		WATER	15	1
9B,C,D CLP1	DGK9P-1-04	---	252275	062480	I-06-HF	COG210102	008		WATER	15	1
9B,C,D CLP1	DGK9Q-1-04	---	252276	062480	I-06-HF	COG210102	009		WATER	15	1
9B,C,D CLP1	DGK9R-1-04	---	252277	062480	I-06-HF	COG210102	010		WATER	15	1
9B,C,D CLP1	DGK9T-1-04	---	252278	062480	I-06-HF	COG210102	011		WATER	15	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Johnson
P. Johnson

P. Johnson
P. Johnson

7-24-00/1310
7-24-00/1440

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

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE