673 991B
File: 541.460.000n
C.H.

THE MEMPHIS DEPOT
TENNESSEE

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 673

Part II of II

William a Hoyle 10-4-00

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 08:52:02 04 Oct 2000 HG

Hg .000 ppb 7055

*** Standard: 2 Rep: 1 Seq: 1 08:53:32 04 Oct 2000 HG

Hg .200 ppb 30772 0057-093-4

*** Standard: 3 Rep: 1 Seq: 2 08:55:19 04 Oct 2000 HG

Hg .500 ppb 73658 0057-093-5

*** Standard: 4 Rep: 1 Seq: 3 08:56:49 04 Oct 2000 HG

Hg 1.00 ppb 138596 0057-093-6

*** Standard: 5 Rep: 1 Seq: 4 08:58:17 04 Oct 2000 HG

Hg 5.00 ppb 674548 0057-093-7

*** Standard: 6 Rep: 1 Seq: 5 09:00:03 04 Oct 2000 HG

Hg 10.0 ppb 1350602 0057-093-8

William a Hoyle 10-4-00

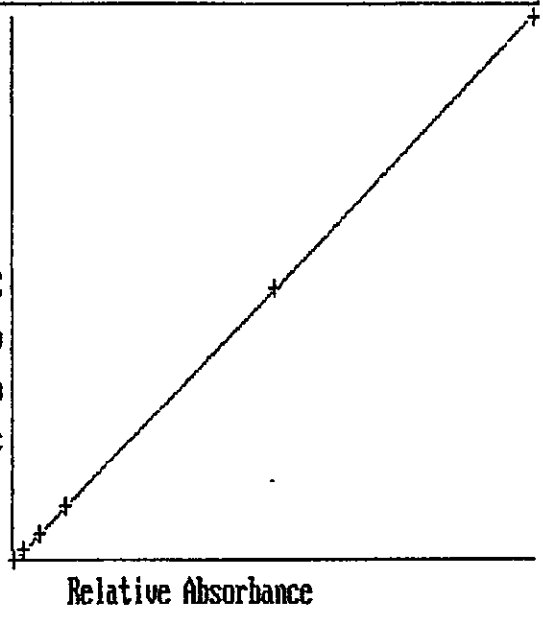
673 993

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 1004HGA Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 09:03:36 04 Oct 2000 Xmit: Off Gas: 0.30 LPM
State: Idle User: WAH A/S: On

CALIBRATION: Line proto: HGMET

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	.015	.015	Quadratic
S2	.200	.191	-.009	Wtdlinear
S3	.500	.510	.010	
S4	1.00	.993	-.007	Accept
S5	5.00	4.98	-.019	
S6	10.0	10.0	.010	

A .0000000 r .999994
B 7.43944e-6 C -3.77400e-2



	Mean		SD	
S1	7055	0	SD	7055
S2	30772	0	%RSD	30772
S3	73658	0	%RSD	73658
S4	138596	0	%RSD	138596
S5	674548	0	%RSD	674548
S6	1350602	0	%RSD	1350602

New cal coefficients stored

William a Hyle 10-4-00

673 994

Folder: 1004HGA Page 434
09:06:13 04 Oct 2000 Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: ICV5-1 Seq: 6 09:06:13 04 Oct 2000 HG

Hg 2.61 ppb 355585 0057-093-9

*** Sample ID: ICB1 Seq: 7 09:07:42 04 Oct 2000 HG

Hg -.003 ppb 4734

*** Sample ID: CCV5-1 Seq: 8 09:09:06 04 Oct 2000 HG

Hg 5.05 ppb 684115 0057-093-10

*** Sample ID: CCB1 Seq: 9 09:11:12 04 Oct 2000 HG

Hg .005 ppb 5775

*** Sample ID: DLFJXBT Seq: 10 09:12:52 04 Oct 2000 HG

Hg -.041 ppb -456

*** Sample ID: DLFJXCT Seq: 11 09:14:27 04 Oct 2000 HG

Hg 2.67 ppb 363337 0057-093-11

*** Sample ID: DLFHGBT Seq: 12 09:15:56 04 Oct 2000 HG

Hg .067 ppb 14081

*** Sample ID: DKRKGT Seq: 13 09:17:51 04 Oct 2000 HG

Hg .110 ppb 19806

*** Sample ID: DKVTQT Seq: 14 09:19:30 04 Oct 2000 HG

Hg .100 ppb 18562

*** Sample ID: DKVTQST Seq: 15 09:21:07 04 Oct 2000 HG

SP. REC. 103%

Hg 5.24 ppb 709714

*** Sample ID: DKVTQDT Seq: 16 09:22:57 04 Oct 2000 HG

SP. REC. 101%

Hg 5.16 ppb 698815

*** Sample ID: DKWEOT Seq: 17 09:24:35 04 Oct 2000 HG

Hg .086 ppb 16696

09:26:11 04 Oct 2000 Folder: 1004HGA Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKWE6T				Seq:	18	09:26:11 04 Oct 2000 HG		
Hg	.061	ppb	13236					
*** Sample ID: DL6LVT				Seq:	19	09:27:35 04 Oct 2000 HG		
Hg	.091	ppb	17280					
*** Sample ID: CCV5-2				Seq:	20	09:29:21 04 Oct 2000 HG		
Hg	5.01	ppb	678587					
*** Sample ID: CCB2				Seq:	21	09:30:49 04 Oct 2000 HG		
Hg	.022	ppb	8000					
*** Sample ID: DL6M0T				Seq:	22	09:32:36 04 Oct 2000 HG		
Hg	.112	ppb	20121					
*** Sample ID: DL7XCT				Seq:	23	09:34:34 04 Oct 2000 HG		
Hg	.112	ppb	20176					
*** Sample ID: DL90TT				Seq:	24	09:36:11 04 Oct 2000 HG		
Hg	.105	ppb	19230					
*** Sample ID: DLFL1B				Seq:	25	09:37:37 04 Oct 2000 HG		
Hg	.012	ppb	6745					
*** Sample ID: DLFL1C				Seq:	26	09:39:09 04 Oct 2000 HG		
Hg	2.55	ppb	347489	0057-094-1				
*** Sample ID: DKTDT				Seq:	27	09:40:48 04 Oct 2000 HG		
Hg	-.017	ppb	2819					
*** Sample ID: DKTDTS				Seq:	28	09:42:24 04 Oct 2000 HG		SP. REC. 33%
Hg	.328	ppb	49178					
*** Sample ID: DKTDTD				Seq:	29	09:44:01 04 Oct 2000 HG		SP. REC 31%
Hg	.306	ppb	46154					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKTDX				Seq:	30	09:45:35 04 Oct 2000 HG		
Hg	.001	ppb	5190					
*** Sample ID: DKTE0				Seq:	31	09:47:04 04 Oct 2000 HG		
Hg	.076	ppb	15266					
*** Sample ID: CCV5-3				Seq:	32	09:49:30 04 Oct 2000 HG		
Hg	4.92	ppb	665757					
*** Sample ID: CCB3				Seq:	33	09:51:36 04 Oct 2000 HG		
Hg	.028	ppb	8893					
*** Sample ID: DKTE1				Seq:	34	09:53:01 04 Oct 2000 HG		
Hg	.046	ppb	11250					
*** Sample ID: DKTE5				Seq:	35	09:54:26 04 Oct 2000 HG		
Hg	.067	ppb	14142					
*** Sample ID: DKTE6				Seq:	36	09:56:15 04 Oct 2000 HG		
Hg	.060	ppb	13096					
*** Sample ID: DKTE6S				Seq:	37	09:57:53 04 Oct 2000 HG		
Hg	1.03	ppb	142920					
*** Sample ID: DKTE6D				Seq:	38	09:59:21 04 Oct 2000 HG		
Hg	1.07	ppb	148416					
*** Sample ID: DKTEF				Seq:	39	10:00:51 04 Oct 2000 HG		
Hg	.023	ppb	8228					
*** Sample ID: DKTEK				Seq:	40	10:02:31 04 Oct 2000 HG		
Hg	.033	ppb	9547					
*** Sample ID: DKTEM				Seq:	41	10:04:07 04 Oct 2000 HG		
Hg	.063	ppb	13589					

SP. REC. 97%

SP. REC. 101%

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: DLFLDBF				Seq: 42	10:05:33 04 Oct 2000 HG				
Hg	.033	ppb	9547						
*** Sample ID: DLFLDCF				Seq: 43	10:07:20 04 Oct 2000 HG				
Hg	2.57	ppb	349997	0057-094-2					
*** Sample ID: CCV5-4				Seq: 44	10:08:47 04 Oct 2000 HG				
Hg	4.96	ppb	671966						
*** Sample ID: CCB4				Seq: 45	10:10:14 04 Oct 2000 HG				
Hg	.015	ppb	7113						
*** Sample ID: DKWVEF				Seq: 46	10:11:53 04 Oct 2000 HG				
Hg	.048	ppb	11514						
*** Sample ID: DKWVESF				Seq: 47	10:13:19 04 Oct 2000 HG				SP. REC. 104%
Hg	1.04	ppb	144828						
*** Sample ID: DKWVEDF				Seq: 48	10:14:46 04 Oct 2000 HG				SP. REC. 103%
Hg	1.03	ppb	143452						
*** Sample ID: DKWVKF				Seq: 49	10:16:22 04 Oct 2000 HG				
Hg	.043	ppb	10792						
*** Sample ID: DKWVMF				Seq: 50	10:17:48 04 Oct 2000 HG				
Hg	.034	ppb	9585						
*** Sample ID: DKWVNF				Seq: 51	10:19:33 04 Oct 2000 HG				
Hg	.066	ppb	13895						
*** Sample ID: DKWVPF				Seq: 52	10:21:03 04 Oct 2000 HG				
Hg	.053	ppb	12138						
*** Sample ID: DKWVRF				Seq: 53	10:22:39 04 Oct 2000 HG				
Hg	.049	ppb	11712						

10:24:05 04 Oct 2000 Folder: 1004HGA Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKWVTF				Seq: 54	10:24:05 04 Oct 2000 HG			
Hg	.038	ppb	10129					
*** Sample ID: DKWVVF				Seq: 55	10:25:36 04 Oct 2000 HG			
Hg	.094	ppb	17728					
*** Sample ID: CCV5-5				Seq: 56	10:27:02 04 Oct 2000 HG			
Hg	4.91	ppb	664880					
*** Sample ID: CCB5				Seq: 57	10:28:59 04 Oct 2000 HG			
Hg	.055	ppb	12517					
*** Sample ID: DKWVWF				Seq: 58	10:31:25 04 Oct 2000 HG			
Hg	.047	ppb	11354					
*** Sample ID: DKWW0F				Seq: 59	10:33:02 04 Oct 2000 HG			
Hg	.030	ppb	9077					
*** Sample ID: DKWW4F				Seq: 60	10:35:31 04 Oct 2000 HG			
Hg	.043	ppb	10919					
*** Sample ID: DLGT1BF				Seq: 61	10:37:17 04 Oct 2000 HG			
Hg	.054	ppb	12375					
*** Sample ID: DLGT1CF				Seq: 62	10:38:44 04 Oct 2000 HG			
Hg	2.41	ppb	328544	0057-094-3				
*** Sample ID: DLGT1LF				Seq: 63	10:40:13 04 Oct 2000 HG			
Hg	2.50	ppb	341418	0057-094-4				
*** Sample ID: DKX98F				Seq: 64	10:41:40 04 Oct 2000 HG			
Hg	.011	ppb	6593					
*** Sample ID: CCV5-6				Seq: 65	10:43:29 04 Oct 2000 HG			
Hg	4.91	ppb	665693					

673 999

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: CCB6 Seq: 66 10:45:51 04 Oct 2000 HG

Hg	.051	ppb	11964					

END OF ANALYSIS

WAH
10-4-00

William a Hoyle 10-4-00

673 1000

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 1004HGA Seq: 0 Batch:
Prnt: R/T On Pump: Off
Rev: 4.2 08:08:22 04 Oct 2000 Xmit: Off Gas: LPM
State: Idle User: WAH 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	DLFJXBT		1.0000	1.0000		
6	DLFJXCT		1.0000	1.0000		
7	DLFHGBT		1.0000	1.0000		
8	DKRKGT		1.0000	1.0000		
9	DKVTQT		1.0000	1.0000		
10	DKVTQST		1.0000	1.0000		
11	DKVTQDT		1.0000	1.0000		
12	DKWE0T		1.0000	1.0000		
13	DKWE6T		1.0000	1.0000		
14	DL6LVT		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: 1004HGA  Seq: 0    Batch:
                  Prnt: R/T On                      Pump: Off
                  Rev: 4.2    08:08:23 04 Oct 2000 Xmit: Off Gas:          LPM
State: Idle                                         User: WAH          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 DL6MOT                         1.0000 1.0000
18 DL7XCT                         1.0000 1.0000
19 DL90TT                         1.0000 1.0000
20 DLFL1B                         1.0000 1.0000
21 DLFL1C                         1.0000 1.0000
22 DKTDT                          1.0000 1.0000
23 DKTDTS                         1.0000 1.0000
24 DKTDTD                         1.0000 1.0000
25 DKTDX                          1.0000 1.0000
26 DKTE0                          1.0000 1.0000
27 CCV5-3                         1.0000 1.0000
28 CCB3                           1.0000 1.0000
29 DKTE1                          1.0000 1.0000
30 DKTE5                          1.0000 1.0000
                                                                         PgDn
```

```
Cup 16 ID: CCB2                                  Cell down mode Ins to switch
```

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1004HGA  Seq: 0    Batch:
                  Prnt: R/T On                    Pump: Off
                  Rev: 4.2    08:08:25 04 Oct 2000 Xmit: Off Gas:        LPM
State: Idle                                       User: WAH          A/S: On
```

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp

cup	ID	Extended id	Weight	Volume	Macro	checK macros
31	DKTE6		1.0000	1.0000		
32	DKTE6S		1.0000	1.0000		
33	DKTE6D		1.0000	1.0000		
34	DKTEF		1.0000	1.0000		
35	DKTEK		1.0000	1.0000		
36	DKTEM		1.0000	1.0000		
37	DLFLDBF		1.0000	1.0000		
38	DLFLDCF		1.0000	1.0000		
39	CCV5-4		1.0000	1.0000		
40	CCB4		1.0000	1.0000		
41	DKWVEF		1.0000	1.0000		
42	DKWVESF		1.0000	1.0000		
43	DKWVEDF		1.0000	1.0000		
44	DKWVKF		1.0000	1.0000		

PgDn

```
Cup 31 ID: DKTE6                          Cell down mode Ins to switch
```

673 1003

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1004HGA  Seq: 0    Batch:
                  Prnt: R/T On                      Pump: Off
                  Rev: 4.2    08:17:17 04 Oct 2000 Xmit: Off Gas:          LPM
State: Idle                                         User: WAH          A/S: On
```

AUTOSAMPLER: Rack Edit rack: RACK2

cup	ID	Extended id	Weight	Volume	Macro	checK macros
1	DKWVMF		1.0000	1.0000		
2	DKWVNF		1.0000	1.0000		
3	DKWVPF		1.0000	1.0000		
4	DKWVRF		1.0000	1.0000		
5	DKWVTF		1.0000	1.0000		
6	DKWVVF		1.0000	1.0000		
7	CCV5-5		1.0000	1.0000		
8	CCB5		1.0000	1.0000		
9	DKWVWF		1.0000	1.0000		
10	DKWW0F		1.0000	1.0000		
11	DKWW4F		1.0000	1.0000		
12	DLGT1BF		1.0000	1.0000		
13	DLGT1CF		1.0000	1.0000		
14	DLGT1LF		1.0000	1.0000		
15	DKX98F		1.0000	1.0000		

PgDn

```
Cup 1  ID: DKWVMF                          Cell down mode Ins to switch
```

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1004HGA  Seq: 0    Batch:
                  Prnt: R/T On                      Pump: Off
                  Rev: 4.2    08:17:20 04 Oct 2000 Xmit: Off Gas:          LPM
State: Idle                                         User: WAH          A/S: On
```

AUTOSAMPLER: Rack Edit rack: RACK2 PgUp

cup	ID	Extended id	Weight	Volume	Macro	checK macros
16	CCV5-6		1.0000	1.0000		
17	CCB6		1.0000	1.0000		
18			1.0000	1.0000		
19			1.0000	1.0000		
20			1.0000	1.0000		
21			1.0000	1.0000		
22			1.0000	1.0000		
23			1.0000	1.0000		
24			1.0000	1.0000		
25			1.0000	1.0000		
26			1.0000	1.0000		
27			1.0000	1.0000		
28			1.0000	1.0000		
29			1.0000	1.0000		
30			1.0000	1.0000		

PgDn

```
Cup 16 ID: CCV5-6                          Cell down mode Ins to switch
```

[redacted]

TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

246

OUA-4181

Filter Lot # 832901W

Serial Number	Log Book Number
095	96-MT-526

By	Date	Checked by	Date	pH Instrument	Probe	Balance
Jamael Murphy	10-2-00	Michael Mendoza	10-3-00	Accumet AR25	5N06596607	C94817

Project Number

Lot Number CO1210299, CO1220233, CO1210289, CO1280438, CO1280265, CO1280148

Client Codes

Solution Number 1 - Log Book Number: C04497-12

Solution Number 2 - Log Book Number:

Fluid Determination

Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc.: HNO_3 to Acidity (for Metals)
DKRKG	5.00g / 96.5ml	9.56	1.68	Soln #1	
DKVTQ	↓ / ↓	9.64	1.70	↓	
DKWEO		8.94	1.59		
DKWE6		9.40	1.55		
DL6LV		5.91	1.58		
DL6MO		9.16	1.59		
DL7XC		10.74	3.71		
DL9OT		10.21	1.70		

TCLP Extraction

	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.		Final pH After Tumbling
1.	PB-TCLP 10-2-00	—	2000ml	Glass	4.97
2.	↓	—			4.94
3.	DKRKG	100.0g			5.79
4.	DKVTQ			↓	4.78
5.	DKWEO			Plastic	4.97
6.	DKWE6			↓	4.95
7.	DL6LV			Glass	5.11
8.	↓				5.35
9.	DL6MO				5.21
10.	DL7XC				6.08
11.	DL9OT	↓	↓	↓	4.50
12.					
13.					

673 1005

Extract(s) (Record line number from above)	Extract(s) Received: Date	Time	Analyst	Location	Extract(s) Relinquished: Date	Time	Analyst	Location
All above	10-3-00	13:45	Jamael Murphy	Metals Prep	10-3-00	14:00	[signature]	16E

* = Sample determined to have free-liquid, % solid determination was performed.

<5 = Extraction Fluid No. 1 5 7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4 93 ± 0.05)

>5 = Extraction Fluid No. 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2 88 ± 0.05)

Room temp° = 22°C pH E.F = 4.97

Date/Time On	Date/Time Off	Agitation Apparatus RPMs:
10-2-00 12:30	10-3-00	30 ± 2 JM 10-2-00

pH Calibration	(4.0)	(7.0)	(10.0)
Date 10-2-00	4.00	7.02	10.05
Date 10-3-00	↓	↓	↓

Comments: CO1220233 was mixture of plastic, rags + dirt

STL Pittsburgh

6731006

Metals Preparation Log

Pipet J04524

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

6247

Method: 3010A	Matrix: water	Start Time: 08:00	SDG:	Balance#	Reagents:
Analyst: Cynthia	Date: 10-4-00	Lot Number: COI220233 COI290M6 COI210229 COI280265 COI220289 COI280138	Lab Lot No.(book,page,line): 0057-033-1, 0014-015-4, 0057-061-16, 0014-015-8		3ml Conc HNO3 5ml 1:1 HCl / Ldo23DAD5/Mallinc.K / 0057-091-14
Reviewed By:	Date: 10-4-00		MS: MSB1REV, Cu, Ni, Zn		

Sample ID	Init Wt/Vol g/mL	Final Vol mL	Comments	Color Pre	Color Post	Clarity Pre	Clarity Post	Texture Pre	Texture Post	Artifacts	Artifact Code
1. DKRKG	50 ml	50 ml	CAR								S=Stones
2. DKWED											O=Organic
3. DKWE6											(plant mat'l)
4. DKVTQ			10-4-00								W=free H2O
5. DKVTQ 3			+0.5ml MSB1REV +12.5ml Cu +25ml Ni +25ml Zn								G=Glass
6. DKVTQ 5 D											M=Metal Frgmts
7. DL16LV											R=Rubber/Plastic
8. DL16MD			CAR		CAR						C=Cloth
9. DL90T											P=Paper
10. DL7XC											I=Insects
11. DLF1GB											
12. DLH1FB			10-4-00								
13 DLH1FC			+0.5ml MSB1REV								
14.											
15.											
16.											
17.									10-4-00		
18.											
19. CAR											
20.											
21.			10-4-00								
22.											
23											
24.											

Digestate(s)	Digestate(s) Received: Date	Time	Analyst	Location	Digestate(s) Relinquished: Date	Time	Analyst	Location
All Above	10-4-00	15:30	Cynthia	Hot Prep	10-4-00	15:40	Cynthia	Metl Cl2
All Above	10-4-00	1645	Elaine Faust	Metl Cl2	10-4-00	2010	Elaine Faust	Metl Cl2

Hot plate /Block Temp	Correction Factor
#9 95°C	+0.1

Texture	Clarity
F=Fine	C=Clear
M=Medium	CL=Cloudy
C=Coarse	O=Opaque

Color	
R=Red	V=Violet
BL=Blue	P=Pink
BR=Brown	W=White
BLK=Black	GY=Gray
Y=Yellow	GN=Green
O=Orange	C=Colorless

6731007

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

6218

Serial Number	Log Book Number	Start Time
042	96-MT-581	07:30 → 07:4

QUA-4169

PIPET# H31608

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1.	STD0	N/A	10-4-00	WAH	100ml	WATER	10-4-00	N/A
2.	STD1							0057-093-4
3.	STD2							0057-093-5
4.	STD3							0057-093-6
5.	STD4							0057-093-7
6.	STD5							0057-093-8
7.	ICV							0057-093-9
8.	ICB							N/A
9	CCV							0057-093-10
10.	CCB							N/A
11	DLFJXBT							↓
12.	DLFJXCT							0057-093-11
13	DKRKGT	9-21-00						N/A
14.	DKVTQT	9-22-00						↓
15.	DKVTQST							+5ml 0057-093-2
16.	DKVTQDT							+5ml 0057-093-2
17	DKWEQT							N/A
18	DKWEGT	↓						↓
19.	DL6LVT	9-28-00						
20.	DL6MQT	↓						
21.	DL7XCT							
22.	DL9QTT	9-29-00						
23	DLFHGBT	N/A						
24.	DLFLIB	↓						
25.	DLFLIC							0057-094-1

Reagents	Vol (mL)	Ref. Number	Method
HNO_3	2.5ml	MALLINCKRODT 6623 T09A05	7470A AUTOCLAVE 15PSI 120°C
H_2SO_4	5.0ml	MALLINCKRODT 5557 N31A13	SACLA = 0057-087-2
$KMNO_4$	15.0ml	0057-091-13	NaCl-NH2OH = 0057-088-7
$K_2S_2O_4$	8.0ml	0057-085-9	WAH 10-4-00

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WAH 10-4-00					

STL Pittsburgh

Hg Digestion Log

6731008

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

6469

Serial Number	Log Book Number	Start Time
043	96-MT-581	07:30 → 07:45

QUA-4169

PIPET# H31609

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1.	DKTDT	9-21-00	10-4-00	WAH	100ml	WATER	10-4-00	N/A
2.	DKTDTS							+1ml 0057-093-2
3.	DKTDTD							+1ml 0057-093-2
4	DKTDX							N/A
5	DKTEO							
6.	DKTEI							
7.	DKTE5							
8	DKTE6							
9	DKTE6S							+1ml 0057-093-2
10.	DKTE6D							+1ml 0057-093-2
11.	DKTEF							N/A
12.	DKTEK							
13.	DKTEM							
14.	DLFLD8F	N/A						0057-094-2
15.	DLFLDCF							N/A
16.	DKWVEF	9-22-00						+1ml 0057-093-2
17.	DKWVESF							+1ml 0057-093-2
18.	DKWVEDF							N/A
19.	DKWVKF							
20.	DKWVMF							
21.	DKWVNF							
22.	DKWVPF							
23.	DKWVRF							
24.	DKWVTF							
25.	DKWVVF							

Reagents	Vol (mL)	Ref. Number	Method
HNO_3	2.5ml	MALLINCKRODT 6623 T09A05	7470A AUTOCLAVE 15PSI 120°C
H_2SO_4	5.0ml	MALLINCKRODT 5557 N21A13	$SnCl_2$ = 0057-087-2
$KMNO_4$	15.0ml	0057-091-13	NaCl-NH2OH = 0057-088-7
$K_2S_2O_4$	8.0ml	0057-085-9	WAH 10-4-00

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WAH 10-4-00					

STL Pittsburgh

6731009

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

Serial Number	Log Book Number	Start Time
044	96-MT-581	07:30->07:4

QUA-4169

PIPET# H31609

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1	DKWVWF	9-22-00	10-4-00	WAH	100ml	WATER	10-4-00	N/A
2.	DKWW0F	↓	↓	↓	↓	↓	↓	↓
3.	DKWW4F	↓	↓	↓	↓	↓	↓	↓
4.	DLGT1BF	N/A	↓	↓	↓	↓	↓	↓
5.	DLGT1CF	↓	↓	↓	↓	↓	↓	0057-094-3
6.	DLGT1LF	↓	↓	↓	↓	↓	↓	0057-094-4
7.	DKX98F	9-23-00	↓	↓	↓	↓	↓	N/A
8.								
9.								
10.								
11								
12								
13.								
14								
15.								
16.				WAH 10-4-00				
17								
18								
19								
20.								
21.								
22.								
23.								
24.								
25.								

Reagents	Vol (mL)	Ref. Number	Method
HNO_3	2.5ml	BAILINCKRODT 6623 T09A05	7470A AUTOCLAVE 15PSI 120°C
H_2SO_4	5.0ml	BAILINCKRODT 5557 N21A13	SnCl2 = 0057-087-2
$KMNO_4$	15.0ml	0057-091-13	NaCl-NH2OH: 0057-088-7
$K_2S_2O_4$	8.0ml	0057-085-9	WAH 10-4-00

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WAH 10-4-00					

Pittsburgh, PA

REQUESTED BY: **MURPHYJ**

673 1010

METHOD: QO Inductively Coupled Plasma (6010B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
12D	DKRKG	___ ___ ___	269275	054156	A-34-QO	C0I210229	001		SOLID	0	2 1
13E,14A	DKVTQ	___ ___ ___	269276	054156	A-34-QO	C0I220233	001		SOLID	0	2 1
14A CLP1	DKWE0	___ ___ ___	269273	375241	A-34-QO	C0I220289	001		SOLID	0	6 1
14A CLP1	DKWE6	___ ___ ___	269274	375241	A-34-QO	C0I220289	002		SOLID	0	6 1
18A CLP1	DL6LV	___ ___ ___	269279	399411	A-34-QO	C0I280138	001		SOLID	0	3 1
18A CLP1	DL6M0	___ ___ ___	269280	399411	A-34-QO	C0I280138	002		SOLID	0	3 1
18C CLP1	DL7XC	___ ___ ___	269278	020247	A-34-QO	C0I280265	001		SOLID	0	5 1
18B,C CLP1	DL90T	___ ___ ___	269277	020247	A-34-QO	C0I290146	001		SOLID	0	4 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10-2-00 9:00
	[signature]	10-2-00 10:00

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

673 1011

PSR024 10/04/00 5:58:36 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 005

REQUESTED BY: RIZZOC

METHOD: QO Inductively Coupled Plasma (6010B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18A CLP1	DL6LV	___ ___ ___	269885	399411	A-34-QO	C0I280138	001		SOLID	0	3 1
18A CLP1	DL6M0	___ ___ ___	269886	399411	A-34-QO	C0I280138	002		SOLID	0	3 1
18C CLP1	DL7XC	___ ___ ___	269889	020247	A-34-QO	C0I280265	001		SOLID	0	5 1
18B,C CLP1	DL90T	___ ___ ___	269888	020247	A-34-QO	C0I290146	001		SOLID	0	4 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
A Lee	Cynthia A	10-4-00 08:00
Cynthia A	A Lee	10-4-00

673 1012

PSR024 10/03/00 11:11:35 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: HOYLEW

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
12D	DKRKG	___ ___ ___	269527	054156	A-OM-08	C0I210229	001	SOLID		0	2 1
13E,14A	DKVTQ	___ ___ ___	269530	054156	A-OM-08	C0I220233	001	SOLID		0	2 1
14A CLP1	DKWE0	___ ___ ___	269528	375241	A-OM-08	C0I220289	001	SOLID	TCLP LEACHATE	0	6 1
14A CLP1	DKWE6	___ ___ ___	269529	375241	A-OM-08	C0I220289	002	SOLID		0	6 1
18A CLP1	DL6LV	___ ___ ___	269531	399411	A-OM-08	C0I280138	001	SOLID		0	3 1
18A CLP1	DL6M0	___ ___ ___	269532	399411	A-OM-08	C0I280138	002	SOLID		0	3 1
18C CLP1	DL7XC	___ ___ ___	269534	020247	A-OM-08	C0I280265	001	SOLID		0	5 1
18B,C CLP1	DL90T DLFHGB	___ ___ ___	269533	020247	A-OM-08	C0I290146	001	SOLID		0	4 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
William a Hoyle	William a Hoyle	10-4-00 05:30
William a Hoyle	William a Hoyle	10-4-00 06:30

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

673 1013

GENERAL CHEMISTRY DATA

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0271/SDC/004

General Chemistry

Lot-Sample #...: C0I280138-001 Work Order #...: DL6LV Matrix.....: SOLID
Date Sampled...: 09/27/00 Date Received..: 09/28/00
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	6.2		No Units	SW846 9045C	09/28/00	0272412
	Dilution Factor: 1			MS Run #.....: 0272180		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/30/00	0274110
	Dilution Factor: 1			MS Run #.....: 0274019		
Percent Solids	95.8		%	MCAWW 160.3 MOD	09/29-09/30/00	0273248
	Dilution Factor: 1			MS Run #.....: 0273103		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	10/03/00	0277443
	Dilution Factor: 1			MS Run #.....: 0277205		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	10/03/00	0277439
	Dilution Factor: 1			MS Run #.....: 0277204		

673 1015

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0271/SDC/005

General Chemistry

Lot-Sample #...: C0I280138-002 Work Order #...: DL6M0 Matrix.....: SOLID
Date Sampled...: 09/27/00 Date Received..: 09/28/00
% Moisture.....: 9.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	7.1		No Units	SW846 9045C	09/28/00	0272412
		Dilution Factor: 1		MS Run #.....: 0272180		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/30/00	0274110
		Dilution Factor: 1		MS Run #.....: 0274019		
Percent Solids	90.7		%	MCAWW 160.3 MOD	09/29-09/30/00	0273248
		Dilution Factor: 1		MS Run #.....: 0273103		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	10/03/00	0277443
		Dilution Factor: 1		MS Run #.....: 0277205		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	10/03/00	0277439
		Dilution Factor: 1		MS Run #.....: 0277204		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0I280138 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: DLG72101		MB Lot-Sample #:	A0J030000-443	
	ND	200	mg/kg	SW846 7.3.3	10/03/00	0277443
		Dilution Factor: 1				
Reactive Sulfide		Work Order #: DLG71101		MB Lot-Sample #:	A0J030000-439	
	ND	200	mg/kg	SW846 7.3.4	10/03/00	0277439
		Dilution Factor: 1				

NOTE(S):

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

673 1017

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I280138 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH		Work Order #: DL7N1101	LCS Lot-Sample#: C0I280000-412		
	101	(85 - 115)	SW846 9045C	09/28/00	0272412
		Dilution Factor: 1			

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I280138 **Work Order #...:** DLDQ4-SMP DLDQ4-DUP **Matrix.....:** WATER

Date Sampled...: 09/29/00 **Date Received..:** 10/02/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	A0J020130-001	
	ND	ND	mg/kg	0.0	(0-20)	SW846 7.3.3	10/03/00	0277443
		Dilution Factor: 1						
		Prep Date. . ..: 0277205				Analysis Date..:		Prep Batch #...:
Reactive Sulfide						SD Lot-Sample #:	A0J020130-001	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	10/03/00	0277439
		Dilution Factor: 1						
		Prep Date ...: 0277204				Analysis Date..:		Prep Batch #...:

673 1019

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I280138 **Work Order #...:** DL6LV-SMP DL6LV-DUP **Matrix.....:** SOLID

Date Sampled...: 09/27/00 **Date Received..:** 09/28/00

% Moisture.....: 4.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: C0I280138-001		
	95.8	96.0	%	0.26	(0-20)	MCAWW 160.3 MOD	09/29-09/30/00	0273248
		Dilution Factor: 1						
		Prep Date.....: 0273103				Analysis Date..:	Prep Batch #...:	
Ignitability						SD Lot-Sample #: C0I280138-001		
	No Units 0				(0-0.0)	SW846 SECTION 7.1	09/30/00	0274110
		Dilution Factor: 1						
		Prep Date.....: 0274019				Analysis Date..:	Prep Batch #...:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I280138 **Work Order #...:** DL6L1-SMP DL6L1-DUP **Matrix.....:** SOLID

Date Sampled...: 09/27/00 **Date Received..:** 09/28/00

% Moisture.....: 26

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH						SD Lot-Sample #: C0I280133-002		
	6.8	6.8	No Units	0.0	(0-20)	SW846 9045C	09/28/00	0272412

Dilution Factor: 1

Prep Date.....: 0272180 Analysis Date..: Prep Batch #...:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I280138 **Work Order #...:** DL90T-SMP DL90T-DUP **Matrix.....:** SOLID

Date Sampled...: 09/22/00 **Date Received..:** 09/23/00

% Moisture.....: 40

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #: C0I290146-001		
	ND	ND	mg/kg	0.0	(0-20)	SW846 7.3.3	10/03/00	0277443
		Dilution Factor 1						
		Prep Date.....: 0277205				Analysis Date..:		Prep Batch #...:
Reactive Sulfide						SD Lot-Sample #: C0I290146-001		
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	10/03/00	0277439
		Dilution Factor: 1						
		Prep Date.....: 0277204				Analysis Date..:		Prep Batch #...:

STL Pittsburgh
pH LOG SHEET

673 1022

Lot No.	Batch No.	SDG No.
COI280133 >	0272412	
COI280138		

Page ____ of ____

Analyst: PETER GROVE

Date: 9-28-00

Start Time: 16:15

pH Meter Calibration

Reading	Buffer	Manf. Lot No.	Rec'd	Expire
4.00	4.0	LabChem 9245-18	5-19-00	9-8-01
7.01	7.0	0062-04		3-1-02
10.07	10.0	0047-16		3-8-01

LCS ID No.: 342-162-3 Exp. 3-1-02 **Relative Percent Difference =** 0 %

Range = ± .05 pH units

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X_1 = Original Result

X_2 = Duplicate

pH Liquid

Sample ID	pH Reading
LCS	

pH Solid

Sample ID	pH Reading
LCS	7.05
COI280133-002	6.76
-002 DUP	6.76
-003	6.71
-004	7.28
COI280138-001	6.19
-002	7.08
LCS	7.05

PSR024 9/28/00 13:16:50 MT SAMPLE CUSTODIAN REMOVAL REQUEST 673 1023 PAGE 001

REQUESTED BY: GROVEP

OD: OZ pH (9045C) - Non-Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18A CLP1	DL6L1-1-0X	___ ___ ___	267835	375241	A-88-OZ	C0I280133	002		SOLID	5	1
18A CLP1	DL6L6-1-0X	___ ___ ___	267836	375241	A-88-OZ	C0I280133	003		SOLID	5	1
18A CLP1	DL6L9-1-0X	___ ___ ___	267837	375241	A-88-OZ	C0I280133	004		SOLID	5	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		9-28-00 15:20
		9-28-00 15:35

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

PSR024 9/28/00 13:48:55 MT SAMPLE CUSTODIAN REMOVAL REQUEST 673 1024 PAGE 001

REQUESTED BY: GROVEP

pH 9-28-00 pH 9-28-00
OD: ~~FJ~~ 02 pH (9040) ~~Aqueous~~ Soil

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18A CLP1	DL6LV-1-11	___ ___ ___	267872	399411	I-88-FJ	C01280138	001		~~WATER~~ Soil	3	1
18A CLP1	DL6M0-1-11	___ ___ ___	267873	399411	I-88-FJ	C01280138	002		pH 9-28-00 ~~WATER~~ Soil	3	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		9-28-00 15:50
		9-28-00 16:10

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

673 1625

4020

STL Pittsburgh

TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Lot No.	Lot No.	Lot No.	Batch No.
COI220286 ·	COI280257-1 ·	COI290126 ·	0273238
COI260219 ·	COI260227 ·	COI220273 ·	0273242
COI280263 ·	COI270134 ·	COI270139	0273244
COI260208 ·	COI280138 ·	COI280133	0273248
COI270130 ·	COI270256 ·		0273253
			0273255 0273257 0273292

Analyst: CLLOHEYDE

In: Date 9-29-00 Time 1415 0800

Out: Date 9-30-00 Time 0500

Balance ID #: C94817

Oven Temp: 103°C±2°C

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COI220286-002	52	1.03	6.40	5.80
-003	45	1.04	6.31	5.74
-004	56	1.04	6.06	5.58
-005	76	1.06	6.24	5.62
-006	69	1.05	6.39	5.89
-007	61	1.07	6.24	5.48
-008	44	1.04	6.05	5.52
-009	26	1.04	6.22	5.64
-010	96	1.04	6.52	5.82
COI260219-001	78	1.03	6.17	4.94
-002	109	1.05	6.64	6.23
-003	46	1.06	6.06	5.39
-004	63	1.09	6.35	5.75
-005	53	1.03	6.13	5.64
-006	88	1.07	5.86	5.22
-007	104	1.06	7.00	6.54
-007D	47	1.04	6.30	5.93
-008	66	1.04	6.97	6.40
-009	48	1.05	6.53	6.01
COI280263-001	94	1.06	6.19	5.64
-002	60	1.05	6.51	6.03
-003	68	1.06	5.87	4.95
-004	102	1.04	6.19	5.40
COI260208-001	6	1.05	7.87	7.00
-002	21	1.06	6.12	5.61
-003	19	1.06	5.80	5.25
-004	17	1.05	6.05	5.83
-005	111	1.02	6.04	5.50
-006	65	1.01	6.82	6.33
-007	98	1.06	7.00	6.29
-007D	29	1.06	6.61	6.00
-008	5	1.05	6.16	5.73
-009	8	1.09	6.22	5.82
COI270130-001	33	1.06	6.73	6.03
-002	24	1.06	5.83	5.41
-003	101	1.05	6.98	6.43

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COI270130-004	84	1.07	5.98	5.45
-005	91	1.05	5.89	5.36
-006	72	1.06	6.05	5.66
COI280257-001	93	1.06	7.10	6.03
COI260227-002	86	1.06	6.38	5.86
-003	74	1.07	6.11	5.62
-004	62	1.09	6.50	5.89
-005	87	1.08	6.05	5.03
-006	105	1.07	6.36	5.28
-007	106	1.06	7.47	7.05
COI270134-002	7	1.06	5.62	4.85
-003	54	1.05	7.06	6.33
-004	70	1.06	6.22	5.69
-005	67	1.07	6.05	5.27
-006	92	1.06	7.41	6.65
-007	39	1.05	7.52	6.40
-007D	20	1.07	6.38	5.40
-008	40	1.03	7.50	6.36
-009	18	1.06	7.67	7.20
-010	97	1.04	6.34	5.61
-011	15	1.04	6.19	5.58
-012	59	1.05	6.25	5.77
-013	82	1.08	6.45	6.04
COI280138-001	42	1.05	6.23	6.01
-001D	10	1.07	6.32	6.11
-002	58	1.05	6.75	6.22
COI270256-001	73	1.04	6.62	4.25
-002	50	1.05	6.79	4.61
-003	41	1.04	6.55	5.07
-004	4	1.06	6.27	4.21
COI290126-001	27	1.06	6.41	5.55
-002	99	1.05	7.19	6.07
-003	22	1.06	6.64	5.97
-004	81	1.05	7.00	6.11
-005	9	1.07	6.25	5.19
-006	31	1.06	7.05	6.24

STL PT/Aug-00/96-003/TSLOG.DOC

STL Pittsburgh

TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET 673 1026

Lot No. | Lot No. | Lot No. | Batch No.

Analyst: CLLOYDE 14

In: Date 9-29-00 Time 1300 11:15

Out: Date 9-30-00 Time 0800

Balance ID #: 094817

Oven Temp: 103°C±2°C

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE	SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COE290126007	L1	1.05	6.45	5.69	COE220273031	12	1.06	9.82	9.82
-008	55	1.07	6.86	5.84	-032	23	1.06	11.42	11.28
-009	71	1.07	6.85	5.92	-033	16	1.03	9.68	9.54
-010	34	1.06	6.26	5.23	-034	35	1.05	7.50	7.47
-011	83	1.05	6.40	5.49	-035	107	1.04	6.79	6.49
COE220273001	P3	1.13	7.55	7.45	036	25	1.05	6.58	6.54
-002	J2	1.08	8.71	8.51	037	VOID 9-29-00			
-003	21B	1.11	10.92	10.57	038	1	1.05	5.96	3.96
-004	V	1.12	5.94	5.84	039	14	1.07	5.57	5.00
-005	181	1.12	6.83	6.60	040	13	1.05	5.15	4.61
-006	PU	1.12	11.43	11.01	-041	29	1.07	5.31	4.97
-007	E1	1.14	9.62	9.25	042	32	1.04	5.50	4.70
-008	36	1.05	8.06	7.91	043	97	1.05	4.41	3.74
-009	89	1.04	6.48	6.25	044	49	1.02	4.64	2.81
-010	112	1.04	6.00	5.89	045	95	1.05	4.62	2.63
-010D	100	1.05	6.85	6.68	046	3	1.04	5.16	3.57
-011	153	1.12	9.46	9.33	047	38	1.06	6.25	6.20
-012	J5	1.06	6.99	6.98	048	75	1.10	9.00	8.47
-014	J17	1.08	7.88	7.71	049	110	1.05	6.26	5.72
-015	21C	1.12	9.21	9.16	049D	43	1.03	6.82	6.28
-016	CA	1.13	6.14	6.12	COE270139001	P27	1.06	7.96	7.28
-017	28	1.05	9.34	9.12	-001D	821	1.01	7.62	6.92
-018	103	1.05	6.43	3.25	-002	J15	1.07	7.14	6.66
-019	64	1.04	3.24	3.13	-003	P8	1.06	6.78	6.13
-020	2	1.05	9.12	4.33	-004	X5	1.08	6.51	6.08
-021	30	1.03	5.02	4.30	-005	P10	1.06	6.25	4.22
022	1151	1.10	5.62	2.24	-006	P28	1.06	6.20	5.25
023	57	1.05	6.03	5.90	-007	1A1	1.00	6.00	4.97
024	108	1.04	6.06	2.39	-008	211	1.03	7.01	6.09
025	80	1.04	5.49	4.34	-009	Y9	1.07	7.28	6.49
026	85	1.01	8.94	8.84	COE280133002	TX	1.00	6.12	4.72
027	37	1.07	11.40	11.37	-003	Y10	1.07	6.34	5.68
028	51	1.04	9.25	9.15	-004	P13	1.06	6.87	6.01
029	90	1.05	9.20	9.02	-005	Y1	1.05	6.48	5.33
-030	XX	1.09	6.61	6.53	-006	1AA	1.00	7.21	6.51
-030D	AB	1.15	5.96	5.82					

STL PT/Aug-00/96-003/TSLOG.DOC

425 A

7014

673 1027 **STL - Pittsburgh WATER CONTENT SHEET**

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10.29 21 AM
REVISED 9/30/00 10 31 58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 ~~C0I280133~~ C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0I220286	002	SMP	52	1 03	6 4	5 8	8 00	5 00	0 6	11 173	88 827
C0I220286	003	SMP	45	1 04	6 31	5 74	8 00	5 00	0 57	10 816	89 184
C0I220286	004	SMP	56	1 04	6	5.58	8 00	5 00	0 42	8 468	91 532
C0I220286	005	SMP	76	1.06	6.24	5 62	8 00	5 00	0 62	11 969	88 031
C0I220286	006	SMP	69	1 05	6 39	5 89	8 00	5 00	0 5	9.363	90 637
C0I220286	007	SMP	61	1 07	6.21	5 48	8 00	5:00	0 73	14 202	85 798
C0I220286	008	SMP	44	1.04	6 05	5 52	8 00	5 00	0.53	10 579	89 421
C0I220286	009	SMP	26	1 04	6.22	5 64	8.00	5 00	0 58	11.197	88 803
C0I220286	010	SMP	96	1 04	6 52	5 82	8.00	5 00	0 7	12 774	87 226
C0I260219	001	SMP	78	1 03	6 17	4 94	8 00	5 00	1 23	23.93	76 07
C0I260219	002	SMP	109	1 05	6 64	6.23	8 00	5 00	0 41	7.335	92 665
C0I260219	003	SMP	46	1 06	6 06	5 39	8 00	5 00	0 67	13.4	86.6
C0I260219	004	SMP	63	1 09	6 35	5 75	8 00	5 00	0 6	11 407	88 593
C0I260219	005	SMP	53	1 03	6 13	5 64	8 00	5 00	0 49	9.608	90 392
C0I260219	006	SMP	88	1 07	5 86	5.22	8 00	5 00	0 64	13 361	86 639
C0I260219	007	SMP	104	1.06	7	6.54	8 00	5 00	0 46	7 744 RPD 9.0%	92 256
C0I260219	007D	SMP	47	1 04	6 3	5.93	8 00	5 00	0.37	7 034	92 966
260219	008	SMP	66	1 04	6 97	6 4	8 00	5 00	0 57	9 612	90 388

673 1028

STL - Pittsburgh WATER CONTENT SHEET

HEET NUM 0009020
.ESTED CLL 9/29/00
CHECKED: PMG 9-30-00

CREATED: 9/30/00 10 29 21 AM
REVISED: 9/30/00 10 31 58 AM

COMMENTS:
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 ~~C0I~~ 13000
C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC
C0I260219	009	SMP	48	1 05	6 53	6 07	8:00	5 00	0 46	8 394	91.606
C0I280263	001	SMP	94	1 06	6.19	5 64	8 00	5 00	0 55	10 721	89.279
C0I280263	002	SMP	60	1 05	6 51	6 03	8.00	5.00	0 48	8 791	91 209
C0I280263	003	SMP	68	1 06	5 87	4 95	8 00	5 00	0 92	19 127	80 873
C0I280263	004	SMP	102	1 04	6 19	5 4	8 00	5 00	0.79	15 34	84.66
C0I260208	001	SMP	6	1 05	7.87	7	8 00	5:00	0 87	12 757	87.243
260208	002	SMP	21	1 06	6 12	5 61	8:00	5:00	0 51	10 079	89.921
C0I260208	003	SMP	19	1 06	5 8	5 25	8 00	5.00	0 55	11 603	88 397
C0I260208	004	SMP	17	1.05	6.05	5 83	8.00	5 00	0 22	4 4	95 6
C0I260208	005	SMP	111	1 07	6.04	5 5	8 00	5 00	0 54	10 865	89 135
C0I260208	006	SMP	65	1 07	6 82	6 33	8:00	5 00	0 49	8 522	91 478
C0I260208	007	SMP	98	1 06	7	6 29	8:00	5.00	0 71	11 953	88.047
C0I260208	007D	SMP	29	1 06	6 61	6	8 00	5 00	0 61	10 991	89 009
C0I260208	008	SMP	5	1 05	6 16	5 73	8 00	5 00	0 43	8 415	91.585
C0I260208	009	SMP	8	1 09	6 22	5 82	8.00	5:00	0 4	7 797	92 203
C0I270130	001	SMP	33	1 06	6 73	6 03	8 00	5 00	0 7	12 346	87 654
C0I270130	002	SMP	24	1 06	5 83	5 41	8 00	5.00	0 42	8 805	91 195
C0I270130	003	SMP	101	1 05	6 98	6.43	8 00	5:00	0 55	9 275	90 725

RPD 1.1%

673 1029

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10 29 21 AM
REVISED 9/30/00 10 31 58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 S0 S300 C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0I270130	004	SMP	84	1 07	5 98	5 45	8 00	5 00	0 53	10 794	89 206
C0I270130	005	SMP	91	1 05	5 89	5 36	8 00	5 00	0 53	10 95	89 05
C0I270130	006	SMP	72	1 06	6 05	5 66	8 00	5.00	0 39	7 816	92 184
C0I280257	001	SMP	93	1 06	7 1	6 03	8.00	5 00	1 07	17 715	82 285
C0I260227	002	SMP	86	1 06	6 38	5 86	8:00	5 00	0 52	9.774	90 226
C0I260227	003	SMP	74	1 07	6 11	5 62	8.00	5 00	0 49	9 722	90 278
C0I260227	004	SMP	62	1 09	6 5	5.89	8 00	5 00	0 61	11.275	88 725
C0I260227	005	SMP	87	1 08	6 05	5 03	8:00	5:00	1.02	20 523	79 477
C0I260227	006	SMP	105	1.07	6 36	5 78	8:00	5:00	0 58	10 964	89 036
C0I260227	007	SMP	106	1 06	7 47	7 05	8 00	5 00	0 42	6 552	93 448
C0I270134	002	SMP	7	1.06	5 62	4 85	11 15	5 00	0 77	16 886	83 114
C0I270134	003	SMP	54	1 05	7 06	6 33	11 15	5 00	0.73	12 146	87 854
C0I270134	004	SMP	70	1 06	6 22	5 69	11 15	5 00	0 53	10 271	89 729
C0I270134	005	SMP	67	1 07	6 05	5 27	11 15	5.00	0 78	15 663	84.337
C0I270134	006	SMP	92	1 06	7 47	6 65	11 15	5 00	0.82	12 793	87 207
C0I270134	007	SMP	39	1 05	7 52	6 4	11 15	5 00	1 12	17 311	82 689
70134	007D	SMP	20	1 07	6 38	5 4	11 15	5 00	0 98	18 456	81 544
C0I270134	008	SMP	40	1 03	7 5	6 36	11 15	5 00	1 14	17 62	82 38

STL - Pittsburgh WATER CONTENT SHEET

673 1030

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMC 9-30-00

CREATED 9/30/00 10 29.21 AM
REVISED 9/30/00 10 31 58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 C0 [illegible] C0F280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0I270134	009	SMP	18	1.06	7 67	7 2	11:15	5:00	0 47	7 11	92 89
C0I270134	010	SMP	77	1 04	6 34	5 61	11 15	5.00	0 73	13 774	86 226
C0I270134	011	SMP	15	1.04	6.19	5.58	11 15	5 00	0.61	11.845	88 155
C0I270134	012	SMP	59	1 05	6 25	5 77	11 15	5:00	0 48	9 231	90 769
C0I270134	013	SMP	82	1.08	6 45	6 04	11:15	5 00	0 41	7 635	92 365
C0I280138	001	SMP	42	1 05	6 23	6 01	11 15	5 00	0 22	4 247	95 753
C0I280138	001D	SMP	10	1 07	6 32	6 11	11 15	5 00	0 21	4	96
C0I280138	002	SMP	58	1 05	6.75	6 22	11:15	5 00	0 53	9 298	90.702
C0I270256	001	SMP	73	1 04	6 62	4.25	11.15	5 00	2 37	42 473	57 527
C0I270256	002	SMP	50	1 05	6 79	4 61	11:15	5 00	2 18	37.979	62 021
C0I270256	003	SMP	41	1 04	6.55	5 07	11 15	5 00	1 48	26 86	73.14
C0I270256	004	SMP	4	1.06	6 27	4 21	11 15	5 00	2 06	39 539	60 461
C0I290126	001	SMP	27	1.06	6 41	5 55	11 15	5 00	0.86	16 075	83 925
C0I290126	002	SMP	99	1 05	7.19	6 07	11:15	5:00	1 12	18 241	81.759
C0I290126	003	SMP	22	1 06	6.64	5 97	11 15	5 00	0 67	12 007	87 993
C0I290126	004	SMP	81	1.05	7	6 11	11 15	5 00	0 89	14 958	85 042
C0I290126	005	SMP	9	1 07	6 25	5 19	11 15	5 00	1 06	20 463	79 537
290126	006	SMP	31	1 06	7 05	6 24	11.15	5 00	0 81	13 523	86 477

673 1031

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10 29 21 AM
REVISED 9/30/00 10 31 58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0I290126	007	SMP	11	1 05	6.45	5.69	11 15	5:00	0 76	14 074	85 926
C0I290126	008	SMP	55	1 07	6 86	5 84	11 15	5 00	1 02	17 617	82.383
C0I290126	009	SMP	71	1.07	6.85	5 92	11.15	5 00	0 93	16 09	83 91
C0I290126	010	SMP	34	1 06	6 26	5 23	11:15	5 00	1 03	19 808	80 192
C0I290126	011	SMP	83	1 05	6 4	5 49	11 15	5 00	0 91	17 009	82 991
C0I220273	001	SMP	P3	1 13	7 55	7 45	13:00	5:00	0.1	1 558	98 442
C0I220273	002	SMP	J2	1 08	8 71	8 51	13:00	5 00	0 2	2 621	97 379
C0I220273	003	SMP	21B	1 11	10 92	10 57	13 00	5 00	0 35	3 568	96 432
C0I220273	004	SMP	V	1 12	5 94	5 84	13 00	5 00	0 1	2.075	97 925
C0I220273	005	SMP	181	1.12	6 83	6.6	13:00	5 00	0 23	4.028	95 972
C0I220273	006	SMP	PU	1 12	11 43	11.01	13 00	5:00	0 42	4 074	95 926
C0I220273	007	SMP	E1	1 14	9 62	9 25	13 00	5 00	0.37	4 363	95 637
C0I220273	008	SMP	36	1 05	8 06	7 91	13:00	5 00	0.15	2 14	97 86
C0I220273	009	SMP	89	1 04	6 48	6.25	13 00	5 00	0 23	4 228	95 772
C0I220273	010	SMP	112	1.04	6	5 89	13 00	5 00	0 11	2 218	97 782
C0I220273	010D	SMP	100	1 05	6 85	6 68	13 00	5 00	0 17	2 931	97 069
C0I220273	011	SMP	153	1 12	9 46	9 33	13.00	5 00	0 13	1 559	98 441
C0I220273	012	SMP	J5	1 06	6.99	6.98	13 00	5 00	0 01	0 169	99 831

STL - Pittsburgh WATER CONTENT SHEET

673 1032

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10 29 21 AM
REVISED 9/30/00 10 31.58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 C0 9/30/00 C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC
C0I220273	014	SMP	J17	1 08	7.88	7 71	13 00	5 00	0.17	2 5	97 5
C0I220273	015	SMP	21C	1 12	9 21	9 16	13 00	5.00	0 05	0 618	99 382
C0I220273	016	SMP	CA	1.13	6 14	6 12	13 00	5.00	0 02	0 399	99 601
C0I220273	017	SMP	28	1 05	9 34	9 12	13 00	5 00	0 22	2 654	97 346
C0I220273	018	SMP	103	1 05	6 43	3 25	13 00	5 00	3 18	59 108	40 892
C0I220273	019	SMP	64	1 04	3 74	3 13	13 00	5 00	0 61	22 593	77 407
C0I220273	020	SMP	2	1 05	9 72	9 33	13 00	5 00	0 39	4 498	95.502
C0I220273	021	SMP	30	1 03	5 02	4 3	13 00	5 00	0 72	18.045	81 955
C0I220273	022	SMP	1151	1 1	5 62	2 24	13.00	5 00	3 38	74.779	25 221
C0I220273	023	SMP	57	1.05	6.03	5.9	13.00	5 00	0 13	2 61	97 39
C0I220273	024	SMP	108	1 04	6 06	2 39	13.00	5 00	3.67	73 108	26 892
C0I220273	025	SMP	80	1 04	5.49	4 34	13 00	5 00	1.15	25 843	74 157
C0I220273	026	SMP	85	1 07	8 94	8 84	13 00	5 00	0 1	1 271	98 729
C0I220273	027	SMP	37	1.07	11 4	11 37	13 00	5.00	0 03	0.29	99 71
C0I220273	028	SMP	51	1 04	9 25	9 15	13 00	5 00	0.1	1 218	98 782
C0I220273	029	SMP	90	1 05	9 2	9.02	13 00	5 00	0 18	2 209	97 791
C0I220273	030	SMP	XX	1 09	6 67	6 53	13.00	5 00	0 14	2.509	97 491
_20273	030D	SMP	AB	1 15	5 96	5 82	13 00	5 00	0 14	2 911	97 089

673 1033

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10 29 21 AM
REVISED 9/30/00 11 21 09 AM

COMMENTS:
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0I220273	031	SMP	12	1 06	9.82	9 82	13 00	5 00	0	0	100
C0I220273	032	SMP	23	1 06	11 42	11 28	13 00	5 00	0 14	1 351	98 649
C0I220273	033	SMP	16	1 03	9 68	9 54	13 00	5 00	0 14	1 618	98 382
C0I220273	034	SMP	35	1 05	7.5	7 47	13 00	5 00	0 03	0 465	99 535
C0I220273	035	SMP	107	1 04	6 79	6 49	13.00	5 00	0 3	5 217	94 783
C0I220273	036	SMP	25	1 05	6 58	6.54	13 00	5 00	0 04	0 723	99 277
C0I220273	038	SMP	1	1 05	5 96	3 96	13 00	5 00	2	40 733	59 267
C0I220273	039	SMP	14	1.07	5 57	5	13 00	5 00	0 57	12 667	87 333
C0I220273	040	SMP	13	1.05	5 15	4 61	13 00	5 00	0 54	13 171	86 829
C0I220273	041	SMP	79	1 07	5 31	4 97	13 00	5 00	0 34	8 019	91 981
C0I220273	042	SMP	32	1 04	5 5	4.7	13 00	5 00	0.8	17 937	82 063
C0I220273	043	SMP	97	1 05	4 41	3 74	13 00	5 00	0 67	19 94	80 06
C0I220273	044	SMP	49	1 02	4 64	2 81	13 00	5 00	1 83	50 552	49 448
C0I220273	045	SMP	95	1 05	4 62	2 63	13.00	5.00	1 99	55 742	44 258
C0I220273	046	SMP	3	1 04	5 16	3 57	13 00	5 00	1 59	38 592	61 408
C0I220273	047	SMP	38	1 06	6 25	6 2	13 00	5 00	0 05	0 963	99 037
C0I220273	048	SMP	75	1 1	9	8.47	13 00	5 00	0 53	6 709	93 291
220273	049	SMP	110	1 05	6 26	5 72	13 00	5 00	0 54	10 365	89 635

673 1034

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009020
TESTED CLL 9/29/00
CHECKED PMG 9-30-00

CREATED 9/30/00 10.29 21 AM
REVISED 9/30/00 10 31 58 AM

COMMENTS
C0I220286 C0I260219 C0I280263 C0I260208 C0I270130 C0I280257 C0I260227 C0I270134 C0I280138 C0I270256 C0I290126 C0I220273 C0I270139 C0I280133

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0I220273	049D	SMP	43	1 03	6.82	6 28	13 00	5:00	0 54	9 326	90 674
C0I270139	001	SMP	P27	1.06	7 96	7 28	14 50	5.00	0 68	9.855	90.145
C0I270139	001D	SMP	821	1 01	7 62	6 92	14.50	5 00	0 7	10 59	89 41
C0I270139	002	SMP	J15	1 07	7 14	6 66	14 50	5 00	0 48	7 908	92.092
C0I270139	003	SMP	P8	1 06	6 78	6.13	14 50	5 00	0 65	11 364	88 636
C0I270139	004	SMP	X5	1 08	6.51	6.08	14 50	5 00	0 43	7 919	92 081
.70139	005	SMP	P10	1 06	6 25	4 22	14 50	5 00	2 03	39 114	60 886
C0I270139	006	SMP	P28	1 06	6 7	5 25	14:50	5:00	1 45	25 709	74 291
C0I270139	007	SMP	1A1	1	6	4 97	14:50	5 00	1 03	20 6	79.4
C0I270139	008	SMP	211	1 03	7.01	6 09	14 50	5 00	0 92	15 385	84 615
C0I270139	009	SMP	Y9	1 07	7 28	6 49	14 50	5 00	0 79	12 721	87 279
C0I280133	002	SMP	TX	1	6 12	4 77	14 50	5:00	1 35	26 367	73 633
C0I280133	003	SMP	Y10	1 07	6 34	5 68	14 50	5:00	0 66	12 524	87 476
C0I280133	004	SMP	P13	1 06	6 87	6 01	14 50	5 00	0 86	14 802	85 198
C0I280133	005	SMP	Y1	1 05	6 48	5 33	14 50	5.00	1 15	21 179	78 821
C0I280133	006	SMP	1AA	1	7 21	6 51	14.50	5 00	0.7	11 272	88 728

REQUESTED BY: LOHEYDEC **673 1035**

OD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
CLP1 14A	DKWCX-1-OV		268015	375241	A-88-OV	C01220286	002		SOLID	0 4	1
CLP1 14A	DKWD5-1-OV		268016	375241	A-88-OV	C01220286	003		SOLID	0 4	1
CLP1 14A	DKWD8-1-OV		268017	375241	A-88-OV	C01220286	004		SOLID	0 4	1
CLP1 14A	DKWDC-1-OV		268018	375241	A-88-OV	C01220286	005		SOLID	0 4	1
CLP1 14A	DKWDD-1-OV		268019	375241	A-88-OV	C01220286	006		SOLID	0 4	1
CLP1 14A	DKWDE-1-OV		268020	375241	A-88-OV	C01220286	007		SOLID	0 4	1
CLP1 14A	DKWDG-1-OV		268021	375241	A-88-OV	C01220286	008		SOLID	0 4	1
CLP1 14A	DKWDH-1-OV		268022	375241	A-88-OV	C01220286	009		SOLID	0 4	1
CLP1 14A	DKWDJ-1-OV		268023	375241	A-88-OV	C01220286	010		SOLID	0 2	1
15D 16ACLP1	DL2VJ-1-OV		268024	375241	A-88-OV	C01260219	001		SOLID	0 4	1
--- CLP1	DL2VW-1-OV		268025	375241	A-88-OV	C01260219	002		SOLID	0 4	1
15D CLP1	DL2W2-1-OV		268026	375241	A-88-OV	C01260219	003		SOLID	0 4	1
15D CLP1	DL2W3-1-OV		268027	375241	A-88-OV	C01260219	004		SOLID	0 4	1
15D CLP1	DL2W7-1-OV		268028	375241	A-88-OV	C01260219	005		SOLID	0 4	1
15D CLP1	DL2WE-1-OV		268029	375241	A-88-OV	C01260219	006		SOLID	0 4	1
15D CLP1	DL2WG-1-2L		268030	375241	A-88-OV	C01260219	007		SOLID	0 4	2
15D CLP1	DL2WK-1-OV		268031	375241	A-88-OV	C01260219	008		SOLID	0 4	1
15D CLP1	DL2WL-1-OV		268032	375241	A-88-OV	C01260219	009		SOLID	0 4	1
CLP1 15D 16A	DL2X2-1-OV		268033	375241	A-88-OV	C01260227	002		SOLID	0 4	1
CLP1 15D 16A	DL2X9-1-OV		268034	375241	A-88-OV	C01260227	003		SOLID	0 4	1
CLP1 15D 16A	DL2XF-1-OV		268035	375241	A-88-OV	C01260227	004		SOLID	0 4	1
CLP1 15D 16A	DL2XG-1-01		268036	375241	A-88-OV	C01260227	005		SOLID	0 3	1
CLP1 15D 16A	DL2XL-1-01		268037	375241	A-88-OV	C01260227	006		SOLID	0 3	1
15D 16A	DL2XM-1-01		268038	375241	A-88-OV	C01260227	007		SOLID	0 3	1
~~18A CLP1~~	~~DL6L1-1-OV~~		~~268039~~	~~375241~~	~~A-88-OV~~	~~C01280133~~	~~002~~		~~SOLID~~	~~0 5~~	~~1~~
			VOID cw 9/29/00								
~~18A CLP1~~	~~DL6L6-1-OV~~		~~268040~~	~~375241~~	~~A-88-OV~~	~~C01280133~~	~~003~~		~~SOLID~~	~~0 5~~	~~1~~

7024 9/29/00 4:13:13 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 002

REQUESTED BY: LOHEYDEC

METHOD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18A CLP1	DL6L9-1-OV		268041	375241	A-88-OV	COI280133	004		SOLID	0	5 1
18A CLP1	DL6LC-1-OV		268042	375241	A-88-OV	COI280133	005		SOLID	0	5 1
18A CLP1	DL6LK-1-OV		268043	375241	A-88-OV	COI280133	006		SOLID	0	5 1

VOID
CW 9-29-00

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 0630
[signature]	[signature]	9-29-00 0815

REQUESTED BY: LOHEYDEC **673 1037**

'OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
15D, CLP1	DL2Q2-1-01	___ ___ ___	268052	051465	A-88-SM	C0I260208	001		SOLID	0	3 1
15D, CLP1	DL2RC-1-01	___ ___ ___	268053	051465	A-88-SM	C0I260208	002		SOLID	0	3 1
15D, CLP1	DL2RF-1-01	___ ___ ___	268054	051465	A-88-SM	C0I260208	003		SOLID	0	3 1
15D, CLP1	DL2RG-1-01	___ ___ ___	268055	051465	A-88-SM	C0I260208	004		SOLID	0	3 1
15D, CLP1	DL2RK-1-01	___ ___ ___	268056	051465	A-88-SM	C0I260208	005		SOLID	0	3 1
15D, CLP1	DL2RM-1-01	___ ___ ___	268057	051465	A-88-SM	C0I260208	006		SOLID	0	3 1
15D, CLP1	DL2RN-1-01	___ ___ ___	268058	051465	A-88-SM	C0I260208	007		SOLID	0	9 2
15D, CLP1	DL2RP-1-01	___ ___ ___	268059	051465	A-88-SM	C0I260208	008		SOLID	0	3 1
15D, CLP1	DL2RT-1-01	___ ___ ___	268060	051465	A-88-SM	C0I260208	009		SOLID	0	3 1
16C CLP1	DL41Q-1-01	___ ___ ___	268062	051465	A-88-SM	C0I270130	001		SOLID	0	3 1
[illegible] CLP1	DL429-1-01	___ ___ ___	268063	051465	A-88-SM	C0I270130	002		SOLID	0	3 1
16C CLP1	DL42C-1-01	___ ___ ___	268064	051465	A-88-SM	C0I270130	003		SOLID	0	3 1
16C CLP1	DL42F-1-01	___ ___ ___	268065	051465	A-88-SM	C0I270130	004		SOLID	0	3 1
16C CLP1	DL42K-1-01	___ ___ ___	268066	051465	A-88-SM	C0I270130	005		SOLID	0	9 1
16C CLP1	DL42M-1-01	___ ___ ___	268067	051465	A-88-SM	C0I270130	006		SOLID	0	3 1
18A CLP1	DL6LV-1-01	___ ___ ___	268075	399411	A-88-SM	C0I280138	001		SOLID	0	3 1
18A CLP1	DL6M0-1-01	___ ___ ___	268076	399411	A-88-SM	C0I280138	002		SOLID	0	3 1
19A/B	DL7T5-1-01	___ ___ ___	268068	378257	A-88-SM	C0I280257	001		SOLID	0	9 1
19A,B,	DL7W5-1-01	___ ___ ___	268048	020247	A-88-SM	C0I280263	001		SOLID	0	4 1
19A,B,	DL7WA-1-01	___ ___ ___	268049	020247	A-88-SM	C0I280263	002		SOLID	0	6 1
19A,B,	DL7WG-1-01	___ ___ ___	268050	020247	A-88-SM	C0I280263	003		SOLID	0	6 1
19A,B,	DL7WJ-1-01	___ ___ ___	268051	020247	A-88-SM	C0I280263	004		SOLID	0	6 1

673 1038

PSR024 9/29/00 4:16:30 MT SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: **LOHEYDEC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
			280257-001		CLL 9.29-00						

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		9-29-00 0630
		9-29-00 1130

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

673 1039

PSR024 9/29/00 8:43:10 MT SAMPLE CUSTODIAN REMOVAL REQUEST

JESTED BY: LOHEYDEC

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18C CLP1	DL8QG-1-01	___ ___ ___	268339	039984	A-88-SM	C01290126	001		SOLID	0	2 1
18C CLP1	DL8QJ-1-01	___ ___ ___	268340	039984	A-88-SM	C01290126	002		SOLID	0	2 1
18C CLP1	DL8QK-1-01	___ ___ ___	268341	039984	A-88-SM	C01290126	003		SOLID	0	2 1
18C CLP1	DL8QL-1-01	___ ___ ___	268342	039984	A-88-SM	C01290126	004		SOLID	0	2 1
18C CLP1	DL8QM-1-01	___ ___ ___	268343	039984	A-88-SM	C01290126	005		SOLID	0	2 1
18C CLP1	DL8QN-1-01	___ ___ ___	268344	039984	A-88-SM	C01290126	006		SOLID	0	2 1
18C CLP1	DL8QQ-1-01	___ ___ ___	268345	039984	A-88-SM	C01290126	007		SOLID	0	2 1
18C CLP1	DL8QR-1-01	___ ___ ___	268346	039984	A-88-SM	C01290126	008		SOLID	0	2 1
18C CLP1	DL8QT-1-01	___ ___ ___	268347	039984	A-88-SM	C01290126	009		SOLID	0	2 1
CLP1	DL8QW-1-01	___ ___ ___	268348	039984	A-88-SM	C01290126	010		SOLID	0	2 1
18C CLP1	DL8R0-1-01	___ ___ ___	268349	039984	A-88-SM	C01290126	011		SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 1045
[signature]	[signature]	9-29-00 1130

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

673 1040

REQUESTED BY: **LOHEYDEC**

OD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
16D CLP1	DL427-1-0V		268276	375241	A-88-OV	C01270134	002		SOLID	0 7	1
16D CLP1	DL42A-1-0V		268277	375241	A-88-OV	C01270134	003		SOLID	0 7	1
16D CLP1	DL42E-1-0V		268278	375241	A-88-OV	C01270134	004		SOLID	0 7	1
16D CLP1	DL42N-1-0V		268279	375241	A-88-OV	C01270134	005		SOLID	0 7	1
16D CLP1	DL42P-1-0V		268280	375241	A-88-OV	C01270134	006		SOLID	0 7	1
16D CLP1	DL42Q-1-2L		268281	375241	A-88-OV	C01270134	007		SOLID	0 13	2
16D CLP1	DL42V-1-0V		268282	375241	A-88-OV	C01270134	008		SOLID	0 5	1
16D CLP1	DL42W-1-01		268283	375241	A-88-OV	C01270134	009		SOLID	0 1	1
16D CLP1	DL431-1-01		268284	375241	A-88-OV	C01270134	010		SOLID	0 1	1
16D CLP1	DL432-1-01		268285	375241	A-88-OV	C01270134	011		SOLID	0 1	1
CLP1	DL435-1-01		268286	375241	A-88-OV	C01270134	012		SOLID	0 1	1
16D CLP1	DL436-1-01		268287	375241	A-88-OV	C01270134	013		SOLID	0 1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 1045
[signature]	[signature]	9-29-00 1130

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

REQUESTED BY: LCHEYDEC 673 1041

MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
17C,D	DL570-1-OU	___ ___ ___	268288	397888	A-88-SM	C01270256	001		SOLID	0	1 1
17C,D	DL57G-1-OU	___ ___ ___	268289	397888	A-88-SM	C01270256	002		SOLID	0	1 1
17C,D	DL57K-1-OU	___ ___ ___	268290	397888	A-88-SM	C01270256	003		SOLID	0	1 1
17C,D	DL57N-1-OU	___ ___ ___	268291	397888	A-88-SM	C01270256	004		SOLID	0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 1045
[signature]	[signature]	9-29-00 1130

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

673 1042

REQUESTED BY: **LOHEYDEC**

IOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
14B	DKW7E-1-01		268292	090421	A-88-SM	C01220273	001		SOLID	0	1 1
14B	DKW7G-1-01		268293	090421	A-88-SM	C01220273	002		SOLID	0	1 1
14B	DKW7J-1-01		268294	090421	A-88-SM	C01220273	003		SOLID	0	1 1
14B	DKW7K-1-01		268295	090421	A-88-SM	C01220273	004		SOLID	0	1 1
14B	DKW7L-1-01		268296	090421	A-88-SM	C01220273	005		SOLID	0	1 1
14B	DKW7N-1-01		268297	090421	A-88-SM	C01220273	006		SOLID	0	1 1
14B	DKW7T-1-01		268298	090421	A-88-SM	C01220273	007		SOLID	0	1 1
14B	DKW7W-1-01		268299	090421	A-88-SM	C01220273	008		SOLID	0	1 1
14B	DKW7X-1-01		268300	090421	A-88-SM	C01220273	009		SOLID	0	1 1
14B	DKW80-1-01		268301	090421	A-88-SM	C01220273	010		SOLID	0	1 1
	DKW83-1-01		268302	090421	A-88-SM	C01220273	011		SOLID	0	1 1
14B	DKW84-1-01		268303	090421	A-88-SM	C01220273	012		SOLID	0	1 1
14B	DKW8A-1-01		268304	090421	A-88-SM	C01220273	014		SOLID	0	1 1
14B	DKW8E-1-01		268305	090421	A-88-SM	C01220273	015		SOLID	0	1 1
14B	DKW8F-1-01		268306	090421	A-88-SM	C01220273	016		SOLID	0	1 1
14B	DKW8G-1-01		268307	090421	A-88-SM	C01220273	017		SOLID	0	1 1
14B	DKW8H-1-01		268308	090421	A-88-SM	C01220273	018		SOLID	0	1 1
14B	DKW8L-1-01		268309	090421	A-88-SM	C01220273	019		SOLID	0	1 1
14B	DKW8Q-1-01		268310	090421	A-88-SM	C01220273	020		SOLID	0	1 1
14B	DKW8W-1-01		268311	090421	A-88-SM	C01220273	021		SOLID	0	1 1
14B	DKW91-1-01		268312	090421	A-88-SM	C01220273	022		SOLID	0	1 1
14B	DKW97-1-01		268313	090421	A-88-SM	C01220273	023		SOLID	0	1 1
14B	DKW99-1-01		268314	090421	A-88-SM	C01220273	024		SOLID	0	1 1
	DKW9D-1-01		268315	090421	A-88-SM	C01220273	025		SOLID	0	1 1
14B	DKW9E-1-01		268316	090421	A-88-SM	C01220273	026		SOLID	0	1 1
14B	DKW9F-1-01		268317	090421	A-88-SM	C01220273	027		SOLID	0	1 1

REQUESTED BY: LOHEYDEC

673 1043

MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
14B	DKW9H-1-01	___ ___ ___	268318	090421	A-88-SM	C01220273	028		SOLID	0	1 1
14B	DKW9J-1-01	___ ___ ___	268319	090421	A-88-SM	C01220273	029		SOLID	0	1 1
14B	DKW9K-1-01	___ ___ ___	268320	090421	A-88-SM	C01220273	030		SOLID	0	1 1
14B	DKW9M-1-01	___ ___ ___	268321	090421	A-88-SM	C01220273	031		SOLID	0	1 1
14B	DKW9N-1-01	___ ___ ___	268322	090421	A-88-SM	C01220273	032		SOLID	0	1 1
14B	DKW9R-1-01	___ ___ ___	268323	090421	A-88-SM	C01220273	033		SOLID	0	1 1
14B	DKW9V-1-01	___ ___ ___	268324	090421	A-88-SM	C01220273	034		SOLID	0	1 1
14B	DKWA2-1-01	___ ___ ___	268325	090421	A-88-SM	C01220273	035		SOLID	0	1 1
14B	DKWA4-1-01	___ ___ ___	268326	090421	A-88-SM	C01220273	036		SOLID	0	1 1
14B	DKWA8-1-01	___ ___ ___	268327	090421	A-88-SM	C01220273	038		SOLID	0	1 1
[illegible]	DKWAD-1-01	___ ___ ___	268328	090421	A-88-SM	C01220273	039		SOLID	0	1 1
14B	DKWAG-1-01	___ ___ ___	268329	090421	A-88-SM	C01220273	040		SOLID	0	1 1
14B	DKWAM-1-01	___ ___ ___	268330	090421	A-88-SM	C01220273	041		SOLID	0	1 1
14B	DKWAN-1-01	___ ___ ___	268331	090421	A-88-SM	C01220273	042		SOLID	0	1 1
14B	DKWAQ-1-01	___ ___ ___	268332	090421	A-88-SM	C01220273	043		SOLID	0	1 1
14B	DKWAV-1-01	___ ___ ___	268333	090421	A-88-SM	C01220273	044		SOLID	0	1 1
14B	DKWAX-1-01	___ ___ ___	268334	090421	A-88-SM	C01220273	045		SOLID	0	1 1
14B	DKWC7-1-01	___ ___ ___	268335	090421	A-88-SM	C01220273	046		SOLID	0	1 1
14B	DKWCM-1-01	___ ___ ___	268336	090421	A-88-SM	C01220273	047		SOLID	0	1 1
14B	DKWCN-1-01	___ ___ ___	268337	090421	A-88-SM	C01220273	048		SOLID	0	1 1
14B	DKWCP-1-01	___ ___ ___	268338	090421	A-88-SM	C01220273	049		SOLID	0	1 1

PSR024 9/29/00 8:42:19 MT *SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: **LOHEYDEC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 1130
[signature]	[signature]	9-29-00 1315

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

PSR024 9/29/00 12:22:04 MT SAMPLE CUSTODIAN REMOVAL REQUEST **673 1045** PAGE 001

REQUESTED BY: **LOHEYDEC**

OD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD		QTY REQD
16D	DL43A-1-01		268442	375241	A-88-OV	C01270139	001		SOLID	0	1	1
16D	DL43C-1-01		268443	375241	A-88-OV	C01270139	002		SOLID	0	1	1
16D	DL43D-1-01		268444	375241	A-88-OV	C01270139	003		SOLID	0	1	1
16D	DL43F-1-01		268445	375241	A-88-OV	C01270139	004		SOLID	0	1	1
16D	DL43G-1-01		268446	375241	A-88-OV	C01270139	005		SOLID	0	1	1
16D	DL43J-1-01		268447	375241	A-88-OV	C01270139	006		SOLID	0	1	1
16D	DL43L-1-01		268448	375241	A-88-OV	C01270139	007		SOLID	0	1	1
16D	DL43P-1-01		268449	375241	A-88-OV	C01270139	008		SOLID	0	1	1
16D	DL43T-1-01		268450	375241	A-88-OV	C01270139	009		SOLID	0	1	1
18A CLP1	DL6L1-1-0V		268435	375241	A-88-OV	C01280133	002		SOLID	0	5	1
18A CLP1	DL6L6-1-0V		268436	375241	A-88-OV	C01280133	003		SOLID	0	5	1
18A CLP1	DL6L9-1-0V		268437	375241	A-88-OV	C01280133	004		SOLID	0	5	1
18A CLP1	DL6LC-1-0V		268438	375241	A-88-OV	C01280133	005		SOLID	0	5	1
18A CLP1	DL6LK-1-0V		268439	375241	A-88-OV	C01280133	006		SOLID	0	5	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	9-29-00 1430
[signature]	[signature]	9-29-00 1500

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

Ignitability
Method: Ignitability (SW7.1.2)

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238

ANALYST: Peter Groff	DATE: 9-30-00
BATCH: 027410	TIME: 10:00

SAMPLE ID	RESULT
COI280235-001	NO
-001 DUP	NO
-002	NO
COI290146-001	NO
COI280265-001	NO

PG 9-30-00

Reviewed by [signature] **Date** 9-30-00

673 1047

PSR024 9/30/00 7:21:27 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: GROVEP

METHOD: IQ Ignitability (SW7.1.2)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
18A CLP1	DL6LV-1-0G	___ ___ ___	268629	399411	A-88-IQ	C0I280138	001		SOLID	3	1
18A CLP1	DL6M0-1-0G	___ ___ ___	268630	399411	A-88-IQ	C0I280138	002		SOLID	3	1
18B,C CLP1	DL90T-1-0J	___ ___ ___	268632	020247	A-88-IQ	C0I290146	001		SOLID	4	1
18C CLP1	DL7XC-1-0J	___ ___ ___	268631	020247	A-88-IQ	C0I280265	001		SOLID	5	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		9-30-00 10:00
		9-30-00 10:20

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

TITRIMETRIC LOGSHEET

673 1048

Analysis Reactive Cyanide
Prep/ Anal. Date 2013/100
Analyst GC/ML

Batch Number 0277443
LCS Number —
LCS Prep Date —
RL

Titrant Name Silver Nitrate
Titrant Normality .02N (.0192N)
Titrant Standardization Date/ Initials — / —

Sample Number	Sample Volume	Dil.	Titrant Vol (mL)	Final Conc.	Units	QC Calculations and Comments
BLK	100 mL		.05 mL	6.25		
DL90T						
DL90T-X						
DL6LV						
DL6MD						
DL94Y						
DL94A						
DL94C						
DL94H						
DL94K						
DL9XC						
DLDQ4						
DLDQ4-X						

10/31/13
GC

Rev. 10/30/98
N:\Metals\Wet Log

673 1049

TITRIMETRIC LOGSHEET

Analysis: Reactive Sulfide
Prep/ Anal. Date: 10/3/00
Analyst: QC / ML

Iodine .02809 10/3/00 QC/ML

Batch Number: 0277439
LCS Number:
LCS Prep Date:
RL:

Titrant Name: Sodium Thiosulfate
Titrant Normality: .02508
Titrant Standardization Date/ Initials: 9/20/00 / MFG

Sample Number	Sample Volume	Dil.	Titrant Vol (mL)	Final Conc.	Units	QC Calculations and Comments
BLK	100 ml		22.5 mL	ND		
DL90T			22.6			
DL90T-X			22.6			
DL6LV			22.6			
DL6M0			22.5			
DL948			22.5			
DL94A			22.5			
DL94C			22.6			
DL94H			22.5			
DL94K			22.6			
DL9XC			22.5			
DLAAA			22.7			
DLDQ4			22.6			
DLPQ4-X			22.6			

10/3/00
QC

Rev. 10/30/98
N:\Metals\Wet Log

673 1050

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 #: C0J140161

Frank Johnson

Memphis Depot

SEVERN TRENT LABORATORIES, INC.

Dave Dunlap
Project Manager

October 31, 2000

673 1051

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0J140161

Sample Receiving:
STL Pittsburgh received a sample on October 14, 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:
Due to the concentration of target compounds detected, the sample was analyzed at a 2X dilution.

The matrix spike duplicate was outside of the control limits for 4,4'-DDT. This may be attributed to the concentration of 4,4'-DDT detected in the original sample.

For the continuing calibration standards analyzed on the DB608 column on October 18, 2000 at 12:57 and 13:24, alpha-BHC and endosulfan sulfate had %D's that were outside of the +/-15%D criteria (+15.9% and +16.6%, respectively). The average %D of all compounds in the continuing calibration standards was 8.8%. These compounds were not detected in the sample.

For the continuing calibration standards analyzed on the DB1701 column on October 18, 2000 at 12:57 and 13:24, endosulfan sulfate had a %D that was outside of the +/-15%D criteria(-16.1%). The average %D of all compounds in the continuing calibration standards was 5.9%. Endosulfan sulfate was not reported in any of the samples.

The form 8's do not reflect that the retention times for the surrogates were updated from continuing calibration standards.

PCB's:
There were no problems associated with the analysis.

Metals:
The matrix spike recoveries were outside of the control limits for lead and zinc. All associated results are flagged with an "N" qualifier.

The serial dilution percent difference was outside of the control limits for beryllium, chromium, iron, and lead. All associated results are flagged with an "E" qualifier.

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0J140161

The relative percent difference between the matrix spike and the matrix spike duplicate was outside of the control limits for lead. All associated results are flagged with an "*" qualifer.

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

General Chemistry:
There were no problems associated with the analyses.

673 1053

METHODS SUMMARY

C0J140161

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Cyanide, Total	SW846 9012A	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3550
PCBs by SW-846 8082	SW846 8082	SW846 3550
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

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

C0J140161

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DM650	001	DF/S1/0287/TOTAL/001	10/13/00	13:45

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.

673 1055

Chain of Custody Record

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

Quanterra

QUA-4124

Client	Project Manager	Date	Chain Of Custody Number
UXB International	Jim Thoren	10/13/00	6716
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
6141 Old Poplar Pk #309	(901) 745-4999 FAX-4280		
City / State / Zip Code	**Site Contact**		
Memphis / TN / 38119	Chris Rose / Tim Rose		
Project Name	**Carrier/Waybill Number**		
Dunn Field			
Contract/Purchase Order/Quote No			

Sample I D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No	Preservative	Condition on Receipt	Analysis: TCL VOA	TCL BNA	PEST	PCB	TAL METALS	CYANIDE	% Moisture
DF/S1/0287/TOTAL/001	10/13/00	1345	SOIL	802/5Gr	Glass/Encore	3/3	NONE		X	X	X	X	X	X	X

Special Instructions

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required
☐ Normal ☒ Rush Thursday if Possible

QC Level
☐ I. ☐ II. ☐ III.

Project Specific (Specify)

	Date	Time
1 Relinquished By: Chris Rose	10/13/00	1430
2 Relinquished By:		
3 Relinquished By:		

	Date	Time
1 Received By:		
2. Received By:		
3 Received By:	10-14-00	1000

Comments

SIL Pittsburgh

6

Cooler Receipt Form
STL Pittsburgh

673 1056

Client: UXB Project: _____ Quote: 54878

Cooler Rec'd & Opened for Temp. Check on: 10-14-00

Coolers Opened and Unpacked on: 10-14-00 By: _____
(Signature)

STL Pittsburgh Lot Number: COJ140161

		Yes	No
1.	Were custody seals on the outside of the cooler?		
	If YES, how many and where? Quantity 2 Location Front		
	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? Bubble wrap		
7.	Were the samples chilled? (Record temperatures on reverse side.)		
8.	Were the samples appropriately preserved?	n/a	
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?	n/a	
15.	Was a sufficient amount of sample sent in each bottle?		

16. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

673 1057

P: Preserved
UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hrdnss PH<2			

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

Comments: Soil Samples

Cooler Number	Temperature
1	2

Bottle Type	Lot Number*

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

STL Pittsburgh

FedEx USA Airbill 813523714767 0200 FedEx Retained Copy

1 From

Date 10/13/00 Sender's FedEx Account Number 1191-4700-0

Sender's Name Chris Rose Phone 901 745-4999

Company LXB Int

Address 6141 Old Poplar Pk

City Memphis State TN ZIP 38119

2 Your Internal Billing Reference

3 To

Recipient's Name Rusty Vincinie Phone 412 820 2091

Company Severn Trent

Address 450 William Pitt Way

City Pittsburgh State PA ZIP 15238

813523714767

4a Express Package Service

1 [X] FedEx Priority Overnight 5 FedEx Standard Overnight 6 FedEx First Overnight

3 FedEx 2Day 20 FedEx Express Saver

Packages up to 150 lbs.

4b Express Freight Service

7 FedEx 1Day Freight 8 FedEx 2Day Freight 83 FedEx 3Day Freight

Packages over 150 lbs.

5 Packaging

6 FedEx Letter 2 FedEx Pak 1 Other Pkg

6 Special Handling

3 [X] Saturday Delivery 33 Sunday Delivery 1 HOLD Weekday at FedEx Location 11 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?
One box must be checked

[X] No 4 Yes Yes 6 Dry Ice Cargo Aircraft Only

7 Payment Bill to

1 [X] Sender 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Total Pkgs 1 Total Weight 38 Total Charges

360

Rev Date 11/98 Part #154815 GBFE 6/99

673 1058

9

673 1059

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 2.96 / g Date Received: 10/14/00
Work Order: DM6501AC Date Extracted:10/18/00
Dilution factor: 1.69 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0292149

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**18**	**J**
71-43-2	Benzene	9.5	U
75-27-4	Bromodichloromethane	9.5	U
75-25-2	Bromoform	9.5	U
74-83-9	Bromomethane	19	U
78-93-3	**2-Butanone**	**4.1**	**J**
75-15-0	Carbon disulfide	9.5	U
56-23-5	Carbon tetrachloride	9.5	U
108-90-7	Chlorobenzene	9.5	U
124-48-1	Dibromochloromethane	9.5	U
75-00-3	Chloroethane	19	U
67-66-3	Chloroform	9.5	U
74-87-3	Chloromethane	19	U
75-34-3	1,1-Dichloroethane	9.5	U
107-06-2	1,2-Dichloroethane	9.5	U
75-35-4	1,1-Dichloroethene	9.5	U
540-59-0	1,2-Dichloroethene (total)	9.5	U
78-87-5	1,2-Dichloropropane	9.5	U
10061-01-5	cis-1,3-Dichloropropene	9.5	U
10061-02-6	trans-1,3-Dichloropropene	9.5	U
100-41-4	Ethylbenzene	9.5	U
591-78-6	2-Hexanone	38	U
75-09-2	Methylene chloride	9.5	U
108-10-1	4-Methyl-2-pentanone	38	U
100-42-5	Styrene	9.5	U
79-34-5	1,1,2,2-Tetrachloroethane	9.5	U
127-18-4	Tetrachloroethene	9.5	U
108-88-3	Toluene	9.5	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID: C0J140161 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 2.96 / g Date Received: 10/14/00
Work Order: DM6501AC Date Extracted: 10/18/00
Dilution factor: 1.69 Date Analyzed: 10/18/00
Moisture %: 11

QC Batch: 0292149

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	9.5	U
79-00-5	1,1,2-Trichloroethane	9.5	U
79-01-6	Trichloroethene	9.5	U
75-01-4	Vinyl chloride	19	U
1330-20-7	Xylenes (total)	9.5	U

673 1063

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AC Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	57.6	
108-90-7	Chlorobenzene	55.6	
75-35-4	1,1-Dichloroethene	69.6	
108-88-3	Toluene	56.3	
79-01-6	Trichloroethene	55.7	

SW846 8260B SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID:	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	99	100	97	95	00
02	METHOD BLK. DNAX51AA	100	94	94	97	00
03	LCS DNAX51AC	103	97	94	99	00
04	LAB MS/MSD D	102	97	94	99	00
05	LAB MS/MSD S	95	94	92	89	00
06	DF/S1/0287/TOTAL/001	95	99	94	92	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(60-143)
SRG03	= 4-Bromofluorobenzene	(47-158)
SRG04	= Dibromofluoromethane	(59-138)

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

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: C0J180000 WO #: DNAX51AC
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	69.6	139	55- 142	
Trichloroethene	50.0	55.7	111	70- 131	
Benzene	50.0	57.6	115	75- 129	
Toluene	50.0	56.3	113	71- 130	
Chlorobenzene	50.0	55.6	111	75- 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 673 1066

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J110265 WO #: DM07011D
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	67.4	ND	80.5	120	43- 147	
Trichloroethene	67.4	ND	62.3	92	46- 143	
Benzene	67.4	ND	60.4	90	55- 138	
Toluene	67.4	ND	67.7	100	46- 147	
Chlorobenzene	67.4	ND	66.9	99	49- 139	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No: .

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J110265 WO #: DM07011E
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	67.4	100	149*	22		27	43 - 147	a
Trichloroethene	67.4	72.8	108	16		23	46 - 143	
Benzene	67.4	78.5	117	26	*	20	55 - 138	p
Toluene	67.4	77.4	115	13		24	46 - 147	
Chlorobenzene	67.4	76.7	114	14		22	49 - 139	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

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

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

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS:

FORM III

673 1068

BLANK WORKORDER NO.

DNAX51AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: SB51018.D

Lot Number: C0J140161

Date Analyzed: 10/18/00

Time Analyzed: 09:20

Matrix: SOLID

Date Extracted:10/18/00

GC Column: HP624 ID: .20

Extraction Method: 5035

Instrument ID: HP5

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DM070102	5101801.D	10/18/00	09:49
02	LAB MS/MSD	DM07011D S	5101803.D	10/18/00	10:37
03	LAB MS/MSD	DM07011E D	5101804.D	10/18/00	11:01
04	DF/S1/0287/TOTAL/001	DM6501AC	5101806.D	10/18/00	11:50
05	CHECK SAMPLE	DNAX51AC C	5101802.D	10/18/00	10:13
06					
07					
08					
09					
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28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AA Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

Client Sample Id: INTRA-LAB BLANK

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

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AA Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

Client Sample Id: INTRA-LAB BLANK

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): CC51018 Date Analyzed: 10/18/00

Instrument ID: HP5 Time Analyzed: 0831

GC Column: DB 624 ID: 0.20 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	140648	9.96	256350	12.27	634928	6.85
	UPPER LIMIT	281296	10.46	512700	12.77	1269856	7.35
	LOWER LIMIT	70324	9.46	128175	11.77	317464	6.35
01	INTRA-LAB BL	127357	9.96	210239	12.27	505320	6.87
02	INTRA-LAB CH	117951	9.96	182156	12.27	482552	6.88
03	DF/S1/0287/T	91250	9.96	141406	12.27	399352	6.87
04							
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IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

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

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

GC/MS SEMIVOLATILE SUMMARY

673 1073 UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AD Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	370	U
208-96-8	Acenaphthylene	370	U
120-12-7	Anthracene	370	U
56-55-3	**Benzo(a)anthracene**	**34**	**J**
50-32-8	**Benzo(a)pyrene**	**34**	**J**
205-99-2	**Benzo(b)fluoranthene**	**52**	**J**
207-08-9	**Benzo(k)fluoranthene**	**29**	**J**
191-24-2	Benzo(ghi)perylene	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
111-44-4	bis(2-Chloroethyl) ether	370	U
117-81-7	bis(2-Ethylhexyl) phthalate	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
85-68-7	Butyl benzyl phthalate	370	U
86-74-8	Carbazole	370	U
106-47-8	4-Chloroaniline	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-58-7	2-Chloronaphthalene	370	U
95-57-8	2-Chlorophenol	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
218-01-9	**Chrysene**	**41**	**J**
53-70-3	Dibenz(a,h)anthracene	370	U
132-64-9	Dibenzofuran	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AD Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
84-74-2	Di-n-butyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
51-28-5	2,4-Dinitrophenol	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
206-44-0	**Fluoranthene**	**49**	**J**
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U
67-72-1	Hexachloroethane	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
78-59-1	Isophorone	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
621-64-7	N-Nitrosodi-n-propylamine	370	U
86-30-6	N-Nitrosodiphenylamine	370	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AD Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	27	J
108-95-2	Phenol	370	U
129-00-0	Pyrene	56	J
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AC Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1160	
59-50-7	4-Chloro-3-methylphenol	1880	
95-57-8	2-Chlorophenol	1750	
106-46-7	1,4-Dichlorobenzene	1110	
121-14-2	2,4-Dinitrotoluene	1120	
100-02-7	4-Nitrophenol	1900	
621-64-7	N-Nitrosodi-n-propylamine	1080	
87-86-5	Pentachlorophenol	1780	
108-95-2	Phenol	1550	
129-00-0	Pyrene	1300	
120-82-1	1,2,4-Trichlorobenzene	1150	

SW846 8270C SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC RE-1	36	46	36 *	67	20	64	01
02	DF/S1/0287/TOTAL/001	45	58	51	62	24	37	00
03	METHOD BLK. DM8PG1AA	54	62	59	61	34	66	00
04	LCS DM8PG1AC	65	71	66	68	38	74	00
05	LAB MS/MSD D	46	54	47	57	29	70	00
06	LAB MS/MSD S	46	56	47	61	29	70	00

SURROGATES		QC LIMITS
SRG01	= Phenol-d5	(25-115)
SRG02	= 2-Fluorobiphenyl	(43-110)
SRG03	= Nitrobenzene-d5	(42-110)
SRG04	= Terphenyl-d14	(37-137)
SRG05	= 2-Fluorophenol	(11-116)
SRG06	= 2,4,6-Tribromophenol	(35-116)

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

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: [illegible] [illegible]

BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1550	62	35- 110	
2-Chlorophenol	2500	1750	70	43- 110	
1,4-Dichlorobenzene	1670	1110	66	38- 100	
N-Nitrosodi-n-propylamine	1670	1080	65	38- 110	
1,2,4-Trichlorobenzene	1670	1150	69	45- 110	
4-Chloro-3-methylphenol	2500	1880	75	43- 110	
Acenaphthene	1670	1160	69	44- 108	
4-Nitrophenol	2500	1900	76	22- 128	
2,4-Dinitrotoluene	1670	1120	67	48- 111	
Pentachlorophenol	2500	1780	71	10- 123	
Pyrene	1670	1300	78	42- 122	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J050202 WO #: DLKRG11A
BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	5740	ND	2410	41	10- 148	
2-Chlorophenol	5740	ND	2590	45	17- 116	
1,4-Dichlorobenzene	3830	ND	1670	44	18- 110	
N-Nitrosodi-n-propylamine	3830	ND	1980	52	12- 128	
1,2,4-Trichlorobenzene	3830	ND	1800	47	16- 121	
4-Chloro-3-methylphenol	5740	ND	3550	62	17- 128	
Acenaphthene	3830	140	2250	55	13- 133	
4-Nitrophenol	5740	ND	4000	70	10- 148	
2,4-Dinitrotoluene	3830	ND	2380	62	10- 171	
Pentachlorophenol	5740	ND	3470	60	10- 144	
Pyrene	3830	960	3790	74	10- 218	

NOTES (S):

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

673 1080

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0J050202 WO #: DLKRG11C
BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	5740	2460	42	1.7	50	10- 148	
2-Chlorophenol	5740	2620	46	1.0	54	17- 116	
1,4-Dichlorobenzene	3830	1660	43	0.42	59	18- 110	
N-Nitrosodi-n-propylamine	3830	1990	52	0.18	50	12- 128	
1,2,4-Trichlorobenzene	3830	1790	47	0.69	54	16- 121	
4-Chloro-3-methylphenol	5740	3590	62	1.0	55	17- 128	
Acenaphthene	3830	2260	56	0.33	44	13- 133	
4-Nitrophenol	5740	4140	72	3.4	64	10- 148	
2,4-Dinitrotoluene	3830	2440	64	2.7	45	10- 171	
Pentachlorophenol	5740	3540	62	2.1	87	10- 144	
Pyrene	3830	3560	68	6.2	66	10- 218	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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:

FORM III

673 1081

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DM8PG1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D1018012.

Lot Number: C0J140161

Date Analyzed: 10/18/00

Time Analyzed: 18:51

Matrix: SOLID

Date Extracted:10/16/00

GC Column: HP5MS ID: .25

Extraction Method: 3550B

Instrument ID: 721

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	DLKRG11A S	D1018016.	10/18/00	20:47
02	LAB MS/MSD	DLKRG11C D	D1018017.	10/18/00	21:16
03	INTRA-LAB QC	DLKRG203	D1018015.	10/18/00	20:18
04	DF/S1/0287/TOTAL/001	DM6501AD	D1018014.	10/18/00	19:49
05	CHECK SAMPLE	DM8PG1AC C	D1018013.	10/18/00	19:20
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COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
50-32-8	Benzo(a)pyrene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
84-74-2	Di-n-butyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
51-28-5	2,4-Dinitrophenol	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
621-64-7	N-Nitrosodi-n-propylamine	330	U
86-30-6	N-Nitrosodiphenylamine	330	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
88-06-2	2,4,6-Trichlorophenol	330	U

FORM 8

EMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): D1018CCC Date Analyzed: 10/18/00

Instrument ID: 721 Time Analyzed: 1243

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	169897	4.33	571381	5.49	342965	7.95
	UPPER LIMIT	339794	4.83	1142762	5.99	685930	8.45
	LOWER LIMIT	84949	3.83	285691	4.99	171483	7.45
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	123515	4.34	528513	5.49	311194	7.95
02	LCS	122774	4.34	499152	5.49	286788	7.95
03	DF/S1/0287/T	132576	4.34	536618	5.49	291048	7.95
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16							
17							
18							
19							
20							
21							
22							

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

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

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

FORM VIII SV

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

673 1086

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): D1018CCC Date Analyzed: 10/18/00

Instrument ID: 721 Time Analyzed: 1243

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	607565	10.78	444032	16.60	263319	19.56
	UPPER LIMIT	1215130	11.28	888064	17.10	526638	20.06
	LOWER LIMIT	303783	10.28	222016	16.10	131660	19.06
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	498491	10.77	369760	16.59	212844	19.55
02	LCS	477394	10.78	335043	16.59	207235	19.55
03	DF/S1/0287/T	469823	10.77	313506	16.59	178942	19.55
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

PESTICIDE SUMMARY

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AE Date Extracted:10/16/00
Dilution factor: 2 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	3.8	U
319-84-6	alpha-BHC	3.8	U
319-85-7	beta-BHC	3.8	U
319-86-8	delta-BHC	3.8	U
58-89-9	gamma-BHC (Lindane)	3.8	U
5103-71-9	**alpha-Chlordane**	**1.4**	**J**
5103-74-2	**gamma-Chlordane**	**1.1**	**J**
72-54-8	**4,4'-DDD**	**6.8**	**P**
72-55-9	**4,4'-DDE**	**36**	
50-29-3	**4,4'-DDT**	**56**	
60-57-1	**Dieldrin**	**26**	
959-98-8	Endosulfan I	3.8	U
33213-65-9	Endosulfan II	3.8	U
53494-70-5	Endrin ketone	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
76-44-8	Heptachlor	3.8	U
1024-57-3	Heptachlor epoxide	3.8	U
8001-35-2	Toxaphene	150	U
72-43-5	Methoxychlor	38	U

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CE
Dilution factor: 2
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.94	
58-89-9	gamma-BHC (Lindane)	7.94	
50-29-3	4,4'-DDT	60.6	
60-57-1	Dieldrin	44.8	
72-20-8	Endrin	19.0	
76-44-8	Heptachlor	9.05	

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501CF Date Extracted:10/16/00
Dilution factor: 2 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.07	
58-89-9	gamma-BHC (Lindane)	6.72	
50-29-3	4,4'-DDT	55.0	a
60-57-1	Dieldrin	40.3	
72-20-8	Endrin	16.8	
76-44-8	Heptachlor	8.18	

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID:C0J160000 608

Sample WT/Vol: 30 / g
Work Order: DM8PW1AC
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.14	
58-89-9	gamma-BHC (Lindane)	8.14	
50-29-3	4,4'-DDT	16.4	
60-57-1	Dieldrin	16.4	
72-20-8	Endrin	16.8	
76-44-8	Heptachlor	8.15	

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

GC Column(1): DB1701 ID: 0.53 (mm) GC Column(2): DB608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/S1/0287/T	79	77	95	105			0
02	DF/S1/0287/T	94	95	107	122			0
03	DF/S1/0287/T	84	84	96	111			0
04	PBLK	102	102	103	101			0
05	LCS	100	101	103	100			0
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
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17								
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19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (41-130)
S2 (DCB) = Decachlorobiphenyl (50-131)

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

SW846 8081A CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: C0J160000 WO #: DM8PW1AC
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	8.33	8.14	98	47 - 130	
Heptachlor	8.33	8.15	98	39 - 126	
Aldrin	8.33	8.14	98	39 - 122	
Dieldrin	16.7	16.4	98	45 - 128	
Endrin	16.7	16.8	101	47 - 133	
4,4'-DDT	16.7	16.4	98	35 - 144	

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 673 1094

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CE
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	9.35	ND	7.94	85	33 - 130	
Heptachlor	9.35	ND	9.05	97	32 - 128	
Aldrin	9.35	ND	8.94	96	33 - 122	
Dieldrin	18.7	26	44.8	102	33 - 133	
Endrin	18.7	ND	19.0	102	33 - 138	
4,4'-DDT	18.7	56	60.6	23	23 - 144	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CF
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	9.35	6 72	72	17	36	33- 130	
Heptachlor	9.35	8.18	87	10	44	32- 128	
Aldrin	9.35	8.07	86	10	40	33- 122	
Dieldrin	18.7	40.3	78	11	33	33- 133	
Endrin	18.7	16.8	90	12	38	33- 138	
4,4'-DDT	18.7	55.0	0*	0.0	42	23- 144	a

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

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: 1 out of 6 outside limits

COMMENTS:

FORM III

673 1096

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM8PW1AA Lab File ID: D-A7312

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW3550

Sulfur Cleanup (Y/N) N Date Extracted: 10/16/00

Date Analyzed (1): 10/18/00 Date Analyzed (2): 10/18/00

Time Analyzed (1): 1858 Time Analyzed (2): 1858

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	DF/S1/0287/T	DM6501AE	10/18/00	10/18/00
02	DF/S1/0287/T	DM6501CE	10/18/00	10/18/00
03	DF/S1/0287/T	DM6501CF	10/18/00	10/18/00
04	LCS	DM8PW1AC	10/18/00	10/18/00
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID:C0J160000 608

Sample WT/Vol: 30 / g
Work Order: DM8PW1AA
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
72-54-8	4,4'-DDD	1.7	U
72-55-9	4,4'-DDE	1.7	U
50-29-3	4,4'-DDT	1.7	U
60-57-1	Dieldrin	1.7	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	1.7	U
53494-70-5	Endrin ketone	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
72-20-8	Endrin	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
8001-35-2	Toxaphene	67	U
72-43-5	Methoxychlor	17	U

PCB SUMMARY

UXB INTERNATIONAL

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501AF
Dilution factor: 1
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch:

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	37	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	37	U
11096-82-5	Aroclor 1260	37	U

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CG
Dilution factor: 1
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	300	
11096-82-5	Aroclor 1260	349	

673 1101

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CH
Dilution factor: 1
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	298	
11096-82-5	Aroclor 1260	345	

FORM I

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID:C0J160000 610

Sample WT/Vol: 30 / g
Work Order: DM8P01AC
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	256	
11096-82-5	Aroclor 1260	290	

FORM I

SW846 8082 SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	DF/S1/0287/TOTAL/001	78	95	00
02	METHOD BLK. DM8P01AA	95	90	00
03	LCS DM8P01AC	90	84	00
04	DF/S1/0287/TOTAL/001 D	89	115	00
05	DF/S1/0287/TOTAL/001 S	90	115	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(31-127)
SRG02	= Decachlorobiphenyl	(23-141)

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

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: C0J160000 WO #: DM8P01AC
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	333	256	77	49 - 122	
Aroclor 1260	333	290	87	51 - 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

673 1105

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: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CG
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor-1016	374	ND	300	80	26-144	
Aroclor-1260	374	ND	349	93	37-130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 673 1106

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level: (low/med) LOW

Lot #: C0J140161 WO #: DM6501CH
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	374	298	80	0.41	39	26 - 144	
Aroclor 1260	374	345	92	0.95	33	37 - 138	

NOTES (S):

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

673 1107

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DM8P01AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: H-A70848.

Lot Number: C0J140161

Matrix: SOLID

Extraction Method: 3550

Date Extracted: 10/16/00

Date Analyzed(1): 10/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 14:29

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A ID: N/A GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	DF/S1/0287/TOTAL/001	DM6501AF	10/18/00	N/A
02	DF/S1/0287/TOTAL/001	DM6501CG S	10/18/00	N/A
03	DF/S1/0287/TOTAL/001	DM6501CH D	10/18/00	N/A
04	CHECK SAMPLE	DM8P01AC C	10/18/00	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID:C0J160000 610

Sample WT/Vol: 30 / g
Work Order: DM8P01AA
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	33	U
11104-28-2	Aroclor 1221	33	U
11141-16-5	Aroclor 1232	33	U
53469-21-9	Aroclor 1242	33	U
12672-29-6	Aroclor 1248	33	U
11097-69-1	Aroclor 1254	33	U
11096-82-5	Aroclor 1260	33	U

METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.0084	0.037	0.072		1	CVAA	10/17/00	10:01

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.4	22.4	17200		1	ICP	10/18/00	11:22
Antimony	220.35	0.16	6.7	1.3	B	1	ICPST	10/18/00	11:31
Arsenic	189.04	0.29	1.1	9.2		1	ICPST	10/18/00	11:31
Barium	493.41	0.046	22.4	205		1	ICP	10/18/00	11:22
Beryllium	313.04	0.0080	0.56	0.59	E	1	ICP	10/18/00	11:22
Cadmium	226.50	0.055	0.56	0.16	B	1	ICPST	10/18/00	11:31
Calcium	317.93	4.3	561	40200		1	ICP	10/18/00	11:22
Chromium	267.72	0.11	1.1	18.9	E	1	ICPST	10/18/00	11:31
Cobalt	228.62	0.36	5.6	8.2		1	ICP	10/18/00	11:22
Copper	324.75	0.24	2.8	26.5		1	ICP	10/18/00	11:22
Iron	259.94	0.99	11.2	19300	E	1	ICP	10/18/00	11:22
Lead	220.35	0.21	0.34	37.5	NE*	1	ICPST	10/18/00	11:31
Magnesium	279.08	2.2	561	2870		1	ICP	10/18/00	11:22
Manganese	257.61	0.098	1.7	563		1	ICP	10/18/00	11:22
Nickel	231.60	0.69	4.5	17.1		1	ICP	10/18/00	11:22
Potassium	766.49	55.6	561	2780		1	ICP	10/18/00	11:22
Selenium	220.35	0.23	0.56	0.27	B	1	ICPST	10/18/00	11:31
Silver	328.07	0.11	1.1	0.11	U	1	ICPST	10/18/00	11:31
Sodium	589	1.6	561	576		1	ICP	10/18/00	11:22
Thallium	190.86	0.44	1.1	1.3		1	ICPST	10/18/00	11:31
Vanadium	292.40	0.20	5.6	33.5		1	ICP	10/18/00	11:22
Zinc	213.86	0.34	2.2	70.9	N	1	ICP	10/18/00	11:22

Comments. Lot #: C0J140161 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	ICB1 10/17/00 9:51 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U								

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 10/18/00 11:04 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	**3.5**	**B**								
Iron	259.94	100	8.8	U								
Magnesium	279.079	5000	19.9	U								
Manganese	257.61	15	0.9	U								
Nickel	231.604	40	6.1	U								
Potassium	766.491	5000	496.0	U								
Sodium	588.995	5000	14.5	U								
Vanadium	292.402	50	**1.8**	**U**								
Zinc	213.856	20	**4.8**	**B**								

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 10/18/00 8:22 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	5.3	B								

Version 4.10.2

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

Form 3 Equivalent

673 1115

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB1 10/17/00 9:57 AM		CCB2 10/17/00 10:16 AM							
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U	0.0	U						

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB1 10/18/00 11:44 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	0.4	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	6.1	U								
Potassium	766.491	5000	496.0	U								
Sodium	588.995	5000	14.5	U								
Vanadium	292.402	50	1.8	U								
Zinc	213.856	20	3.1	U								

Version 4.10.2

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

Form 3 Equivalent

673 1117

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB1 10/18/00 9:14 AM		CCB2 10/18/00 10:06 AM		CCB3 10/18/00 10:56 AM		CCB4 10/18/00 11:17 AM		CCB5 10/18/00 11:57 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
Cadmium	226.502	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chromium	267.716	10	1.0	U	1.0	U	1.0	U	1.0	U	1.1	B
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Selenium	220 353	5	4.2	B	2.6	B	3.1	B	2.1	U	2.1	U
Silver	328.068	10	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Thallium	190.864	10	3.9	U	4.2	B	3.9	U	6.1	B	3.9	U

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DM779B

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.0075	0.033	0.0080	B	1	CVAA	10/17/00	9:58

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

673 1119

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DM84TB

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.3	20.0	1.3	U	1	ICP	10/18/00	11:16
Antimony	220.353	0.15	6.0	0.15	U	1	ICPST	10/18/00	11:23
Arsenic	189.042	0.26	1.0	0.26	U	1	ICPST	10/18/00	11:23
Barium	493.409	0.041	20 0	0.041	U	1	ICP	10/18/00	11:16
Beryllium	313.042	0.0071	0.50	0.0071	U	1	ICP	10/18/00	11:16
Cadmium	226.502	0.049	0.50	0.049	U	1	ICPST	10/18/00	11:23
Calcium	**317.933**	**3.8**	**500**	**4.3**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Chromium	267.716	0.10	1.0	0.10	U	1	ICPST	10/18/00	11:23
Cobalt	228.616	0.32	5.0	0.32	U	1	ICP	10/18/00	11:16
Copper	324.754	0 22	2.5	0.22	U	1	ICP	10/18/00	11:16
Iron	259.94	0.88	10.0	0.88	U	1	ICP	10/18/00	11:16
Lead	220.353	0.19	0.30	0.19	U	1	ICPST	10/18/00	11:23
Magnesium	279.079	2.0	500	2.0	U	1	ICP	10/18/00	11:16
Manganese	**257.61**	**0.087**	**1.5**	**0.14**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Nickel	231.604	0.61	4.0	0.61	U	1	ICP	10/18/00	11:16
Potassium	766.491	49.6	500	49.6	U	1	ICP	10/18/00	11:16
Selenium	**220.353**	**0.21**	**0.50**	**0.38**	**B**	**1**	**ICPST**	**10/18/00**	**11:23**
Silver	328.068	0.094	1.0	0.094	U	1	ICPST	10/18/00	11:23
Sodium	**588.995**	**1.5**	**500**	**2.5**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Thallium	190.864	0.39	1.0	-0.65	B	1	ICPST	10/18/00	11:23
Vanadium	292.402	0.18	5.0	-0.19	B	1	ICP	10/18/00	11:16
Zinc	**213.856**	**0.31**	**2.0**	**0.32**	**B**	**1**	**ICP**	**10/18/00**	**11:16**

Comments: Lot #. C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DM650S

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001S

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

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	0.072		0.28		0.187	109.5	1	1	CVAA	10/17/00	10:01	10/17/00	10:03

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DM650D

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

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	0.072		0.25		0.187	96.5	1	1	CVAA	10/17/00	10:01	10/17/00	10:05

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DM650S

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001S

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	17200		16600	NC	224.37		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Antimony	220.4	1.3	B	43.7		56.092	75.6	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Arsenic	189.0	9.2		205		224.37	87.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Barium	493.4	205		385		224.37	80.5	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Beryllium	313.0	0.59		5.7		5.6092	91.3	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Cadmium	226.5	0.16	B	4.6		5.6092	79.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Calcium	317.9	40200		51300	NC	5609.2		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Chromium	267.7	18.9		36.8		22.437	79.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Cobalt	228.6	8.2		56.3		56.092	85.7	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Copper	324.8	26.5		47.9		28.046	76.1	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Iron	259.9	19300		18200	NC	112.18		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Lead	220.4	37.5		75.9	N	56.092	68.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Magnesium	279.1	2870		8160		5609.2	94.3	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Manganese	257.6	563		556	NC	56.092		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Nickel	231.6	17.1		65.1		56.092	85.4	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Potassium	766.5	2780		8340		5609.2	99.1	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Selenium	220.4	0.27	B	192		224.37	85.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Silver	328.1	0.11	U	5.2		5.6092	92.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Sodium	589	576		6140		5609.2	99.2	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Thallium	190.9	1.3		204		224.37	90.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Vanadium	292.4	33.5		80.1		56.092	83.1	1	1	ICP	10/18/00	11:22	10/18/00	11.28
Zinc	213.9	70.9		111	N	56.092	71.5	1	1	ICP	10/18/00	11:22	10/18/00	11:28

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

673 1123 STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DM650D

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	17200		16700	NC	224.37		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Antimony	220.4	1.3	B	49.0		56.092	85.0	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Arsenic	189.0	9.2		223		224.37	95.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Barium	493.4	205		385		224.37	80.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Beryllium	313 0	0.59		5.7		5.6092	90.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Cadmium	226.5	0.16	B	5.1		5.6092	88.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Calcium	317.9	40200		37800	NC	5609.2		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Chromium	267.7	18.9		40.4		22.437	95.7	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Cobalt	228.6	8.2		57.6		56.092	88.1	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Copper	324.8	26.5		52.2		28.046	91 4	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Iron	259.9	19300		18500	NC	112.18		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Lead	220.4	37.5	N	85.4	*	56.092	85.3	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Magnesium	279.1	2870		8030		5609.2	92.0	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Manganese	257.6	563		600	NC	56.092		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Nickel	231.6	17.1		65.0		56.092	85.4	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Potassium	766.5	2780		8250		5609.2	97.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Selenium	220.4	0.27	B	208		224.37	92.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Silver	328.1	0.11	U	5.7		5.6092	100.9	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Sodium	589	576		6060		5609.2	97.7	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Thallium	190.9	1.3		222		224.37	98.2	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Vanadium	292.4	33.5		80.7		56.092	84.0	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Zinc	213.9	70.9	N	115		56.092	78.4	1	1	ICP	10/18/00	11:22	10/18/00	11:31

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DM650D

Matrix Spike Sample ID: DM650S **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.28		0.25		12.6 %	1	1	CVAA	10/17/00	10:03	10/17/00	10:05

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 6 Equivalent

673 1125

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DM650D

Matrix Spike Sample ID: DM650S **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	16600	NC	16700	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Antimony	220.353	43.7		49.0		11.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Arsenic	189.042	205		223		8.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Barium	493.409	385		385		0.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Beryllium	313.042	5.7		5.7		0.9 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Cadmium	226.502	4.6		5.1		10.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Calcium	317.933	51300	NC	37800	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Chromium	267.716	36.8		40.4		18.6 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Cobalt	228.616	56.3		57.6		2.7 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Copper	324.754	47.9		52.2		18.2 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Iron	259.94	18200	NC	18500	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Lead	220.353	75.9	N	85.4	*	22.1 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Magnesium	279.079	8160		8030		2.5 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Manganese	257.61	556	NC	600	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Nickel	231.604	65.1		65.0		0.0 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Potassium	766.491	8340		8250		1.7 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Selenium	220.353	192		208		7.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Silver	328.068	5.2		5.7		8.8 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Sodium	588.995	6140		6060		1.5 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Thallium	190.864	204		222		8.2 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Vanadium	292.402	80.1		80.7		1.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Zinc	213.856	111	N	115		9.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DM779C

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.42	0.41	99.2		80-120	1	CVAA	10/17/00	10:00

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

673 1127

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DM84TC

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	200	199	99.3		80-120	1	ICP	10/18/00	11:19
Antimony	220.353	50.0	50.0	100.0		80-120	1	ICPST	10/18/00	11:27
Arsenic	189.042	200	205	102.5		80-120	1	ICPST	10/18/00	11:27
Barium	493.409	200	193	96.3		80-120	1	ICP	10/18/00	11:19
Beryllium	313.042	5.0	4.8	96.1		80-120	1	ICP	10/18/00	11:19
Cadmium	226.502	5.0	4.9	98.3		80-120	1	ICPST	10/18/00	11:27
Calcium	317.933	5000	4900	97.9		80-120	1	ICP	10/18/00	11:19
Chromium	267.716	20.0	20.8	103.9		80-120	1	ICPST	10/18/00	11:27
Cobalt	228.616	50.0	47.5	95.0		80-120	1	ICP	10/18/00	11:19
Copper	324.754	25.0	24.0	95.9		80-120	1	ICP	10/18/00	11:19
Iron	259.94	100	101	101.0		80-120	1	ICP	10/18/00	11:19
Lead	220.353	50 0	50.3	100.5		80-120	1	ICPST	10/18/00	11:27
Magnesium	279.079	5000	4880	97.6		80-120	1	ICP	10/18/00	11:19
Manganese	257.61	50.0	47.8	95.5		80-120	1	ICP	10/18/00	11:19
Nickel	231.604	50.0	46.7	93.4		80-120	1	ICP	10/18/00	11:19
Potassium	766.491	5000	4850	97.0		80-120	1	ICP	10/18/00	11:19
Selenium	220.353	200	200	100.2		80-120	1	ICPST	10/18/00	11:27
Silver	328.068	5.0	5.2	103.5		80-120	1	ICPST	10/18/00	11:27
Sodium	588.995	5000	4870	97.5		80-120	1	ICP	10/18/00	11:19
Thallium	190.864	200	211	105.7		80-120	1	ICPST	10/18/00	11:27
Vanadium	292.402	50.0	47.1	94.1		80-120	1	ICP	10/18/00	11:19
Zinc	213.856	50.0	47.8	95.5		80-120	1	ICP	10/18/00	11:19

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

UXB INTERNATIONAL

Client Sample ID: DF/S1/0287/TOTAL/001

General Chemistry

Lot-Sample #...: C0J140161-001 Work Order #...: DM650 Matrix.....: SOLID
Date Sampled...: 10/13/00 Date Received..: 10/14/00
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.56	mg/kg	SW846 9012A	10/16-10/19/00	0290202
	Dilution Factor: 1			MS Run #.....: 0290095		
Percent Solids	**89.1**		**%**	**MCAWW 160.3 MOD**	**10/16-10/17/00**	**0290219**
	Dilution Factor: 1			MS Run #.....: 0290102		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0J140161 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: DM7L21AA		MB Lot-Sample #:	C0J160000-202	
	ND	0.50	mg/kg	SW846 9012A	10/16-10/19/00	0290202
		Dilution Factor: 1				

NOTE(S):

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

673 1131

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J140161 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: DM7L21AC	LCS Lot-Sample#: C0J160000-202		
	106	(62 - 179)	SW846 9012A	10/16-10/19/00	0290202
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J140161 **Matrix.....:** SOLID
Date Sampled...: 10/13/00 **Date Received..:** 10/14/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		WO#: DM6501A9-MS/DM6501CA-MSD				MS Lot-Sample #: C0J140161-001	
	100	(75 - 125)			SW846 9012A	10/16-10/19/00	0290202
	99	(75 - 125)	0.20	(0-20)	SW846 9012A	10/16-10/19/00	0290202
		Dilution Factor: 1					
		MS Run #.....: 0290095					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

673 1133

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J140161 Work Order #...: DM6M1-SMP Matrix.....: SOLID
DM6M1-DUP
Date Sampled...: 10/12/00 Date Received..: 10/14/00
% Moisture.....: 55

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	C0J140115-001	
	44.9	51.9	%	14	(0-20)	MCAWW 160.3 MOD	10/16-10/17/00	0290219

Dilution Factor: 1
Prep Date.....: 0290102 Analysis Date .. Prep Batch #...:

GC/MS VOLATILE DATA

673 1135

GC/MS VOLATILE
QC SUMMARY

SW846 8260B SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	99	100	97	95	00
02	METHOD BLK. DNAX51AA	100	94	94	97	00
03	LCS DNAX51AC	103	97	94	99	00
04	LAB MS/MSD D	102	97	94	99	00
05	LAB MS/MSD S	95	94	92	89	00
06	DF/S1/0287/TOTAL/001	95	99	94	92	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(60-143)
SRG03	= 4-Bromofluorobenzene	(47-158)
SRG04	= Dibromofluoromethane	(59-138)

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

FORM II

673 1137

SW846 8260B CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: C0J180000 WO #: DNAX51AC
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	69.6	139	55- 142	
Trichloroethene	50.0	55.7	111	70- 131	
Benzene	50.0	57.6	115	75- 129	
Toluene	50.0	56.3	113	71- 130	
Chlorobenzene	50.0	55.6	111	75- 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 673 1138

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J110265 WO #: DM07011D
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Benzene	67.4	ND	60.4	90	55- 138	
1,1-Dichloroethene	67.4	ND	80.5	120	43- 147	
Trichloroethene	67.4	ND	62.3	92	46- 143	
Toluene	67.4	ND	67.7	100	46- 147	
Chlorobenzene	67.4	ND	66.9	99	49- 139	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

673 1139

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 Level: (low/med) LOW

Lot #: C0J110265 WO #: DM07011E
BATCH: 0292149

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	67.4	100	149*	22		27	43- 147	a
Benzene	67.4	78.5	117	26	*	20	55- 138	p
Toluene	67.4	77.4	115	13		24	46- 147	
Chlorobenzene	67.4	76.7	114	14		22	49- 139	
Trichloroethene	67.4	72.8	108	16		23	46- 143	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

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

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

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

DNAX51AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: SB51018.D

Lot Number: C0J140161

Date Analyzed: 10/18/00

Time Analyzed: 09:20

Matrix: SOLID

Date Extracted:10/18/00

GC Column: HP624 ID: .20

Extraction Method: 5035

Instrument ID: HP5

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DM070102	5101801.D	10/18/00	09:49
02	LAB MS/MSD	DM07011D S	5101803.D	10/18/00	10:37
03	LAB MS/MSD	DM07011E D	5101804.D	10/18/00	11:01
04	DF/S1/0287/TOTAL/001	DM6501AC	5101806.D	10/18/00	11:50
05	CHECK SAMPLE	DNAX51AC C	5101802.D	10/18/00	10:13
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
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24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Lab File ID: BF50908 BFB Injection Date: 09/08/00

Instrument ID: HP5 BFB Injection Time: 0600

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	5.8 (7.1)1
176	95.0 - 101.0% of mass 174	77.9 (95.4)1
177	5.0 - 9.0% of mass 176	4.8 (6.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	1C50908	09/08/00	0738
02	VSTD200	VSTD200	1E50908	09/08/00	0838
03	VSTD5	VSTD5	2A50908	09/08/00	
04	VSTD20	VSTD20	4B50908	09/08/00	1149
05	VSTD100	VSTD100	2D50908	09/08/00	1249
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

673 1142

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Lab File ID: CF5F0F0 BFB Injection Date: 10/10/00

Instrument ID: HP5 BFB Injection Time: 0806

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.7 (0.7)1
174	50.0 - 100.0% of mass 95	95.5
175	5.0 - 9.0% of mass 174	6.7 (7.0)1
176	95.0 - 101.0% of mass 174	92.7 (97.1)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	2C51010	10/10/00	1027
02	VSTD20	VSTD20	1B51010	10/10/00	1210
03	VSTD100	VSTD100	1D51010	10/10/00	1240
04	VSTD200	VSTD200	1E51010	10/10/00	1309
05	VSTD5	VSTD5	2A51010	10/10/00	1455
06					
07					
08					
09					
10					
11					
12					
13					
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15					
16					
17					
18					
19					
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21					
22					

673 1143 5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: 5G3N01

Lab File ID: BF51018 BFB Injection Date: 10/18/00

Instrument ID: HP5 BFB Injection Time: 0804

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 60.0% of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 100.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.3 (7.5)1
176	95.0 - 101.0% of mass 174	81.1 (97.0)1
177	5.0 - 9.0% of mass 176	5.3 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC51018	10/18/00	0831
02	INTRA-LAB BL	DNAX51AA	SB51018	10/18/00	0920
03	INTRA-LAB CH	DNAX51AC	5101802	10/18/00	1013
04	DF/S1/0287/T	DM6501AC	5101806	10/18/00	1150
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

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): CC51018 Date Analyzed: 10/18/00

Instrument ID: HP5 Time Analyzed: 0831

GC Column: DB 624 . ID: 0.20 (mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	140648	9.96	256350	12.27	634928	6.85
	UPPER LIMIT	281296	10.46	512700	12.77	1269856	7.35
	LOWER LIMIT	70324	9.46	128175	11.77	317464	6.35
	EPA SAMPLE NO.						
01	INTRA-LAB BL	127357	9.96	210239	12.27	505320	6.87
02	INTRA-LAB CH	117951	9.96	182156	12.27	482552	6.88
03	DF/S1/0287/T	91250	9.96	141406	12.27	399352	6.87
04							
05							
06							
07							
08							
09							
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12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

GC/MS VOLATILE SAMPLE DATA

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 2.96 / g Date Received: 10/14/00
Work Order: DM6501AC Date Extracted:10/18/00
Dilution factor: 1.69 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0292149

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**18**	**J**
71-43-2	Benzene	9.5	U
75-27-4	Bromodichloromethane	9.5	U
75-25-2	Bromoform	9.5	U
74-83-9	Bromomethane	19	U
78-93-3	**2-Butanone**	**4.1**	**J**
75-15-0	Carbon disulfide	9.5	U
56-23-5	Carbon tetrachloride	9.5	U
108-90-7	Chlorobenzene	9.5	U
124-48-1	Dibromochloromethane	9.5	U
75-00-3	Chloroethane	19	U
67-66-3	Chloroform	9.5	U
74-87-3	Chloromethane	19	U
75-34-3	1,1-Dichloroethane	9.5	U
107-06-2	1,2-Dichloroethane	9.5	U
75-35-4	1,1-Dichloroethene	9.5	U
540-59-0	1,2-Dichloroethene (total)	9.5	U
78-87-5	1,2-Dichloropropane	9.5	U
10061-01-5	cis-1,3-Dichloropropene	9.5	U
10061-02-6	trans-1,3-Dichloropropene	9.5	U
100-41-4	Ethylbenzene	9.5	U
591-78-6	2-Hexanone	38	U
75-09-2	Methylene chloride	9.5	U
108-10-1	4-Methyl-2-pentanone	38	U
100-42-5	Styrene	9.5	U
79-34-5	1,1,2,2-Tetrachloroethane	9.5	U
127-18-4	Tetrachloroethene	9.5	U
108-88-3	Toluene	9.5	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 2.96 / g Date Received: 10/14/00
Work Order: DM6501AC Date Extracted:10/18/00
Dilution factor: 1.69 Date Analyzed: 10/18/00
Moisture %:11

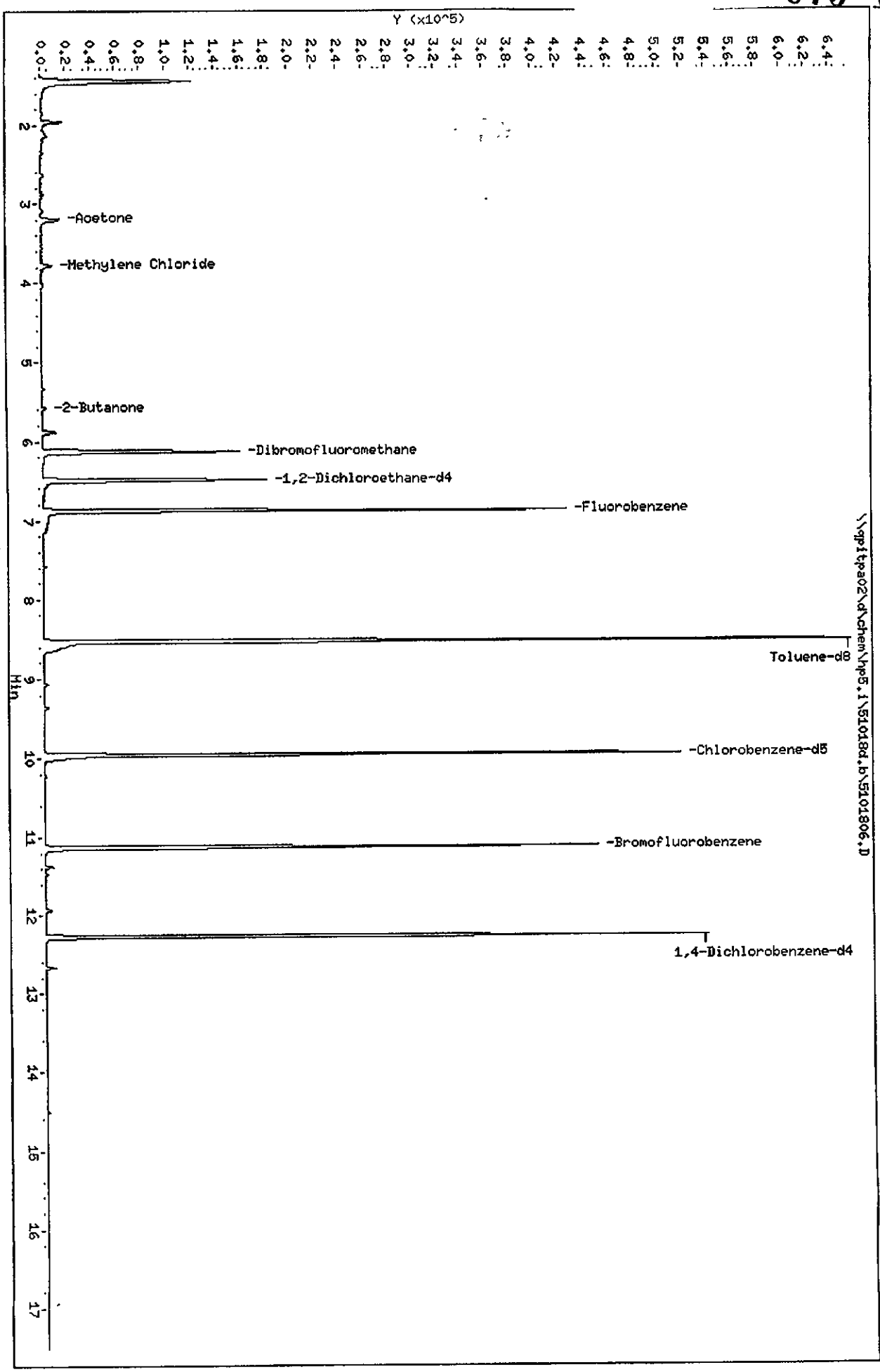
QC Batch: 0292149

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	9.5	U
79-00-5	1,1,2-Trichloroethane	9.5	U
79-01-6	Trichloroethene	9.5	U
75-01-4	Vinyl chloride	19	U
1330-20-7	Xylenes (total)	9.5	U

Data File: \\qpitpa02\d\chem\hp5.i\5101804.b\5101806.D
Date : 18-OCT-2000 11:50
Client ID: DF/SI/0287/TOTAL/00
Sample Info: c0j140161-001 2.96g/5ml
Purge Volume: 5.0
Column phase: DB 624

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



Data File: \\qpitpa02\d\chem\hp5.i\51018d.b\5101806.D
Report Date: 18-Oct-2000 12:14

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51018d.b\5101806.D
Lab Smp Id: DM6501AC Client Smp ID: DF/S1/0287/TOTAL/00
Inj Date : 18-OCT-2000 11:50 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : c0j140161-001 2.96g/5ml
Misc Info : dm6501ac,51018d.b,8260bsoil.m,3-fulllist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51018d.b\8260bsoil.m
Meth Date : 18-Oct-2000 09:20 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 10
Dil Factor: 1.69000
Integrator: HP RTE Compound Sublist: 3-fulllist.sub
Target Version: 4.04
Processing Host: PITPC063

KLG 10/18/00

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.690	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 46 Fluorobenzene	96	6 874	6.863	(1.000)	399352	250 000	
* 69 Chlorobenzene-d5	119	9.958	9.959	(1.000)	91250	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 270	12.271	(1.000)	141406	250.000	
$ 39 Dibromofluoromethane	113	6.126	6 118	(0.891)	103397	231 025	46 20
$ 43 1,2-Dichloroethane-d4	65	6.491	6 477	(0 944)	128885	237 824	47.56
$ 59 Toluene-d8	98	8.529	8 521	(0 856)	440300	247 037	49 41
$ 80 Bromofluorobenzene	95	11.120	11 137	(1 117)	154427	234 960	46.99
7 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.					
11 Acrolein	56	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	3.193	3 240	(0 465)	24342	48.0489	16.24
14 Iodomethane	142	Compound Not Detected.					

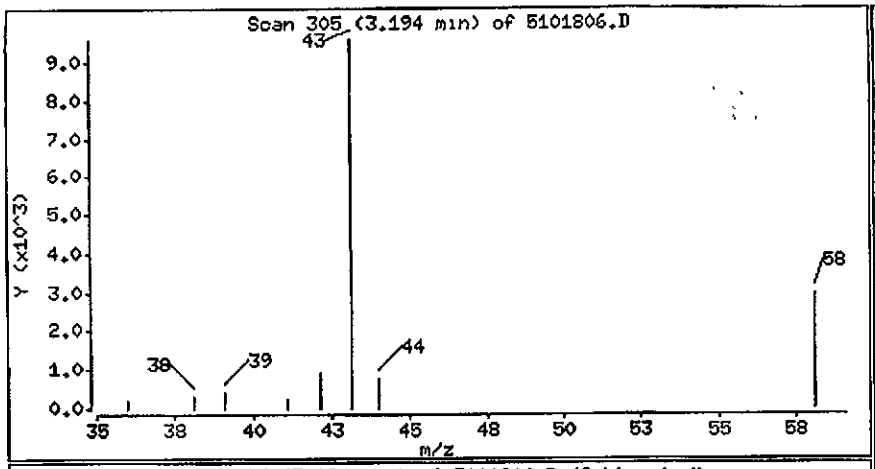
673 1150

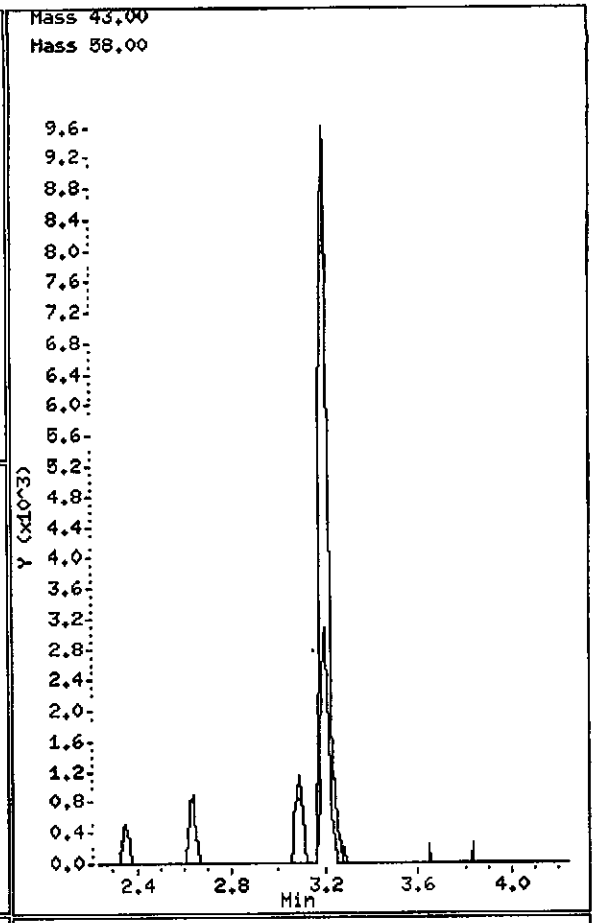
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
15 Carbon Disulfide	76	Compound Not Detected.					
16 3-Chloro-1-propene	76	Compound Not Detected.					
17 Acetonitrile	40	Compound Not Detected.					
18 Methylene Chloride	84	3.777	3.733	(0.550)	5068	11.4982	3.886
19 trans-1,2-Dichloroethene	96	Compound Not Detected					
20 Methyl tert-butyl ether	73	Compound Not Detected.					
101 Acrylonitrile	53	Compound Not Detected.					
24 1,1-Dichloroethane	63	Compound Not Detected.					
26 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
27 2,2-Dichloropropane	77	Compound Not Detected.					
28 cis-1,2-dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	5.578	5.595	(0.812)	4873	10.7089	3.620
30 Bromochloromethane	128	Compound Not Detected.					
32 Vinyl Acetate	43	Compound Not Detected.					
34 Propionitrile	54	Compound Not Detected.					
36 Methacrylonitrile	41	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected					
38 1,1,1-Trichloroethane	97	Compound Not Detected					
41 Carbon Tetrachloride	117	Compound Not Detected.					
40 1,1-Dichloropropene	75	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
44 Isobutanol	41	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					
51 Methyl methacrylate	41	Compound Not Detected.					
52 1,4-Dioxane	88	Compound Not Detected.					
53 Bromodichloromethane	83	Compound Not Detected.					
56 2-Chloroethyl vinyl ether	63	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.					
62 Ethyl methacrylate	69	Compound Not Detected.					
64 1,1,2-Trichloroethane	97	Compound Not Detected					
65 Tetrachloroethene	164	Compound Not Detected.					
67 Dibromochloromethane	129	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected					
66 2-Hexanone	43	Compound Not Detected					
68 1,2-Dibromoethane	107	Compound Not Detected.					
70 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
73 m + p-Xylene	106	Compound Not Detected.					
74 Xylene-o	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					

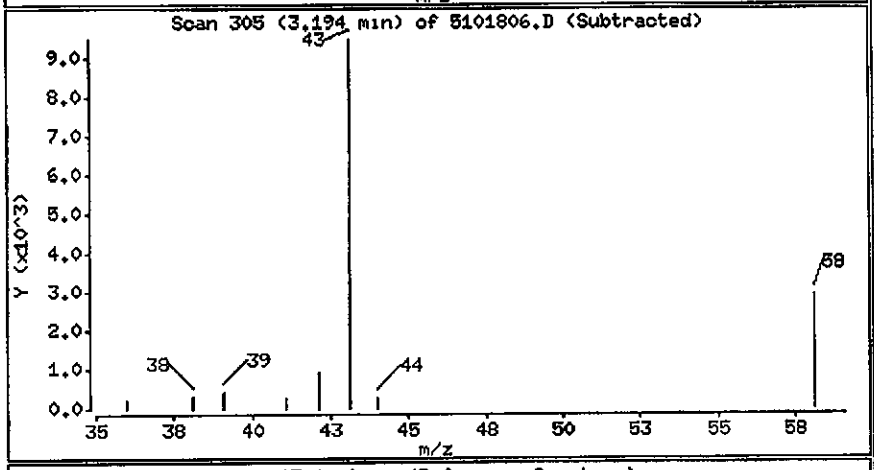
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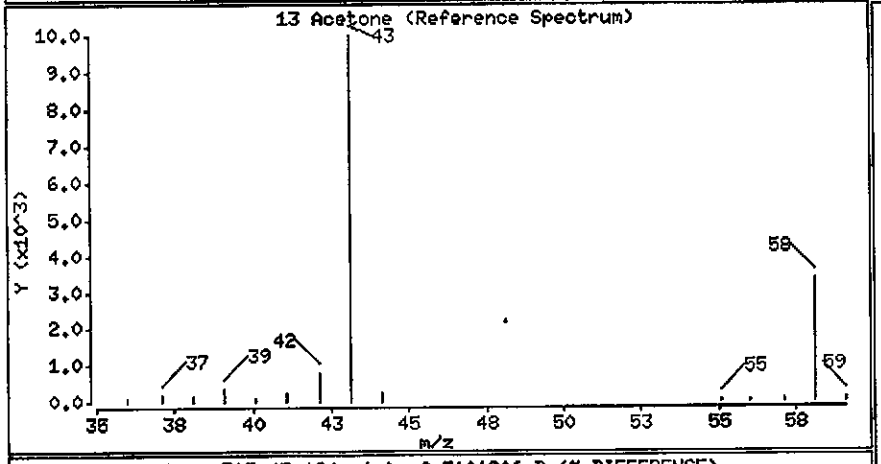
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
77	Bromoform	173	Compound Not Detected.					
78	Isopropylbenzene	105	Compound Not Detected					
79	Bromobenzene	156	Compound Not Detected.					
83	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
84	1,2,3-Trichloropropane	110	Compound Not Detected.					
81	n-Propylbenzene	120	Compound Not Detected					
82	2-Chlorotoluene	126	Compound Not Detected					
86	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
85	4-Chlorotoluene	126	Compound Not Detected.					
87	tert-Butylbenzene	119	Compound Not Detected.					
88	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
89	sec-Butylbenzene	105	Compound Not Detected.					
91	1,3-Dichlorobenzene	146	Compound Not Detected.					
90	4-Isopropyltoluene	119	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.					
M 29	1,2-Dichloroethene (total)	96	Compound Not Detected					
M 75	Xylenes (total)	106	Compound Not Detected					

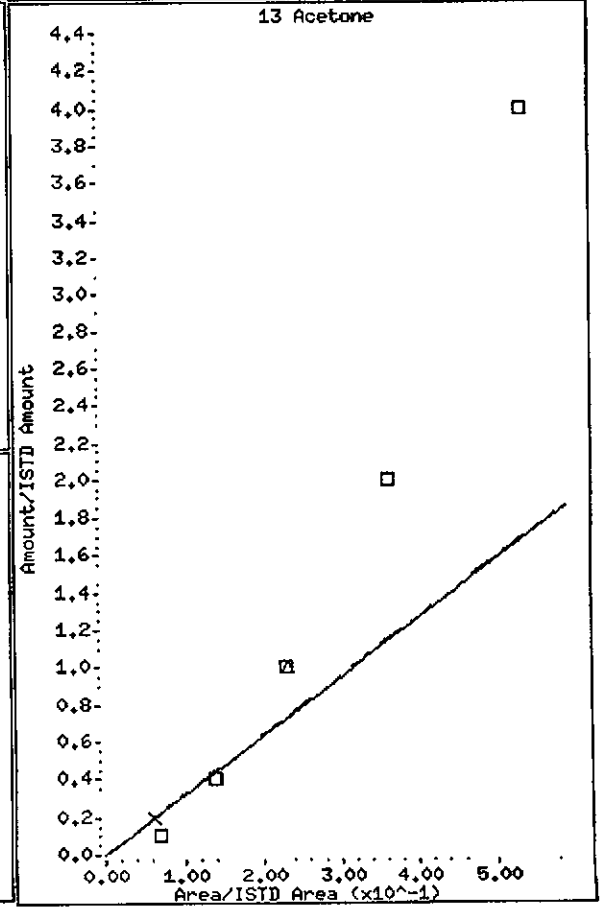
13 Acetone

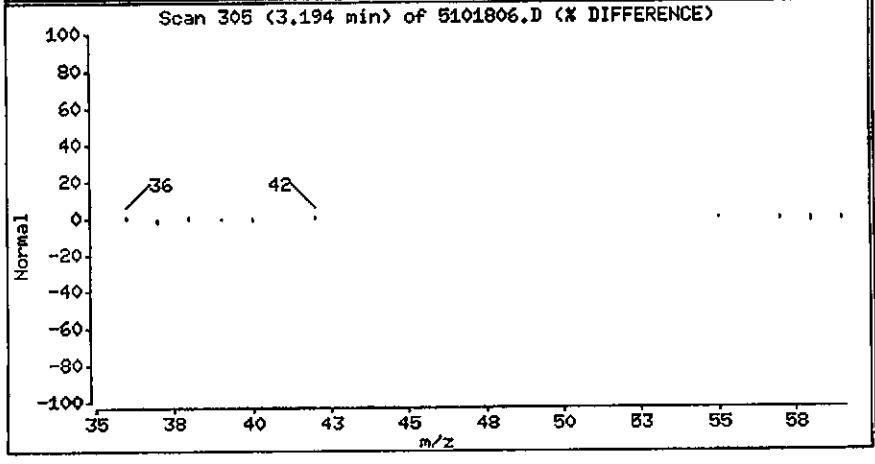

Scan 305 (3.194 min) of 5101806.D
Y (x10^3)
m/z
43
58
38
39
44


Mass 43.00
Mass 58.00
Y (x10^3)
Min

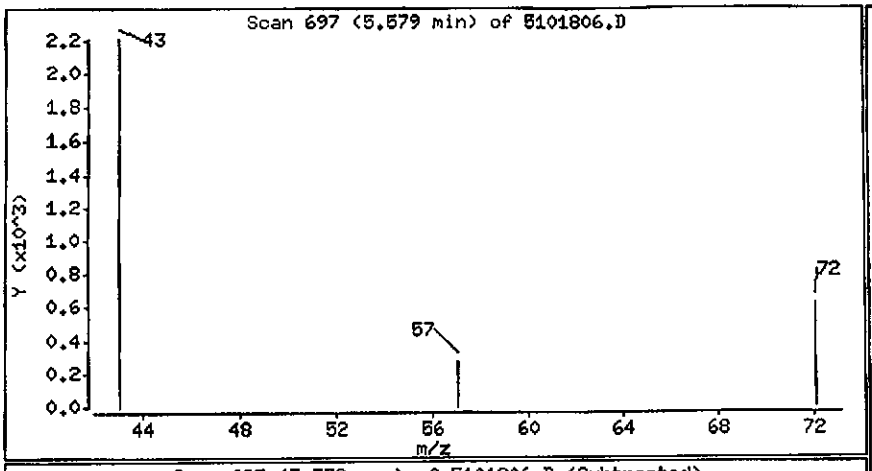

Scan 305 (3.194 min) of 5101806.D (Subtracted)
Y (x10^3)
m/z
43
58
38
39
44

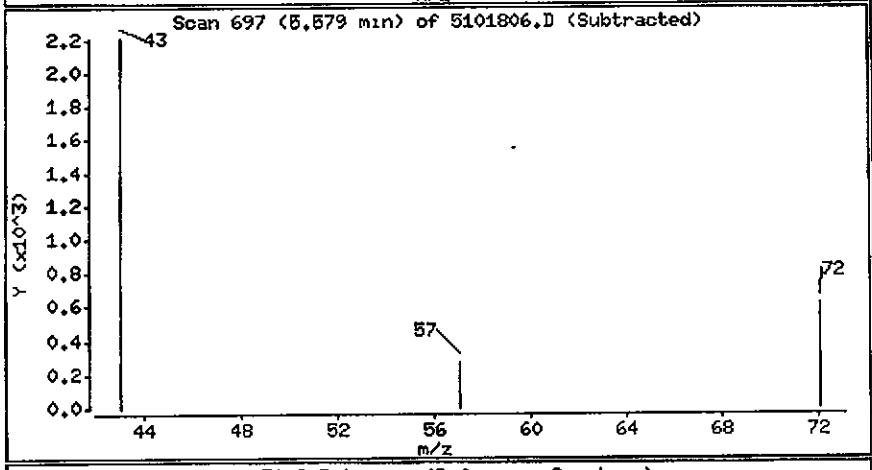

13 Acetone (Reference Spectrum)
Y (x10^3)
m/z
43
59
37
39
42
55
59

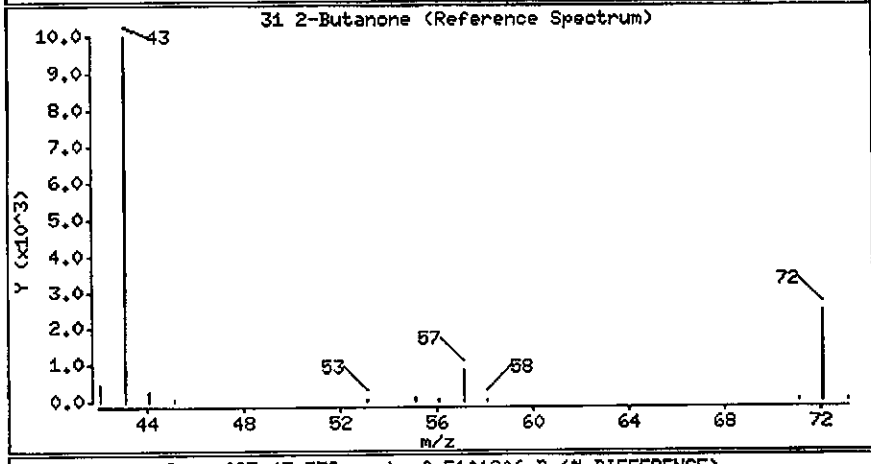

13 Acetone
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

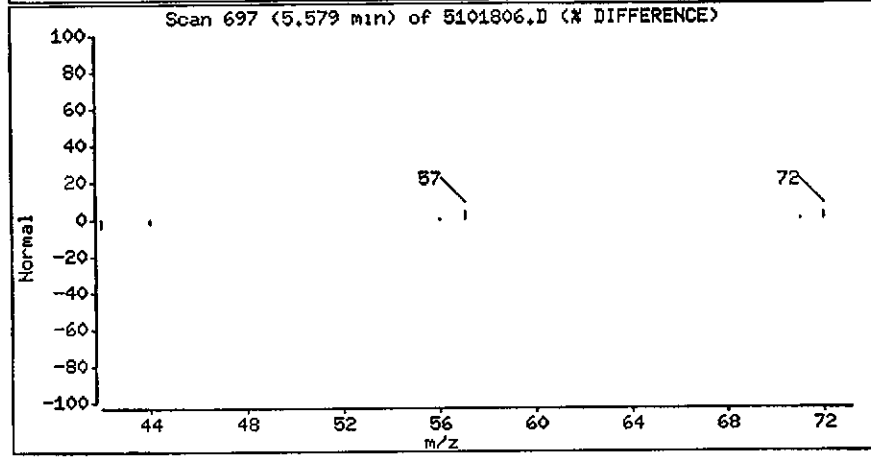

Scan 305 (3.194 min) of 5101806.D (% DIFFERENCE)
Normal
m/z
36
42

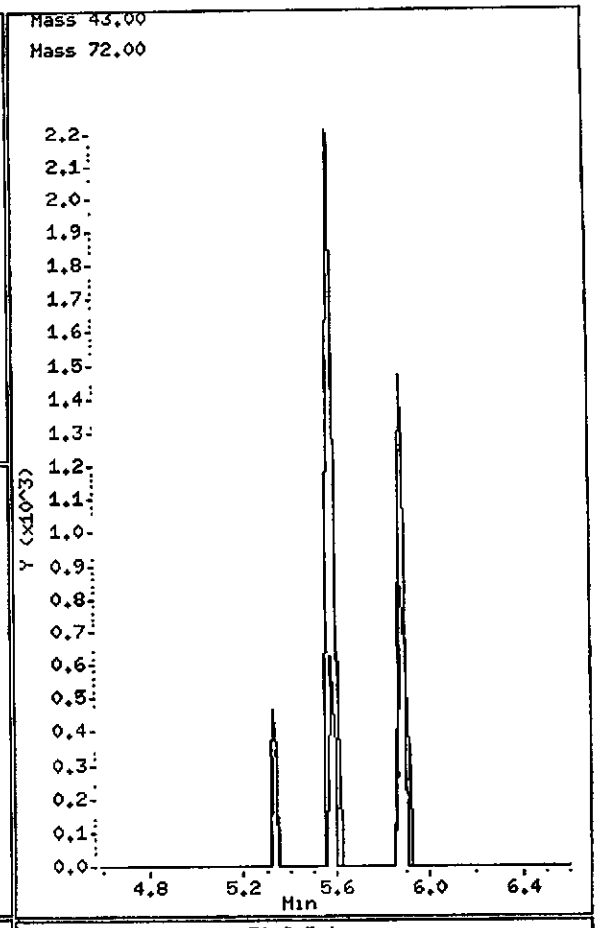
31 2-Butanone

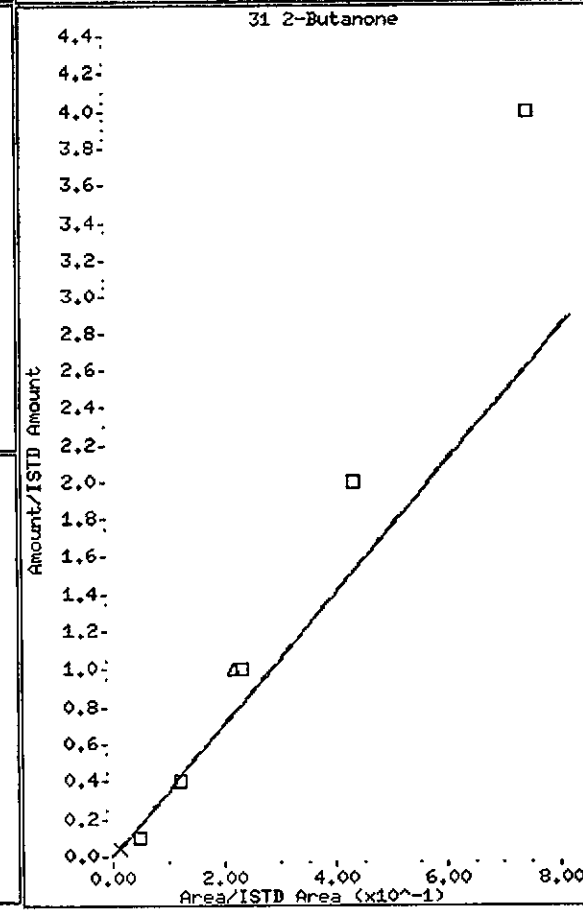












GC/MS VOLATILE
CALIBRATION DATA

673 1155

INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
Lab File ID: 2D50908.D
Analysis Type: SOIL

Injection Date: 08-SEP-2000 12:49
Lab Sample ID: vstd100
Method File: \\QPITPA02\D\chem\hp5.i\50908d.b\8260bso

COMPOUND	%RSD
Iodomethane	24 0
3-Chloro-1-propene	7 0
Acetonitrile	8 8
2-Chloro-1,3-butadiene	9 0
Vinyl Acetate	17 3
Propionitrile	6 1
Methacrylonitrile	8.7
Isobutanol	8 2
Methyl methacrylate	20 3
1,4-Dioxane	14 4
2-Chloroethyl vinyl ether	21 6
Ethyl methacrylate	18 7
trans-1,4-Dichloro-2-butene	20 9

The average of all %RSD's in the initial calibration is 14.2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

673 1156

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date(s): 09/08/00 09/08/00

Heated Purge: (Y/N) Y Calibration Time(s): 0738 1249

GC Column: DB 624 ID: 0.20 (mm)

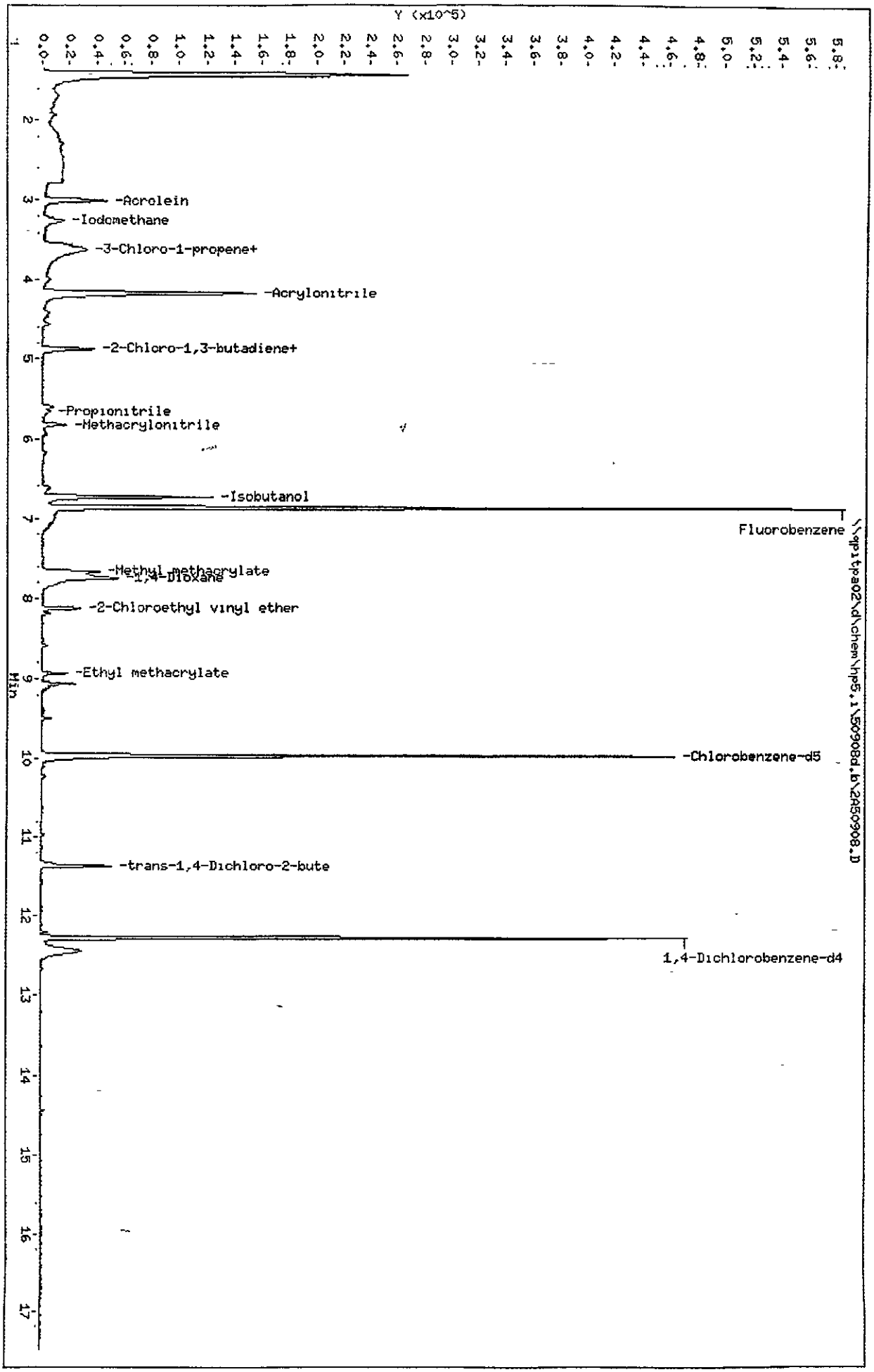
LAB FILE ID: RRF5 =2A50908 RRF20 =4B50908
RRF50 =1C50908 RRF100=2D50908 RRF200=1E50908

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Vinyl Acetate	0.353	0.455	0.376	0.511	0.351	0.409	17.3
2-Chloroethyl vinyl ether	0.114	0.090	0.139	0.164	0.133	0.128	21.6
Iodomethane	0.287	0.155	0.200	0.206	0.180	0.206	24.0
trans-1,4-Dichloro-2-butene	0.222	0.253	0.364	0.349	0.344	0.306	20.9
Acetonitrile	0.063	0.064	0.060	0.058	0.051	0.059	8.8
2-Chloro-1,3-butadiene	0.471	0.534	0.571	0.589	0.588	0.551	9.0
3-Chloro-1-propene	0.135	0.156	0.163	0.152	0.147	0.151	7.0
1,4-Dioxane	0.011	0.012	0.011	0.012	0.008	0.011	14.4
Isobutanol	0.029	0.034	0.031	0.034	0.029	0.031	8.2
Ethyl methacrylate	1.289	1.635	1.976	2.103	2.010	1.803	18.7
Methyl methacrylate	0.209	0.249	0.323	0.351	0.319	0.290	20.3
Methacrylonitrile	0.209	0.235	0.247	0.266	0.239	0.239	8.7
Propionitrile	0.094	0.101	0.097	0.108	0.094	0.099	6.1

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

Data File: \\qpitpa02\d\chem\hp5.i\50908d.b\2A50908.D
Date : 08-SEP-2000 09:10
Client ID: vstd5
Sample Info: vstd5 5ML
Purge Volume: 5.0
Column phase: DB 624

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



673 1158

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50908d.b\2A50908.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 08-SEP-2000 09:10 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd5 5ML
Misc Info : ,50908d.b,8260bsoil.m,8-appixa.sub
Comment :
Method : \\qpitpa02\d\chem\hp5.i\50908d.b\8260bsoil.m
Meth Date : 08-Sep-2000 09:40 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP_RTE Compound Sublist: 8-appixa.sub
Target Version: 4.04
Processing Host: PITPC063

VL6 9/8/0

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.861	6 861	(1 000)	573180	250.000	
* 69 Chlorobenzene-d5	119	9.957	9 957	(1 000)	91865	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12 275	(1 000)	135450	250.000	
14 Iodomethane	142	3.235	3 235	(0 472)	16429	25 0000	36.93
16 3-Chloro-1-propene	76	3.545	3 545	(0 517)	7738	25 0000	23 56
17 Acetonitrile	40	3.606	3 606	(0 526)	72516	500 000	579 3
26 2-Chloro-1,3-butadiene	53	4.872	4 872	(0 710)	27013	25 0000	23 08
34 Propionitrile	54	5.656	5 656	(0 824)	10775	50 0000	51 84
36 Methacrylonitrile	41	5.827	5 827	(0.849)	11984	25 0000	24 17
44 Isobutanol	41	6.727	6 727	(0.980)	66559	1000 00	1040(H)
51 Methyl methacrylate	41	7.664	7 664	(1.117)	11997	25 0000	19 93
52 1,4-Dioxane	88	7.749	7 749	(1.129)	129877	5000 00	5646
62 Ethyl methacrylate	69	8.935	8 935	(0.897)	11838	25 0000	19 41
32 Vinyl Acetate	43	4.890	4 890	(0 713)	20261	25 0000	25 98
56 2-Chloroethyl vinyl ether	63	8.126	8 126	(1.184)	13068	50 0000	41.54
103 trans-1,4 Dichloro-2-butene	53	11.338	11 338	(0.924)	3010	25 0000	18 82

VL6 9/8/0

673 1159

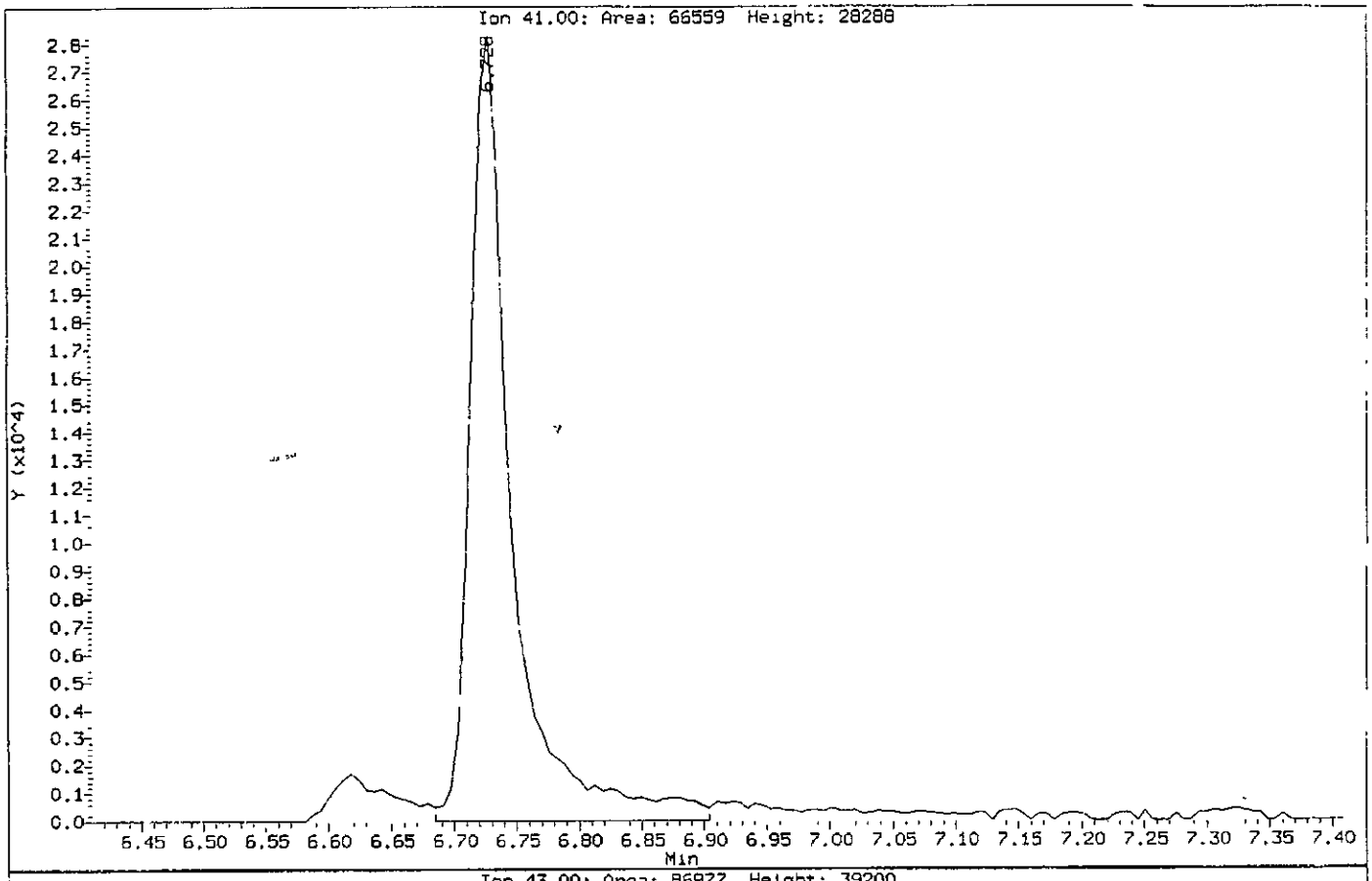
QC Flag Legend

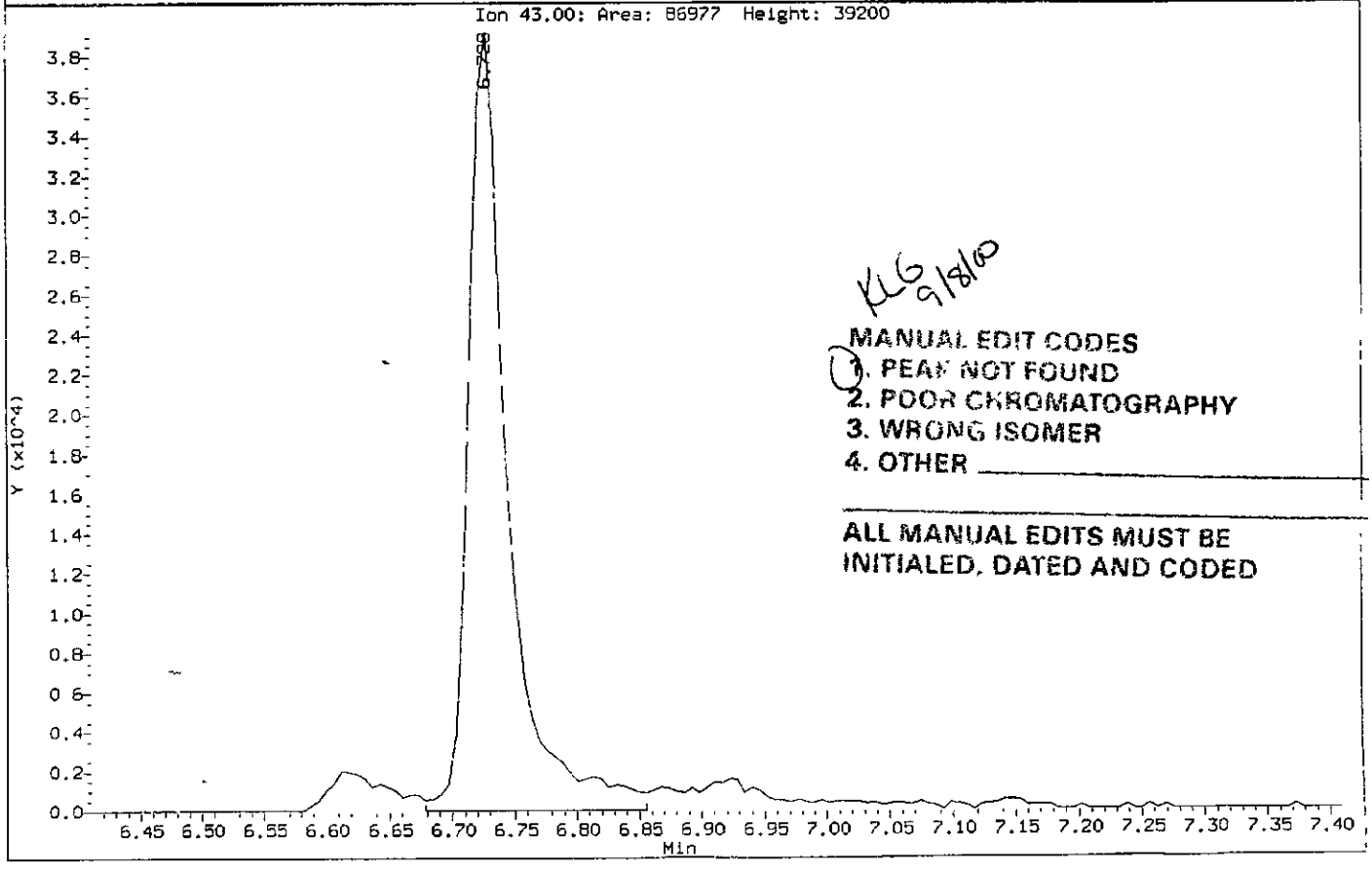
H - Operator selected an alternate compound hit.

Data File: \\qpitpa02\d\chem\hp5.i\50908d.b\2A50908.D
Injection Date: 08-SEP-2000 09:10
Instrument: hp5.i
Client Sample ID: vstd5

673 1160

Compound: Isobutanol
CAS Number: 78-83-1





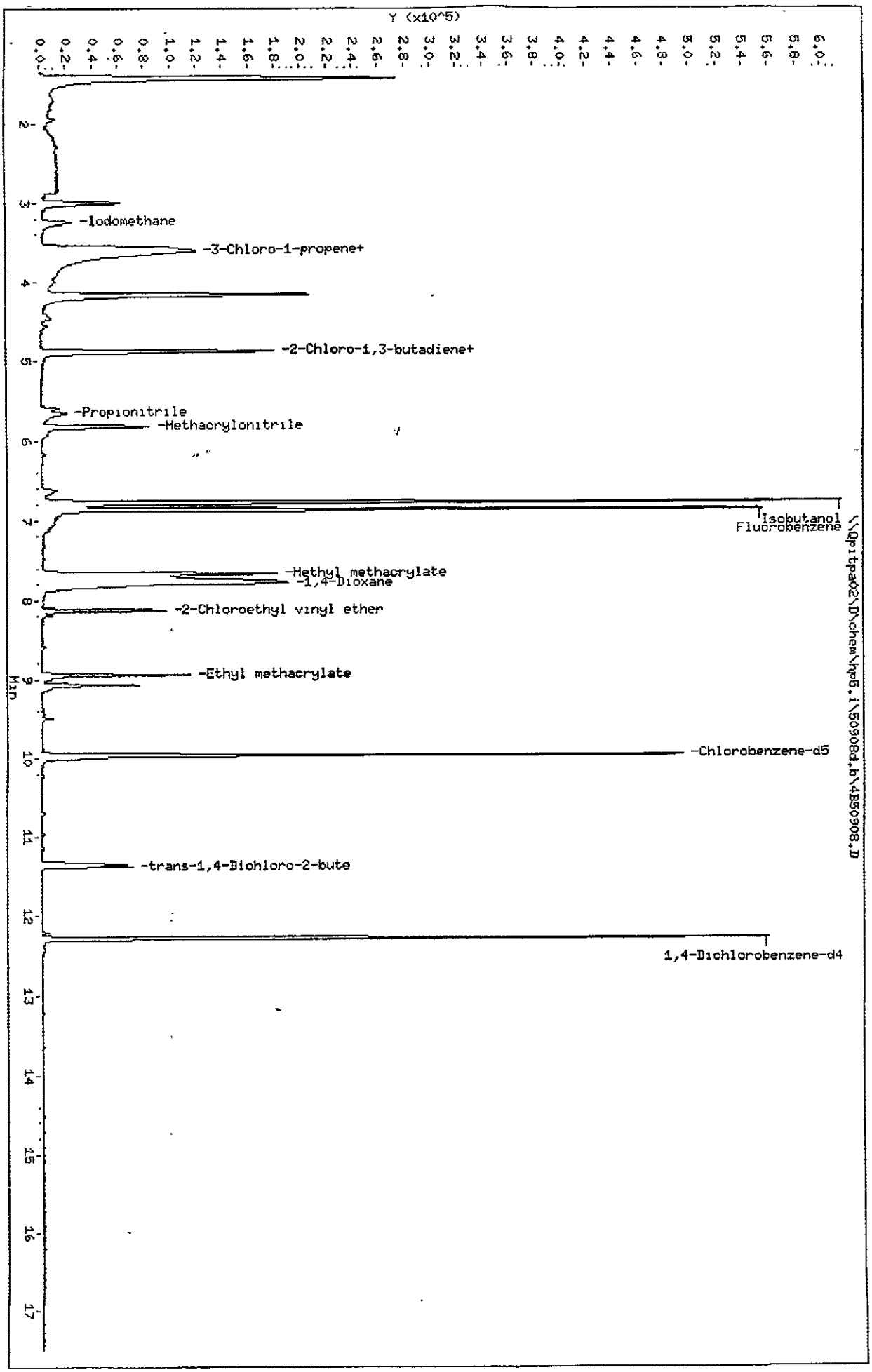
KLG 9/8/00

MANUAL EDIT CODES
1. PEAK NOT FOUND
2. POOR CHROMATOGRAPHY
3. WRONG ISOMER
4. OTHER _____

ALL MANUAL EDITS MUST BE INITIALED, DATED AND CODED

Data File: \\Qpitpa02\D\chem\hp5.i\509088.b\4B50908.D
Date : 08-SEP-2000 11:49
Client ID: vstd20
Sample Info: vstd20 5ML
Purge Volume: 5.0
Column phase: DB 624

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



673 1162

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\Qpitpa02\D\chem\hp5.i\50908d.b\4B50908.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 08-SEP-2000 11:49 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd20 5ML
Misc Info : ,50908d.b,8260bsoil.m,8-appixa.sub
Comment :
Method : \\Qpitpa02\D\chem\hp5.i\50908d.b\8260bsoil.m
Meth Date : 08-Sep-2000 13:41 journetp Quant Type: ISTD
Cal Date : 08-SEP-2000 12:49 Cal File: 2D50908.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP_RTE Compound Sublist: 8-appixa.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6 861	6 861	(1 000)	542402	250 000	
* 69 Chlorobenzene-d5	119	9 958	9.958	(1.000)	100857	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 275	12 275	(1 000)	159928	250 000	
14 Iodomethane	142	3 241	3 241	(0 472)	33678	100 000	75 45
16 3-Chloro-1-propene	76	3 552	3 552	(0.518)	33916	100 000	103 8
17 Acetonitrile	40	3 606	3 606	(0.526)	276337	2000 00	2135
26 2-Chloro-1,3-butadiene	53	4 872	4 872	(0.710)	115977	100.000	97 06
34 Propionitrile	54	5 650	5 650	(0 824)	43856	200 000	204 8
36 Methacrylonitrile	41	5 821	5 821	(0 848)	50964	100.000	98 16
44 Isobutanol	41	6 770	6 770	(0 987)	292097	4000 00	4272(H)
51 Methyl methacrylate	41	7 658	7 658	(1 116)	54042	100.000	85 82
52 1,4-Dioxane	88	7 780	7 780	(1.134)	540910	20000 0	23130
62 Ethyl methacrylate	69	8 935	8 935	(0 897)	65954	100 000	90 70
32 Vinyl Acetate	43	4.884	4 884	(0 712)	98766	100 000	111 2
56 2-Chloroethyl vinyl ether	63	8.120	8 120	(1 184)	39285	200 000	141 3
103 trans 1,4-Dichloro-2-butene	53	11 338	11 338	(0 924)	16214	100.000	82 59

673 1163

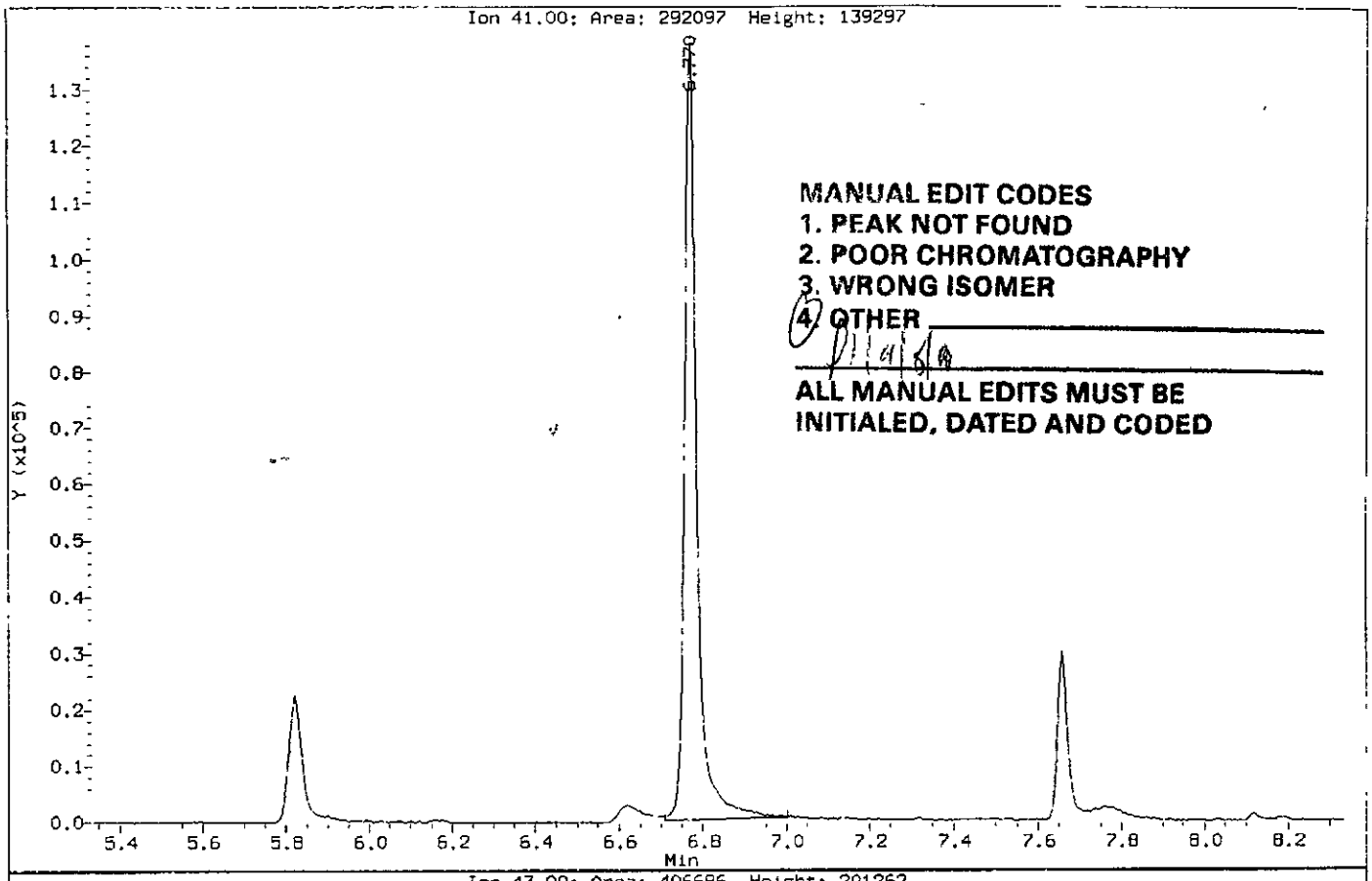
QC Flag Legend

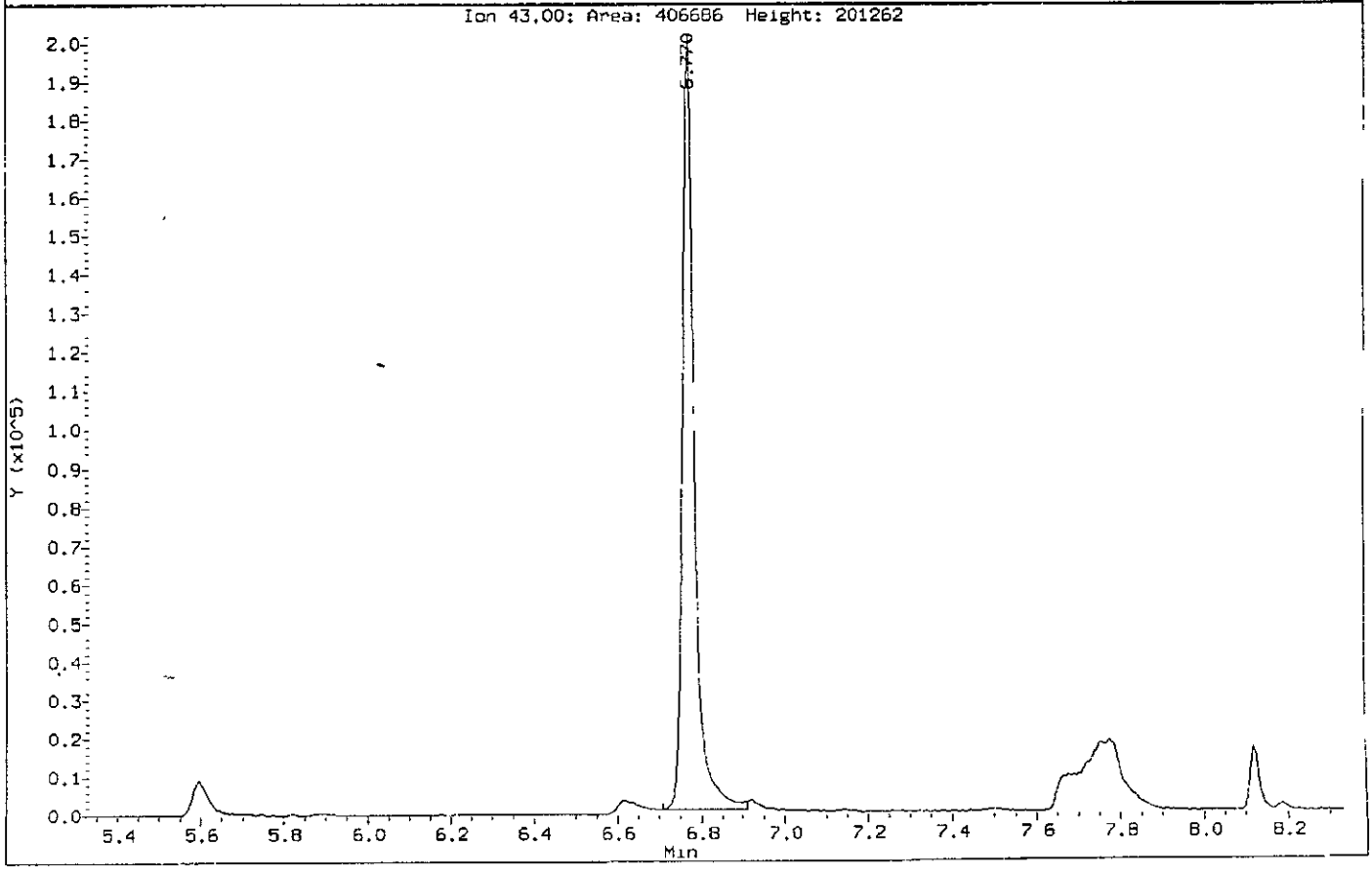
H - Operator selected an alternate compound hit.

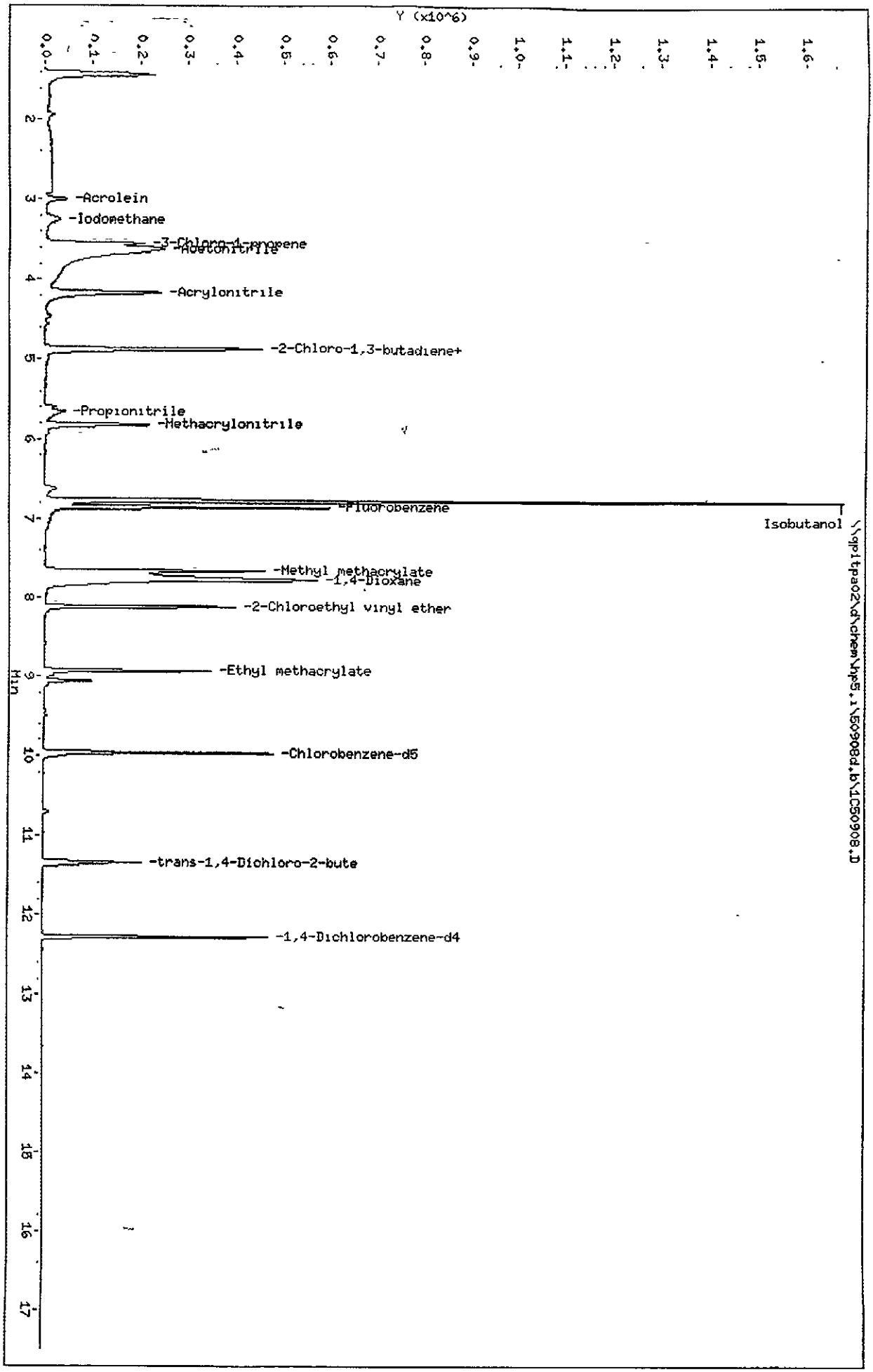
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Injection Date: 08-SEP-2000 11:49
Instrument: hp5.i
Client Sample ID: vstd20

673 1164

Compound: Isobutanol
CAS Number: 78-83-1







Data File: \\qpitpa02\d\chem\hp5.i\509088.b\1C50908.D
Date : 08-SEP-2000 07:38
Client ID: vstd50
Sample Info: vstd50 5ML
Purge Volume: 5.0
Column phase: DB 624

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

673 1166

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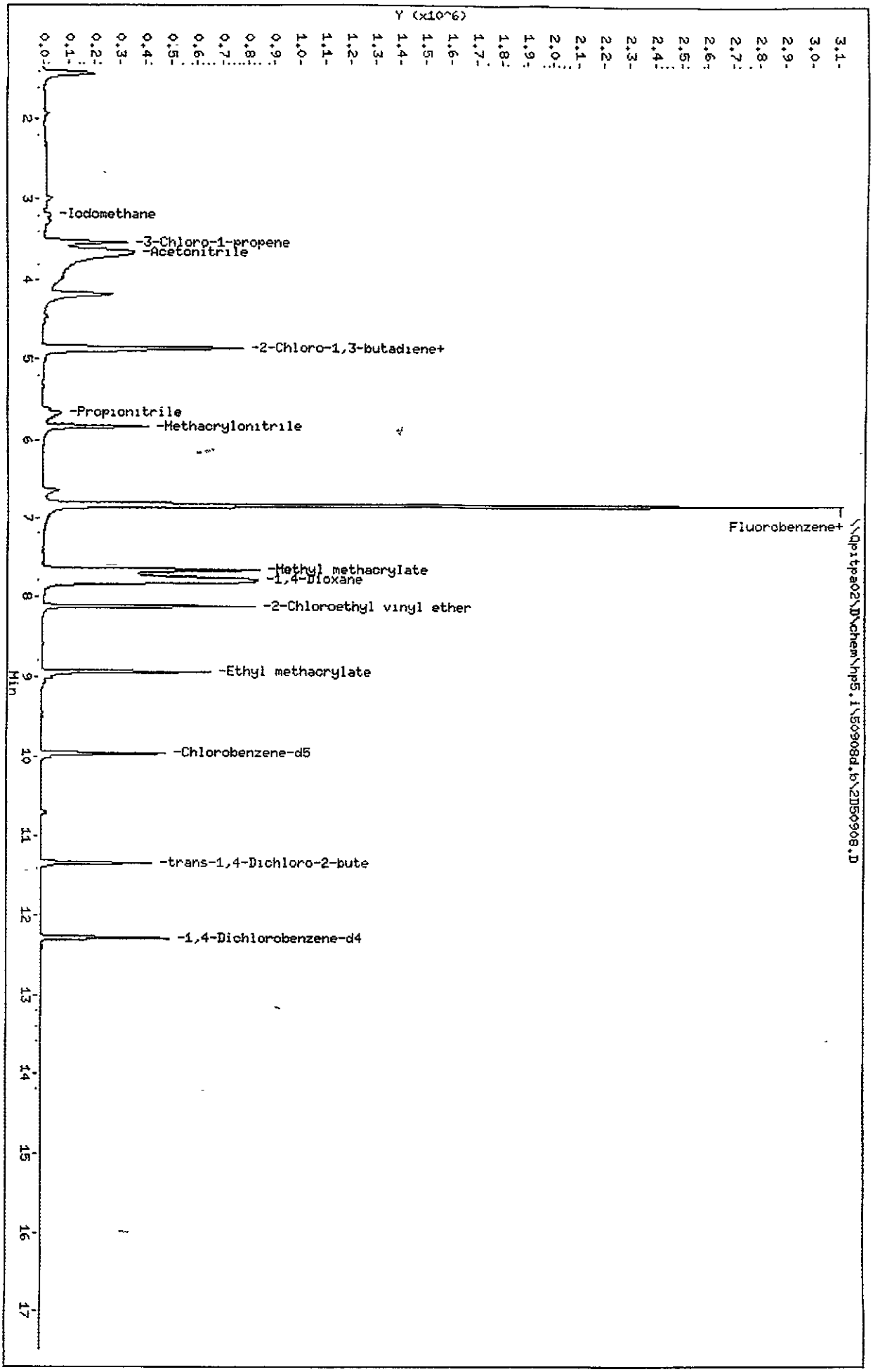
VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50908d.b\1C50908.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 08-SEP-2000 07:38 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd50 5ML
Misc Info : ,50908d.b,8260bsoil.m,8-appixa.sub
Comment :
Method : \\qpitpa02\d\chem\hp5.i\50908d.b\8260bsoil.m
Meth Date : 08-Sep-2000 09:39 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 07:38 Cal File: 1C50908.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8-appixa.sub
Target Version: 4.04
Processing Host: PITPC063

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6 861	6 861	(1 000)	567915	250.000	
* 69 Chlorobenzene-d5	119	9 958	9 958	(1 000)	98263	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 276	12 276	(1 000)	134533	250.000	
14 Iodomethane	142	3.224	3 224	(0.470)	113852	250 000	327 1
16 3-Chloro-1-propene	76	3 546	3.546	(0.517)	92540	250 000	266 0
17 Acetonitrile	40	3 613	3.613	(0.527)	677259	5000 00	5184
26 2-Chloro-1,3-butadiene	53	4 866	4 866	(0.709)	324235	250 000	274 2
34 Propionitrile	54	5 657	5 657	(0 824)	110078	500 000	513 0
36 Methacrylonitrile	41	5 821	5 821	(0.848)	140412	250 000	276 6
44 Isobutanol	41	6 776	6 776	(0 988)	714695	10000.0	10630
51 Methyl methacrylate	41	7.658	7 658	(1 116)	183328	250.000	297.8
52 1,4-Dioxane	88	7 780	7 780	(1 134)	1301871	50000 0	51870
62 Ethyl methacrylate	69	8.930	8 930	(0 897)	194170	250.000	278 6
32 Vinyl Acetate	43	4 890	4 890	(0 713)	213627	250 000	266 4
56 2-Chloroethyl vinyl ether	63	8.121	8 121	(1 184)	158291	500 000	419 5
103 trans-1,4-Dichloro-2-butene	53	11 339	11 339	(0 924)	49044	250 000	275 2



Data File: \\Qpitpa02\D\chem\hp5.i\50908d.b\2D50908.D
Date : 08-SEP-2000 12:49
Client ID: vstd100
Sample Info: vstd100 5ML
Purge Volume: 5.0
Column phase: DB 624

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

\\Qpitpa02\D\chem\hp5.i\50908d.b\2D50908.D

673 1163

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\Qpitpa02\D\chem\hp5.i\50908d.b\2D50908.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 08-SEP-2000 12:49 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd100 5ML
Misc Info : ,50908d.b,8260bsoil.m,8-appixa.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50908d.b\8260bsoil.m
Meth Date : 08-Sep-2000 14:08 journetp Quant Type: ISTD
Cal Date : 08-SEP-2000 12:49 Cal File: 2D50908.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8-appixa.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo

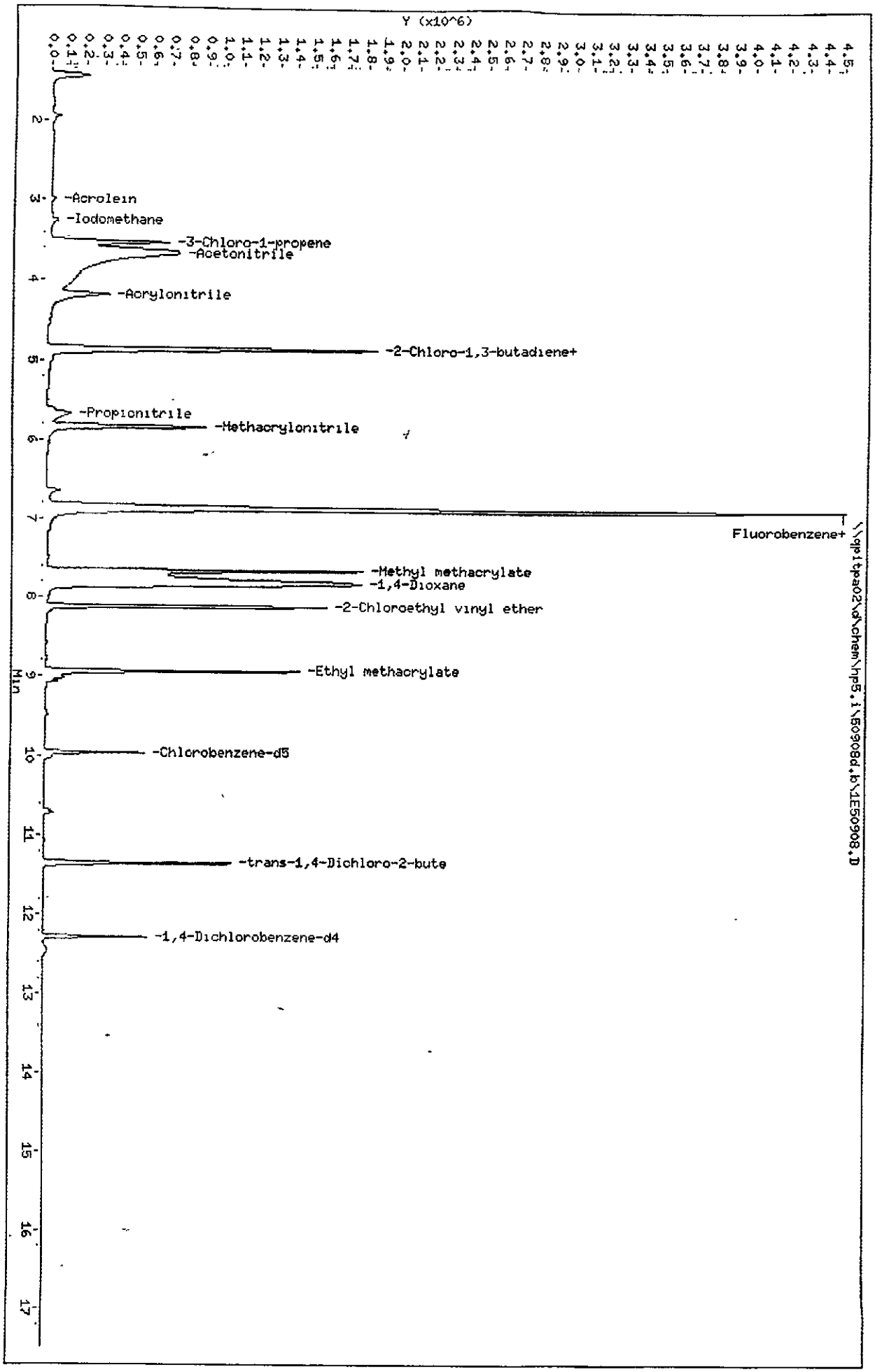
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

9/19/8/0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.857	6 857	(1 000)	515177	250 000	
* 69 Chlorobenzene-d5	119	9 953	9 953	(1.000)	94607	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 277	12 277	(1.000)	148302	250 000	
14 Iodomethane	142	3.188	3 188	(0 465)	212245	500 000	500.6
16 3-Chloro-1-propene	76	3 523	3 523	(0 514)	156251	500 000	503.3
17 Acetonitrile	40	3 645	3 645	(0 532)	1199064	10000 0	9841
26 2-Chloro-1,3 butadiene	53	4 855	4 855	(0 708)	606842	500.000	534 7
34 Propionitrile	54	5 664	5 664	(0 826)	222687	1000 00	1095
36 Methacrylonitrile	41	5 829	5 829	(0 850)	274580	500 000	556 8
44 Isobutanol	41	6.832	6 832	(0 996)	1423701	20000 0	21920
51 Methyl methacrylate	41	7 660	7 660	(1 117)	361635	500 000	604 7
52 1,4-Dioxane	88	7 781	7 781	(1 135)	2524815	100000	109500
62 Ethyl methacrylate	69	8 931	8 931	(0 897)	397906	500 000	583 4
32 Vinyl Acetate	43	4 886	4 886	(0 713)	526838	500 000	624 3
56 2-Chloroethyl vinyl ether	63	8.122	8 122	(1 185)	338099	1000 00	1280
103 trans-1,4-Dichloro-2-butene	53	11.340	11 340	(0 924)	103405	500.000	568 5

Data File: \\qpitpa02\d\chem\hp5.i\509088.b\1E50908.D
Date : 08-SEP-2000 08:38
Client ID: vstd200
Sample Info: vstd200 5ML
Purge Volume: 5.0
Column phase: DB 624

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



673 1170

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VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50908d.b\1E50908.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 08-SEP-2000 08:38 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd200 5ML
Misc Info : ,50908d.b,8260bsoil.m,8-appixa.sub
Comment :
Method : \\qpitpa02\d\chem\hp5.i\50908d.b\8260bsoil.m
Meth Date : 08-Sep-2000 09:40 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 08:38 Cal File: 1E50908.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8-appixa.sub
Target Version: 4.04
Processing Host: PITPC063

KLG 9/8/00

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.854	6.854	(1 000)	640674	250.000	
* 69 Chlorobenzene-d5	119	9 957	9 957	(1 000)	115448	250.000	
* 92 1,4 Dichlorobenzene d4	152	12 281	12 281	(1 000)	175688	250 000	
14 Iodomethane	142	3 241	3 241	(0 473)	462265	1000 00	1056
16 3-Chloro-1-propene	76	3 527	3 527	(0 515)	377674	1000 00	1014
17 Acetonitrile	40	3 648	3 648	(0.532)	2607093	20000.0	19400
26 2-Chloro-1,3-butadiene	53	4 859	4 859	(0.709)	1507086	1000 00	1130
34 Propionitrile	54	5 674	5.674	(0.828)	479489	2000 00	2083
36 Methacrylonitrile	41	5 832	5.832	(0.851)	611872	1000 00	1095
44 Isobutanol	41	6 885	6.885	(1.004)	2961387	40000 0	41790
51 Methyl methacrylate	41	7 664	7.664	(1.118)	817409	1000.00	1156
52 1,4-Dioxane	88	7 834	7.834	(1 143)	4331569	200000.	174100
62 Ethyl methacrylate	69	8 935	8.935	(0 897)	928094	1000.00	1147
32 Vinyl Acetate	43	4 889	4 889	(0 713)	900710	1000.00	1044
56 2-Chloroethyl vinyl ether	63	8.126	8 126	(1 185)	679963	2000.00	1855
103 trans 1,4-Dichloro-2-butene	53	11.344	11.344	(0 924)	241995	1000.00	1098

Data File: \\QPITPA02\D\chem\hp5.i\51010d.b/2A51010.D
Report Date: 10/10/2000

673 1171

INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
Lab File ID: 2A51010.D
Analysis Type: SOIL

Injection Date: 10-OCT-2000 14:55
Lab Sample ID: vstd5
Method File: \\QPITPA02\D\chem\hp5.i\51010d.b\

COMPOUND	%RSD
1,2-Dichloroethene (total)	8.4
Xylenes (total)	11 6
Dichlorodifluoromethane	11 4
Chloromethane	13 2
Vinyl Chloride	13 7
Bromomethane	28 0
Chloroethane	44 4
Trichlorofluoromethane	25 3
Acrolein	9 4
1,1-Dichloroethene	16 4
Acetone	71.6
Carbon Disulfide	15 0
Methylene Chloride	33 7
trans-1,2-Dichloroethene	10.4
Acrylonitrile	4 1
Methyl tert-butyl ether	7 2
1,1-Dichloroethane	9 3
2,2-Dichloropropane	11 4
cis 1,2-dichloroethene	6 5
2-Butanone	42 0
Bromochloromethane	6.6
Chloroform	8.1
1,1,1-Trichloroethane	12 1
Dibromofluoromethane	8 2
Carbon Tetrachloride	14 1
1,1-Dichloropropene	9 1
1,2-Dichloroethane-d4	11.9
Benzene	7 4
1,2-Dichloroethane	6 1
Trichloroethene	12 2
1,2-Dichloropropane	9 4
Dibromomethane	5 6
Bromodichloromethane	10 4
cis-1,3-Dichloropropene	9 0
4-Methyl-2-Pentanone	23.2
Toluene-d8	11 4
Toluene	9 4
trans-1,3-Dichloropropene	7 1
1,1,2-Trichloroethane	5 1

Data File: \\QPITPA02\D\chem\hp5.i\51010d.b/2A51010.D
Report Date: 10/10/2000

673 1172

INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
Lab File ID: 2A51010.D
Analysis Type: SOIL

Injection Date: 10-OCT-2000 14:55
Lab Sample ID: vstd5
Method File: \\QPITPA02\D\chem\hp5.i\51010d.b\

COMPOUND	%RSD
Tetrachloroethene	8 9
1,3-Dichloropropane	4 9
2-Hexanone	43 0
Dibromochloromethane	12 1
1,2-Dibromoethane	3 6
Chlorobenzene	6 2
1,1,1,2-Tetrachloroethane	7 6
Ethylbenzene	9 5
m + p-Xylene	10 7
Xylene-o	11.6
Styrene	11 8
Bromoform	13 2
Isopropylbenzene	13 0
Bromofluorobenzene	9 5
Bromobenzene	2.4
1,1,2,2-Tetrachloroethane	5 5
1,2,3-Trichloropropane	4 7
n-Propylbenzene	7 7
2-Chlorotoluene	6 1
1,3,5-Trimethylbenzene	12 7
4-Chlorotoluene	5.6
tert-Butylbenzene	9.2
1,2,4-Trimethylbenzene	11.2
sec-Butylbenzene	9 9
1,3-Dichlorobenzene	4 4
4-Isopropyltoluene	11 8
1,4-Dichlorobenzene	5.7
n-Butylbenzene	11 5
1,2-Dichlorobenzene	6 8
1,2-Dibromo-3-chloropropane	8 3
1,2,4-Trichlorobenzene	5 2
Hexachlorobutadiene	4 9
Naphthalene	8 3
1,2,3-Trichlorobenzene	4 5

The average of all %RSD's in the initial calibration is 12 2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

673 1173

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date(s): 10/10/00 10/10/00

Heated Purge: (Y/N) Y Calibration Time(s): 1027 1455

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID: RRF5 =2A51010 RRF20 =1B51010
RRF50 =2C51010 RRF100=1D51010 RRF200=1E51010

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD
Chloromethane *	0.324	0.445	0.376	0.443	0.370	0.392	13.2*
Vinyl Chloride	0.271	0.388	0.310	0.364	0.332	0.333	13.7
Bromomethane	0.029	0.063	0.038	0.048	0.047	0.045	28.0
Chloroethane	0.015	0.082	0.060	0.059	0.055	0.054	44.4
Trichlorofluoromethane	0.055	0.095	0.051	0.073	0.068	0.068	25.3
1,1-Dichloroethene	0.212	0.319	0.278	0.286	0.230	0.265	16.4
Methylene Chloride	0.229	0.386	0.144	0.327	0.294	0.276	33.7
trans-1,2-Dichloroethene	0.269	0.350	0.287	0.321	0.296	0.305	10.4
1,1-Dichloroethane *	0.470	0.597	0.508	0.544	0.504	0.525	9.3*
cis-1,2-dichloroethene	0.302	0.352	0.306	0.331	0.310	0.320	6.5
Chloroform	0.455	0.549	0.457	0.496	0.470	0.485	8.1
Bromochloromethane	0.146	0.165	0.140	0.150	0.143	0.149	6.6
1,1,1-Trichloroethane	0.327	0.447	0.382	0.433	0.425	0.403	12.1
Carbon Tetrachloride	0.258	0.361	0.313	0.369	0.360	0.332	14.1
1,2-Dichloroethane	0.382	0.432	0.377	0.403	0.377	0.394	6.1
Benzene	1.083	1.310	1.155	1.253	1.166	1.193	7.4
Trichloroethene	0.263	0.354	0.281	0.336	0.312	0.309	12.2
1,2-Dichloropropane	0.265	0.333	0.279	0.320	0.304	0.300	9.4
Bromodichloromethane	0.281	0.358	0.316	0.362	0.351	0.334	10.4
cis-1,3-Dichloropropene	0.403	0.471	0.416	0.495	0.480	0.453	9.0
Toluene	4.494	5.755	5.124	5.526	5.040	5.188	9.4
trans-1,3-Dichloropropene	1.550	1.745	1.756	1.893	1.706	1.730	7.1
1,1,2-Trichloroethane	1.059	1.153	1.076	1.082	1.000	1.074	5.1
Tetrachloroethene	0.876	1.082	1.016	1.112	1.028	1.023	8.9
Dibromochloromethane	0.827	1.042	1.001	1.138	1.117	1.025	12.1
Chlorobenzene *	3.170	3.620	3.158	3.437	3.191	3.315	6.2*
Ethylbenzene	1.610	2.068	1.796	1.981	1.857	1.862	9.5
Styrene	3.012	4.137	3.475	3.852	3.518	3.599	11.8
Bromoform *	0.546	0.663	0.699	0.772	0.758	0.688	13.2*
1,1,2,2-Tetrachloroethane *	1.673	1.709	1.646	1.624	1.476	1.626	5.5*
1,3-Dichlorobenzene	1.494	1.615	1.446	1.528	1.468	1.510	4.4
1,4-Dichlorobenzene	1.648	1.690	1.482	1.572	1.499	1.578	5.7
1,2-Dichlorobenzene	1.525	1.591	1.422	1.468	1.329	1.467	6.8
Dibromomethane	0.169	0.186	0.162	0.177	0.167	0.172	5.6
1,2-Dibromoethane	1.064	1.139	1.058	1.132	1.071	1.093	3.6
1,1,1,2-Tetrachloroethane	0.958	1.134	1.045	1.165	1.112	1.083	7.6
1,2,3-Trichloropropane	0.296	0.262	0.271	0.272	0.271	0.274	4.7

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

673 1174

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date(s): 10/10/00 10/10/00

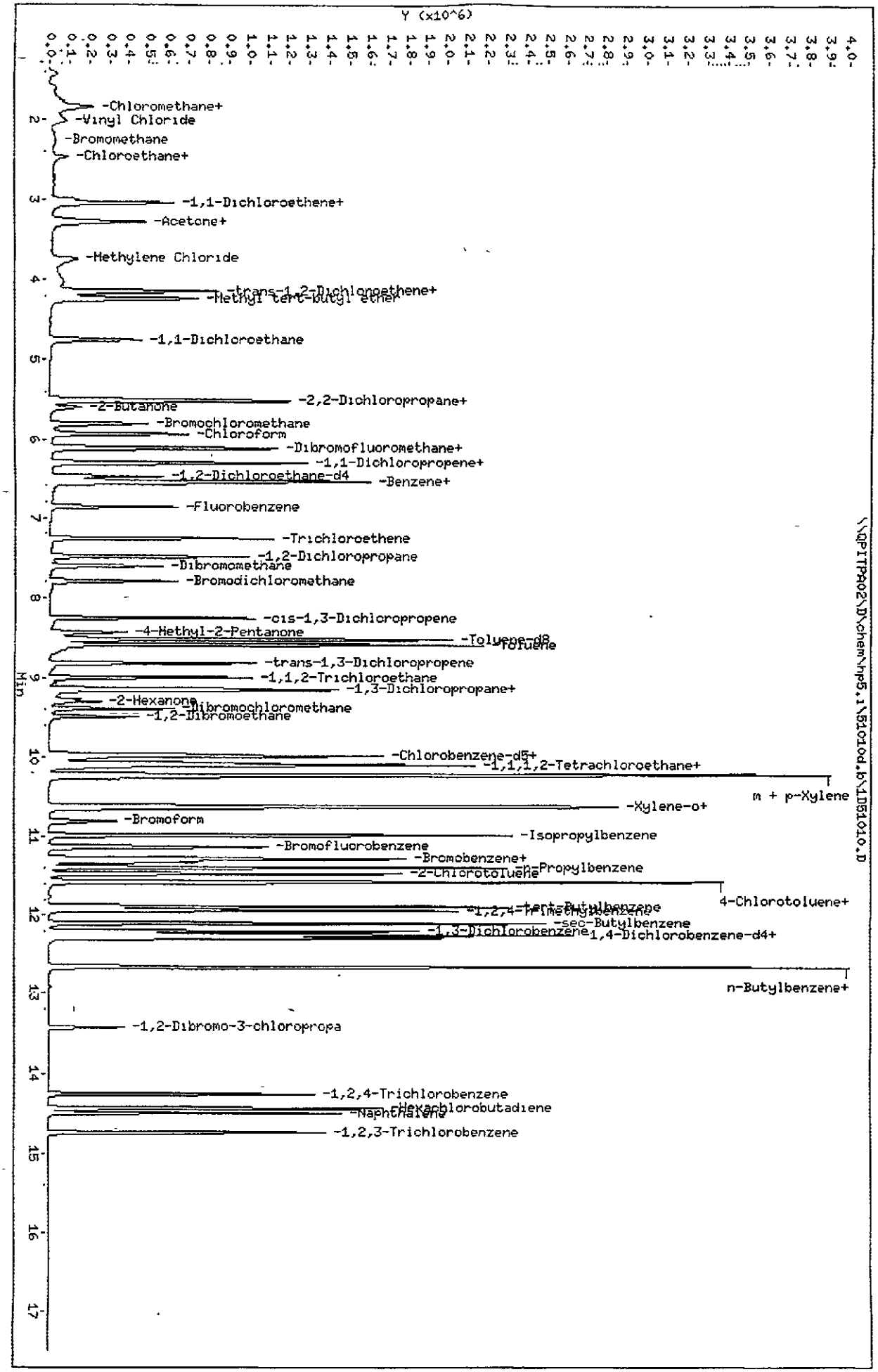
Heated Purge: (Y/N) Y Calibration Time(s): 1027 1455

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID: RRF5 =2A51010 RRF20 =1B51010
RRF50 =2C51010 RRF100=1D51010 RRF200=1E51010

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dibromo-3-chloropropane	0.177	0.164	0.182	0.196	0.202	0.184	8.3
2,2-Dichloropropane	0.345	0.474	0.415	0.446	0.425	0.421	11.4
1,1-Dichloropropene	0.242	0.305	0.276	0.300	0.293	0.283	9.1
1,3-Dichloropropane	1.883	2.123	1.985	2.087	1.952	2.006	4.9
n-Propylbenzene	0.802	0.987	0.864	0.925	0.905	0.897	7.7
Bromobenzene	0.750	0.751	0.711	0.744	0.722	0.736	2.4
1,3,5-Trimethylbenzene	1.844	2.621	2.194	2.427	2.322	2.282	12.7
2-Chlorotoluene	0.709	0.823	0.730	0.792	0.771	0.765	6.1
4-Chlorotoluene	0.746	0.841	0.737	0.799	0.757	0.776	5.6
tert-Butylbenzene	1.864	2.403	2.195	2.286	2.183	2.186	9.2
1,2,4-Trimethylbenzene	1.921	2.608	2.152	2.351	2.284	2.263	11.2
sec-Butylbenzene	2.906	3.812	3.408	3.595	3.346	3.413	9.9
4-Isopropyltoluene	2.213	3.079	2.631	2.833	2.673	2.686	11.8
n-Butylbenzene	2.028	2.789	2.457	2.575	2.359	2.442	11.5
1,2,4-Trichlorobenzene	0.773	0.882	0.786	0.827	0.814	0.816	5.2
Hexachlorobutadiene	0.536	0.573	0.591	0.612	0.582	0.579	4.9
Naphthalene	2.406	2.212	1.960	2.046	2.043	2.133	8.3
1,2,3-Trichlorobenzene	0.794	0.857	0.765	0.792	0.774	0.796	4.5
Acetone	0.699	0.343	0.228	0.181	0.134	0.317	71.6
Carbon Disulfide	0.599	0.890	0.815	0.870	0.749	0.785	15.0
2-Butanone	0.484	0.305	0.231	0.217	0.187	0.285	42.0
4-Methyl-2-Pentanone	1.062	0.821	0.966	1.438	1.360	1.129	23.2
2-Hexanone	0.837	0.953	0.188	0.722	0.709	0.682	43.0
Acrolein	0.068	0.078	0.083	0.074	0.066	0.074	9.4
Methyl tert-butyl ether	0.818	0.944	0.798	0.874	0.805	0.848	7.2
Dichlorodifluoromethane	0.207	0.279	0.248	0.273	0.244	0.250	11.4
Isopropylbenzene	4.542	6.492	5.610	5.980	5.346	5.594	13.0
Acrylonitrile	0.142	0.154	0.157	0.155	0.147	0.151	4.1
1,2-Dichloroethene (total)	0.286	0.351	0.296	0.326	0.303	0.312	8.4
Xylenes (total)	1.841	2.513	2.103	2.353	2.182	2.198	11.6
Dibromofluoromethane	0.318	0.282	0.267	0.275	0.259	0.280	8.2
1,2-Dichloroethane-d4	0.406	0.345	0.326	0.321	0.299	0.339	11.9
Toluene-d8	5.803	4.861	4.486	4.870	4.396	4.883	11.4
Bromofluorobenzene	2.085	1.790	1.737	1.766	1.626	1.801	9.5

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



Data File: \\QPITPA02\D\chem\hp5,1\5101od.b\1D5101O.D
Date : 10-OCT-2000 12:40
Client ID: vstd200
Sample Info: vstd100 5ml
Purge Volume: 5.0
Column phase: DB 624

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

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VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\51010d.b\2A51010.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 10-OCT-2000 14:55 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd5 5ml
Misc Info : ,51010d.b,8260bsoil.m,4-dwlistw.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51010d.b\8260bsoil.m
Meth Date : 10-Oct-2000 15:02 journetp Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

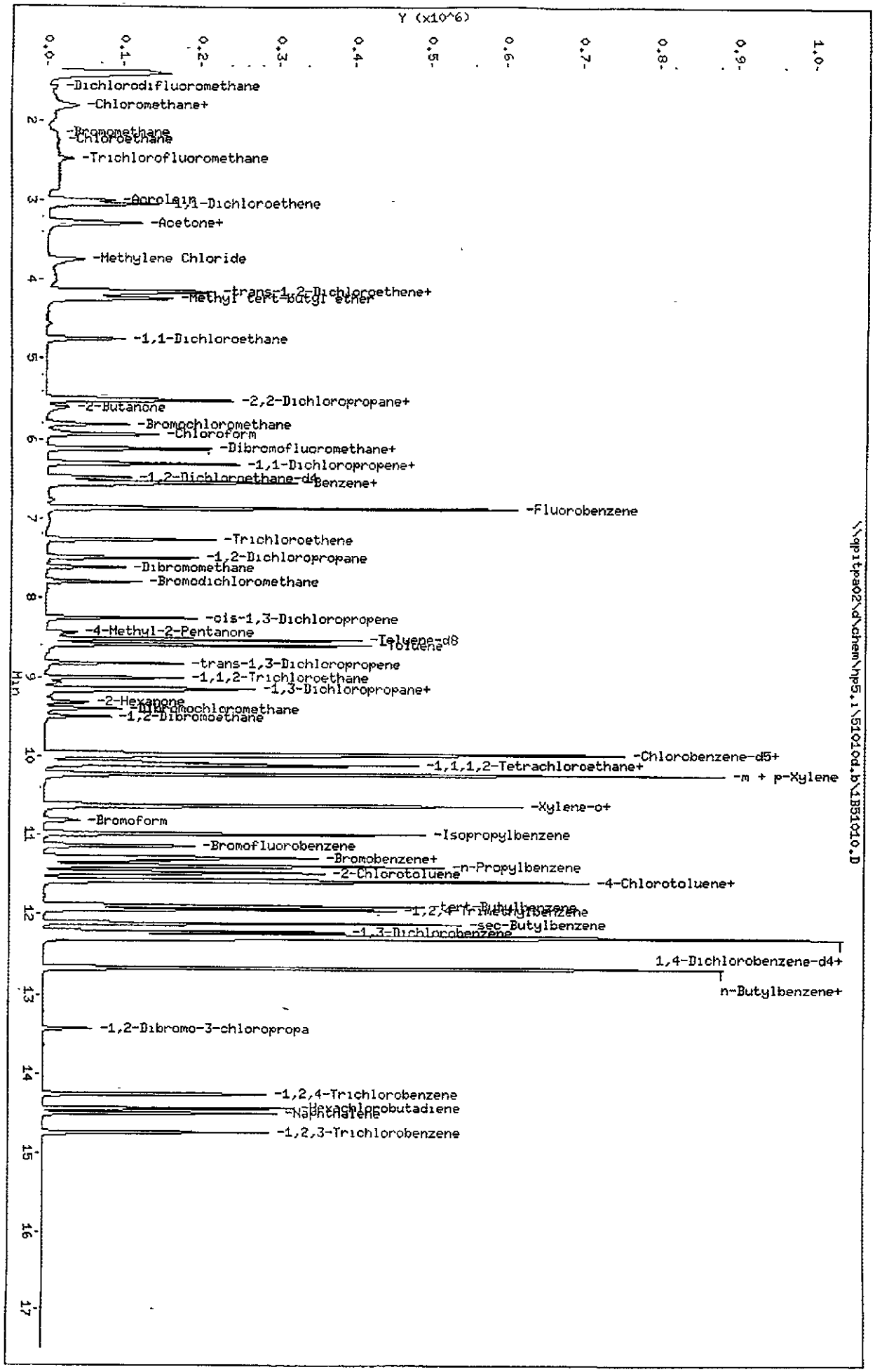
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6 860	6 860	(1 000)	710560	250.000	
* 69 Chlorobenzene-d5	119	9 956	9 956	(1 000)	167378	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12 274	12 274	(1 000)	282966	250.000	
$ 39 Dibromofluoromethane	113	6 118	6 118	(0 892)	22621	25.0000	28 41
$ 43 1,2-Dichloroethane-d4	65	6.483	6.483	(0 945)	28820	25 0000	29.89
$ 59 Toluene-d8	98	8.521	8.521	(0 856)	97130	25.0000	29 71
$ 80 Bromofluorobenzene	95	11.131	11.131	(1 118)	34896	25 0000	28.94
2 Chloromethane	50	1.847	1 847	(0.269)	23000	25.0000	20 66
3 Vinyl Chloride	62	2 017	2.017	(0.294)	19286	25 0000	20.37
4 Bromomethane	94	2 170	2.170	(0.316)	2063	25 0000	16 06
5 Chloroethane	64	2 407	2 407	(0 351)	1094	25 0000	7.079
6 Trichlorofluoromethane	101	2 480	2 480	(0 362)	3925	25 0000	20 18
7 Dichlorodifluoromethane	85	1 756	1 756	(0 256)	14711	25.0000	20 67
12 1,1-Dichloroethene	96	3 064	3 064	(0 447)	15093	25.0000	20 03
13 Acetone	43	3 228	3 228	(0 471)	49660	25.0000	55.09
15 Carbon Disulfide	76	3.301	3.301	(0 481)	42576	25 0000	19 08
18 Methylene Chloride	84	3 745	3.745	(0 546)	16253	25 0000	20 72

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4 141	4 141	(0 604)	19094	25 0000	22 07
	20 Methyl tert-butyl ether	73	4 226	4 226	(0 616)	58144	25 0000	24 13
	24 1,1-Dichloroethane	63	4 749	4 749	(0 692)	33366	25 0000	22 37
	27 2,2-Dichloropropane	77	5.503	5 503	(0 802)	24503	25 0000	20 48
	28 cis-1,2-dichloroethene	96	5 515	5 515	(0 804)	21484	25 0000	23 59
M	29 1,2-Dichloroethene (total)	96				40579	50 0000	45 70
	30 Bromochloromethane	128	5 801	5 801	(0 846)	10344	25 0000	24 48
	31 2-Butanone	43	5.588	5 588	(0 815)	34420	25 0000	42 51
	37 Chloroform	83	5.935	5 935	(0 865)	32319	25 0000	23 43
	38 1,1,1-Trichloroethane	97	6 106	6 106	(0.890)	23247	25.0000	20 30
	40 1,1-Dichloropropene	75	6.306	6 306	(0 919)	17172	25.0000	21 32
	41 Carbon Tetrachloride	117	6 300	6 300	(0 918)	18337	25 0000	19 42
	42 Benzene	78	6 537	6 537	(0 953)	76974	25 0000	22 69
	45 1,2-Dichloroethane	62	6 568	6 568	(0.957)	27108	25 0000	24 20
	47 Trichloroethene	130	7 261	7 261	(1.059)	18666	25 0000	21.24
	49 1,2-Dichloropropane	63	7 487	7.487	(1 091)	18856	25.0000	22 09
	50 Dibromomethane	93	7 608	7 608	(1 109)	11999	25.0000	24 51
	53 Bromodichloromethane	83	7 797	7 797	(1 137)	19960	25 0000	21 06
	57 cis-1,3-Dichloropropene	75	8 253	8.253	(1 203)	28656	25.0000	22 25
	58 4-Methyl-2-Pentanone	43	8 436	8 436	(0.847)	17778	25.0000	23 51
	60 Toluene	91	8.588	8.588	(0.863)	75223	25.0000	21 66
	61 trans-1,3-Dichloropropene	75	8 819	8 819	(0 886)	25950	25.0000	22 40
	63 1,3-Dichloropropane	76	9.159	9 159	(0 920)	31517	25.0000	23 47
	64 1,1,2-Trichloroethane	97	9 001	9 001	(0.904)	17726	25 0000	24 65
	65 Tetrachloroethene	164	9 135	9 135	(0.918)	14655	25 0000	21 40
	66 2-Hexanone	43	9 312	9 312	(0 935)	14009	25 0000	30 70
	67 Dibromochloromethane	129	9 385	9 385	(0 943)	13850	25 0000	20 18
	68 1,2-Dibromoethane	107	9 488	9 488	(0.953)	17804	25 0000	24 34
	70 Chlorobenzene	112	9 987	9 987	(1.003)	53068	25.0000	23 91
	71 1,1,1,2-Tetrachloroethane	131	10 066	10 066	(1 011)	16043	25 0000	22 13
	72 Ethylbenzene	106	10 102	10 102	(1 015)	26945	25 0000	21 61
	73 m + p-Xylene	106	10 218	10 218	(1 026)	66575	50.0000	43 55
	74 Xylene-o	106	10.607	10 607	(1 065)	30816	25 0000	20 94
M	75 Xylenes (total)	106				97392	25 0000	66 16
	76 Styrene	104	10.626	10.626	(1 067)	50419	25 0000	20 92
	77 Bromoform	173	10 802	10.802	(1 085)	9140	25 0000	19 86
	78 Isopropylbenzene	105	10 978	10 978	(1 103)	76033	25 0000	20 30
	79 Bromobenzene	156	11 270	11 270	(0 918)	21210	25 0000	25 48
	81 n-Propylbenzene	120	11.386	11 386	(0 928)	22701	25 0000	22 37
	82 2-Chlorotoluene	126	11 465	11 465	(0 934)	20053	25.0000	23 15
	83 1,1,2,2-Tetrachloroethane	83	11 283	11 283	(1 133)	28005	25 0000	25 73
	84 1,2,3-Trichloropropane	110	11 325	11 325	(0 923)	8382	25 0000	27 00
	85 4-Chlorotoluene	126	11 581	11 581	(0 944)	21126	25 0000	24 05
	86 1,3,5-Trimethylbenzene	105	11 569	11 569	(0 943)	52175	25.0000	20 20
	87 tert-Butylbenzene	119	11 885	11 885	(0.968)	52751	25.0000	21 32
	88 1,2,4-Trimethylbenzene	105	11.934	11 934	(0 972)	54357	25.0000	21 22
	89 sec-Butylbenzene	105	12 104	12 104	(0 986)	82223	25 0000	21 28

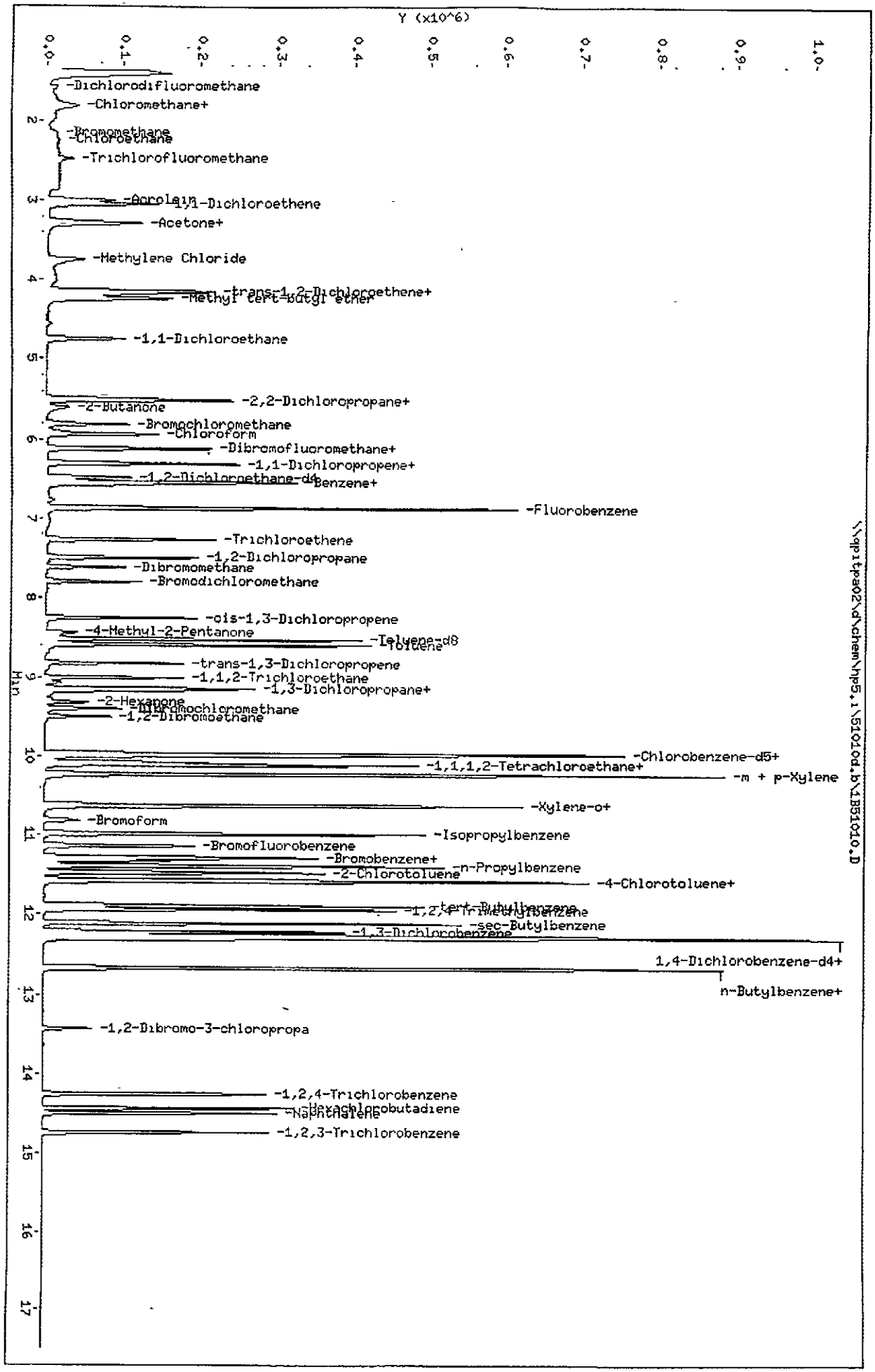
673 1178

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
90 4-Isopropyltoluene	119	12 256	12 256	(0 999)	62622	25 0000	20 60
91 1,3-Dichlorobenzene	146	12 213	12 213	(0 995)	42275	25 0000	24 73
93 1,4-Dichlorobenzene	146	12 299	12 299	(1 002)	46629	25 0000	26 11
94 n-Butylbenzene	91	12 657	12 657	(1.031)	57392	25 0000	20.77
95 1,2-Dichlorobenzene	146	12 670	12.670	(1.032)	43158	25.0000	25 99
96 1,2-Dibromo-3-chloropropane	157	13 436	13 436	(1 095)	5010	25 0000	24.04
97 1,2,4-Trichlorobenzene	180	14.263	14 263	(1 162)	21881	25 0000	23 68
98 Hexachlorobutadiene	225	14.446	14 446	(1 177)	15163	25 0000	23 14
99 Naphthalene	128	14 507	14 507	(1.182)	68075	25 0000	28 19
100 1,2,3-Trichlorobenzene	180	14 750	14.750	(1.202)	22469	25.0000	24 92
101 Acrylonitrile	53	4 147	4 147	(0 605)	202025	500 000	470 3
11 Acrolein	56	2.991	2 991	(0 436)	97362	500 000	462 6



Data File: \\qpitpa02\d\chem\hp5.i\510i0d.b\1B510i0.D
Date : 10-OCT-2000 12:10
Client ID: vstd20
Sample Info: vstd20 5ml
Purge Volume: 5.0
Column phase: DB 624

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



Data File: \\qpitpa02\d\chem\hp5.i\510i0d.b\1B510i0.D
Date : 10-OCT-2000 12:10
Client ID: vstd20
Sample Info: vstd20 5ml
Purge Volume: 5.0
Column phase: DB 624

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

673 1180

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VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51010d.b\1B51010.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 10-OCT-2000 12:10 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd20 5ml
Misc Info : ,51010d.b,8260bsoil.m,4-dwlistw.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51010d.b\8260bsoil.m
Meth Date : 10-Oct-2000 12:32 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 07:38 Cal File: 1C50908.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC063

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6 862	6.855	(1 000)	547663	250 000	
* 69 Chlorobenzene-d5	119	9 959	9.957	(1 000)	134219	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 277	12.275	(1 000)	263943	250 000	
$ 39 Dibromofluoromethane	113	6.126	6 119	(0 893)	61672	100 000	108.1
$ 43 1,2-Dichloroethane-d4	65	6 485	6 478	(0 945)	75539	100 000	105.8
$ 59 Toluene-d8	98	8 523	8.522	(0.856)	260959	100 000	93 62
$ 80 Bromofluorobenzene	95	11 133	11 131	(1 118)	96076	100 000	96 41
2 Chloromethane	50	1 807	1 848	(0 263)	97453	100 000	102.7
3 Vinyl Chloride	62	1.850	2 018	(0 270)	84958	100 000	98 94
4 Bromomethane	94	2 154	2 177	(0 314)	13829	100.000	118 1
5 Chloroethane	64	2 245	2 463	(0 327)	17908	100 000	143.7
6 Trichlorofluoromethane	101	2 476	2.463	(0.361)	20790	100.000	108 7
7 Dichlorodifluoromethane	85	1 570	1 775	(0 229)	61099	100 000	80.82
12 1,1-Dichloroethene	96	3 048	3 034	(0 444)	69952	100 000	136 1
13 Acetone	43	3 255	3 259	(0.474)	75229	100 000	168 0
15 Carbon Disulfide	76	3 285	3 272	(0 479)	195063	100 000	98 36
18 Methylene Chloride	84	3 742	3 734	(0.545)	84554	100 000	123 4

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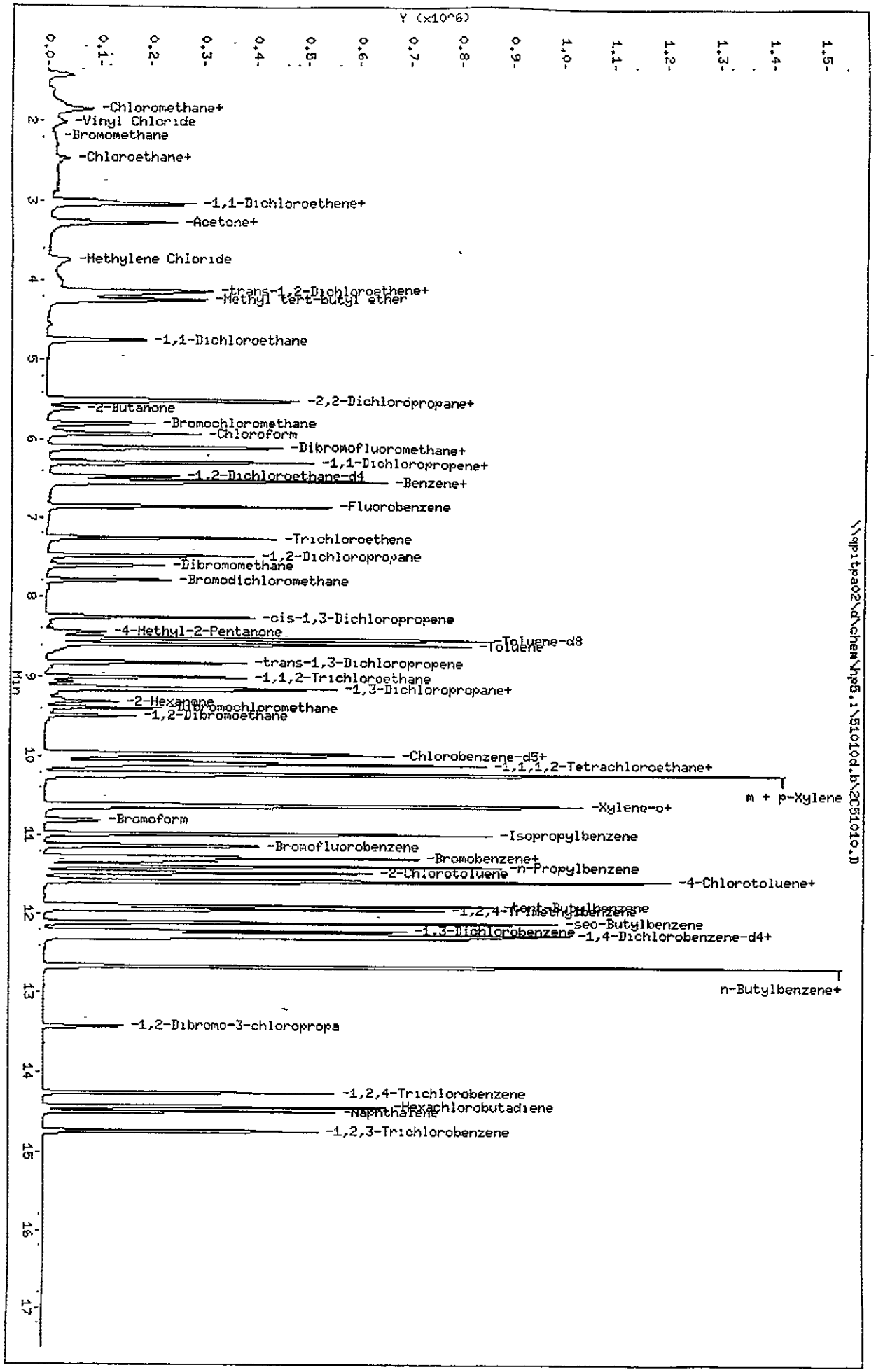
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4 137	4.129	(0 603)	76631	100 000	117 1
	20 Methyl tert-butyl ether	73	4 240	4 239	(0 618)	206752	100 000	104 7
	24 1,1-Dichloroethane	63	4.752	4 744	(0 692)	130880	100 000	108 7
	27 2,2-Dichloropropane	77	5 506	5.498	(0 802)	103839	100 000	108 0
	28 cis-1,2-dichloroethene	96	5 524	5 516	(0 805)	77161	100 000	104 1
M	29 1,2-Dichloroethene (total)	96				153792	200 000	220.4
	30 Bromochloromethane	128	5 810	5 802	(0.847)	36138	100 000	113 7
	31 2-Butanone	43	5 603	5.608	(0.817)	66872	100 000	56 65
	37 Chloroform	83	5 938	5 936	(0 865)	120280	100 000	110.5
	38 1,1,1-Trichloroethane	97	6.114	6 107	(0.891)	98031	100 000	103 9
	40 1,1-Dichloropropene	75	6 309	6 301	(0 919)	66890	100 000	85 98
	41 Carbon Tetrachloride	117	6 303	6 295	(0 918)	79109	100 000	105 1
	42 Benzene	78	6 540	6 532	(0 953)	286884	100 000	98.04
	45 1,2-Dichloroethane	62	6 570	6 563	(0 957)	94701	100 000	108 3
	47 Trichloroethene	130	7 264	7 256	(1 059)	77531	100.000	110 3
	49 1,2-Dichloropropane	63	7.489	7 487	(1 091)	73027	100 000	100 4
	50 Dibromomethane	93	7.611	7 609	(1.109)	40836	100 000	108 2
	53 Bromodichloromethane	83	7 799	7 792	(1.137)	78432	100 000	107 2
	57 cis-1,3-Dichloropropene	75	8 256	8 254	(1 203)	103275	100.000	104.6
	58 4-Methyl-2-Pentanone	43	8 438	8 430	(0 847)	44085	100 000	49 22
	60 Toluene	91	8 590	8 582	(0 863)	308990	100.000	93 40
	61 trans-1,3-Dichloropropene	75	8 821	8 820	(0 886)	93681	100 000	90 09
	63 1,3-Dichloropropane	76	9.162	9 160	(0 920)	113965	100.000	97 49
	64 1,1,2-Trichloroethane	97	8.998	8 996	(0 903)	61925	100 000	105 4
	65 Tetrachloroethene	164	9 138	9.136	(0 918)	58096	100 000	100 0
	66 2-Hexarone	43	9 314	9.270	(0 935)	51144	100 000	62 13
	67 Dibromochloromethane	129	9 387	9.386	(0 943)	55963	100 000	98 49
	68 1,2-Dibromoethane	107	9.491	9 483	(0 953)	61160	100 000	97 07
	70 Chlorobenzene	112	9.989	9 982	(1 003)	194371	100 000	93 78
	71 1,1,1,2-Tetrachloroethane	131	10 068	10 067	(1 011)	60890	100 000	98 69
	72 Ethylbenzene	106	10 105	10 097	(1 015)	111019	100 000	94 74
	73 m + p-Xylene	106	10 221	10 219	(1 026)	281537	200 000	209 8
	74 Xylene-o	106	10 610	10 608	(1 065)	134911	100 000	105 2
M	75 Xylenes (total)	106				416449	100 000	324 8
	76 Styrene	104	10.628	10 620	(1 067)	222115	100 000	105 9
	77 Bromoform	173	10.817	10 815	(1 086)	35606	100 000	98 19
	78 Isopropylbenzene	105	10 981	10 979	(1 103)	348517	100 000	103 6
	79 Bromobenzene	156	11 273	11.271	(0 918)	79288	100 000	76 16
	81 n-Propylbenzene	120	11 389	11 387	(0 928)	104249	100 000	85 37
	82 2 Chlorotoluene	126	11 468	11 466	(0 934)	86940	100 000	83 88
	83 1,1,2,2-Tetrachloroethane	83	11 285	11 284	(1 133)	91740	100 000	104.6
	84 1,2,3-Trichloropropane	110	11 322	11 320	(0 922)	27682	100 000	70.52
	85 4-Chlorotoluene	126	11.577	11.576	(0.943)	88787	100 000	87.25
	86 1,3,5-Trimethylbenzene	105	11 565	11 563	(0 942)	276691	100 000	91 50
	87 tert Butylbenzene	119	11 887	11 886	(0 968)	253715	100 000	85 72
	88 1,2,4-Trimethylbenzene	105	11 936	11 934	(0 972)	275382	100 000	93 71
	89 sec-Butylbenzene	105	12 106	12 105	(0 986)	402422	100 000	87 41

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
90 4-Isopropyltoluene	119	12 252	12 251	(0 998)	325054	100.000	95 33
91 1,3-Dichlorobenzene	146	12 210	12 208	(0 995)	170537	100 000	88.54
93 1,4-Dichlorobenzene	146	12 301	12 299	(1 002)	178378	100 000	91 39
94 n-Butylbenzene	91	12 660	12 658	(1 031)	294432	100.000	96 25
95 1,2-Dichlorobenzene	146	12 666	12.664	(1.032)	167983	100 000	94.71
96 1,2-Dibromo-3-chloropropane	157	13 439	13 431	(1 095)	17283	100.000	76.91
97 1,2,4-Trichlorobenzene	180	14.266	14 264	(1 162)	93091	100 000	108 6
98 Hexachlorobutadiene	225	14.442	14.447	(1 176)	60461	100 000	91 21
99 Naphthalene	128	14 503	14.502	(1 181)	233588	100.000	110.5
100 1,2,3-Trichlorobenzene	180	14 747	14.745	(1 201)	90491	100.000	116.3
101 Acrylonitrile	53	4 161	4 166	(0 606)	211260	625 000	585 9
11 Acrolein	56	2.999	2.998	(0 437)	107543	625 000	1319

Data File: \\qpitpa02\d\chem\hp5.i\510ct0d.b\2C51010.D
Date : 10-OCT-2000 10:27
Client ID: vstd50
Sample Info: vstd50 5ml
Purge Volume: 5.0
Column phase: DB 624

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



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VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51010d.b\2C51010.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 10-OCT-2000 10:27 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd50 5ml
Misc Info : ,51010d.b,8260bsoil.m,4-dwlists.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51010d.b\8260bsoil.m
Meth Date : 10-Oct-2000 12:05 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 07:38 Cal File: 1C50908.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC063

KLG 10/10/00

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

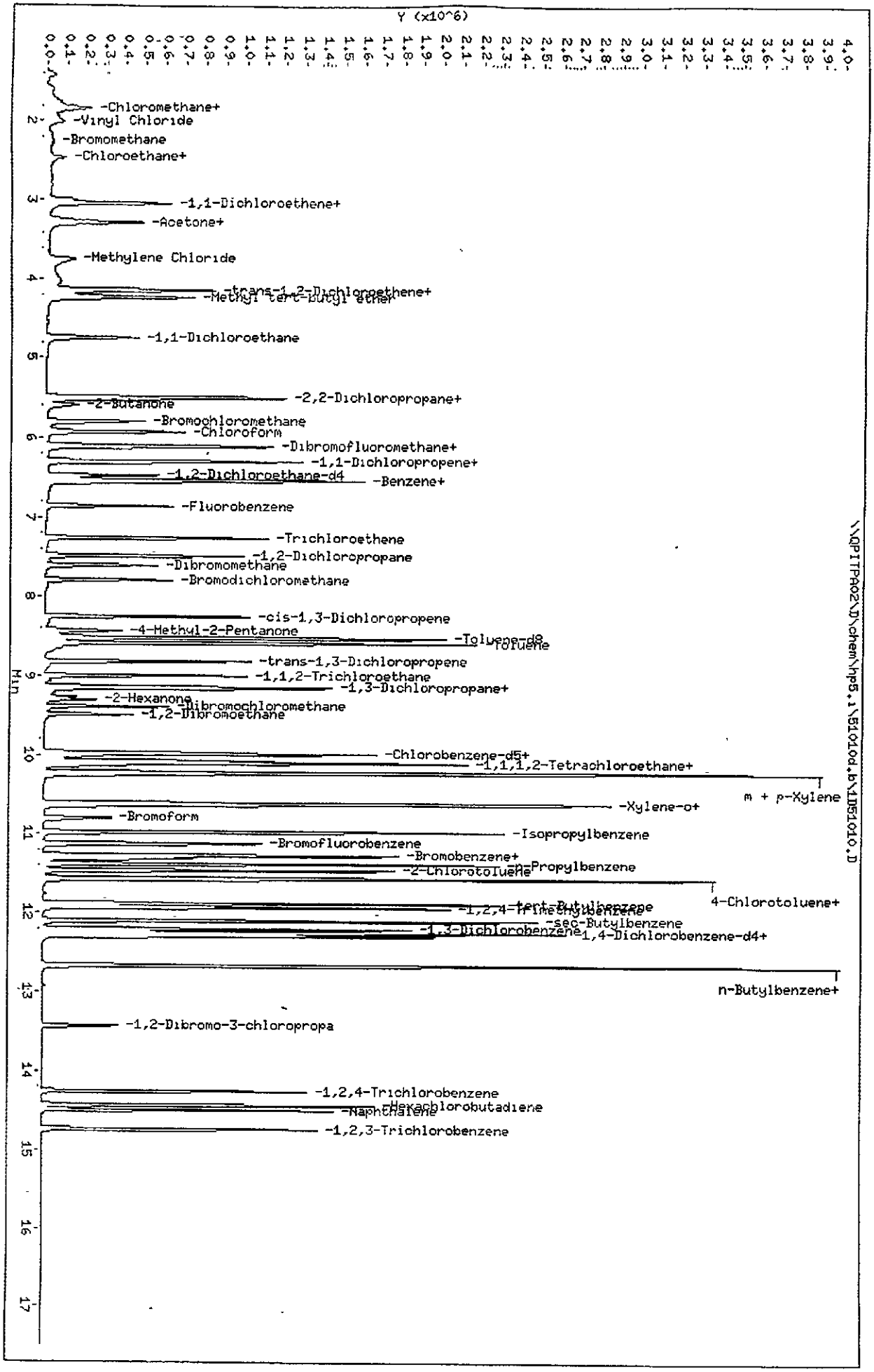
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.855	6.855	(1.000)	519681	250 000	
* 69 Chlorobenzene-d5	119	9 957	9.957	(1.000)	118856	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 275	12 275	(1.000)	216359	250 000	
$ 39 Dibromofluoromethane	113	6 119	6 119	(0.893)	138876	250 000	256 4
$ 43 1,2-Dichloroethane-d4	65	6.478	6 478	(0 945)	169374	250.000	249.9
$ 59 Toluene-d8	98	8 522	8 522	(0 856)	533156	250.000	216.0
$ 80 Bromofluorobenzene	95	11 131	11 131	(1.118)	206511	250.000	234 0
2 Chloromethane	50	1 848	1 848	(0 270)	195506	250 000	217 2
3 Vinyl Chloride	62	2 018	2 018	(0 295)	161241	250 000	197 9
4 Bromomethane	94	2 177	2 177	(0 318)	19976	250 000	179 7
5 Chloroethane	64	2.463	2 463	(0 359)	31425	250.000	265 8
6 Trichlorofluoromethane	101	2 463	2 463	(0 359)	26513	250.000	146.1
7 Dichlorodifluoromethane	85	1 775	1.775	(0 259)	129134	250 000	180 0
12 1,1-Dichloroethene	96	3 034	3.034	(0 443)	144529	250 000	296.4
13 Acetone	43	3 259	3.259	(0.476)	118711	250 000	279 3
15 Carbon Disulfide	76	3 272	3.272	(0 477)	423744	250 000	225 2
18 Methylene Chloride	84	3 734	3.734	(0 545)	74896	250 000	115.2

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4 129	4.129	(0 602)	149146	250 000	240 2
	20 Methyl tert-butyl etner	73	4 239	4.239	(0 618)	414573	250 000	221 2
	24 1,1-Dichloroethane	63	4 744	4 744	(0 692)	264103	250 000	231 2
	27 2,2-Dichloropropane	77	5 498	5 498	(0 802)	215688	250.000	236 4
	28 cis-1,2-dichloroethene	96	5 516	5 516	(0 805)	159055	250 000	226 2
M	29 1,2-Dichloroethene (total)	96				308201	500 000	465 5
	30 Bromochloromethane	128	5 802	5 802	(0 846)	72787	250 000	241 4
	31 2-Butanone	43	5 608	5 608	(0.818)	120028	250 000	107 1
	37 Chloroform	83	5 936	5 936	(0 866)	237550	250 000	229 9
	38 1,1,1-Trichloroethane	97	6.107	6 107	(0 891)	198610	250 000	221 8
	40 1,1-Dichloropropene	75	6 301	6 301	(0 919)	143638	250.000	194 6
	41 Carbon Tetrachloride	117	6 295	6 295	(0 918)	162876	250.000	228 0
	42 Benzene	78	6 532	6 532	(0 953)	600058	250 000	216 1
	45 1,2-Dichloroethane	62	6.563	6 563	(0 957)	196108	250 000	236 4
	47 Trichloroethene	130	7.256	7 256	(1 059)	146066	250 000	219.1
	49 1,2-Dichloropropane	63	7 487	7 487	(1 092)	144803	250 000	209.7
	50 Dibromomethane	93	7 609	7 609	(1 110)	84081	250.000	234.9
	53 Bromodichloromethane	83	7 792	7 792	(1 137)	164115	250 000	236 4
	57 cis-1,3-Dichloropropene	75	8 254	8.254	(1 204)	216116	250 000	230 6
	58 4-Methyl-2-Pentanone	43	8 430	8 430	(0 847)	114872	250 000	144 8
	60 Toluene	91	8.582	8 582	(0.862)	608980	250 000	207.9
	61 trans-1,3-Dichloropropene	75	8 820	8 820	(0.886)	208782	250.000	226 7
	63 1,3-Dichloropropane	76	9 160	9 160	(0.920)	235951	250.000	227.9
	64 1,1,2-Trichloroethane	97	8 996	8.996	(0 903)	127957	250 000	245 9
	65 Tetrachloroethene	164	9 136	9 136	(0 918)	120738	250 000	234 7
	66 2-Hexanone	43	9.270	9 270	(0.931)	22368	250 000	30 69
	67 Dibromochloromethane	129	9.386	9.386	(0 943)	118953	250 000	236 4
	68 1,2-Dibromoethane	107	9 483	9.483	(0.952)	125784	250 000	225 4
	70 Chlorobenzene	112	9 982	9.982	(1 002)	375326	250 000	204 5
	71 1,1,1,2-Tetrachloroethane	131	10.067	10 067	(1 011)	124158	250 000	227 2
	72 Ethylbenzene	106	10 097	10 097	(1 014)	213443	250 000	205 7
	73 m + p-Xylene	106	10 219	10.219	(1 026)	515962	500.000	434.2
	74 Xylene-o	106	10.608	10.608	(1 065)	249984	250 000	220 2
M	75 Xylenes (total)	106				765946	250 000	674 6
	76 Styrene	104	10 620	10 620	(1 067)	413012	250 000	222.4
	77 Bromoform	173	10.815	10 815	(1 086)	83069	250 000	258 7
	78 Isopropylbenzene	105	10.979	10 979	(1 103)	666791	250.000	223 8
	79 Bromobenzene	156	11 271	11 271	(0 918)	153927	250 000	180 4
	81 n-Propylbenzene	120	11 387	11 387	(0 928)	186973	250 000	186 8
	82 2-Chlorotoluene	126	11 466	11 466	(0 934)	157973	250 000	185 9
	83 1,1,2,2-Tetrachloroethane	83	11 284	11 284	(1 133)	195648	250 000	251 8
	84 1,2,3-Trichloropropane	110	11 320	11 320	(0 922)	58566	250 000	182 0
	85 4-Chlorotoluene	126	11.576	11 576	(0 943)	159381	250.000	191 1
	86 1,3,5-Trimethylbenzene	105	11.563	11 563	(0.942)	474605	250 000	191 5
	87 tert-Butylbenzene	119	11 886	11 886	(0 968)	474825	250 000	195 7
	88 1,2,4-Trimethylbenzene	105	11 934	11 934	(0 972)	465518	250 000	193 2
	89 sec-Butylbenzene	105	12 105	12 105	(0 986)	737375	250 000	195 4

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
90 4-Isopropyltoluene	119	12 251	12 251	(0 998)	569341	250 000	203.7
91 1,3-Dichlorobenzene	146	12 208	12 208	(0 995)	312834	250 000	198 1
93 1,4-Dichlorobenzene	146	12 299	12 299	(1.002)	320587	250.000	200 4
94 n-Butylbenzene	91	12.658	12 658	(1 031)	531549	250 000	212 0
95 1,2-Dichlorobenzene	146	12.664	12 664	(1 032)	307584	250 000	211 6
96 1,2-Dibromo-3-chloropropane	157	13.431	13 431	(1 094)	39408	250 000	213 9
97 1,2,4-Trichlorobenzene	180	14 264	14 264	(1.162)	170019	250.000	242 0
98 Hexachlorobutadiene	225	14 447	14.447	(1 177)	127972	250 000	235 5
99 Naphthalene	128	14.502	14 502	(1 181)	423962	250 000	244 6
100 1,2,3-Trichlorobenzene	180	14.745	14.745	(1 201)	165523	250 000	259 4
101 Acrylonitrile	53	4 166	4 166	(0 608)	244956	750 000	716.0
11 Acrolein	56	2 998	2.998	(0.437)	129589	750 000	1674



Data File: \\QPITPA02\D\chem\hp5.i\510104.b\1D510104.D
Date : 10-OCT-2000 12:40
Client ID: vstd100
Sample Info: vstd100 5ml
Purge Volume: 5.0
Column phase: DB 624

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

673 1188

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VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\51010d.b\1D51010.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 10-OCT-2000 12:40 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd100 5ml
Misc Info : ,51010d.b,8260bsoil.m,4-dwlistw.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51010d.b\8260bsoil.m
Meth Date : 10-Oct-2000 15:02 journetp Quant Type: ISTD
Cal Date : 08-SEP-2000 08:38 Cal File: 1E50908.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

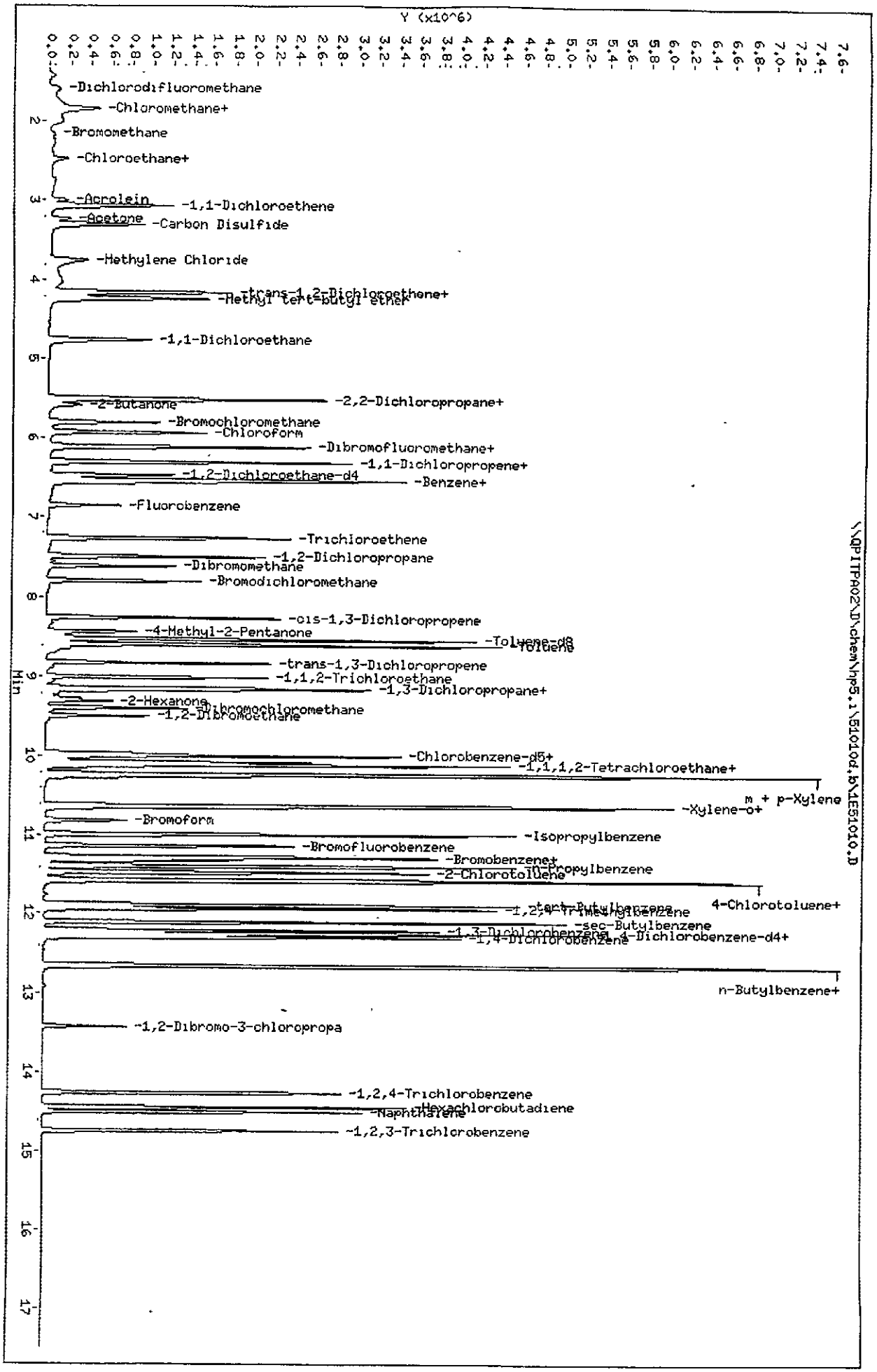
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6 861	6.860	(1 000)	581996	250 000	
* 69 Chlorobenzene-d5	119	9.957	9 956	(1 000)	139750	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12 274	(1 000)	257239	250 000	
$ 39 Dibromofluoromethane	113	6 119	6 118	(0 892)	320284	500.000	496 5
$ 43 1,2-Dichloroethane-d4	65	6 478	6 483	(0.944)	373748	500.000	478 8
$ 59 Toluene-d8	98	8.522	8 521	(0.856)	1361214	500 000	512 5
$ 80 Bromofluorobenzene	95	11 125	11 131	(1 117)	493458	500 000	502 5
2 Chloromethane	50	1 836	1 847	(0 268)	515635	500 000	556.7
3 Vinyl Chloride	62	2.012	2 017	(0 293)	423937	500 000	541.9
4 Bromomethane	94	2 274	2 170	(0 331)	56516	500 000	533 3
5 Chloroethane	64	2 462	2 407	(0 359)	68799	500.000	542 6
6 Trichlorofluoromethane	101	2 469	2 480	(0 360)	84828	500 000	557 4
7 Dichlorodifluoromethane	85	1 763	1 756	(0 257)	318115	500 000	578 8
12 1,1-Dichloroethene	96	3 046	3 064	(0 444)	332564	500 000	528 6
13 Acetone	43	3 247	3 228	(0.473)	210739	500 000	262 1
15 Carbon Disulfide	76	3 284	3 301	(0 479)	1013277	500 000	549 8
18 Methylene Chloride	84	3 746	3 745	(0 546)	380622	500 000	630 5

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4 135	4 141	(0 603)	373686	500.000	530 6
	20 Methyl tert-butyl ether	73	4 233	4 226	(0 617)	1017564	500 000	529 6
	24 1,1-Dichloroethane	63	4 750	4 749	(0 692)	633742	500 000	526 0
	27 2,2-Dichloropropane	77	5 504	5 503	(0 802)	519081	500 000	530 1
	28 cis-1,2-dichloroethene	96	5 516	5 515	(0 804)	385187	500 000	528 5
M	29 1,2-Dichloroethene (total)	96				758874	1000 00	1059
	30 Bromochloromethane	128	5 802	5 801	(0 846)	174440	500 000	525 2
	31 2-Butanone	43	5 595	5.588	(0 816)	252362	500 000	383 0
	37 Chloroform	83	5 936	5.935	(0 865)	576762	500.000	521 6
	38 1,1,1-Trichloroethane	97	6 113	6 106	(0 891)	504289	500 000	538 6
	40 1,1-Dichloropropene	75	6.307	6 306	(0 919)	348974	500 000	526 2
	41 Carbon Tetrachloride	117	6.301	6 300	(0 918)	429624	500 000	557.3
	42 Benzene	78	6 538	6.537	(0 953)	1458812	500 000	532 4
	45 1,2-Dichloroethane	62	6 569	6.568	(0 957)	469014	500.000	526 0
	47 Trichloroethene	130	7 262	7.261	(1 059)	391599	500.000	547 1
	49 1,2-Dichloropropane	63	7 487	7 487	(1.091)	372377	500 000	540 8
	50 Dibromomethane	93	7 609	7 608	(1 109)	206114	500.000	535 3
	53 Bromodichloromethane	83	7 792	7 797	(1 136)	420897	500 000	555 6
	57 cis-1,3-Dichloropropene	75	8 254	8.253	(1 203)	576083	500.000	564.3
	58 4-Methyl-2-Pentanone	43	8 430	8.436	(0 847)	401782	500.000	671.8
	60 Toluene	91	8 589	8 588	(0 863)	1544604	500 000	534 0
	61 trans-1,3-Dichloropropene	75	8.820	8 819	(0 886)	529156	500 000	569 1
	63 1,3-Dichloropropane	76	9.160	9 159	(0 920)	583227	500 000	534.3
	64 1,1,2-Trichloroethane	97	8.996	9 001	(0 903)	302430	500 000	523.3
	65 Tetrachloroethene	164	9 136	9 135	(0 918)	310736	500 000	547 6
	66 2-Hexanone	43	9.300	9 312	(0 934)	201728	500 000	539 3
	67 Dibromochloromethane	129	9 385	9 385	(0 943)	318222	500 000	570 2
	68 1,2-Dibromoethane	107	9 483	9 488	(0 952)	316281	500.000	542.8
	70 Chlorobenzene	112	9.988	9 987	(1 003)	960755	500.000	526.4
	71 1,1,1,2-Tetrachloroethane	131	10 067	10.066	(1 011)	325627	500 000	549 5
	72 Ethylbenzene	106	10 103	10.102	(1 015)	553605	500 000	537 3
	73 m + p-Xylene	106	10 219	10.218	(1.026)	1355335	1000.00	1073
	74 Xylene-o	106	10 608	10 607	(1 065)	657722	500 000	543 4
M	75 Xylenes (total)	106				2013058	500 000	1663
	76 Styrene	104	10.626	10 626	(1 067)	1076688	500 000	546.8
	77 Bromoform	173	10.803	10 802	(1 085)	215713	500 000	580.7
	78 Isopropylbenzene	105	10 979	10 978	(1 103)	1671397	500 000	538.1
	79 Bromobenzene	156	11 271	11 270	(0 918)	382623	500 000	523 0
	81 n-Propylbenzene	120	11 387	11 386	(0 928)	475761	500 000	521 7
	82 2-Chlorotoluene	126	11 466	11 465	(0 934)	407711	500 000	528 0
	83 1,1,2,2-Tetrachloroethane	83	11 284	11 283	(1 133)	453870	500 000	524 2
	84 1,2,3-Trichloropropane	110	11 314	11 325	(0 922)	139824	500.000	515 1
	85 4-Chlorotoluene	126	11 576	11 581	(0 943)	411100	500 000	526 6
	86 1,3,5-Trimethylbenzene	105	11 563	11 569	(0.942)	1248489	500 000	540 4
	87 tert-Butylbenzene	119	11 886	11 885	(0.968)	1176242	500 000	533 5
	88 1,2,4-Trimethylbenzene	105	11 934	11 934	(0 972)	1209337	500 000	531 8
	89 sec-Butylbenzene	105	12 105	12 104	(0 986)	1849367	500 000	533 0

673 1190

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
90	4-Isopropyltoluene	119	12 251	12.256	(0 998)	1457622	500.000	533 5
91	1,3-Dichlorobenzene	146	12 208	12 213	(0 995)	785951	500.000	518 5
93	1,4-Dichlorobenzene	146	12.299	12 299	(1 002)	808548	500 000	512 0
94	n-Butylbenzene	91	12 658	12 657	(1.031)	1324948	500 000	539 2
95	1,2-Dichlorobenzene	146	12 664	12.670	(1.032)	755191	500.000	518 0
96	1,2-Dibromo-3-chloropropane	157	13 431	13.436	(1 094)	101034	500.000	571.2
97	1,2,4-Trichlorobenzene	180	14 264	14 263	(1 162)	425412	500 000	530 1
98	Hexachlorobutadiene	225	14.441	14 446	(1 176)	315154	500 000	531 1
99	Naphthalene	128	14 502	14 507	(1 181)	1052490	500 000	511.6
100	1,2,3-Trichlorobenzene	180	14 745	14 750	(1 201)	407335	500.000	520 3
101	Acrylonitrile	53	4 154	4 147	(0 605)	315526	875 000	880 7
11	Acrolein	56	2 998	2 991	(0.437)	150505	875 000	849.8



Data File: \\QPITPA02\D\chem\hp5.i\510i0d.b\1E51010.D
Date : 10-OCT-2000 13:09
Client ID: vstd200
Sample Info: vstd200 5ml
Purge Volume: 5.0
Column phase: DB 624

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

673 1192

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\51010d.b\1E51010.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 10-OCT-2000 13:09 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd200 5ml
Misc Info : ,51010d.b,8260bsoil.m,4-dwlistw.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51010d.b\8260bsoil.m
Meth Date : 10-Oct-2000 14:09 journetp Quant Type: ISTD
Cal Date : 08-SEP-2000 08:38 Cal File: 1E50908.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.863	6.855	(1.000)	670266	250.000	
* 69 Chlorobenzene d5	119	9.959	9.957	(1.000)	160970	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.277	12.275	(1.000)	277436	250.000	
$ 39 Dibromofluoromethane	113	6.121	6.119	(0.892)	693364	1000.00	933.3
$ 43 1,2-Dichloroethane-d4	65	6.479	6.478	(0.944)	801269	1000.00	891.3
$ 59 Toluene-d8	98	8.524	8.522	(0.856)	2830319	1000.00	925.1
$ 80 Bromofluorobenzene	95	11.127	11.131	(1.117)	1046940	1000.00	925.6
2 Chloromethane	50	1.838	1.848	(0.268)	993480	1000.00	931.3
3 Vinyl Chloride	62	1.868	2.018	(0.272)	890605	1000.00	988.6
4 Bromomethane	94	2.160	2.177	(0.315)	125521	1000.00	1028
5 Chloroethane	64	2.464	2.463	(0.359)	147972	1000.00	1013
6 Trichlorofluoromethane	101	2.477	2.463	(0.361)	182576	1000.00	1042
7 Dichlorodifluoromethane	85	1.594	1.775	(0.232)	655075	1000.00	1035
12 1,1-Dichloroethene	96	3.067	3.034	(0.447)	617363	1000.00	852.1
13 Acetone	43	3.237	3.259	(0.472)	359110	1000.00	387.8
15 Carbon Disulfide	76	3.304	3.272	(0.481)	2008013	1000.00	946.1
18 Methylene Chloride	84	3.754	3.734	(0.547)	787664	1000.00	1134

673 1193

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4 150	4.129	(0 605)	792503	1000 00	977.1
	20 Methyl tert-butyl ether	73	4.229	4 239	(0.616)	2159037	1000 00	975 7
	24 1,1-Dichloroethane	63	4 752	4 744	(0 692)	1350452	1000 00	973 2
	27 2,2-Dichloropropane	77	5 506	5 498	(0 802)	1140738	1000 00	1012
	28 cis-1,2-dichloroethene	96	5 524	5 516	(0 805)	831988	1000 00	991 2
M	29 1,2-Dichloroethene (total)	96				1624491	2000 00	1968
	30 Bromochloromethane	128	5.810	5 802	(0 847)	383268	1000 00	1002
	31 2-Butanone	43	5 585	5 608	(0 814)	500988	1000 00	660.1
	37 Chloroform	83	5 938	5.936	(0 865)	1259388	1000.00	988 9
	38 1,1,1-Trichloroethane	97	6 114	6.107	(0 891)	1138910	1000.00	1056
	40 1,1-Dichloropropene	75	6.309	6 301	(0 919)	786580	1000.00	1030
	41 Carbon Tetrachloride	117	6.309	6 295	(0 919)	964634	1000.00	1086
	42 Benzene	78	6.540	6 532	(0 953)	3125498	1000 00	990.4
	45 1,2-Dichloroethane	62	6 565	6.563	(0 957)	1010205	1000 00	983 8
	47 Trichloroethene	130	7 264	7.256	(1 059)	836715	1000 00	1015
	49 1,2-Dichloropropane	63	7 489	7 487	(1 091)	815433	1000.00	1028
	50 Dibromomethane	93	7 611	7 609	(1 109)	448259	1000.00	1011
	53 Bromodichloromethane	83	7 794	7 792	(1 136)	941346	1000 00	1079
	57 cis-1,3-Dichloropropene	75	8.256	8 254	(1 203)	1286821	1000 00	1094
	58 4-Methyl-2-Pentanone	43	8 432	8 430	(0 847)	876028	1000 00	1272
	60 Toluene	91	8 590	8 582	(0 863)	3244976	1000 00	974.0
	61 trans-1,3-Dichloropropene	75	8 822	8.820	(0 886)	1098515	1000.00	1026
	63 1,3-Dichloropropane	76	9 156	9 160	(0 919)	1256902	1000.00	999.6
	64 1,1,2-Trichloroethane	97	8 998	8.996	(0 903)	643874	1000 00	967.3
	65 Tetrachloroethene	164	9 138	9 136	(0 918)	662138	1000 00	1013
	66 2-Hexanone	43	9 302	9.270	(0 934)	456333	1000 00	1181
	67 Dibromochloromethane	129	9 387	9 386	(0 943)	719026	1000.00	1118
	68 1,2-Dibromoethane	107	9 485	9.483	(0 952)	689562	1000 00	1028
	70 Chlorobenzene	112	9 984	9.982	(1 002)	2054857	1000 00	977 5
	71 1,1,1,2-Tetrachloroethane	131	10.069	10 067	(1 011)	715874	1000 00	1049
	72 Ethylbenzene	106	10.099	10 097	(1 014)	1195543	1000 00	1007
	73 m + p-Xylene	106	10.221	10.219	(1.026)	2845717	2000 00	1956
	74 Xylene-o	106	10 610	10.608	(1.065)	1405236	1000 00	1008
M	75 Xylenes (total)	106				4250953	1000 00	3049
	76 Styrene	104	10.622	10 620	(1 067)	2264988	1000 00	998 7
	77 Bromoform	173	10.805	10 815	(1 085)	487800	1000 00	1140
	78 Isopropylbenzene	105	10.981	10 979	(1 103)	3442030	1000.00	962 0
	79 Bromobenzene	156	11.273	11.271	(0 918)	801319	1000 00	1016
	81 n-Propylbenzene	120	11.389	11 387	(0 928)	1003920	1000 00	1021
	82 2-Chlorotoluene	126	11 468	11 466	(0 934)	855894	1000 00	1028
	83 1,1,2,2-Tetrachloroethane	83	11 279	11 284	(1 133)	950214	1000 00	952 7
	84 1,2,3-Trichloropropane	110	11.316	11 320	(0 922)	300386	1000 00	1027
	85 4-Chlorotoluene	126	11 577	11 576	(0 943)	839724	1000 00	997.4
	86 1,3,5-Trimethylbenzene	105	11 565	11 563	(0 942)	2576636	1000 00	1034
	87 tert-Butylbenzene	119	11 888	11 886	(0 968)	2422701	1000 00	1019
	88 1,2,4-Trimethylbenzene	105	11 936	11 934	(0 972)	2534697	1000 00	1034
	89 sec-Butylbenzene	105	12 107	12 105	(0 986)	3713206	1000 00	992 2

673 1194

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
90 4-Isopropyltoluene	119	12.253	12 251	(0.998)	2966522	1000 00	1007
91 1,3-Dichlorobenzene	146	12.210	12.208	(0.995)	1629293	1000 00	996.7
93 1,4-Dichlorobenzene	146	12 301	12.299	(1.002)	1663486	1000 00	976.6
94 n-Butylbenzene	91	12 660	12.658	(1 031)	2617867	1000 00	987 7
95 1,2-Dichlorobenzene	146	12 666	12 664	(1 032)	1474754	1000 00	937 8
96 1,2-Dibromo-3-chloropropane	157	13 433	13 431	(1 094)	223690	1000.00	1173
97 1,2,4-Trichlorobenzene	180	14.266	14 264	(1 162)	903138	1000 00	1044
98 Hexachlorobutadiene	225	14.443	14.447	(1.176)	645483	1000 00	1008
99 Naphthalene	128	14 504	14.502	(1 181)	2267720	1000 00	1022
100 1,2,3-Trichlorobenzene	180	14 747	14 745	(1 201)	859517	1000.00	1018
101 Acrylonitrile	53	4 150	4 166	(0 605)	394646	1000.00	956 4
11 Acrolein	56	3.000	2.998	(0 437)	177363	1000.00	869 6

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: 51018D

Instrument ID: HP5 Calibration Date: 10/18/00 Time: 0831

Lab File ID: CC51018 Init. Calib. Date(s): 10/10/00 10/10/00

Heated Purge: (Y/N) Y Init. Calib. Times: 1027 1455

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.392	0.303	0.1	22.7	50.0
Vinyl Chloride	0.333	0.299	0.01	10.2	20.0
Bromomethane	0.045	0.046	0.01	2.2	50.0
Chloroethane	0.054	0.058	0.01	7.4	50.0
Trichlorofluoromethane	0.068	0.093	0.01	36.8	50.0
1,1-Dichloroethene	0.265	0.280	0.01	5.7	20.0
Methylene Chloride	0.276	0.312	0.01	13.0	50.0
trans-1,2-Dichloroethene	0.305	0.330	0.01	8.2	50.0
1,1-Dichloroethane	0.525	0.554	0.1	5.5	50.0
cis-1,2-dichloroethene	0.320	0.339	0.01	5.9	50.0
Chloroform	0.485	0.513	0.01	5.8	20.0
Bromochloromethane	0.149	0.150	0.01	0.7	50.0
1,1,1-Trichloroethane	0.403	0.439	0.01	8.9	50.0
Carbon Tetrachloride	0.332	0.362	0.01	9.0	50.0
1,2-Dichloroethane	0.394	0.406	0.01	3.0	50.0
Benzene	1.193	1.273	0.01	6.7	50.0
Trichloroethene	0.309	0.326	0.01	5.5	50.0
1,2-Dichloropropane	0.300	0.324	0.01	8.0	20.0
Bromodichloromethane	0.334	0.353	0.01	5.7	50.0
cis-1,3-Dichloropropene	0.453	0.474	0.01	4.6	50.0
Toluene	5.188	5.984	0.01	15.3	20.0
trans-1,3-Dichloropropene	1.730	1.969	0.01	13.8	50.0
1,1,2-Trichloroethane	1.074	1.200	0.01	11.7	50.0
Tetrachloroethene	1.023	1.151	0.01	12.5	50.0
Dibromochloromethane	1.025	1.147	0.01	11.9	50.0
Chlorobenzene	3.315	3.660	0.3	10.4	50.0
Ethylbenzene	1.862	2.127	0.01	14.2	20.0
Styrene	3.599	4.254	0.01	18.2	50.0
Bromoform	0.688	0.741	0.1	7.7	50.0
1,1,2,2-Tetrachloroethane	1.626	1.611	0.3	0.9	50.0
1,3-Dichlorobenzene	1.510	1.686	0.01	11.6	50.0
1,4-Dichlorobenzene	1.578	1.744	0.01	10.5	50.0
1,2-Dichlorobenzene	1.467	1.599	0.01	9.0	50.0
Dibromomethane	0.172	0.174	0.01	1.2	50.0
1,2-Dibromoethane	1.093	1.170	0.01	7.0	50.0
1,1,1,2-Tetrachloroethane	1.083	1.198	0.01	10.6	50.0
1,2,3-Trichloropropane	0.274	0.272	0.01	0.7	50.0

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

673 1196

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: 51018D

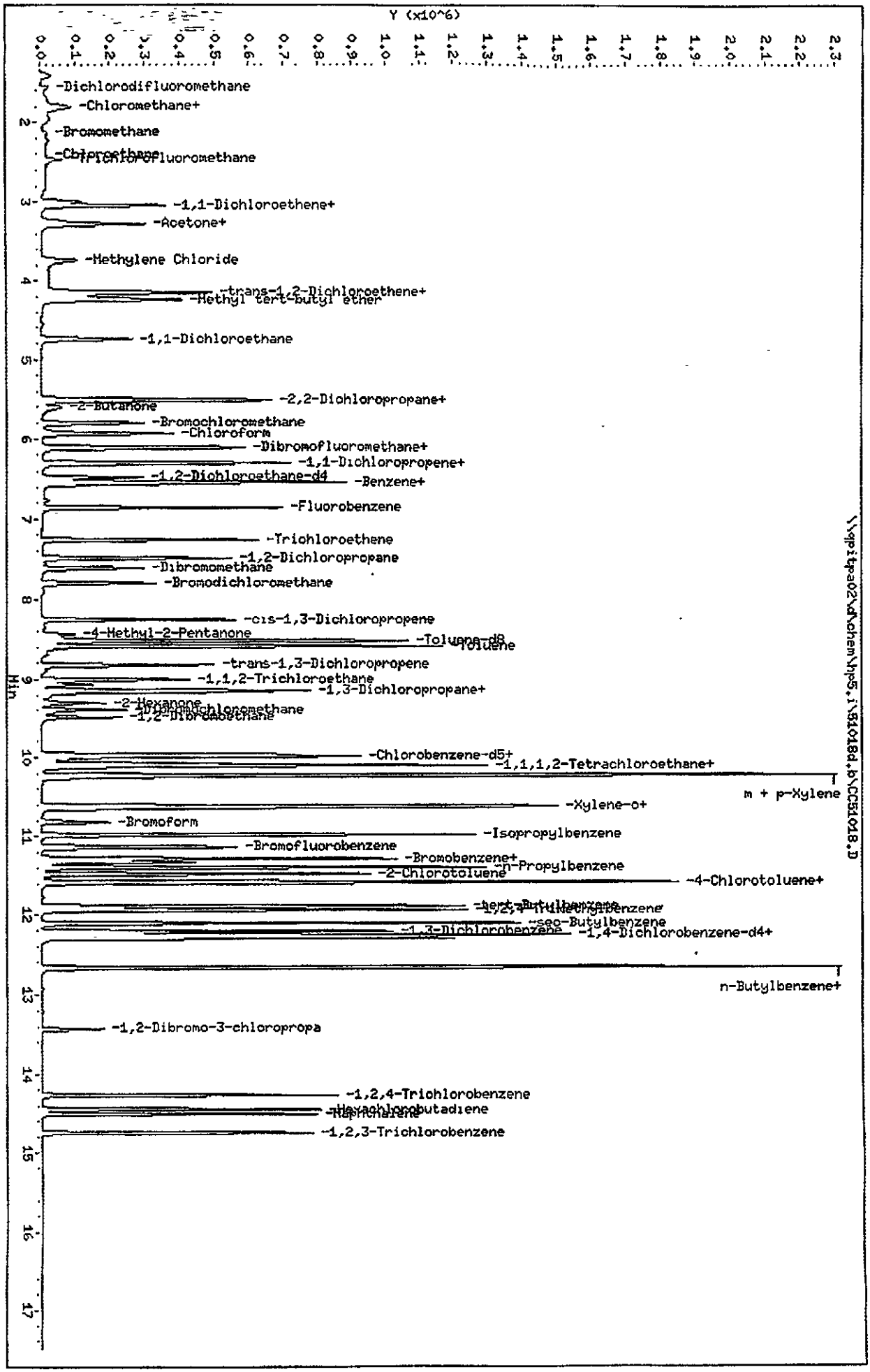
Instrument ID: HP5 Calibration Date: 10/18/00 Time: 0831

Lab File ID: CC51018 Init. Calib. Date(s): 10/10/00 10/10/00

Heated Purge: (Y/N) Y Init. Calib. Times: 1027 1455

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
1,2-Dibromo-3-chloropropane	0.184	0.185	0.01	0.5	50.0	
2,2-Dichloropropane	0.421	0.460	0.01	9.3	50.0	
1,1-Dichloropropene	0.283	0.314	0.01	11.0	50.0	
1,3-Dichloropropane	2.006	2.179	0.01	8.6	50.0	
n-Propylbenzene	0.897	1.059	0.01	18.1	50.0	
Bromobenzene	0.736	0.815	0.01	10.7	50.0	
1,3,5-Trimethylbenzene	2.282	2.927	0.01	28.3	50.0	
2-Chlorotoluene	0.765	0.881	0.01	15.2	50.0	
4-Chlorotoluene	0.776	0.895	0.01	15.3	50.0	
tert-Butylbenzene	2.186	2.625	0.01	20.1	50.0	
1,2,4-Trimethylbenzene	2.263	2.891	0.01	27.8	50.0	
sec-Butylbenzene	3.413	4.067	0.01	19.2	50.0	
4-Isopropyltoluene	2.686	3.281	0.01	22.2	50.0	
n-Butylbenzene	2.442	3.053	0.01	25.0	50.0	
1,2,4-Trichlorobenzene	0.816	0.996	0.01	22.0	50.0	
Hexachlorobutadiene	0.579	0.612	0.01	5.7	50.0	
Naphthalene	2.133	2.353	0.01	10.3	50.0	
1,2,3-Trichlorobenzene	0.796	0.938	0.01	17.8	50.0	
Acetone	0.317	0.232	0.01	26.8	50.0	
Carbon Disulfide	0.785	0.812	0.01	3.4	50.0	
2-Butanone	0.285	0.218	0.01	23.5	50.0	
4-Methyl-2-Pentanone	1.129	0.692	0.01	38.7	50.0	
2-Hexanone	0.682	1.058	0.01	55.1	50.0	<-
Acrolein	0.074	0.074	0.01	0.0	50.0	
Methyl tert-butyl ether	0.848	0.884	0.01	4.2	50.0	
Dichlorodifluoromethane	0.250	0.177	0.01	29.2	50.0	
Isopropylbenzene	5.594	6.630	0.01	18.5	50.0	
Acrylonitrile	0.151	0.140	0.01	7.3	50.0	
1,2-Dichloroethene (total)	0.312	0.334	0.01	7.0	50.0	
Xylenes (total)	2.198	2.562	0.01	16.6	50.0	
Dibromofluoromethane	0.280	0.259	0.01	7.5	50.0	
1,2-Dichloroethane-d4	0.339	0.308	0.01	9.1	50.0	
Toluene-d8	4.883	4.725	0.01	3.2	50.0	
Bromofluorobenzene	1.801	1.768	0.01	1.8	50.0	



Data File: \\spitpa02\d\chem\hp5.i\510418d.b\CC51018.D
Date : 18-OCT-2000 08:31
Client ID: vstd50
Sample Info: vstd50 5ml
Purge Volume: 5.0
Column phase: DB 624

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

673 1198

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51018d.b\CC51018.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 18-OCT-2000 08:31 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd50 5ml
Misc Info : ,51018d.b,8260bsoil.m,4-dwlistw.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51018d.b\8260bsoil.m
Meth Date : 18-Oct-2000 08:58 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04 KLG 10/18/00
Processing Host: PITPC063

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.854	6.854	(1 000)	634928	250.000	
* 69 Chlorobenzene-d5	119	9.956	9.956	(1.000)	140648	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12 274	12.274	(1 000)	256350	250.000	
$ 39 Dibromofluoromethane	113	6.118	6.118	(0.893)	164361	250.000	231.0
$ 43 1,2-Dichloroethane-d4	65	6.477	6.477	(0 945)	195285	250.000	226 6
$ 59 Toluene-d8	98	8.521	8.521	(0 856)	664545	250.000	241.9
$ 80 Bromofluorobenzene	95	11.137	11 137	(1.119)	248717	250.000	245 5
2 Chloromethane	50	1.805	1.805	(0.263)	192427	250.000	193.4
3 Vinyl Chloride	62	1.841	1.841	(0.269)	190074	250.000	224.6
4 Bromomethane	94	2 133	2.133	(0.311)	29010	250 000	252.7
5 Chloroethane	64	2.376	2.376	(0 347)	37179	250.000	269.2
6 Trichlorofluoromethane	101	2.468	2.468	(0 360)	58947	250.000	339.2
7 Dichlorodifluoromethane	85	1.561	1.561	(0.228)	112470	250 000	176.8
12 1,1-Dichloroethene	96	3.046	3.046	(0.444)	177523	250.000	263.6
13 Acetone	43	3.240	3.240	(0.473)	147176	250.000	182 7
15 Carbon Disulfide	76	3 283	3.283	(0.479)	515456	250.000	258.6
18 Methylene Chloride	84	3.733	3.733	(0.545)	198402	250.000	283.1

673 1199

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	19 trans-1,2-Dichloroethene	96	4.129	4.129	(0.602)	209449	250.000	270.9
	20 Methyl tert-butyl ether	73	4.226	4.226	(0.617)	561225	250.000	260.6
	24 1,1-Dichloroethane	63	4.743	4.743	(0 692)	351847	250 000	264.0
	27 2,2-Dichloropropane	77	5 497	5.497	(0.802)	291852	250.000	272.9
	28 cis-1,2-dichloroethene	96	5 516	5 516	(0.805)	215177	250 000	264.4
M	29 1,2-Dichloroethene (total)	96				424626	500.000	535.2
	30 Bromochloromethane	128	5 801	5 801	(0.846)	95517	250 000	253 0
	31 2-Butanone	43	5 595	5.595	(0.816)	138257	250.000	191.1
	37 Chloroform	83	5.929	5 929	(0 865)	325996	250.000	264 5
	38 1,1,1-Trichloroethane	97	6.106	6 106	(0 891)	278874	250.000	272 5
	40 1,1-Dichloropropene	75	6.306	6.306	(0.920)	199590	250 000	277 4
	41 Carbon Tetrachloride	117	6.300	6.300	(0.919)	230185	250 000	272 7
	42 Benzene	78	6.531	6.531	(0.953)	808511	250 000	266.8
	45 1,2-Dichloroethane	62	6.562	6.562	(0.957)	257818	250.000	257 5
	47 Trichloroethene	130	7.255	7.255	(1 059)	207057	250.000	263.6
	49 1,2-Dichloropropane	63	7 487	7.487	(1.092)	205773	250.000	269.8
	50 Dibromomethane	93	7.608	7.608	(1.110)	110804	250 000	253.2
	53 Bromodichloromethane	83	7.791	7.791	(1 137)	224110	250.000	264.6
	57 cis-1,3-Dichloropropene	75	8.253	8 253	(1.204)	301098	250.000	261.6
	58 4-Methyl-2-Pentanone	43	8.436	8 436	(0.847)	97401	250.000	153.3
	60 Toluene	91	8.588	8 588	(0.863)	841652	250.000	288.4
	61 trans-1,3-Dichloropropene	75	8 819	8 819	(0.886)	276933	250.000	284 5
	63 1,3-Dichloropropane	76	9.160	9.160	(0.920)	306456	250.000	271 6
	64 1,1,2-Trichloroethane	97	9.001	9.001	(0.904)	168770	250 000	279 3
	65 Tetrachloroethene	164	9 135	9.135	(0.918)	161842	250.000	281 3
	66 2-Hexanone	43	9 306	9.306	(0.935)	148849	250.000	388.1
	67 Dibromochloromethane	129	9.391	9.391	(0.943)	161298	250 000	279 7
	68 1,2-Dibromoethane	107	9.488	9.488	(0.953)	164496	250.000	267.6
	70 Chlorobenzene	112	9.987	9.987	(1 003)	514771	250 000	276 0
	71 1,1,1,2-Tetrachloroethane	131	10.072	10.072	(1.012)	168463	250.000	276.5
	72 Ethylbenzene	106	10.102	10.102	(1 015)	299169	250.000	285 6
	73 m + p-Xylene	106	10 218	10 218	(1.026)	738147	500.000	574 7
	74 Xylene-o	106	10 607	10 607	(1 065)	360382	250.000	291 4
M	75 Xylenes (total)	106				1098529	250.000	888 1
	76 Styrene	104	10.626	10.626	(1.067)	598335	250 000	295 5
	77 Bromoform	173	10.820	10.820	(1.087)	104191	250 000	269 4
	78 Isopropylbenzene	105	10.979	10.979	(1.103)	932449	250 000	296 3
	79 Bromobenzene	156	11.277	11.277	(0.919)	208933	250.000	277 0
	81 n-Propylbenzene	120	11.392	11.392	(0.928)	271481	250 000	295.3
	82 2-Chlorotoluene	126	11.471	11.471	(0.935)	225909	250.000	287.9
	83 1,1,2,2-Tetrachloroethane	83	11.283	11.283	(1 133)	226543	250 000	247 7
	84 1,2,3-Trichloropropane	110	11 319	11.319	(0 922)	69875	250 000	248 4
	85 4-Chlorotoluene	126	11 581	11.581	(0.944)	229544	250.000	288.5
	86 1,3,5-Trimethylbenzene	105	11 569	11.569	(0 943)	750402	250 000	320.8
	87 tert-Butylbenzene	119	11.891	11.891	(0 969)	672872	250.000	300.1
	88 1,2,4-Trimethylbenzene	105	11 940	11.940	(0.973)	741034	250.000	319.3
	89 sec-Butylbenzene	105	12 110	12 110	(0 987)	1042617	250.000	297.9

673 1200

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
90 4-Isopropyltoluene	119	12.256	12.256	(0.999)	841204	250 000	305.4
91 1,3-Dichlorobenzene	146	12.213	12 213	(0.995)	432239	250.000	279.1
93 1,4-Dichlorobenzene	146	12.299	12.299	(1 002)	446950	250.000	276.2
94 n-Butylbenzene	91	12 658	12.658	(1.031)	782695	250.000	312.6
95 1,2-Dichlorobenzene	146	12.670	12.670	(1.032)	409975	250.000	272.6
96 1,2-Dibromo-3-chloropropane	157	13.430	13 430	(1.094)	47483	250.000	251.4
97 1,2,4-Trichlorobenzene	180	14 264	14.264	(1 162)	255297	250.000	305.0
98 Hexachlorobutadiene	225	14.446	14.446	(1.177)	156848	250.000	264.2
99 Naphthalene	128	14.501	14.501	(1.181)	603281	250.000	275.8
100 1,2,3-Trichlorobenzene	180	14.744	14.744	(1 201)	240502	250.000	294.5
101 Acrylonitrile	53	4.153	4.153	(0.606)	266645	750.000	694.7
11 Acrolein	56	2.991	2.991	(0.436)	140267	750.000	745.9

673 1201

GC/MS VOLATILE
QC DATA

Data File: \\qpitpa02\d\chem\hp5.i\50908d.b\BF50908.D

Date : 08-SEP-2000 06:00

Client ID: 50NGBFB

Instrument: hp5.i

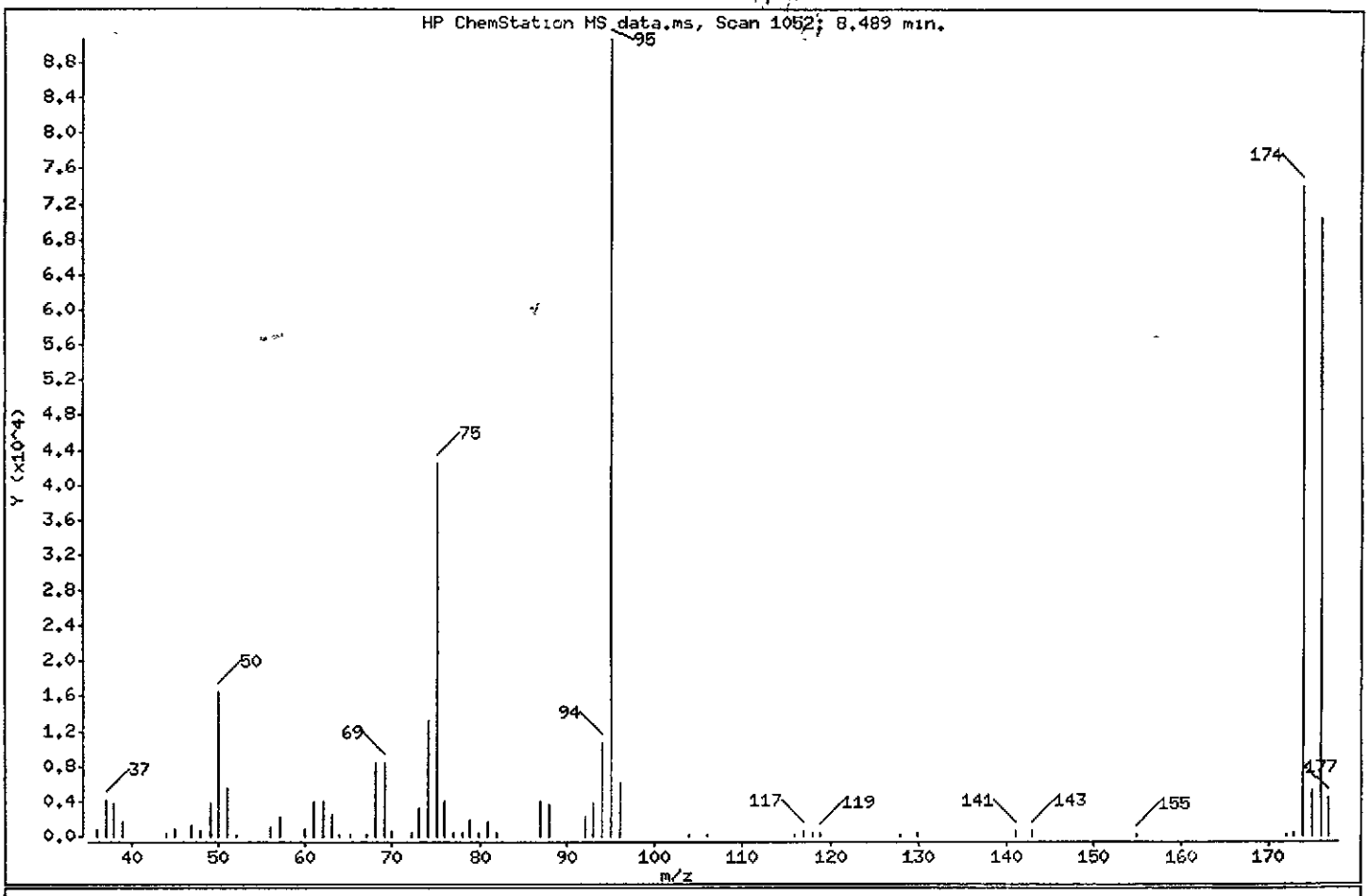
Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.29
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.57 (0.70)
174	50.00 - 100.00% of mass 95	81.70
175	5.00 - 9.00% of mass 174	5.76 (7.05)
176	95.00 - 101.00% of mass 174	77.91 (95.37)
177	5.00 - 9.00% of mass 176	4.76 (6.11)

Data File: \\qpitpa02\d\chem\hp5.1\50908d.b\BF50908.D

Date : 08-SEP-2000 06:00

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50908.D

Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.489 min.

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	749	61.00	3902	78.00	376	116.90	588
37.10	4165	62.10	4064	78.90	1834	117.90	319
38.10	3852	63.10	2577	79.90	476	118.90	407
39.10	1756	64.00	261	80.90	1642	127.90	227
44.10	422	65.10	246	81.90	439	129.90	359
45.10	775	67.10	307	87.00	3876	141.00	719
47.00	1185	68.00	8309	88.00	3536	142.90	707
48.00	630	69.00	8360	92.00	2327	154.90	241
49.10	3694	70.00	615	93.00	3831	172.00	305
50.10	16592	72.10	389	94.00	10640	173.00	521
51.10	5338	73.00	3155	95.00	90736	174.00	74128
52.00	307	74.00	13167	96.00	6070	175.00	5227
56.10	1138	75.00	42544	103.90	272	176.00	70696
57.00	2317	76.00	3870	105.90	309	176.90	4322
60.00	907	77.00	436	116.00	233		

Data File: \\QPITPA02\D\chem\hp5.1\50908d.b\BF50908.D
Date : 08-SEP-2000 06:00
Client ID: 50NGBFB
Sample Info: BFB 192-189-5 50NG

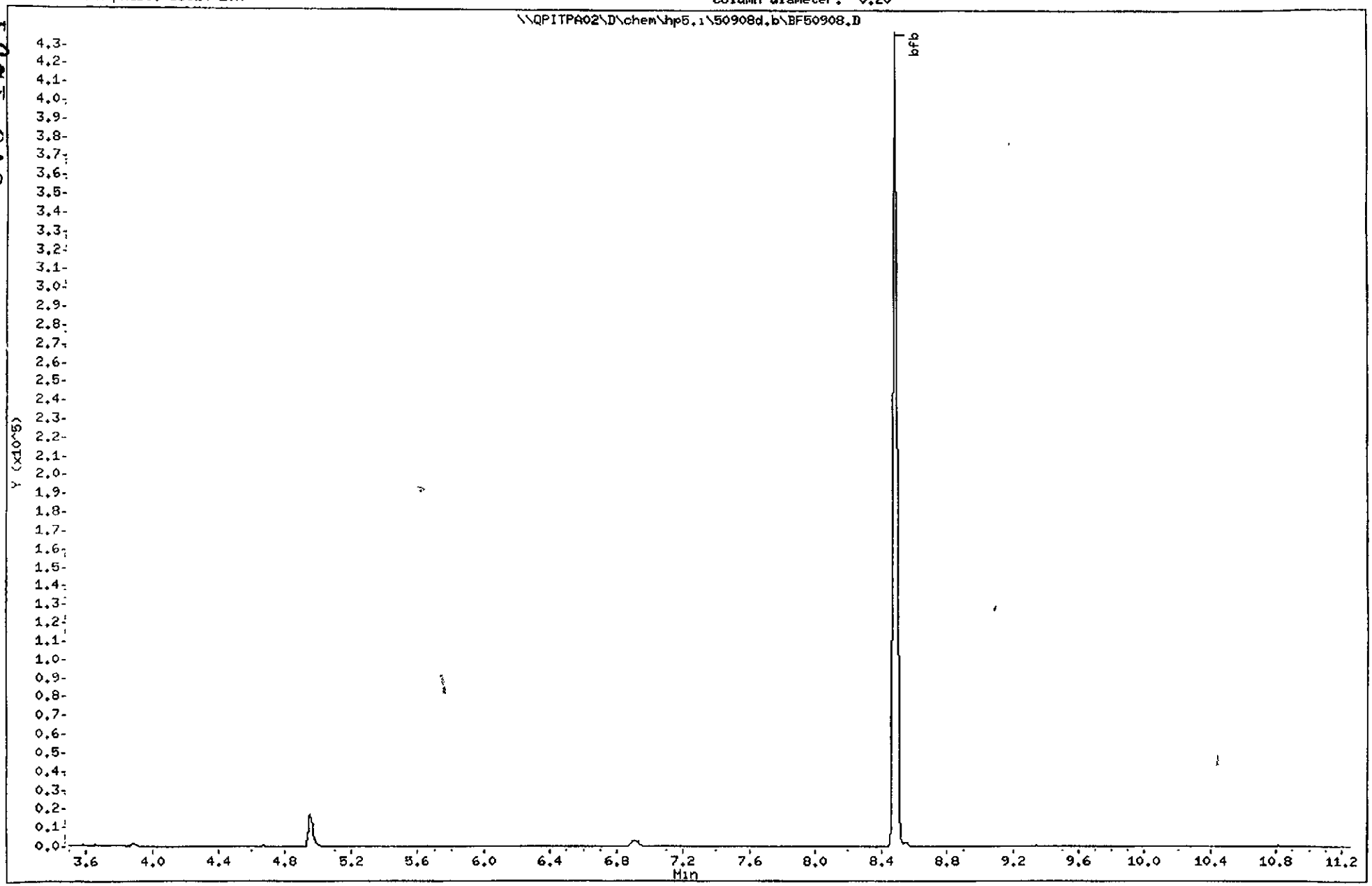
Column phase: DB624 20m

Instrument: hp5.1

Operator: 10099
Column diameter: 0.20

1071

673 1204



STL Pittsburgh

Data File: \\qpittpa02\d\chem\hp5.1\51010d.b\CF51010.D

Date : 10-OCT-2000 08:06

Client ID: 50NGBFB

Instrument: hp5.1

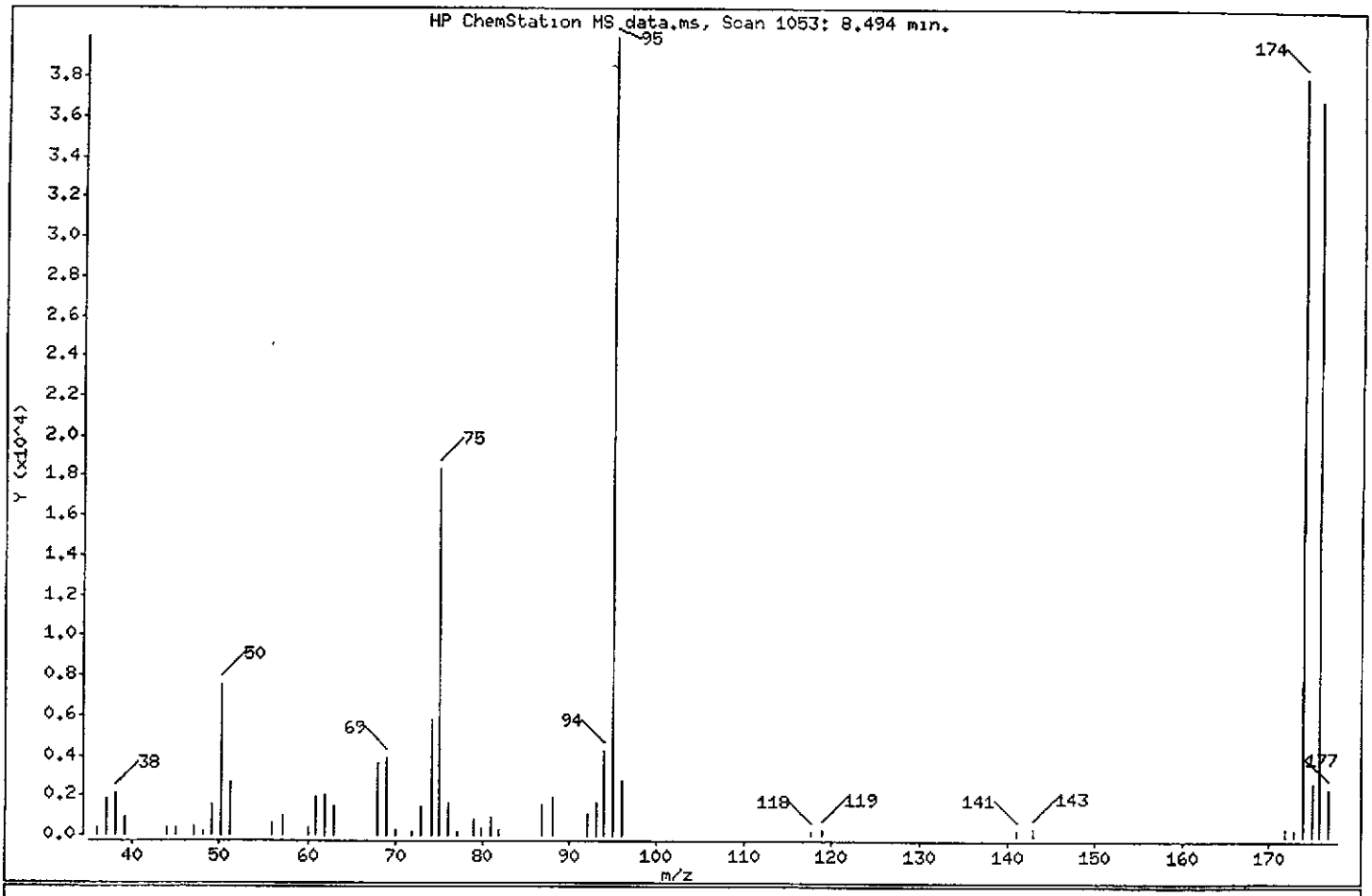
Sample Info: BFB 192-192-2 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.85
75	30.00 - 60.00% of mass 95	45.88
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.69 (0.72)
174	50.00 - 100.00% of mass 95	95.45
175	5.00 - 9.00% of mass 174	6.69 (7.01)
176	95.00 - 101.00% of mass 174	92.71 (97.13)
177	5.00 - 9.00% of mass 176	5.92 (6.39)

Data File: \\qpitpa02\d\chem\hp5.1\51010d.b\CF51010.D

Date : 10-OCT-2000 08:06

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: BFB 192-192-2 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: CF51010.D
Spectrum: HP ChemStation MS data.ms, Scan 1053: 8.494 min.
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	363	57.10	987	76.00	1635	96.00	2806
37.10	1837	60.10	334	77.10	223	117.80	203
38.10	2154	61.00	1912	78.90	864	118.90	257
39.10	886	62.00	2043	79.90	343	140.90	270
44.00	335	63.10	1475	81.00	878	142.90	363
45.00	367	68.00	3618	81.90	277	171.90	333
47.00	472	69.00	3933	86.90	1568	172.90	274
48.00	210	70.00	279	88.00	1937	173.90	38136
49.00	1539	72.00	209	92.00	1101	175.00	2673
50.10	7532	73.00	1500	93.00	1668	175.90	37040
51.10	2628	74.10	5815	94.00	4278	176.90	2367
56.00	659	75.00	18328	95.00	39952		

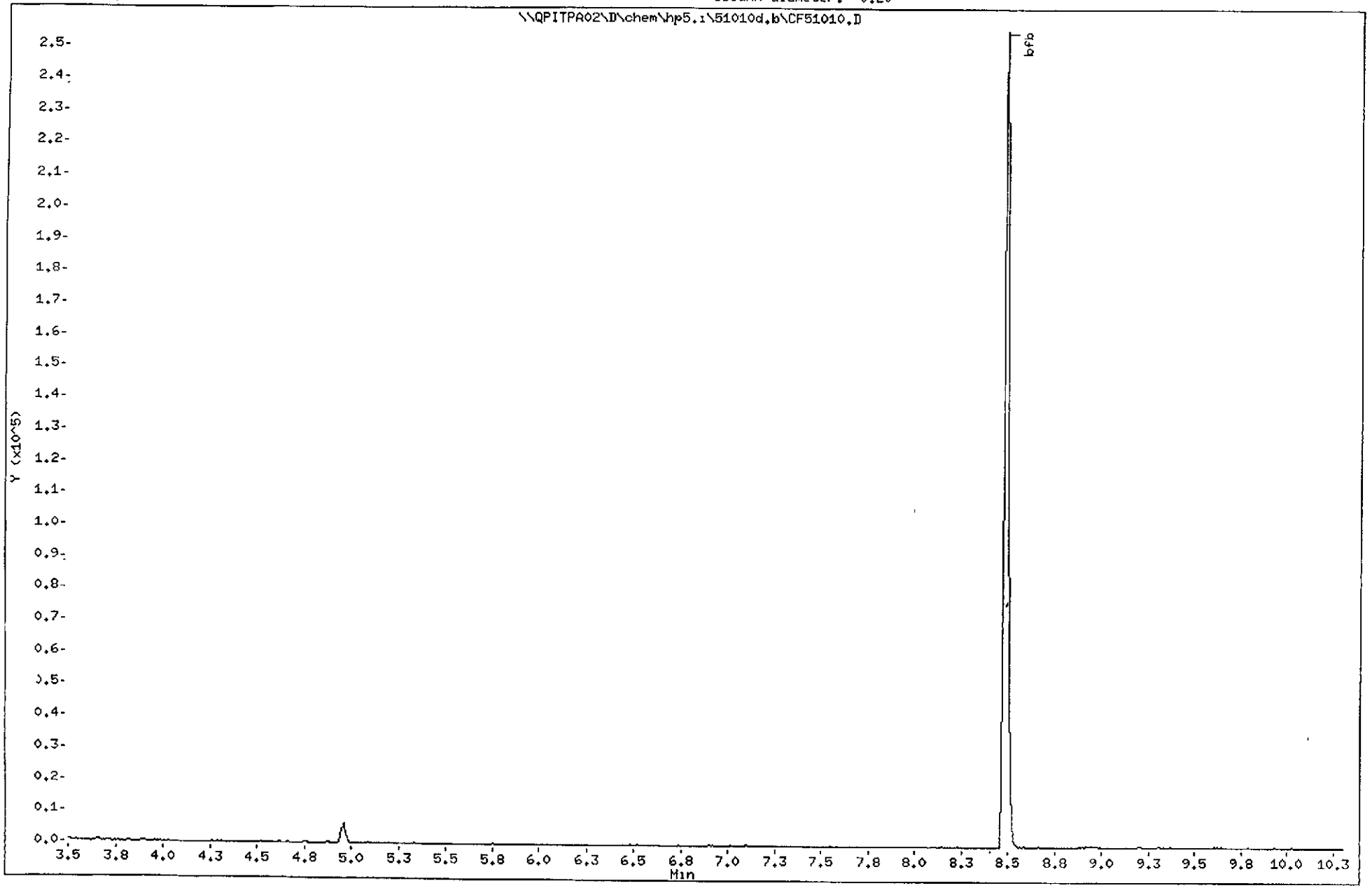
Data File: \\QPITPA02\D\chem\hp5.1\51010d.b\CF51010.D
Date : 10-OCT-2000 08:06
Client ID: 50NGBFB
Sample Info: BFB 192-192-2 50NG

Column phase: DB624 20m

673 1207

Instrument: hp5.1

Operator: 10099
Column diameter: 0.20



1074
STL Pittsburgh

Data File: \\QPITPA02\D\chem\hp5.i\51018d.b\BF51018.D

Date : 18-OCT-2000 08:04

Client ID: 50NGBFB

Instrument: hp5.i

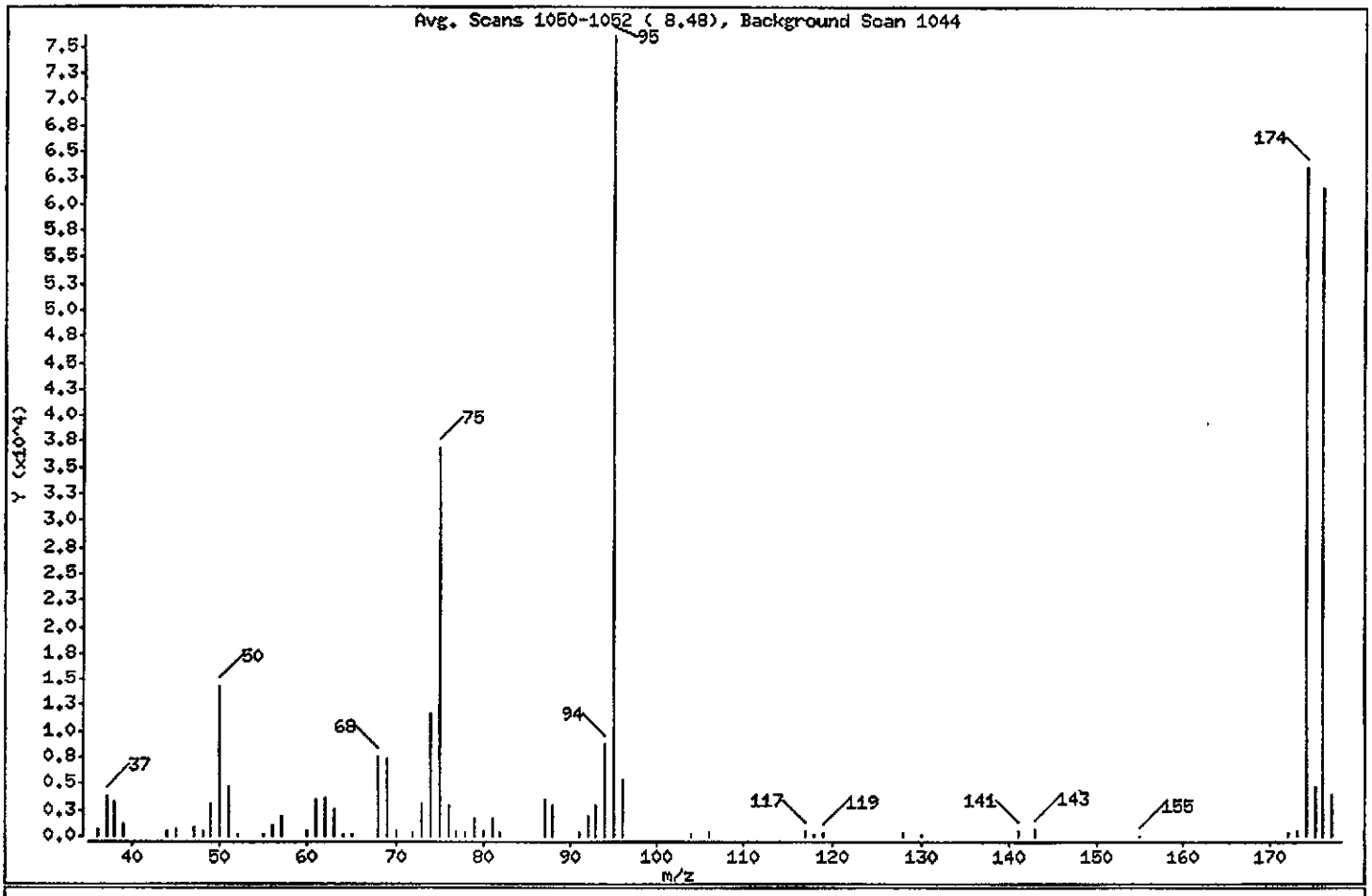
Sample Info: BFB 192-192-2 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	%.RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.84
75	30.00 - 60.00% of mass 95	48.44
96	5.00 - 9.00% of mass 95	7.04
173	Less than 2.00% of mass 174	0.69 (0.82)
174	50.00 - 100.00% of mass 95	83.61
175	5.00 - 9.00% of mass 174	6.28 (7.51)
176	95.00 - 101.00% of mass 174	81.06 (96.96)
177	5.00 - 9.00% of mass 176	5.26 (6.49)

Data File: \\QRITPA02\D\chem\hp5.i\51018d.b\BF51018.D

Date : 18-OCT-2000 08:04

Client ID: 50NGBFB Instrument: hp5.i

Sample Info: BFB 192-192-2 50NG

Operator: 10099

Column phase: DB624 20m Column diameter: 0.20

Data File: BF51018.D
Spectrum: Avg. Scans 1050-1052 (8.48), Background Scan 1044
Location of Maximum: 95.00
Number of points: 62

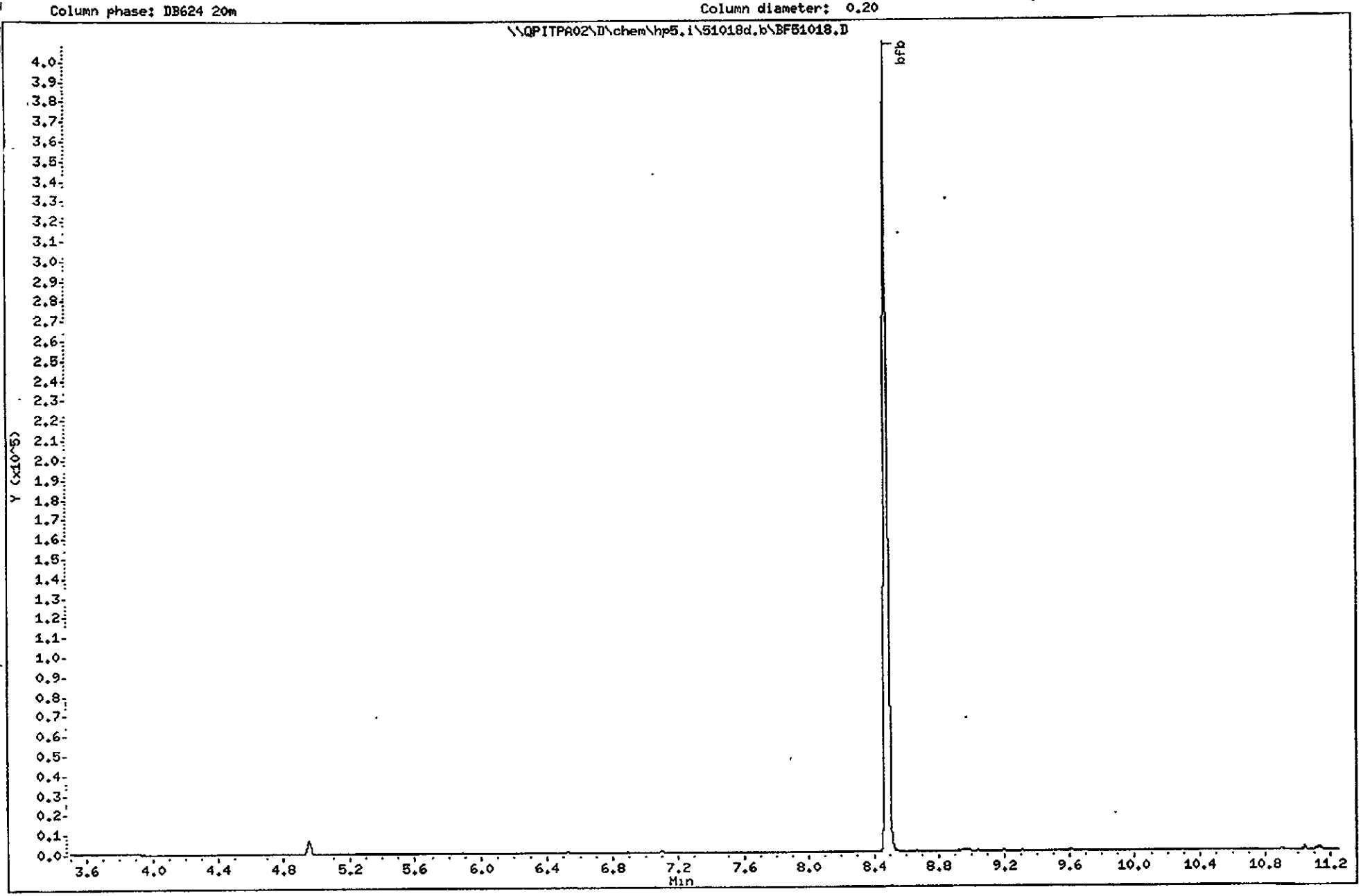
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	632	61.00	3432	79.00	1715	118.00	112
37.00	3776	62.00	3600	80.00	525	119.00	330
38.00	3291	63.00	2569	81.00	1829	128.00	300
39.00	1243	64.00	258	82.00	399	130.00	248
44.00	500	65.00	201	87.00	3460	141.00	571
45.00	671	67.00	69	88.00	3017	143.00	617
47.00	929	68.00	7503	91.00	338	148.00	72
48.00	492	69.00	7273	92.00	2007	155.00	71
49.00	3164	70.00	512	93.00	2903	172.00	379
50.00	14327	72.00	365	94.00	8689	173.00	523
51.00	4665	73.00	3221	95.00	76024	174.00	63560
52.00	140	74.00	11742	96.00	5350	175.00	4776
55.00	149	75.00	36824	104.00	259	176.00	61624
56.00	1063	76.00	3027	106.00	296	177.00	3998
57.00	1972	77.00	469	116.00	86		
60.00	585	78.00	287	117.00	466		

Data File: \\QPITPA02\D\chem\hp5.i\51018d.b\BF51018.D
Date : 18-OCT-2000 08:04
Client ID: 50NGBFB
Sample Info: BFB 192-192-2 50NG

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20
Column phase: DB624 20m

673 1210

1077



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673 1211

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AA Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

Client Sample Id: INTRA-LAB BLANK

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

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AA Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

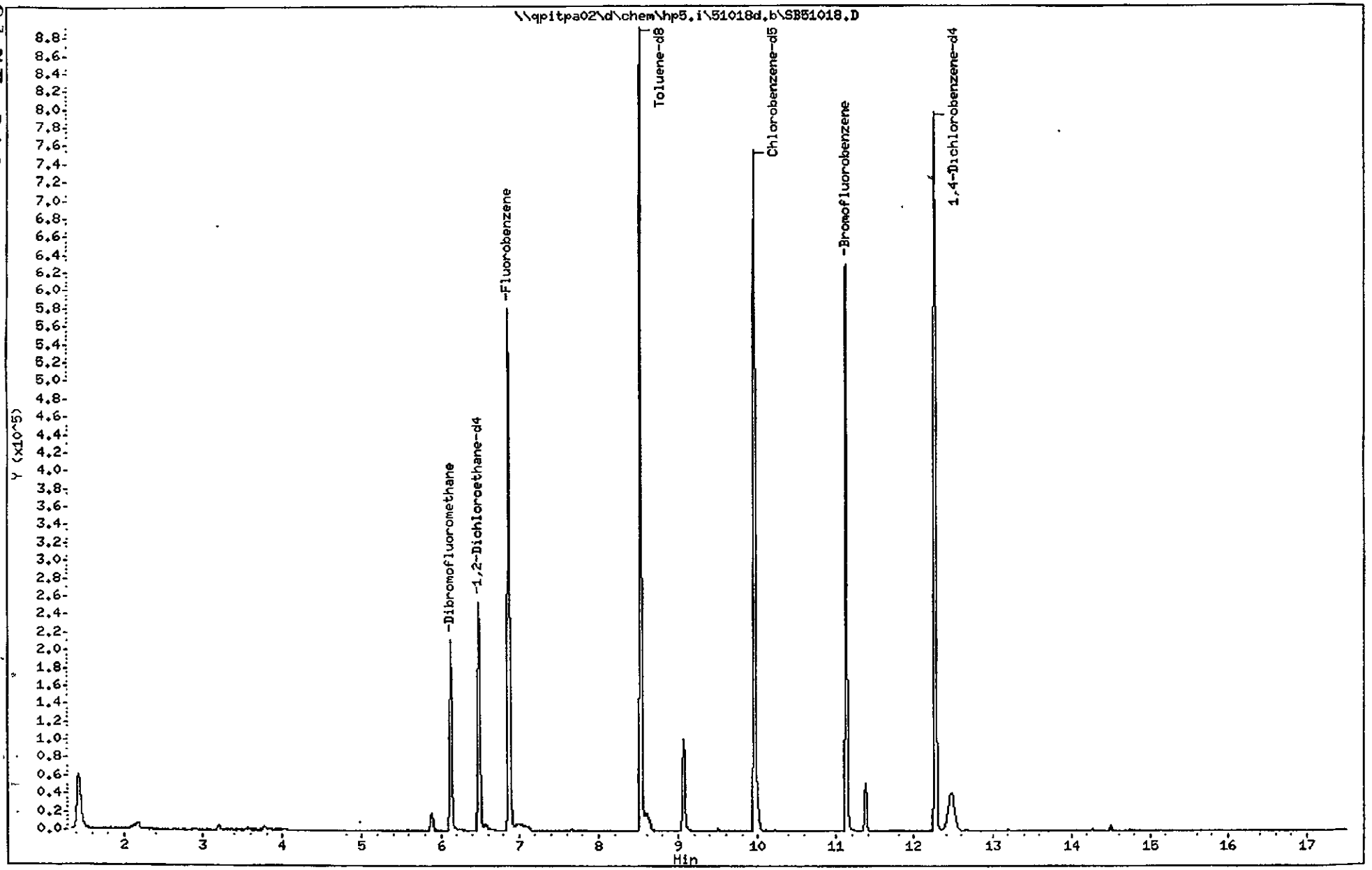
Client Sample Id: INTRA-LAB BLANK

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

Data File: \\qpitpa02\d\chem\hp5.i\51018d.b\SB51018.D
Date : 18-OCT-2000 09:20
Client ID:
Sample Info: vblk 5.0g/5ml
Purge Volume: 5.0
Column phase: DB 624

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

673 1213



1080

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STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51018d.b\SB51018.D
Lab Smp Id:
Inj Date : 18-OCT-2000 09:20 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vblk 5.0g/5ml
Misc Info : ,51018d.b,8260bsoil.m,3-fulllist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51018d.b\8260bsoil.m
Meth Date : 18-Oct-2000 09:20 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-fulllist.sub
Target Version: 4.04
Processing Host: PITPC076

KLG 10/18/00

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 46 Fluorobenzene	96	6.874	6.863	(1.000)	505320	250.000	
* 69 Chlorobenzene-d5	119	9 959	9.959	(1.000)	127357	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.270	12.271	(1.000)	210239	250.000	
$ 39 Dibromofluoromethane	113	6 126	6.118	(0.891)	136701	241.386	48.28
$ 43 1,2-Dichloroethane-d4	65	6 491	6 477	(0 944)	171459	250.036	50.01
$ 59 Toluene-d8	98	8.529	8.521	(0 856)	582044	233 981	46.80
$ 80 Bromofluorobenzene	95	11.121	11 137	(1.117)	216178	235 663	47.13
7 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					
11 Acrolein	56	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					
14 Iodomethane	142	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
15 Carbon Disulfide	76	Compound Not Detected					
16 3-Chloro-1-propene	76	Compound Not Detected					
17 Acetonitrile	40	Compound Not Detected.					
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					
101 Acrylonitrile	53	Compound Not Detected					
24 1,1-Dichloroethane	63	Compound Not Detected					
26 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
27 2,2-Dichloropropane	77	Compound Not Detected					
28 cis-1,2-dichloroethene	96	Compound Not Detected					
31 2-Butanone	43	Compound Not Detected.					
30 Bromochloromethane	128	Compound Not Detected.					
32 Vinyl Acetate	43	Compound Not Detected					
34 Propionitrile	54	Compound Not Detected					
36 Methacrylonitrile	41	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
38 1,1,1-Trichloroethane	97	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
40 1,1-Dichloropropene	75	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
44 Isobutanol	41	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.					
51 Methyl methacrylate	41	Compound Not Detected					
52 1,4-Dioxane	88	Compound Not Detected.					
53 Bromodichloromethane	83	Compound Not Detected.					
56 2-Chloroethyl vinyl ether	63	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.					
62 Ethyl methacrylate	69	Compound Not Detected.					
64 1,1,2-Trichloroethane	97	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
67 Dibromochloromethane	129	Compound Not Detected.					
63 1,3-Dichloropropane	76	Compound Not Detected.					
66 2-Hexanone	43	Compound Not Detected.					
68 1,2-Dibromoethane	107	Compound Not Detected.					
70 Chlorobenzene	112	Compound Not Detected					
72 Ethylbenzene	106	Compound Not Detected					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
73 m + p-Xylene	106	Compound Not Detected.					
74 Xylene-o	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
77	Bromoform	173	Compound Not Detected.					
78	Isopropylbenzene	105	Compound Not Detected.					
79	Bromobenzene	156	Compound Not Detected.					
83	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
84	1,2,3-Trichloropropane	110	Compound Not Detected.					
81	n-Propylbenzene	120	Compound Not Detected.					
82	2-Chlorotoluene	126	Compound Not Detected.					
86	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
85	4-Chlorotoluene	126	Compound Not Detected.					
87	tert-Butylbenzene	119	Compound Not Detected.					
88	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
89	sec-Butylbenzene	105	Compound Not Detected.					
91	1,3-Dichlorobenzene	146	Compound Not Detected.					
90	4-Isopropyltoluene	119	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.					
M 29	1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 75	Xylenes (total)	106	Compound Not Detected.					

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J180000 149
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 10/11/00
Work Order: DNAX51AC Date Extracted:10/18/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0292149

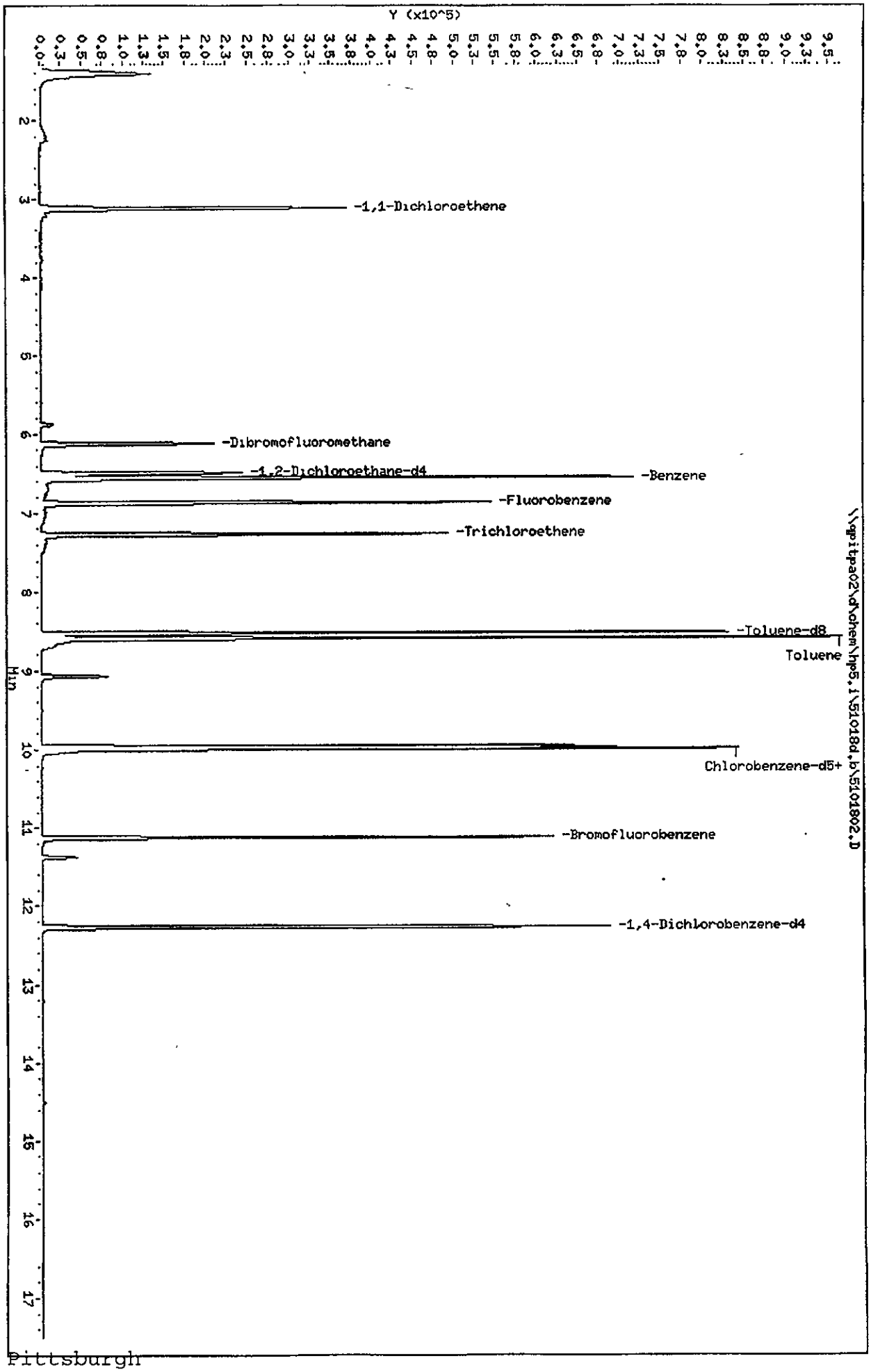
Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	57.6	
108-90-7	Chlorobenzene	55.6	
75-35-4	1,1-Dichloroethene	69.6	
108-88-3	Toluene	56.3	
79-01-6	Trichloroethene	55.7	

FORM I

Data File: \\qpitpa02\dchem\hp5.i\51018d.b\5101802.D
Date : 18-OCT-2000 10:13
Client ID:
Sample Info: blank ms 5.0g/5ml
Purge Volume: 5.0
Column phase: DB 624

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



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\51018d.b\5101802.D
Lab Smp Id:
Inj Date : 18-OCT-2000 10:13 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : blank ms 5.0g/5ml
Misc Info : ,51018d.b,8260bsoil.m,3-fulllist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\51018d.b\8260bsoil.m
Meth Date : 18-Oct-2000 09:20 gordonk Quant Type: ISTD
Cal Date : 08-SEP-2000 09:10 Cal File: 2A50908.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-fulllist.sub
Target Version: 4.04
Processing Host: PITPC076

KLG 01/18/00

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Amount

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 46 Fluorobenzene	96	6.876	6.863	(1 000)	482552	250.000	
* 69 Chlorobenzene-d5	119	9.960	9.959	(1 000)	117951	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.272	12.271	(1.000)	182156	250.000	
$ 39 Dibromofluoromethane	113	6.127	6.118	(0 891)	134293	248.322	49.66
$ 43 1,2-Dichloroethane-d4	65	6.492	6 477	(0 944)	169211	258.401	51.68
$ 59 Toluene-d8	98	8.530	8.521	(0 856)	556772	241.670	48.33
$ 80 Bromofluorobenzene	95	11.122	11 137	(1.117)	198833	234.040	46.81
7 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					
11 Acrolein	56	Compound Not Detected					
12 1,1-Dichloroethene	96	3.116	3 046	(0 453)	178037	347.848	69.57
13 Acetone	43	Compound Not Detected.					
14 Iodomethane	142	Compound Not Detected					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
15	Carbon Disulfide	76	Compound Not Detected.					
16	3-Chloro-1-propene	76	Compound Not Detected.					
17	Acetonitrile	40	Compound Not Detected.					
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.					
101	Acrylonitrile	53	Compound Not Detected.					
24	1,1-Dichloroethane	63	Compound Not Detected.					
26	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
27	2,2-Dichloropropane	77	Compound Not Detected.					
28	cis-1,2-dichloroethene	96	Compound Not Detected.					
31	2-Butanone	43	Compound Not Detected.					
30	Bromochloromethane	128	Compound Not Detected.					
32	Vinyl Acetate	43	Compound Not Detected.					
34	Propionitrile	54	Compound Not Detected.					
36	Methacrylonitrile	41	Compound Not Detected.					
37	Chloroform	83	Compound Not Detected.					
38	1,1,1-Trichloroethane	97	Compound Not Detected.					
41	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,1-Dichloropropene	75	Compound Not Detected.					
42	Benzene	78	6.553	6.531	(0.953)	662863	287 782	57 56
44	Isobutanol	41	Compound Not Detected.					
45	1,2-Dichloroethane	62	Compound Not Detected.					
47	Trichloroethene	130	7 271	7.255	(1.058)	166354	278 699	55.74
49	1,2-Dichloropropane	63	Compound Not Detected.					
50	Dibromomethane	93	Compound Not Detected.					
51	Methyl methacrylate	41	Compound Not Detected.					
52	1,4-Dioxane	88	Compound Not Detected.					
53	Bromodichloromethane	83	Compound Not Detected.					
56	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
57	cis-1,3-Dichloropropene	75	Compound Not Detected.					
58	4-Methyl-2-Pentanone	43	Compound Not Detected.					
60	Toluene	91	8 591	8 588	(0.863)	688975	281.484	56.30
61	trans-1,3-Dichloropropene	75	Compound Not Detected.					
62	Ethyl methacrylate	69	Compound Not Detected.					
64	1,1,2-Trichloroethane	97	Compound Not Detected.					
65	Tetrachloroethene	164	Compound Not Detected.					
67	Dibromochloromethane	129	Compound Not Detected.					
63	1,3-Dichloropropane	76	Compound Not Detected.					
66	2-Hexanone	43	Compound Not Detected.					
68	1,2-Dibromoethane	107	Compound Not Detected.					
70	Chlorobenzene	112	9.990	9 987	(1.003)	434839	277.982	55.60
72	Ethylbenzene	106	Compound Not Detected.					
71	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
73	m + p-Xylene	106	Compound Not Detected.					
74	Xylene-o	106	Compound Not Detected					
76	Styrene	104	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
77	Bromoform	173	Compound Not Detected.					
78	Isopropylbenzene	105	Compound Not Detected.					
79	Bromobenzene	156	Compound Not Detected					
83	1,1,2,2-Tetrachloroethane	83	Compound Not Detected					
84	1,2,3-Trichloropropane	110	Compound Not Detected					
81	n-Propylbenzene	120	Compound Not Detected.					
82	2-Chlorotoluene	126	Compound Not Detected.					
86	1,3,5-Trimethylbenzene	105	Compound Not Detected					
85	4-Chlorotoluene	126	Compound Not Detected.					
87	tert-Butylbenzene	119	Compound Not Detected.					
88	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
89	sec-Butylbenzene	105	Compound Not Detected.					
91	1,3-Dichlorobenzene	146	Compound Not Detected.					
90	4-Isopropyltoluene	119	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.					
M 29	1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 75	Xylenes (total)	106	Compound Not Detected.					

673 1222

GC/MS VOLATILE
MISCELLANEOUS

673 1223

STL Pittsburgh
Method SW-5035 Volatiles
Low Level Soil Extraction Log

Analyst: KSO Date: 10/24/00

NaHSO4 Lot#: 594 3621

The final volume of all extracts is (5) or 25 mLs of water (circle one)
All weights are expressed in gms.

Vial ID	Vial/Meoh Wt.	Vial/Meoh /Soil Wt.	Soil Wt.	Sample ID	Prep Time
101406				VBLK	1130
101407				LCS	
101408	30.98	33.94	2.96	DF/S1/0287/TOTAL/001	
101409	31.10	36.89	5.79	~~VBLK~~ ↓ KG/24	
101410				~~LCS~~ VBLK	
101411				LCS	
101412	30.15	35.56	5.41	P-30 25'-30	
101413	30.24	35.61	5.37	↓	

H2O
H2O

KLG 10/27/00

KLG 10/27/00

G. IS Volatile Run Log

Method: 8260B Inst. ID HP5

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

1224

Analyst KLG & PDJ Reviewed by: _____ Date: _____

Std: 192-189-5 BFB Std: 192-189-1 Unt Std: 192-189-2 Surr Std: 192-187 4 MS Std: 192-188-10 MTBE KS2

Std: 192-186 6 Ketones Std: 192-190 3 VOA Std: _____ Std: _____ Std: _____

673

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
9/8/00	1 BFB50908	BFB	50ng			0600
	2 1A50908	VSTD5 Bonus	5ml			
	3 1B50908	VSTD20 Bonus	5ml			
	4. 1C50908	VSTD50 Bonus	5ml			
	5 1D50908	VSTD100 Bonus	5ml			
	6. 1E50908	VSTD200 Bonus	5ml			
	7. 2A50908	VSTD5 Bonus	5ml			
	8. 2B50908	VSTD20 Bonus	5ml			
	9. 3B50908	VSTD20 Bonus	5ml			
	10. 4B50908	VSTD20 Bonus	5ml			
	11 2D50908	VSTD100 Bonus	5ml			
	12.					
	13.					
	14.					
	15.					
	16					
	17					
	18					
	19					
	20					
	21					
	22					

1091
STL Pittsburgh

GCMS Volatile Run Log

Method: 8260B Inst. ID HP5

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

Analyst KLG & PJV Reviewed by: _____ Date: _____

Std: 192.192.2BFB Std: 192-190.8Ext Std: 192.190.9SWM Std: 192.191.7MS Std: 192.191.3VOA

Std: 192.188.10MTBE/CS2 Std: _____ Std: _____ Std: _____ Std: _____

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
10/10/00	1. BFS1010	BFB	50ng			0556
	2. CFS1010	BFB	50ng			0826
10/13/00	3. ICS1010	VStd50 Bonus	5ml			
	4. 2CS1010	VStd50	5ml			
	5 1AS1010	VStd5	5ml			
	6 1BS1010	VStd20	5ml			
	7. 1DS1010	VStd100	5ml			
	8. 1ES1010	VStd200	5ml			
	9. 2AS1010	VST05	5ml			K:55
	10.					
	11.					
	12.					
	13.					
	14.					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22.					

10/10/00

673 1225

1092

STL Pittsburgh

GC/MS Volatile Run Log

Method: 8260B Inst. ID HP5

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

Analyst KLG Reviewed by: _____ Date: _____

Std: 192-192-2BFB Std: A2-192-1VOA Std: 192-190-8VA Std: A2-190-9SWR Std: 192-191-7MS

Std: _____ Std: _____ Std: _____ Std: _____ Std: _____

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
10/18/00	1. ~~BF51018~~	BFB	50ng			0804
	2. CCS1018	VSTD50	5ml			
	3. ~~SB51018~~	VBLK	5.0g/5ml			
	4. 5101801	COJ110265-001	5.0g/5ml			
	5. 5101802	Blank MS	5.0g/5ml			
	6. 5101803	COJ110265-001MS	5.0g/5ml			
	7. 5101804	COJ110265-001MSD	5.0g/5ml			
	8. 5101805	COJ130334-001	5.0g/5ml			
	9. 5101806	COJ140161-001	2.96g/5ml			
	10. 5101807	COJ160196-001	6.58g/5ml			
	11.					
	12.					
	13.					
	14.					
	15.					
	16					
	17					
	18					
	19					
	20					
	21					
	22.					

673 1226

673 1227

PSR024 10/16/00 4:29:04 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: GORDONK

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

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5E	DM650-1-AC	___ ___ ___	273541	399411	A-4D-QK	C0J140161	001	✓	SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
CLP1	Kathy Gordon	10/18/00 1000
Kathy Gordon	LMJ01	10/18/00 1200

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

673 1228

GC/MS SEMIVOLATILE DATA

673 1229

GC/MS SEMIVOLATILE
QC SUMMARY

SW846 8270C SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC RE-1	36	46	36 *	67	20	64	01
02	DF/S1/0287/TOTAL/001	45	58	51	62	24	37	00
03	METHOD BLK. DM8PG1AA	54	62	59	61	34	66	00
04	LCS DM8PG1AC	65	71	66	68	38	74	00
05	LAB MS/MSD D	46	54	47	57	29	70	00
06	LAB MS/MSD S	46	56	47	61	29	70	00

SURROGATES		QC LIMITS
SRG01	= Phenol-d5	(25-115)
SRG02	= 2-Fluorobiphenyl	(43-110)
SRG03	= Nitrobenzene-d5	(42-110)
SRG04	= Terphenyl-d14	(37-137)
SRG05	= 2-Fluorophenol	(11-116)
SRG06	= 2,4,6-Tribromophenol	(35-116)

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

FORM II

JW846 8270C CHECK SAMPLE RECOVERY

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

Lab Code: QESPIT SDG No:

Lot #: C0J160000 WO #: DM8PG1AC
BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1550	62	35- 110	
2-Chlorophenol	2500	1750	70	43- 110	
1,4-Dichlorobenzene	1670	1110	66	38- 100	
N-Nitrosodi-n-propylamine	1670	1080	65	38- 110	
1,2,4-Trichlorobenzene	1670	1150	69	45- 110	
4-Chloro-3-methylphenol	2500	1880	75	43- 110	
Acenaphthene	1670	1160	69	44- 108	
4-Nitrophenol	2500	1900	76	22- 128	
2,4-Dinitrotoluene	1670	1120	67	48- 111	
Pentachlorophenol	2500	1780	71	10- 123	
Pyrene	1670	1300	78	42- 122	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J050202 WO #: DLKRG11A
BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	5740	ND	2410	41	10- 148	
2-Chlorophenol	5740	ND	2590	45	17- 116	
1,4-Dichlorobenzene	3830	ND	1670	44	18- 110	
N-Nitrosodi-n-propylamine	3830	ND	1980	52	12- 128	
1,2,4-Trichlorobenzene	3830	ND	1800	47	16- 121	
4-Chloro-3-methylphenol	5740	ND	3550	62	17- 128	
Acenaphthene	3830	140	2250	55	13- 133	
4-Nitrophenol	5740	ND	4000	70	10- 148	
2,4-Dinitrotoluene	3830	ND	2380	62	10- 171	
Pentachlorophenol	5740	ND	3470	60	10- 144	
Pyrene	3830	960	3790	74	10- 218	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

673 1233

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0J050202 WO #: DLKRG11C
BATCH: 0290602

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	5740	2460	42	1.7	50	10- 148	
2-Chlorophenol	5740	2620	46	1.0	54	17- 116	
1,4-Dichlorobenzene	3830	1660	43	0.42	59	18- 110	
N-Nitrosodi-n-propylamine	3830	1990	52	0.18	50	12- 128	
1,2,4-Trichlorobenzene	3830	1790	47	0.69	54	16- 121	
4-Chloro-3-methylphenol	5740	3590	62	1.0	55	17- 128	
Acenaphthene	3830	2260	56	0.33	44	13- 133	
4-Nitrophenol	5740	4140	72	3.4	64	10- 148	
2,4-Dinitrotoluene	3830	2440	64	2.7	45	10- 171	
Pentachlorophenol	5740	3540	62	2.1	87	10- 144	
Pyrene	3830	3560	68	6.2	66	10- 218	

NOTES(S):

Results and reporting limits have been adjusted for dry weight

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:

673 1234

BLANK WORKORDER NO.

DM8PG1AA

SW846 8270C METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D1018012.

Lot Number: C0J140161

Date Analyzed: 10/18/00

Time Analyzed: 18:51

Matrix: SOLID

Date Extracted:10/16/00

GC Column: HP5MS ID: .25

Extraction Method: 3550B

Instrument ID: 721

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	DLKRG11A S	D1018016.	10/18/00	20:47
02	LAB MS/MSD	DLKRG11C D	D1018017.	10/18/00	21:16
03	INTRA-LAB QC	DLKRG203	D1018015.	10/18/00	20:18
04	DF/S1/0287/TOTAL/001	DM6501AD	D1018014.	10/18/00	19:49
05	CHECK SAMPLE	DM8PG1AC C	D1018013.	10/18/00	19:20
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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25					
26					
27					
28					
29					
30					

COMMENTS:

673 1235

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID: D1002DF2 DFTPP Injection Date: 10/02/00

Instrument ID: 721 DFTPP Injection Time: 1002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.6
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	5.5
275	10.0 - 30.0% of mass 198	26.4
365	Greater than 1.0% of mass 198	3.65
441	Present, but less than mass 443	13.4
442	Greater than 40.0% of mass 198	84.3
443	17.0 - 23.0% of mass 442	15.5 (18.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD20	D1002CC1	10/02/00	1022
02	SSTD050	SSTD50	D1002CC2	10/02/00	1052
03	SSTD080	SSTD80	D1002CC3	10/02/00	1122
04	SSTD120	SSTD120	D1002CC4	10/02/00	1152
05	SSTD160	SSTD160	D1002CC5	10/02/00	1223
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

673 1236

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID: D1018DFT DFTPP Injection Date: 10/18/00

Instrument ID: 721 DFTPP Injection Time: 1222

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.7
275	10.0 - 30.0% of mass 198	24.5
365	Greater than 1.0% of mass 198	4.14
441	Present, but less than mass 443	7.6
442	Greater than 40.0% of mass 198	83.0
443	17.0 - 23.0% of mass 442	16.6 (20.0)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	D1018CCC	10/18/00	1243
02	INTRA-LAB BL	DM8PG1AA	D1018012	10/18/00	1851
03	LCS	DM8PG1AC	D1018013	10/18/00	1920
04	DF/S1/0287/T	DM6501AD	D1018014	10/18/00	1949
05					
06					
07					
08					
09					
10					
11					
12					
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14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

673 1237

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): D1018CCC Date Analyzed: 10/18/00

Instrument ID: 721 Time Analyzed: 1243

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	169897		4.33		571381		5.49		342965		7.95	
	UPPER LIMIT	339794		4.83		1142762		5.99		685930		8.45	
	LOWER LIMIT	84949		3.83		285691		4.99		171483		7.45	
	CLIENT SAMPLE NO.												
01	INTRA-LAB BL	123515		4.34		528513		5.49		311194		7.95	
02	LCS	122774		4.34		499152		5.49		286788		7.95	
03	DF/S1/0287/T	132576		4.34		536618		5.49		291048		7.95	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

673 1238

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Lab File ID (Standard): D1018CCC Date Analyzed: 10/18/00

Instrument ID: 721 Time Analyzed: 1243

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	607565	10.78	444032	16.60	263319	19.56
	UPPER LIMIT	1215130	11.28	888064	17.10	526638	20.06
	LOWER LIMIT	303783	10.28	222016	16.10	131660	19.06
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	498491	10.77	369760	16.59	212844	19.55
02	LCS	477394	10.78	335043	16.59	207235	19.55
03	DF/S1/0287/T	469823	10.77	313506	16.59	178942	19.55
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

673 1239

GC/MS SEMIVOLATILE
SAMPLE DATA

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID: C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AD Date Extracted: 10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %: 11

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	370	U
208-96-8	Acenaphthylene	370	U
120-12-7	Anthracene	370	U
56-55-3	**Benzo(a)anthracene**	**34**	**J**
50-32-8	**Benzo(a)pyrene**	**34**	**J**
205-99-2	**Benzo(b)fluoranthene**	**52**	**J**
207-08-9	**Benzo(k)fluoranthene**	**29**	**J**
191-24-2	Benzo(ghi)perylene	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
111-44-4	bis(2-Chloroethyl) ether	370	U
117-81-7	bis(2-Ethylhexyl) phthalate	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
85-68-7	Butyl benzyl phthalate	370	U
86-74-8	Carbazole	370	U
106-47-8	4-Chloroaniline	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-58-7	2-Chloronaphthalene	370	U
95-57-8	2-Chlorophenol	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
218-01-9	**Chrysene**	**41**	**J**
53-70-3	Dibenz(a,h)anthracene	370	U
132-64-9	Dibenzofuran	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AD Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
84-74-2	Di-n-butyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
51-28-5	2,4-Dinitrophenol	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
206-44-0	**Fluoranthene**	**49**	J
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U
67-72-1	Hexachloroethane	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
78-59-1	Isophorone	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
621-64-7	N-Nitrosodi-n-propylamine	370	U
86-30-6	N-Nitrosodiphenylamine	370	U

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g
Work Order: DM6501AD
Dilution factor: 1
Moisture %:11

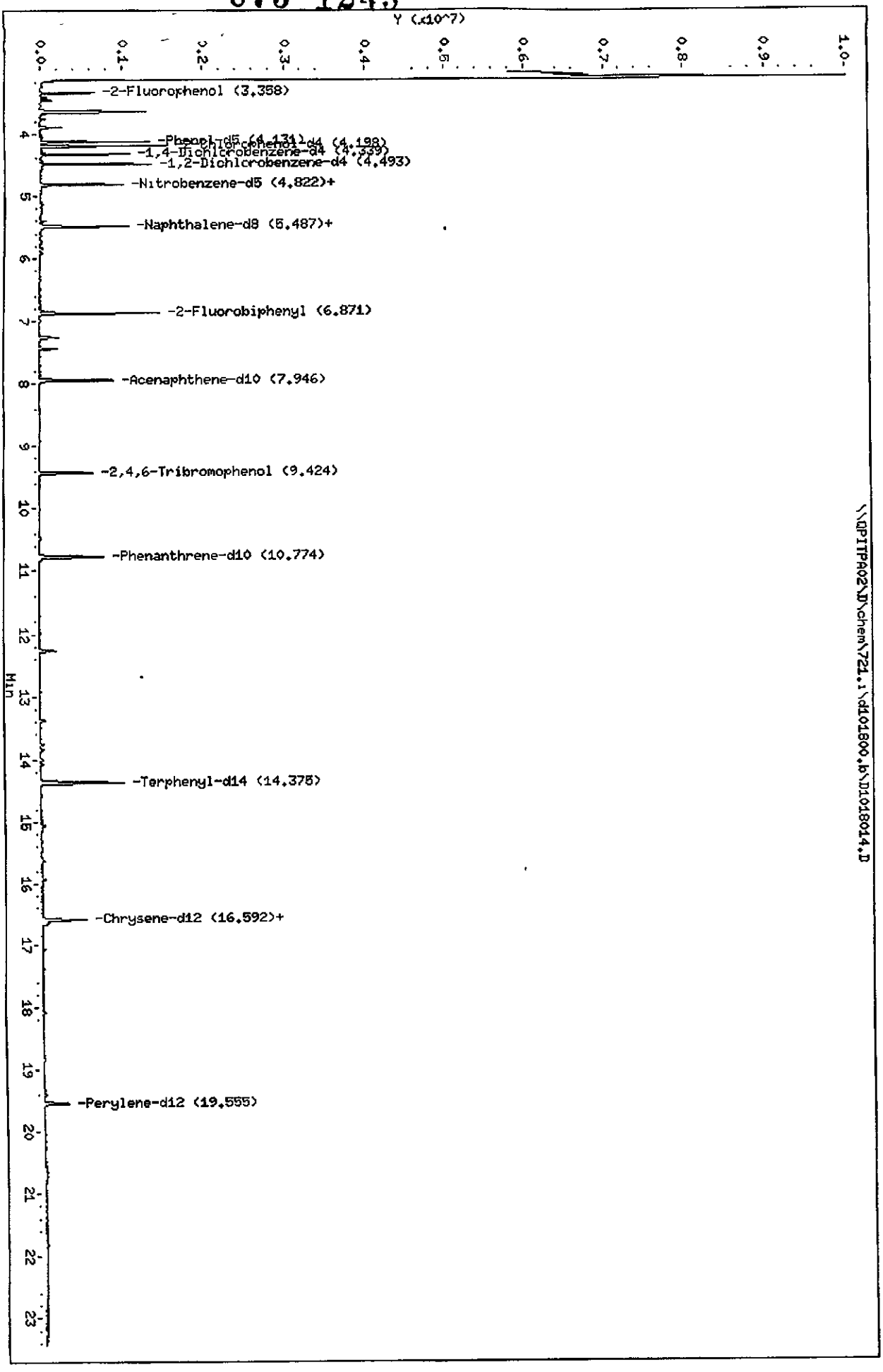
Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290602

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	27	J
108-95-2	Phenol	370	U
129-00-0	Pyrene	56	J
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U

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Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018014.D
Date : 18-OCT-2000 19:49
Client ID: DF/S1/0287/TOTAL/00
Sample Info: c0j140161-001 soil 10/16/00 8270c
Volume Injected (uL): 2.0
Column phase: He5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d101800.b\D1018014.D
Lab Smp Id: DM6501AD Client Smp ID: DF/S1/0287/TOTAL/00
Inj Date : 18-OCT-2000 19:49
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j140161-001 soil 10/16/00 8270c
Misc Info : dm6501ad,d101800.b,8270c.m,pader.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d101800.b\8270c.m
Meth Date : 19-Oct-2000 11:25 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pader.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-19-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
*	1 1,4-Dichlorobenzene-d4	152	4.338	4.332	(1.000)	132576	40.0000	
*	2 Naphthalene-d8	136	5.487	5.487	(1.000)	536618	40.0000	
*	3 Acenaphthene-d10	164	7.946	7.946	(1.000)	291048	40.0000	
*	4 Phenanthrene-d10	188	10.774	10.781	(1.000)	469823	40.0000	
*	5 Chrysene-d12	240	16.592	16.599	(1.000)	313506	40.0000	
*	6 Perylene-d12	264	19.554	19.561	(1.000)	178942	40.0000	
	22 Phenol	94	Compound Not Detected.					
	23 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	24 2-Chlorophenol	128	Compound Not Detected.					
	26 1,3-Dichlorobenzene	146	Compound Not Detected					
	27 1,4-Dichlorobenzene	146	Compound Not Detected					
	28 1,2-Dichlorobenzene	146	Compound Not Detected.					
	30 2-Methylphenol	108	Compound Not Detected.					
	31 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					

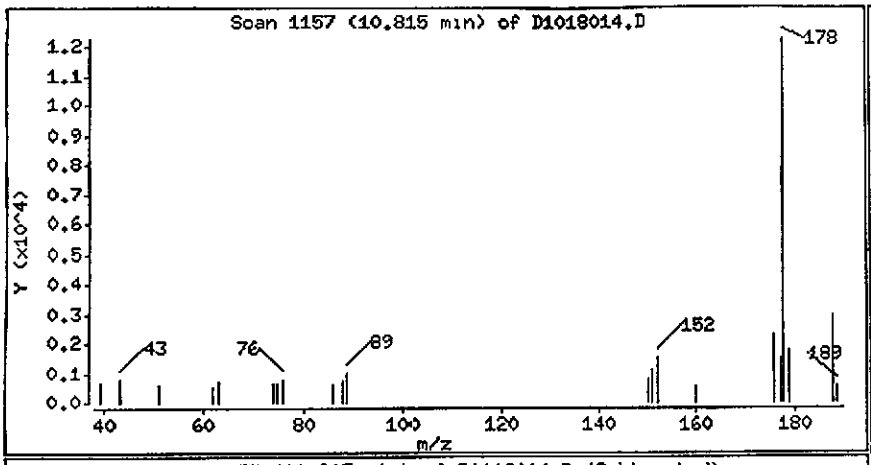
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected					
52	4-Chloroaniline	127	Compound Not Detected					
56	Hexachlorobutadiene	224	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	236	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	283	Compound Not Detected.					
111	Pentachlorophenol	265	Compound Not Detected.					
115	Phenanthrene	178	10.814	10.828	(1.004)	18078	1 42636	23.773(a)
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	13.374	13.394	(1.241)	34464	2.62565	43.761(a)
125	Pyrene	202	13.837	13.858	(0.834)	27661	3.01705	50.284(a)
131	Butylbenzylphthalate	149	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	16.545	16.558	(0.997)	15233	1.84025	30.671(a)

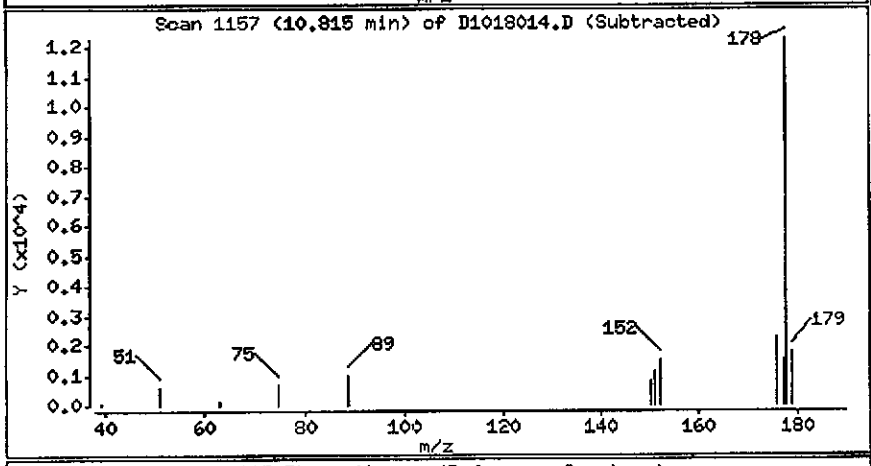
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
137 Chrysene	228	16.632	16.659	(1 002)	16905	2 19797	36.633(a)
139 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected					
140 Di-n-octylphthalate	149	Compound Not Detected.					
141 Benzo(b)fluoranthene	252	18 815	18.842	(0.962)	18157	2.80738	46 790(aH)
142 Benzo(k)fluoranthene	252	18 856	18.896	(0 964)	9263	1.54653	25.775(a)
146 Benzo(a)pyrene	252	19 427	19.447	(0.993)	9683	1.80808	30.135(a)
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	4 822	4 822	(0.879)	289718	51.4165	856.94
$ 155 2-Fluorobiphenyl	172	6 871	6.878	(0.865)	595293	57 9692	966 15
$ 156 Terphenyl-d14	244	14.375	14 368	(0.866)	497783	62.1051	1035 1
$ 157 Phenol-d5	99	4.130	4.110	(0 952)	342481	67 2352	1120.6
$ 158 2-Fluorophenol	112	3.357	3 290	(0.774)	147397	36.1847	603 08
$ 159 2,4,6-Tribromophenol	330	9.430	9.437	(0.875)	125454	55 0812	918 02
$ 186 2-Chlorophenol-d4	132	4.197	4.184	(0.967)	305379	73 2599	1221.0
$ 187 1,2-Dichlorobenzene-d4	152	4.493	4.486	(1.036)	162209	50 6283	843.80

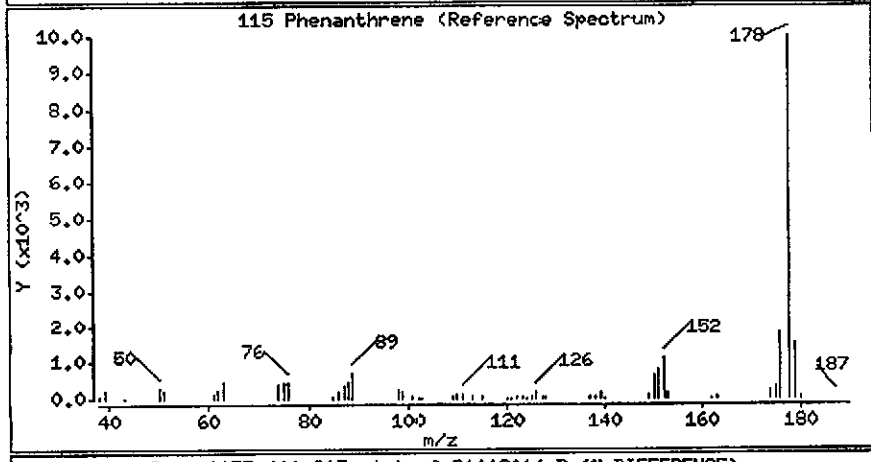
QC Flag Legend

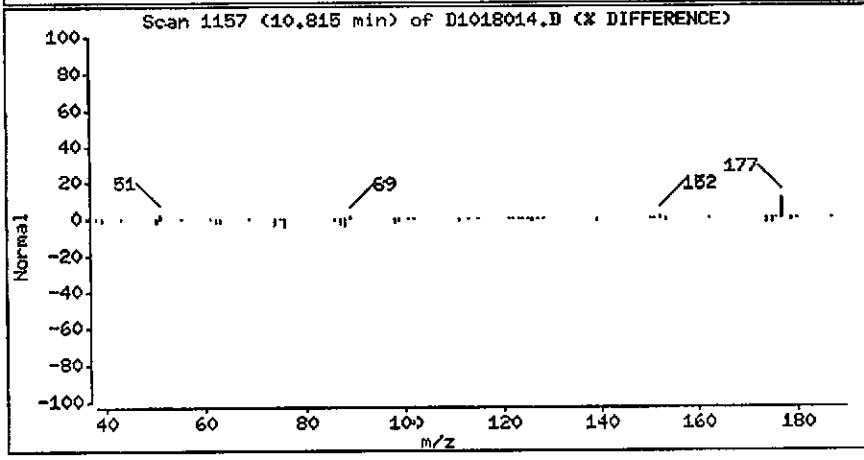
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

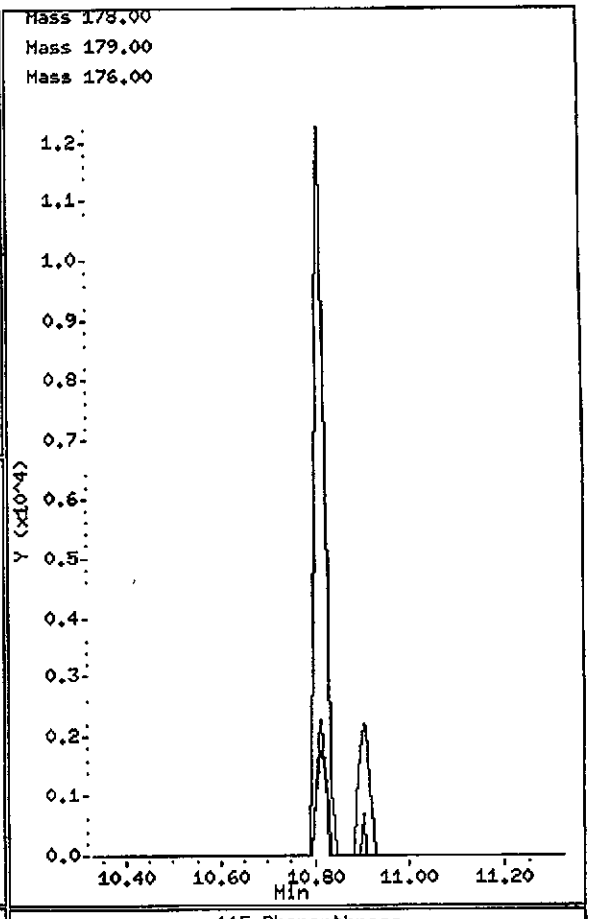
115 Phenanthrene

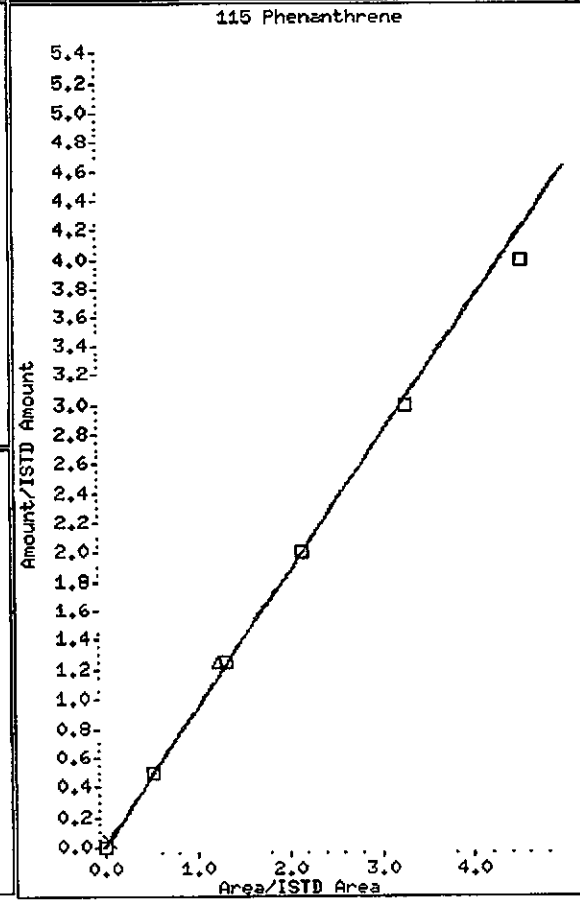






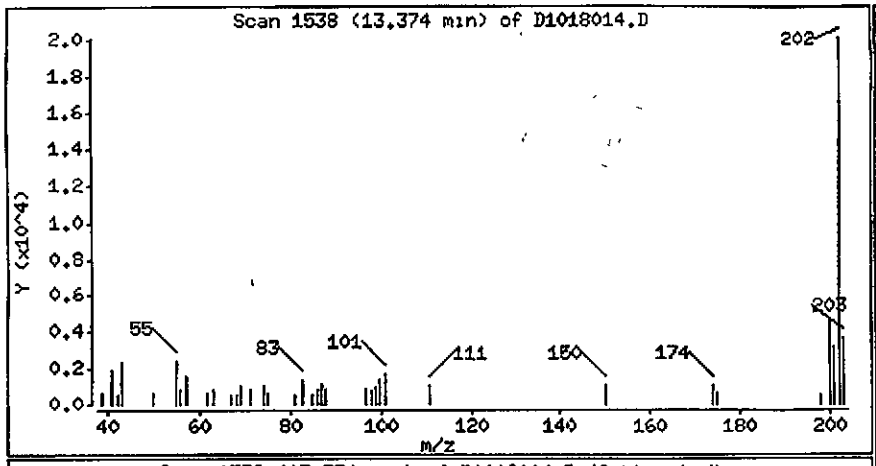


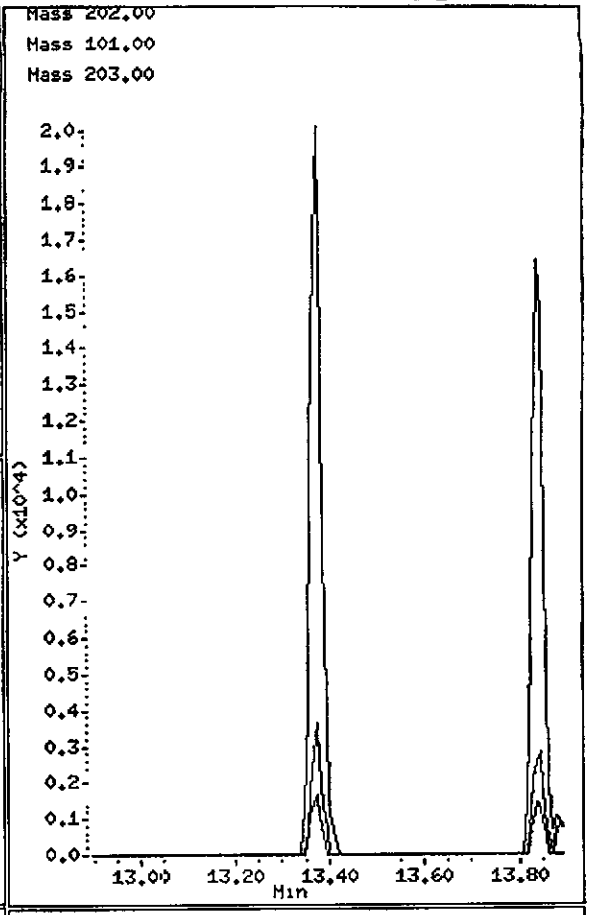


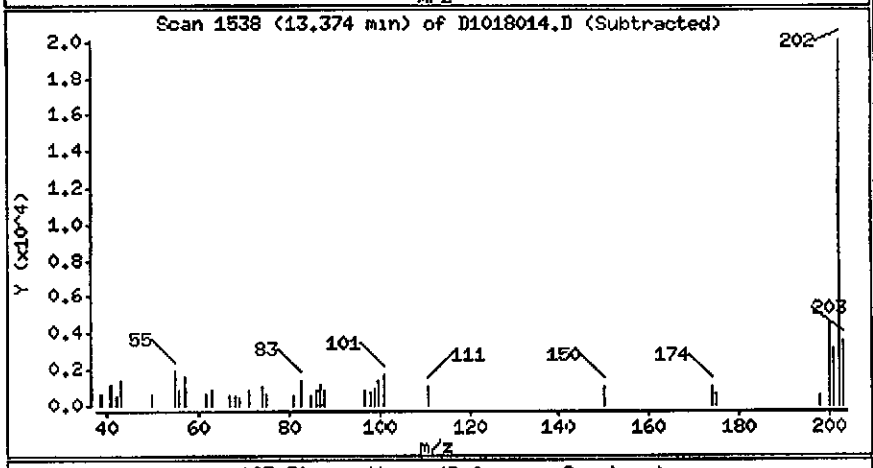


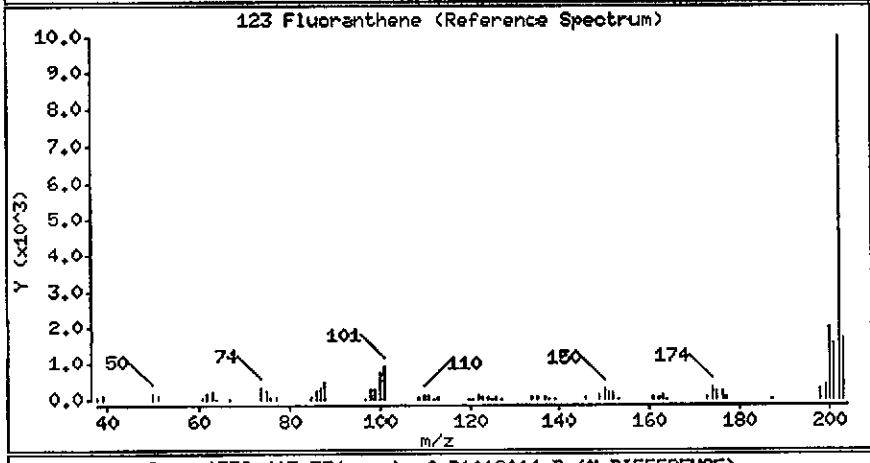
123 Fluoranthene

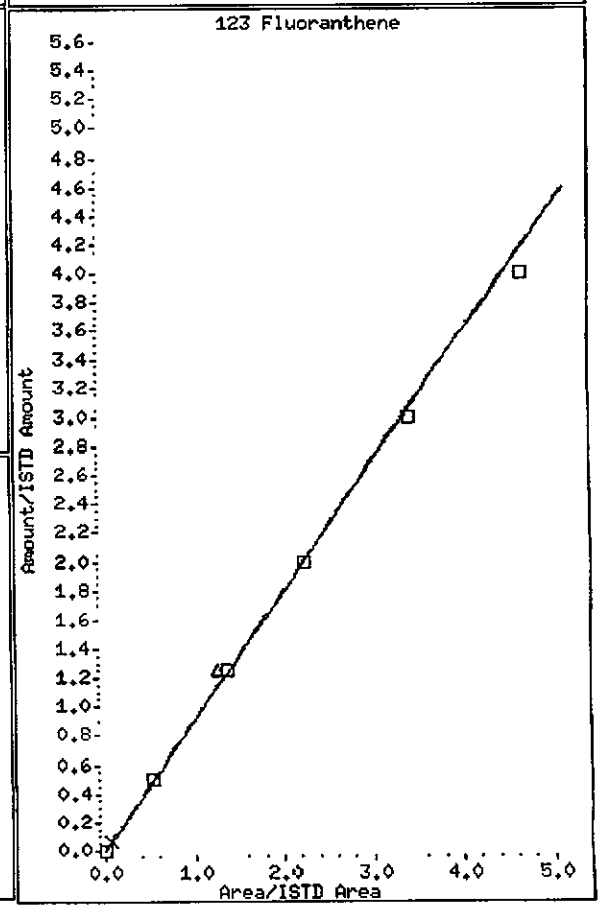
673 1248

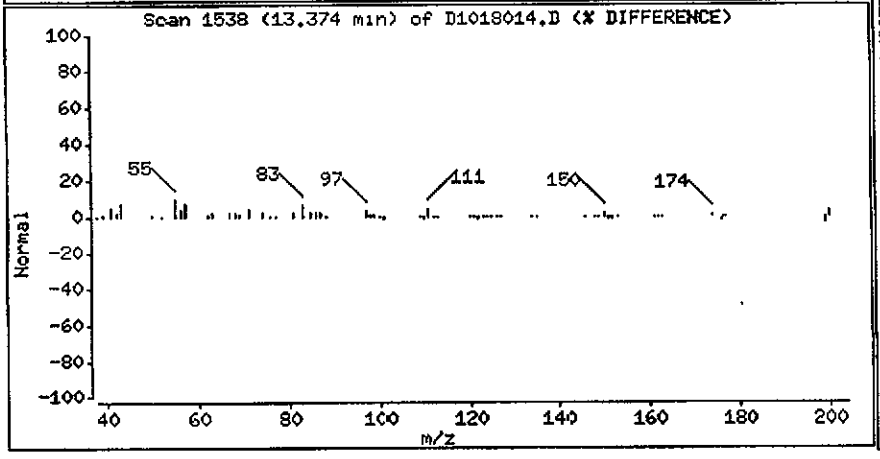




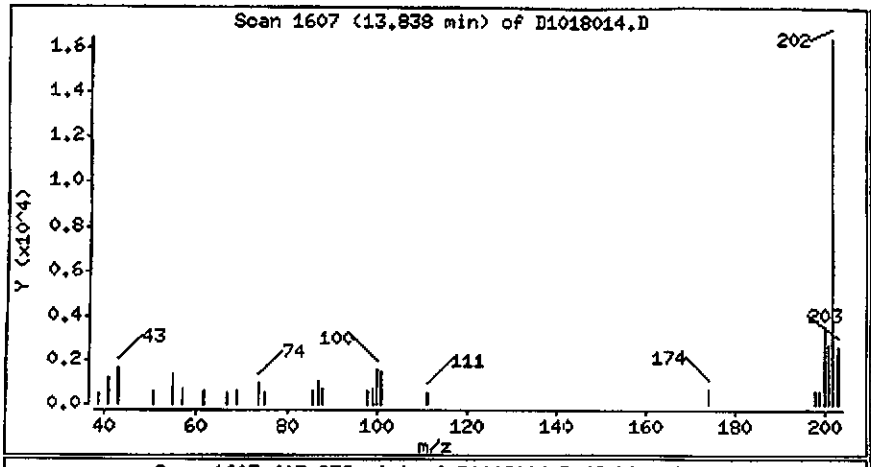


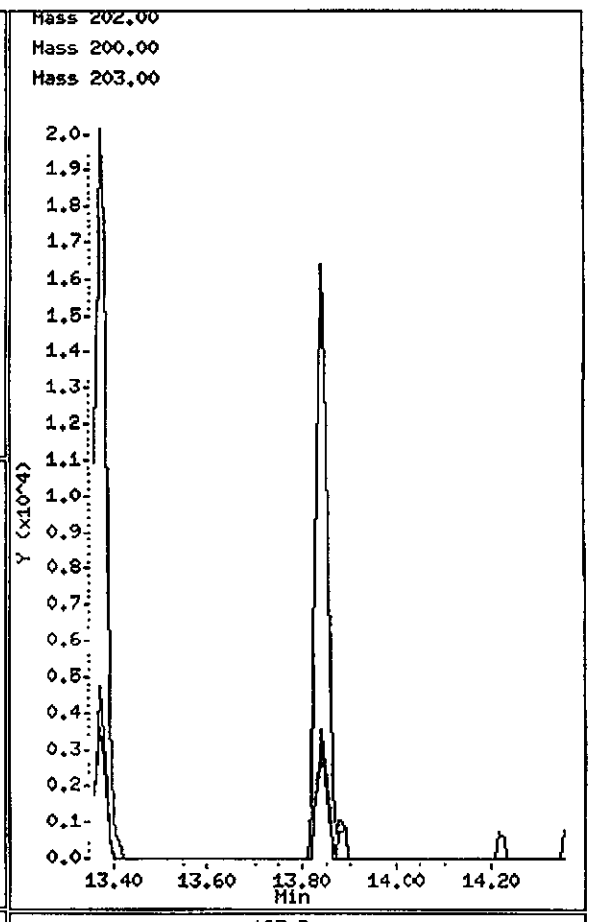


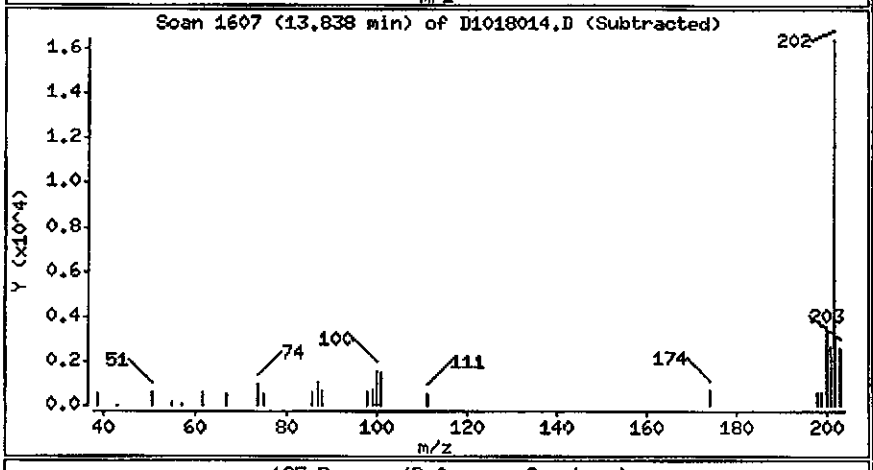


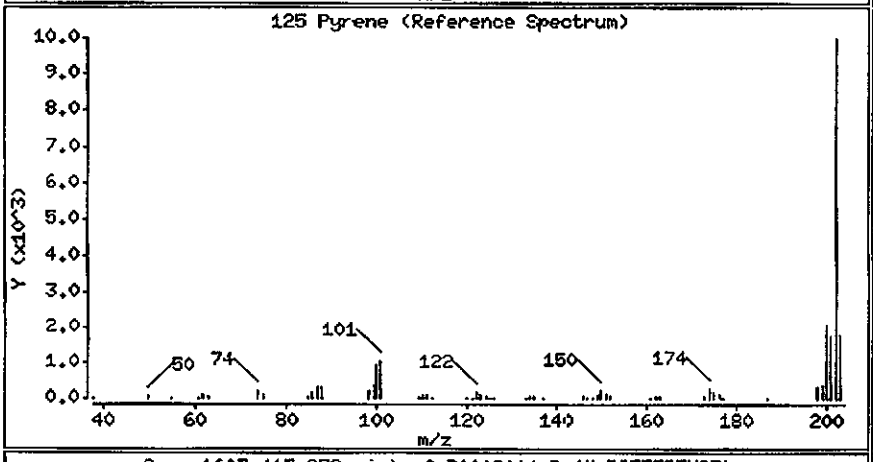


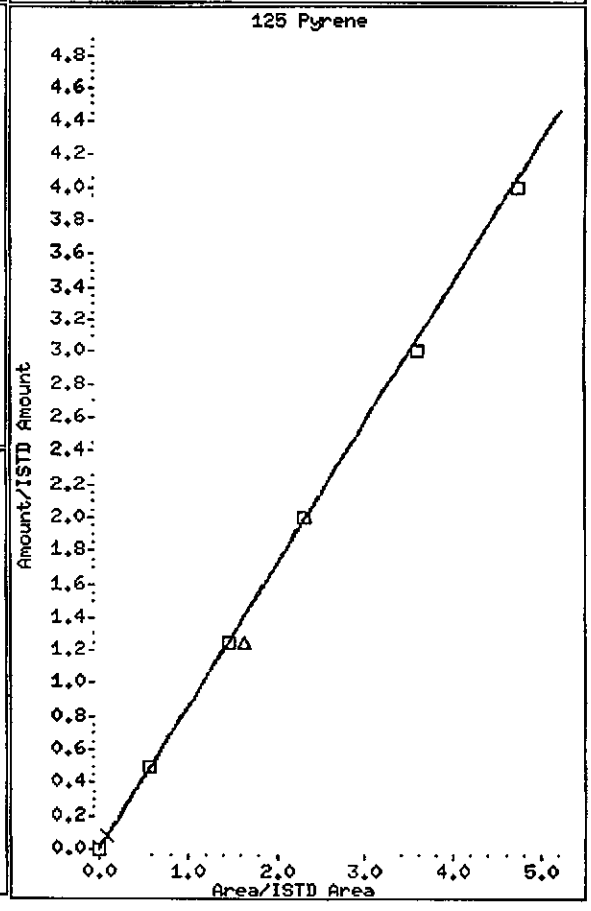
125 Pyrene

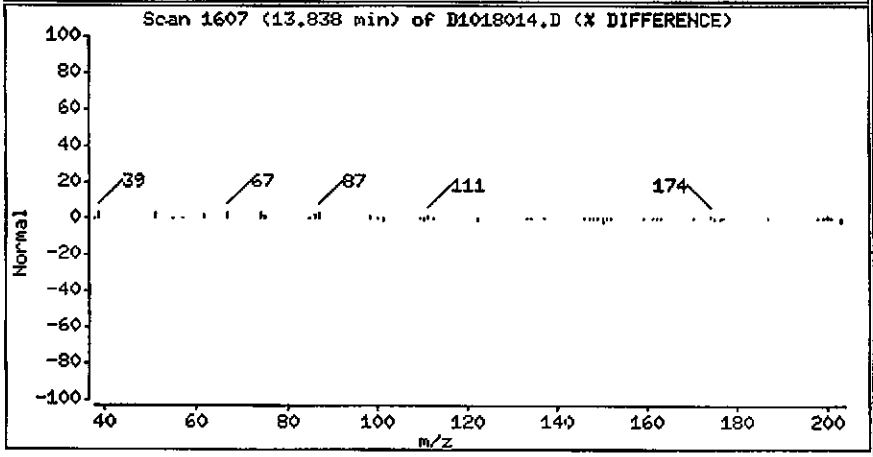

Scan 1607 (13.838 min) of D1018014.D
Y (x10^4)
m/z
202
203
43
74
100
111
174


Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^4)
Min


Scan 1607 (13.838 min) of D1018014.D (Subtracted)
Y (x10^4)
m/z
202
203
51
74
100
111
174

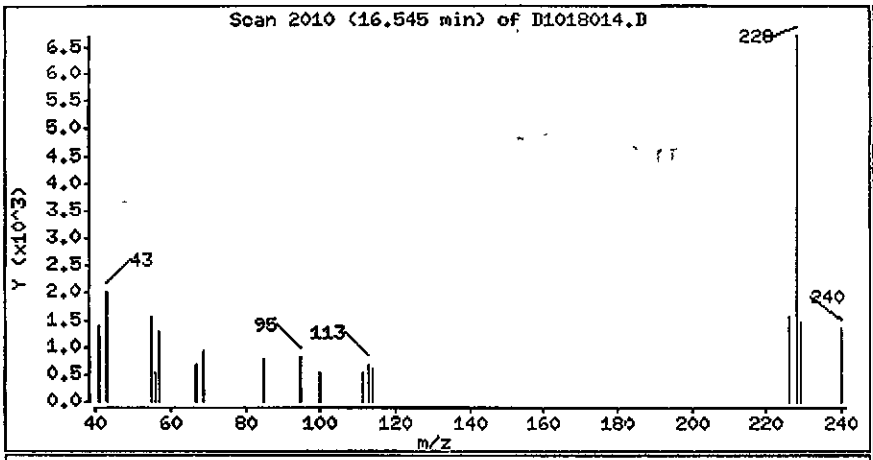

125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
50
74
101
122
150
174

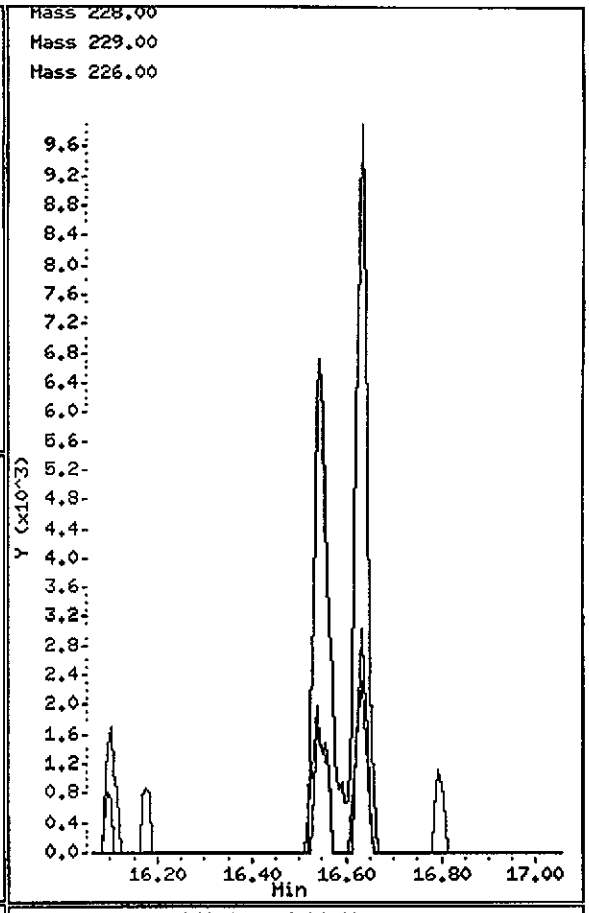

125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

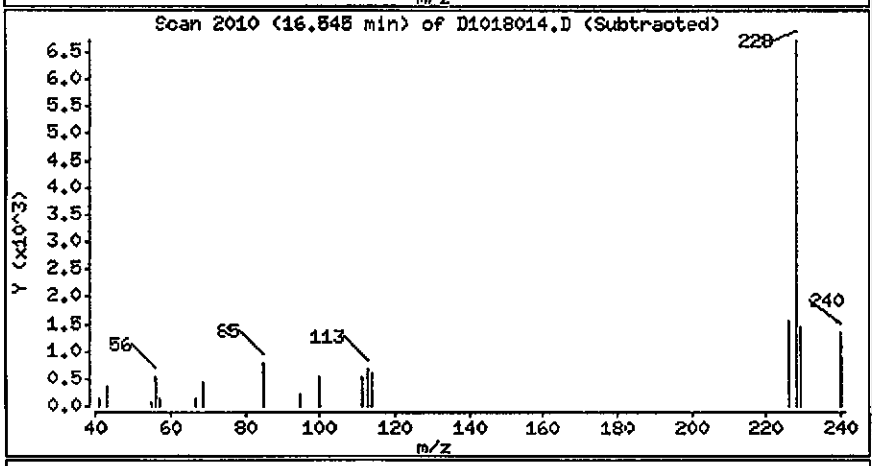

Scan 1607 (13.838 min) of D1018014.D (% DIFFERENCE)
Normal
m/z
39
67
87
111
174

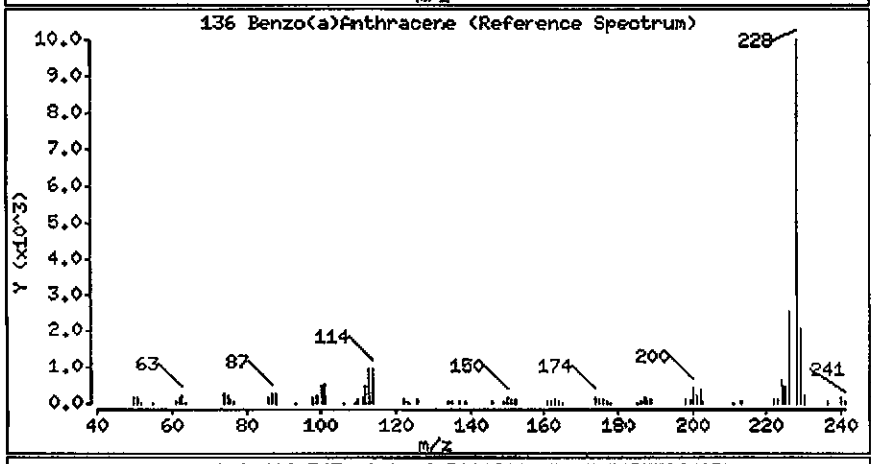
136 Benzo(a)Anthracene

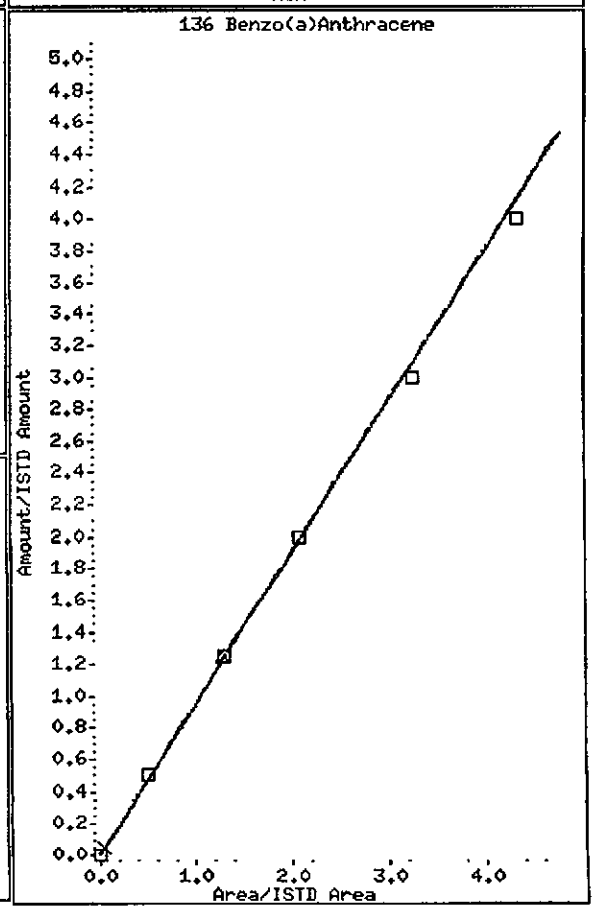
673 1250

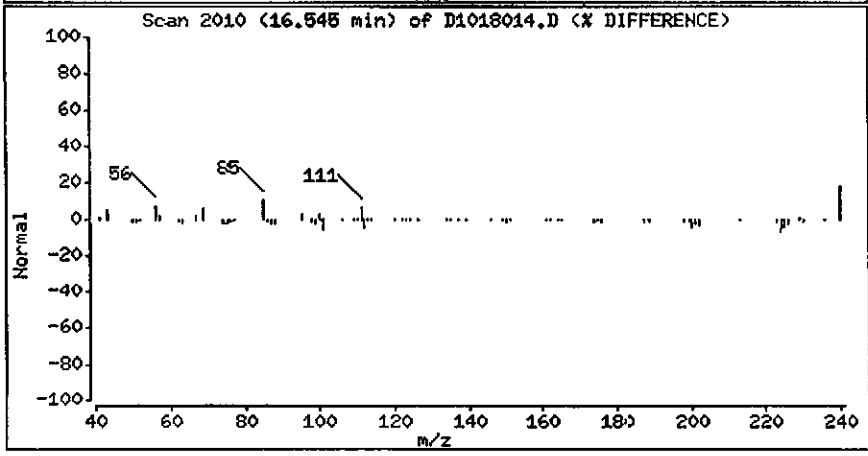






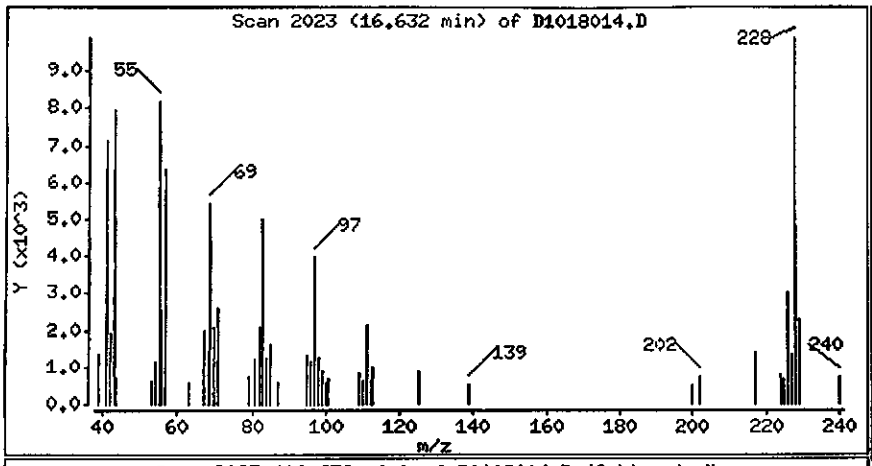


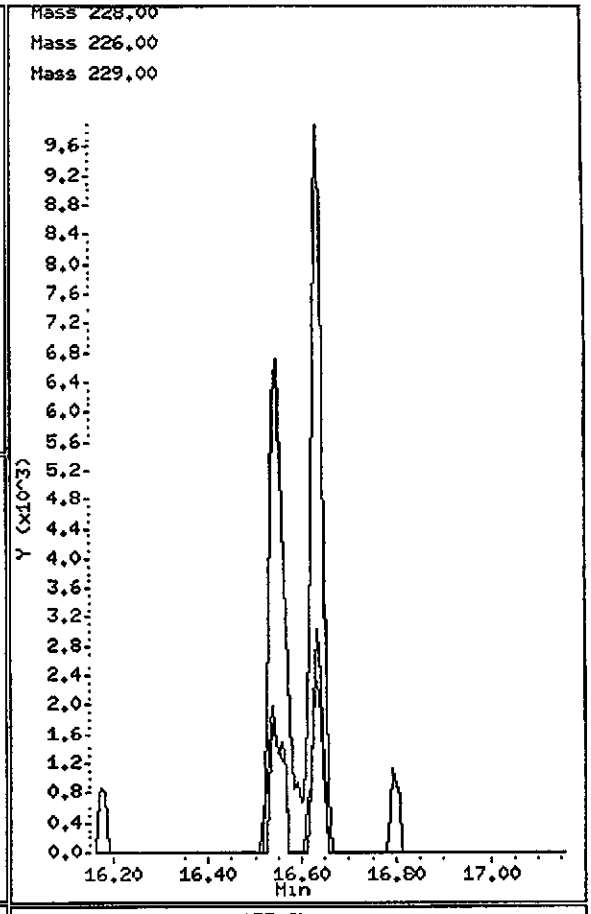


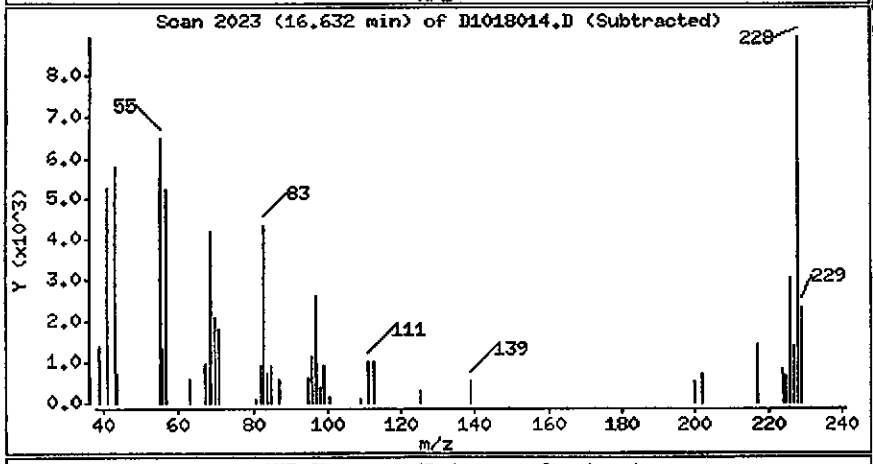


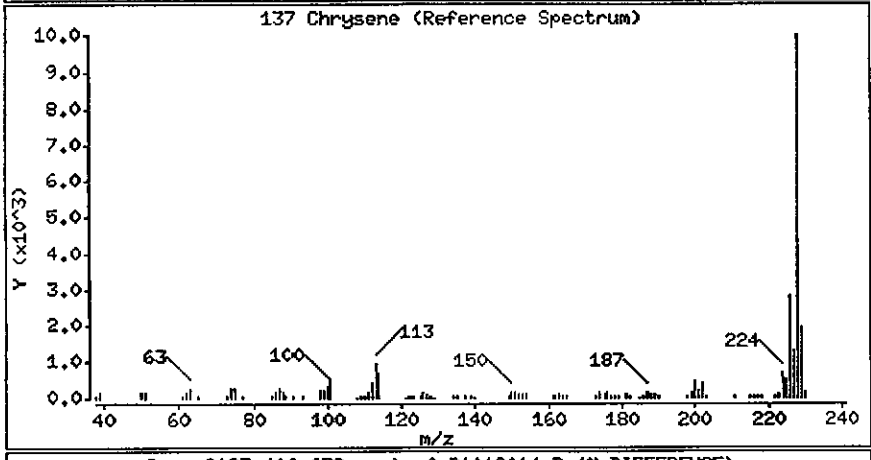
673 1251

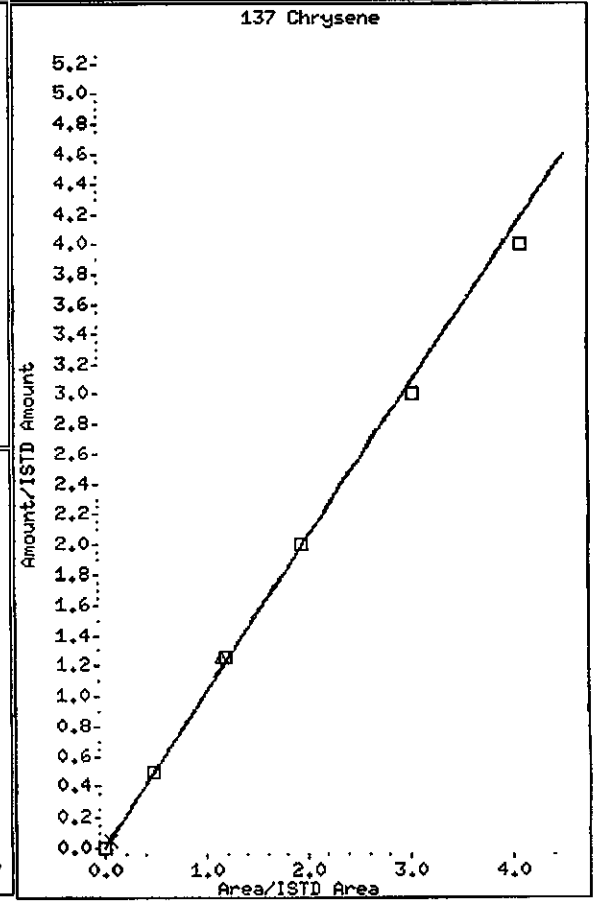
137 Chrysene

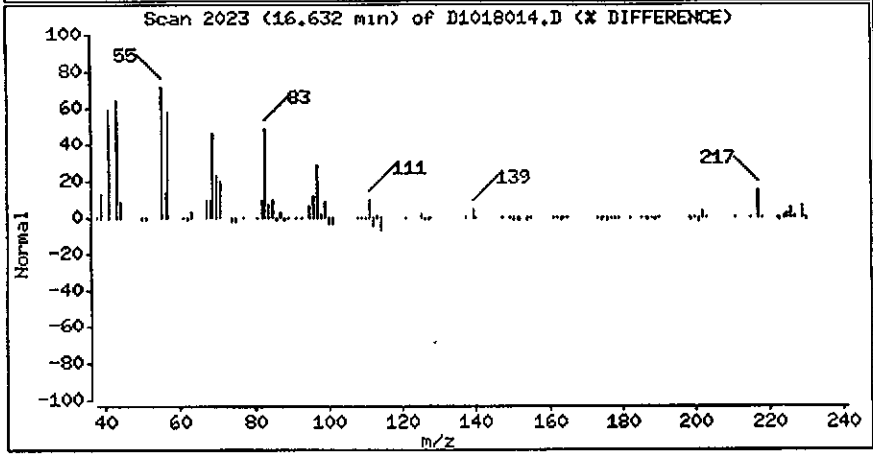






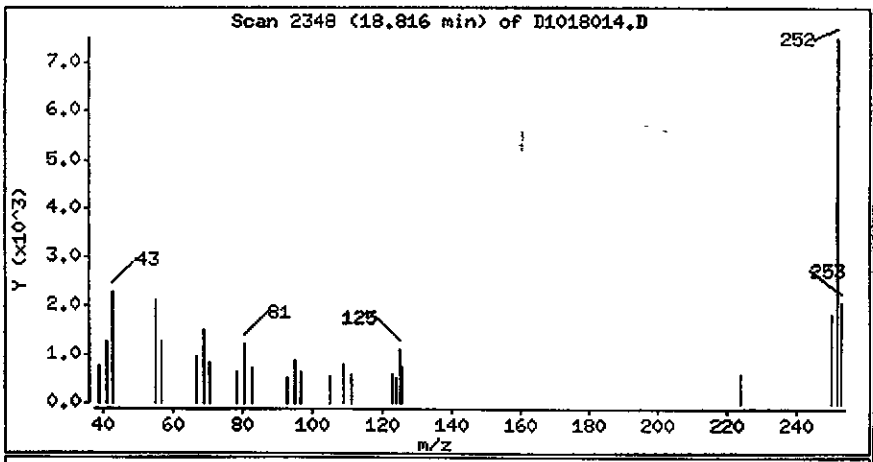


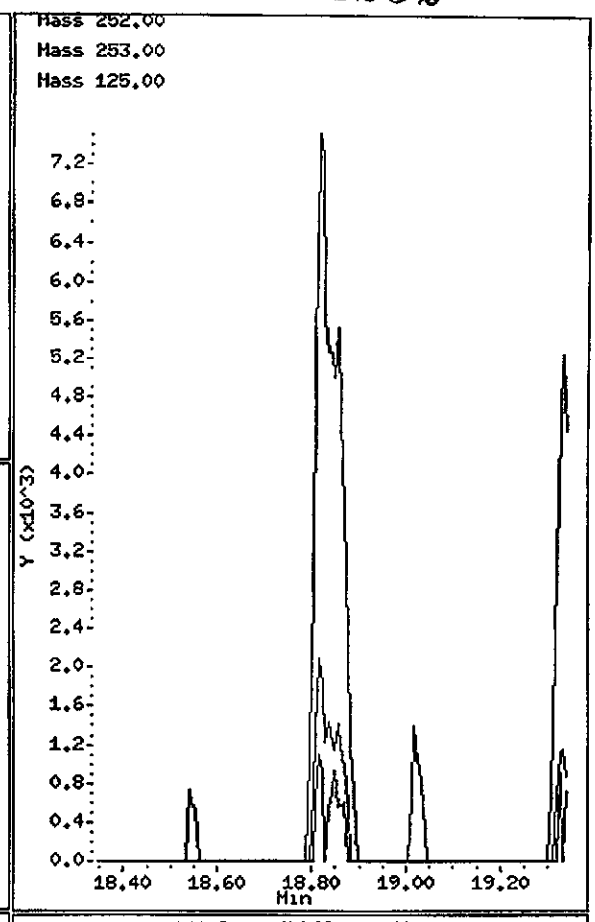


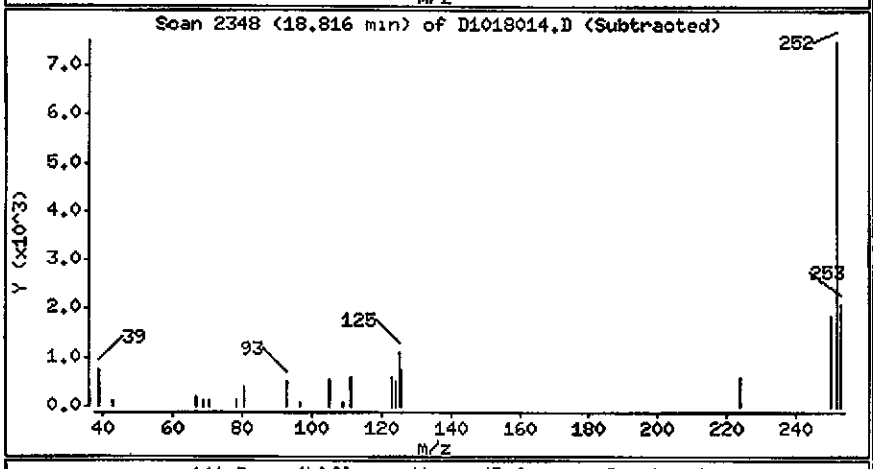


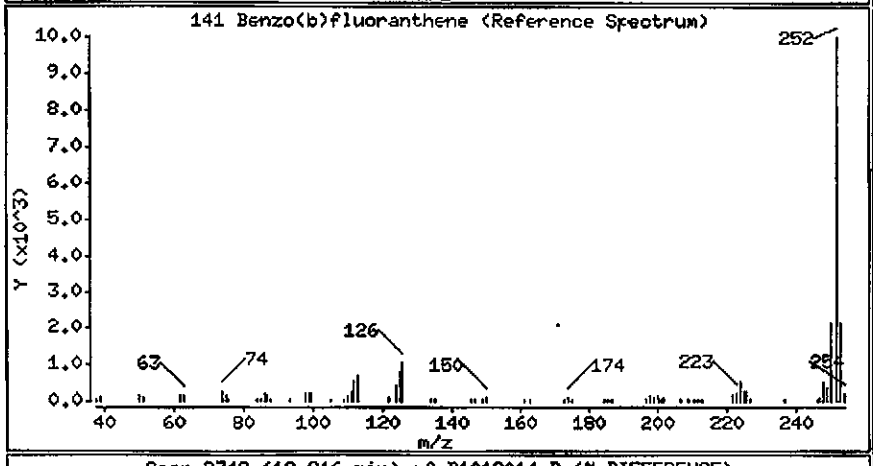
141 Benzo(b)fluoranthene

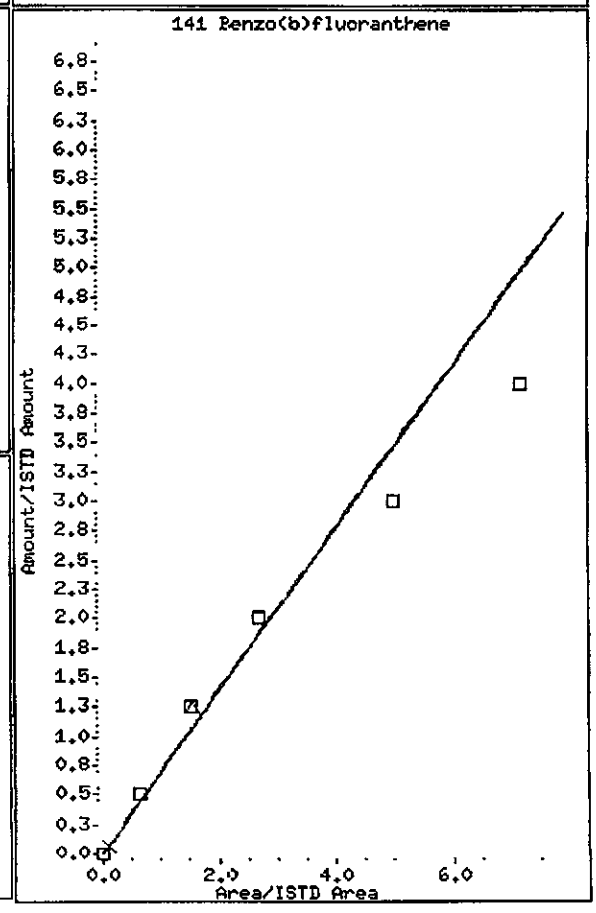
673 1252

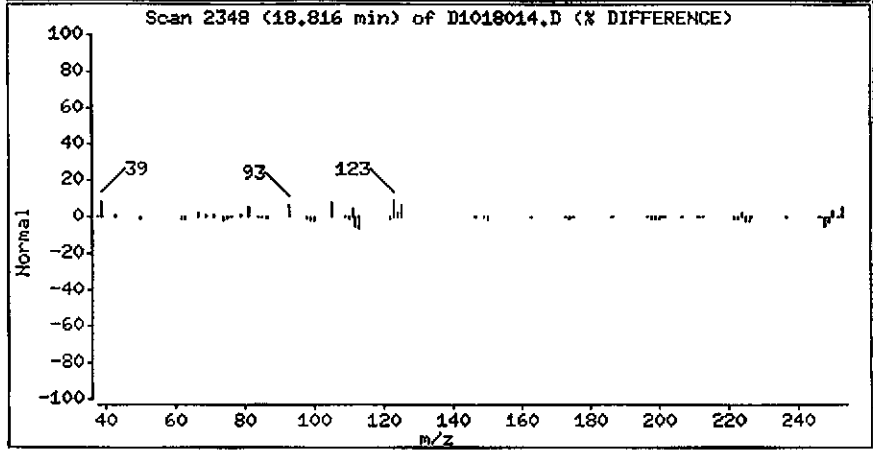






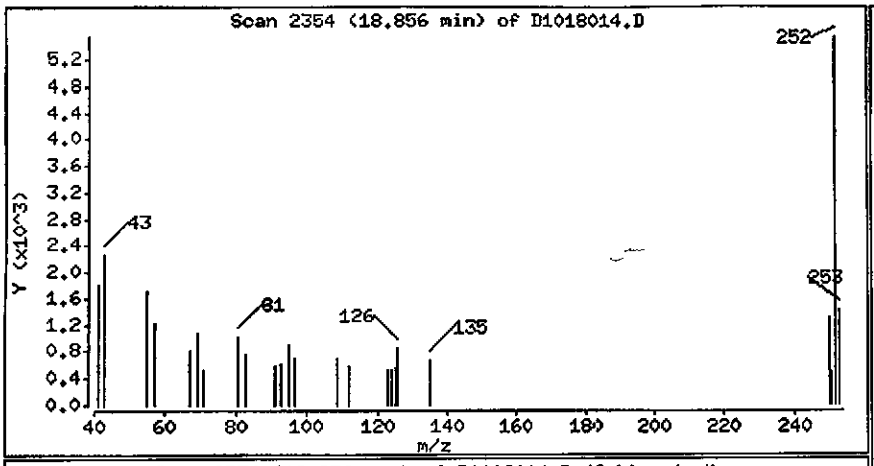


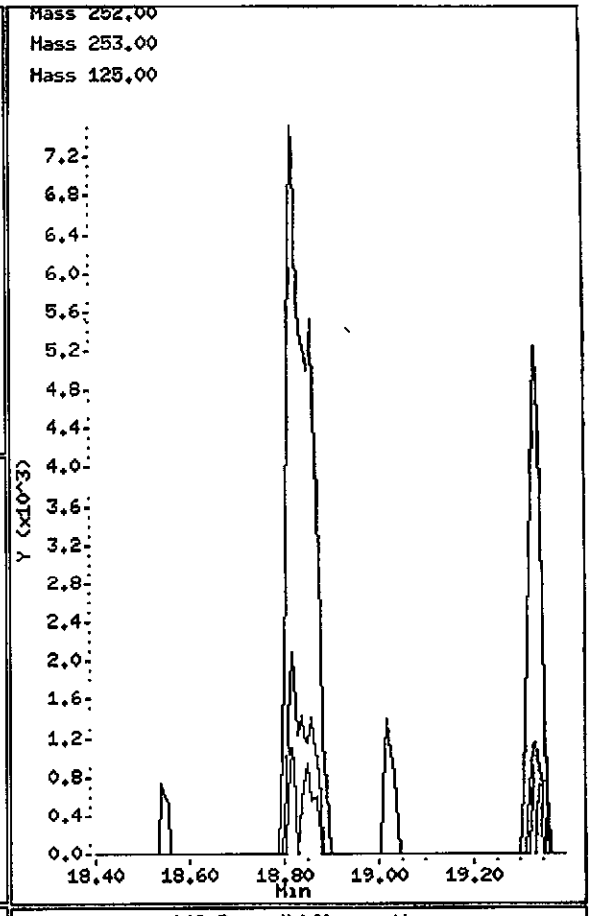


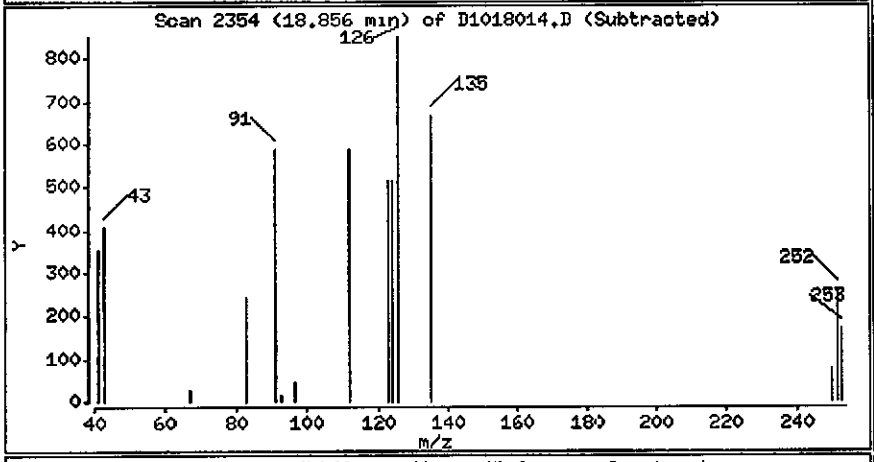


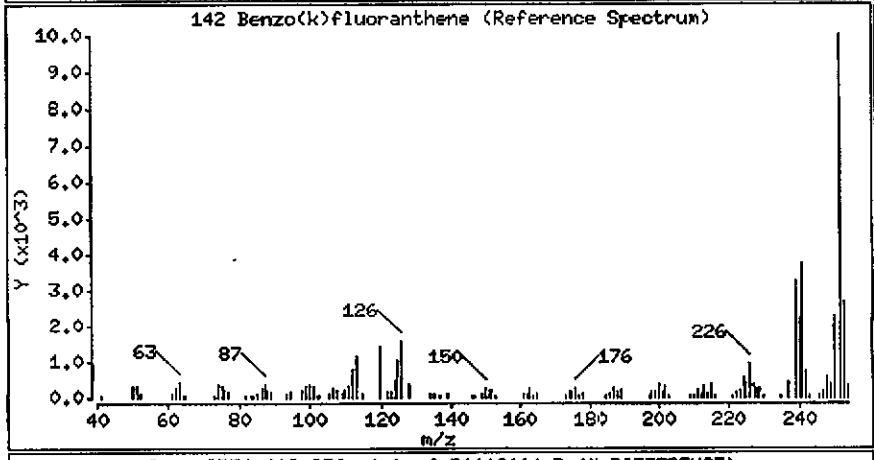
673 1253

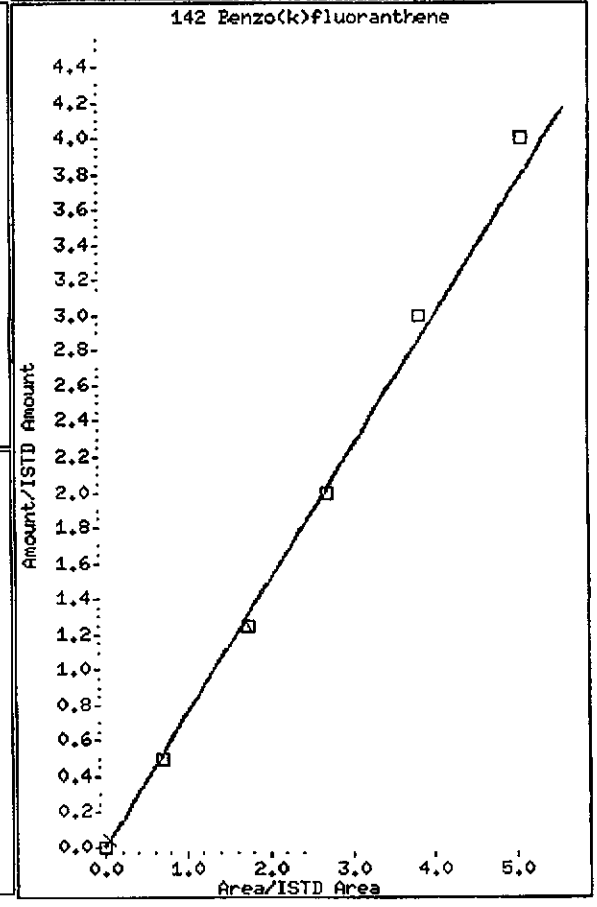
142 Benzo(k)fluoranthene

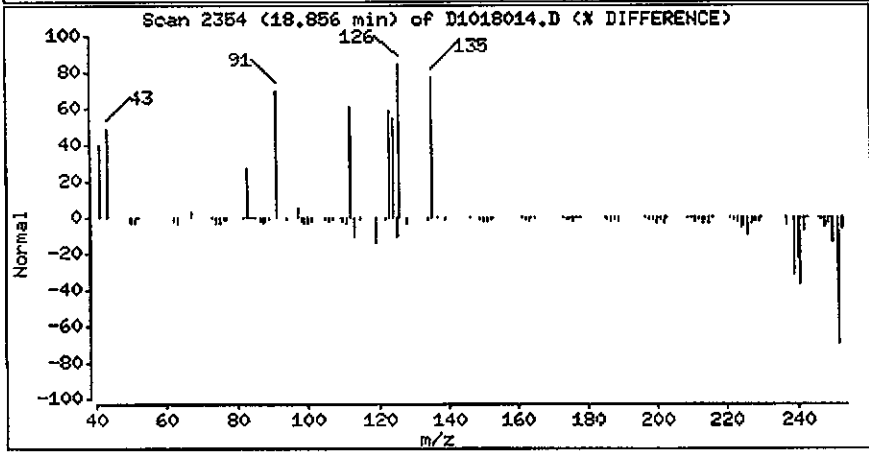




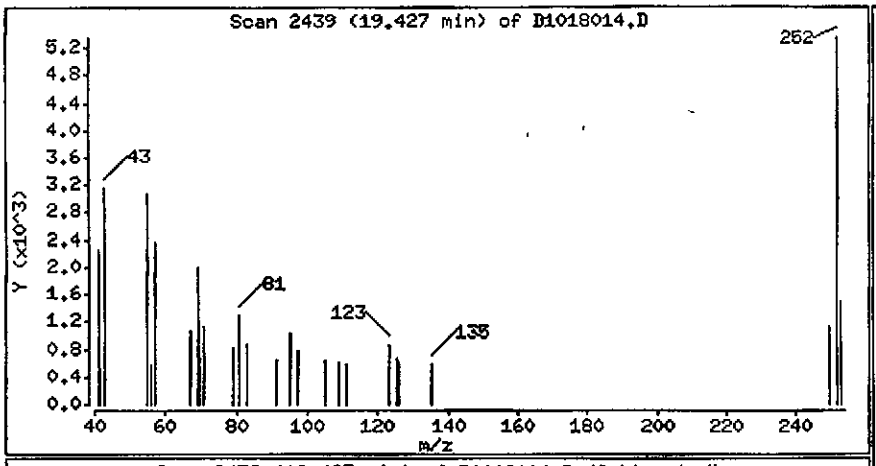


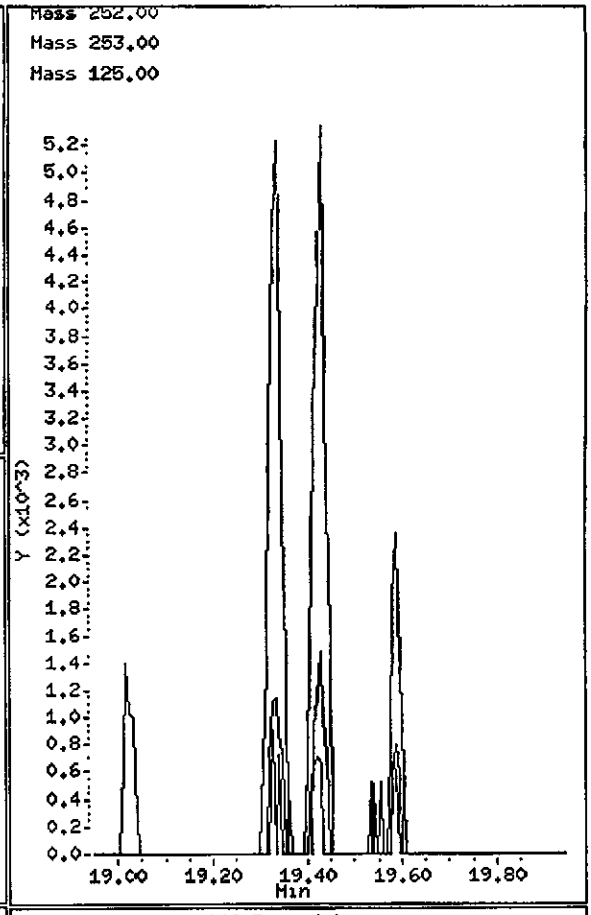


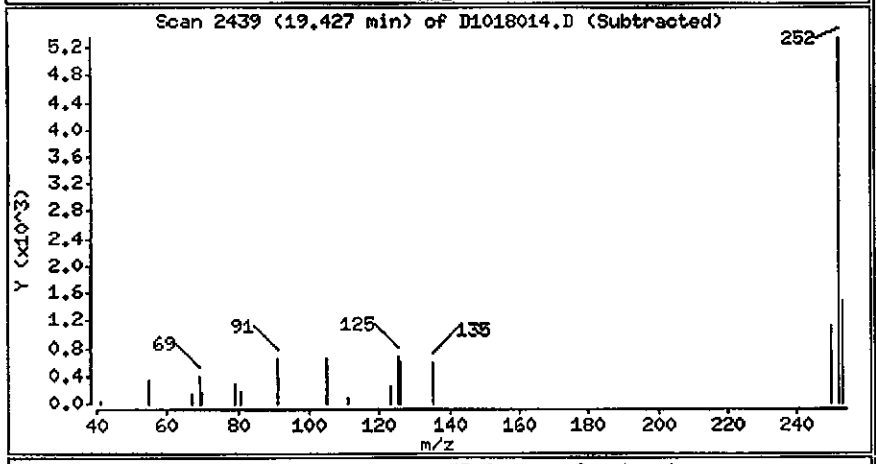


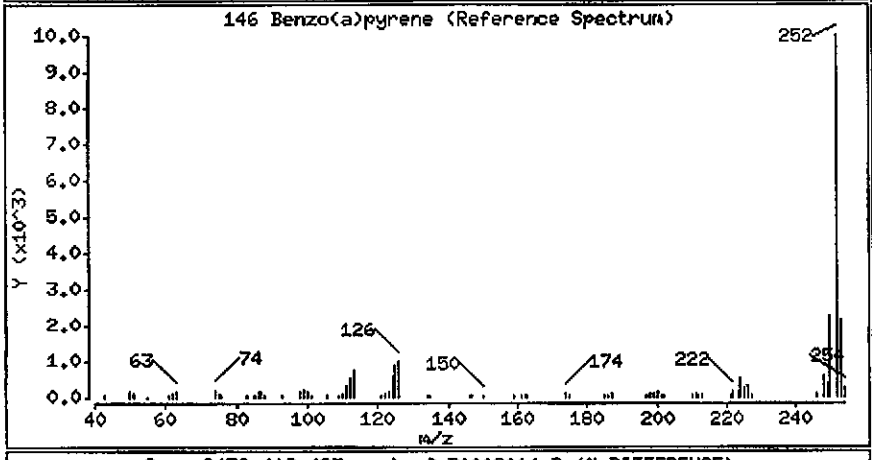


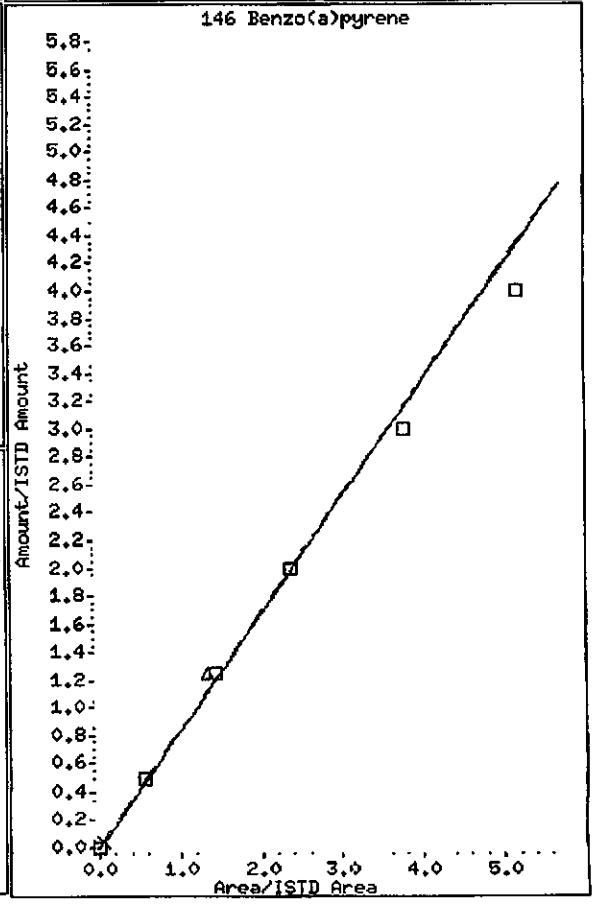
146 Benzo(a)pyrene

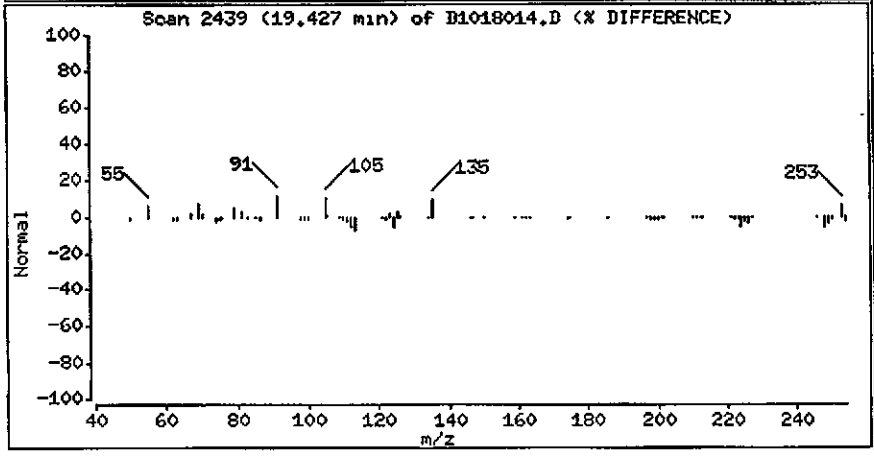












673 1255

GC/MS SEMIVOLATILE
CALIBRATION DATA

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

673 1256

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Instrument ID: 721 Calibration Date(s): 10/02/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =D1002CC1.D RRF2 =D1002CC2.D
RRF3 =D1002CC3.D RRF4 =D1002CC4.D RRF5 =D1002CC5.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Phenol *	1.625	1.623	1.637	1.639	1.609	1.627	0.7*
bis(2-Chloroethyl)ether	1.210	1.192	1.178	1.183	1.183	1.189	1.1
2-Chlorophenol	1.336	1.331	1.335	1.354	1.370	1.345	1.2
1,3-Dichlorobenzene	1.469	1.450	1.438	1.475	1.489	1.464	1.4
1,4-Dichlorobenzene *	1.545	1.494	1.522	1.530	1.522	1.523	1.2*
1,2-Dichlorobenzene	1.396	1.406	1.403	1.446	1.438	1.418	1.6
2-Methylphenol	1.111	1.120	1.092	1.103	1.104	1.106	0.9
2,2'-oxybis(1-Chloropropane	1.497	1.474	1.460	1.462	1.414	1.461	2.1
4-Methylphenol	1.196	1.189	1.203	1.216	1.206	1.202	0.8
Hexachloroethane	0.665	0.660	0.657	0.670	0.676	0.666	1.2
Nitrobenzene	0.383	0.391	0.387	0.408	0.400	0.394	2.5
Isophorone	0.645	0.651	0.654	0.668	0.667	0.657	1.6
2-Nitrophenol *	0.213	0.219	0.223	0.228	0.226	0.222	2.7*
2,4-Dimethylphenol	0.362	0.372	0.377	0.391	0.392	0.379	3.3
bis(2-Chloroethoxy)methane	0.406	0.402	0.406	0.416	0.409	0.408	1.3
N-Nitroso-di-n-propylamine #	0.831	0.806	0.798	0.817	0.794	0.809	1.8#
2,4-Dichlorophenol *	0.331	0.334	0.341	0.362	0.357	0.345	4.0*
1,2,4-Trichlorobenzene	0.365	0.371	0.378	0.395	0.398	0.381	3.8
Naphthalene	1.032	1.058	1.068	1.105	1.105	1.074	2.9
4-Chloroaniline	0.418	0.435	0.438	0.455	0.453	0.440	3.4
Hexachlorobutadiene *	0.240	0.249	0.255	0.273	0.269	0.257	5.4*
4-Chloro-3-Methylphenol	0.320	0.319	0.321	0.331	0.332	0.325	1.9
2-Methylnaphthalene	0.648	0.662	0.670	0.703	0.696	0.676	3.4
Hexachlorocyclopentadiene #	0.486	0.511	0.523	0.548	0.555	0.525	5.3#
2,4,6-Trichlorophenol *	0.429	0.425	0.433	0.449	0.443	0.436	2.3*
2,4,5-Trichlorophenol	0.457	0.473	0.461	0.469	0.469	0.466	1.4
2-Chloronaphthalene	1.172	1.211	1.218	1.260	1.260	1.224	3.0
2-Nitroaniline	0.364	0.379	0.375	0.376	0.372	0.373	1.5
Dimethylphthalate	1.406	1.443	1.412	1.449	1.432	1.428	1.3
Acenaphthylene	1.801	1.859	1.825	1.854	1.848	1.837	1.3
2,6-Dinitrotoluene	0.337	0.352	0.340	0.352	0.348	0.346	2.0
3-Nitroaniline	0.346	0.357	0.352	0.361	0.357	0.355	1.6
Acenaphthene *	1.085	1.105	1.100	1.148	1.132	1.114	2.3*
2,4-Dinitrophenol #	0.195	0.238	0.252	0.268	0.271	0.245	12.6#
4-Nitrophenol #	0.272	0.293	0.296	0.310	0.328	0.300	6.9#
Dibenzofuran	1.631	1.696	1.678	1.738	1.735	1.696	2.6
2,4-Dinitrotoluene	0.450	0.466	0.465	0.473	0.472	0.465	1.9

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Instrument ID: 721 Calibration Date(s): 10/02/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =D1002CC1.D RRF2 =D1002CC2.D
RRF3 =D1002CC3.D RRF4 =D1002CC4.D RRF5 =D1002CC5.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Diethylphthalate	1.470	1.544	1.561	1.625	1.631	1.566	4.2
4-Chlorophenyl-phenylether	0.648	0.685	0.672	0.707	0.722	0.687	4.2
Fluorene	1.284	1.345	1.352	1.419	1.412	1.362	4.1
4-Nitroaniline	0.329	0.335	0.331	0.340	0.336	0.334	1.2
4,6-Dinitro-2-methylphenol	0.155	0.173	0.177	0.185	0.194	0.177	8.3
N-Nitrosodiphenylamine (1) *	0.532	0.529	0.534	0.564	0.576	0.547	3.9*
4-Bromophenyl-phenylether	0.231	0.237	0.247	0.258	0.268	0.248	6.2
Hexachlorobenzene	0.303	0.315	0.324	0.342	0.352	0.327	6.1
Pentachlorophenol *	0.189	0.199	0.209	0.217	0.223	0.207	6.5*
Phenanthrene	1.044	1.048	1.072	1.096	1.135	1.079	3.5
Anthracene	1.072	1.083	1.070	1.112	1.127	1.093	2.3
Carbazole	0.895	0.920	0.929	0.956	0.971	0.934	3.2
Di-n-Butylphthalate	1.322	1.340	1.370	1.392	1.413	1.367	2.7
Fluoranthene *	1.066	1.102	1.115	1.137	1.168	1.118	3.4*
Pyrene	1.143	1.165	1.156	1.198	1.187	1.170	1.9
Butylbenzylphthalate	0.582	0.605	0.604	0.622	0.612	0.605	2.5
3,3'-Dichlorobenzidine	0.418	0.453	0.472	0.503	0.514	0.472	8.2
Benzo(a)Anthracene	1.016	1.043	1.046	1.088	1.088	1.056	3.0
Chrysene	0.936	0.958	0.976	1.011	1.026	0.981	3.8
bis(2-ethylhexyl)Phthalate	0.766	0.806	0.810	0.842	0.836	0.812	3.7
Di-n-octylphthalate *	1.714	1.736	1.793	1.927	1.916	1.817	5.5*
Benzo(b)fluoranthene	1.226	1.207	1.342	1.659	1.794	1.446	18.4
Benzo(k)fluoranthene	1.396	1.406	1.351	1.273	1.268	1.339	4.9
Benzo(a)pyrene *	1.091	1.153	1.180	1.263	1.298	1.197	7.0*
Indeno(1,2,3-cd)pyrene	1.155	1.225	1.303	1.496	1.707	1.377	16.3
Dibenz(a,h)anthracene	1.159	1.227	1.307	1.502	1.660	1.371	15.1
Benzo(g,h,i)perylene	1.139	1.158	1.186	1.314	1.392	1.238	8.9
Nitrobenzene-d5	0.412	0.408	0.423	0.432	0.425	0.420	2.4
2-Fluorobiphenyl	1.387	1.405	1.419	1.430	1.416	1.411	1.1
Terphenyl-d14	0.967	1.005	1.022	1.058	1.061	1.023	3.8
Phenol-d5	1.511	1.543	1.549	1.554	1.527	1.537	1.1
2-Fluorophenol	1.198	1.236	1.231	1.241	1.239	1.229	1.4
2,4,6-Tribromophenol	0.174	0.182	0.193	0.206	0.215	0.194	8.7
2-Chlorophenol-d4	1.226	1.219	1.262	1.277	1.305	1.258	2.9

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

673 1258

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Instrument ID: 721 Calibration Date(s): 10/02/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =D1002CC1.D RRF2 =D1002CC2.D
RRF3 =D1002CC3.D RRF4 =D1002CC4.D RRF5 =D1002CC5.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
1,2-Dichlorobenzene-d4	0.960	0.942	0.974	0.979	0.979	0.967	1.6

FORM VI SV-3 1/87 Rev.

Data File: \\QPITPA02\D\chem\721.i\d100200.b/D1002CC2.D
Report Date: 10/02/2000

673 1259

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D1002CC2.D
Analysis Type: NONE

Injection Date: 02-OCT-2000 10:52
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d100200.b

COMPOUND	%RSD
Benzo(b)fluoranthene	18.4
Benzo(k)fluoranthene	4.9
7,12-dimethylbenz[a]anthracen	12.6
Benzo(a)pyrene	7.0
Indeno(1,2,3-cd)pyrene	16.3
Dibenz(a,h)anthracene	15.1
Benzo(g,h,i)perylene	8.9

The average of all %RSD's in the initial calibration is 4.1

Data File: \\QPITPA02\D\chem\721.i\d100200.b/D1002CC2.D
Report Date: 10/02/2000

INITIAL CALIBRATION REPORT

673 1260

Instrument ID: 721.i
Lab File ID: D1002CC2.D
Analysis Type: NONE

Injection Date: 02-OCT-2000 10:52
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d100200.b

COMPOUND	%RSD
N-Nitrosodimethylamine	3.7
Pyridine	7.2
Methyl methanesulfonate	1 0
2-Fluorophenol	1.4
Phenol-d5	1.1
Phenol	0.7
Aniline	2.5
bis(2-Chloroethyl)ether	1.1
2-Chlorophenol-d4	2 9
2-Chlorophenol	1 2
1,3-Dichlorobenzene	1.4
1,4-Dichlorobenzene	1.2
Benzyl Alcohol	3 9
1,2-Dichlorobenzene-d4	1.6
1,2-Dichlorobenzene	1.6
2-Methylphenol	0.9
2,2'-oxybis(1-Chloropropane)	2.1
4-Methylphenol	0 8
N-Nitroso-di-n-propylamine	1.8
Hexachloroethane	1.2
Nitrobenzene-d5	2.4
Nitrobenzene	2.5
Isophorone	1.6
2-Nitrophenol	2.7
2,4-Dimethylphenol	3.3
bis(2-Chloroethoxy)methane	1.3
Benzoic Acid	11.7
2,4-Dichlorophenol	4.0
1,2,4-Trichlorobenzene	3.8
Naphthalene	2.9
4-Chloroaniline	3.4
Hexachlorobutadiene	5 4
4-Chloro-3-Methylphenol	1.9
2-Methylnaphthalene	3.4
1-Methylnaphthalene	4.2
Hexachlorocyclopentadiene	5.3
2,4,6-Trichlorophenol	2.3
2,4,5-Trichlorophenol	1.4
2-Fluorobiphenyl	1 1

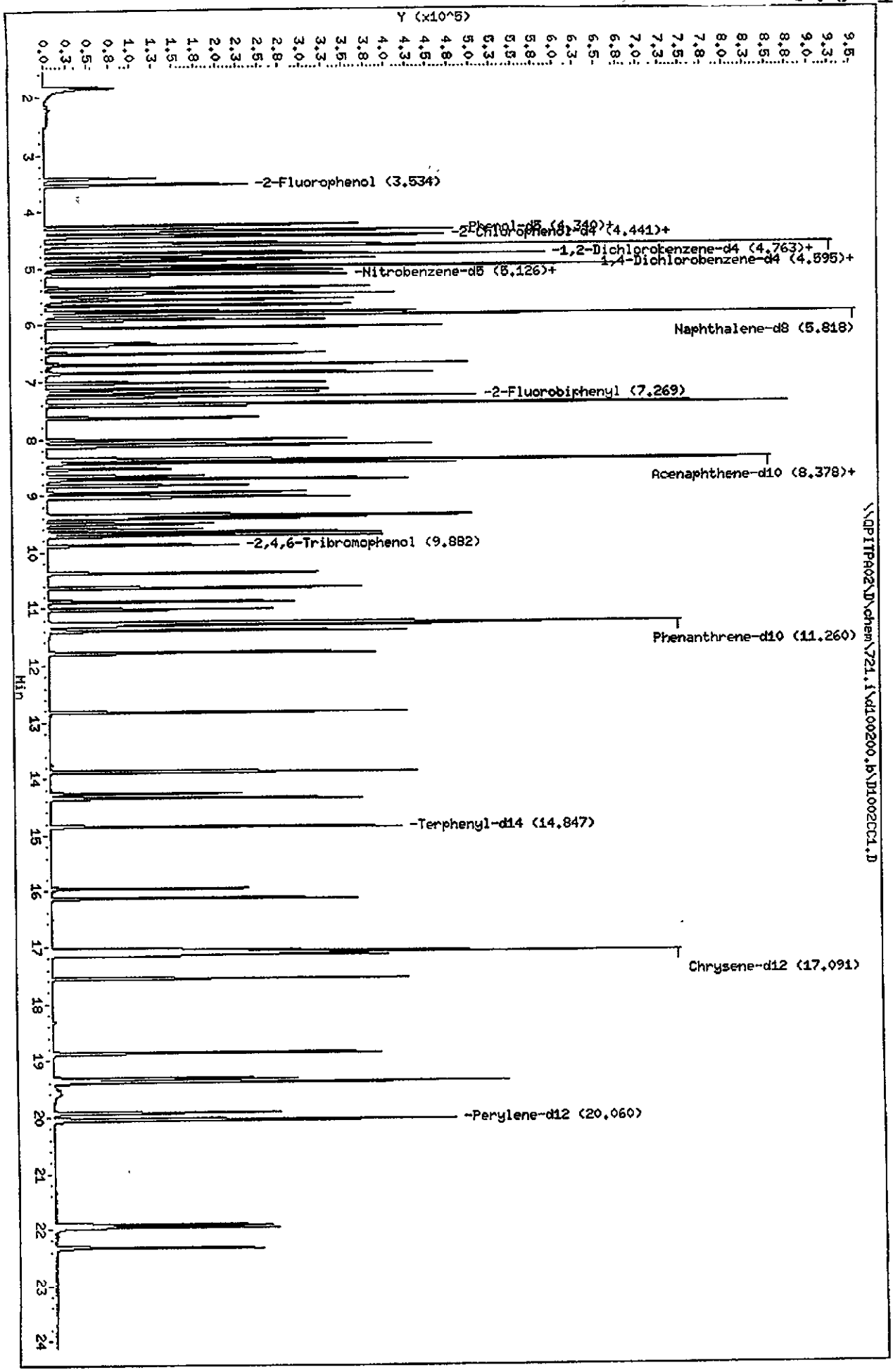
Data File: \\QPITPA02\D\chem\721.i\d100200.b/D1002CC2.D
Report Date: 10/02/2000

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D1002CC2.D
Analysis Type: NONE

Injection Date: 02-OCT-2000 10:52
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d100200.b

COMPOUND	%RSD
2-Chloronaphthalene	3.0
2-Nitroaniline	1 5
Dimethylphthalate	1.3
Acenaphthylene	1.3
2,6-Dinitrotoluene	2.0
3-Nitroaniline	1.6
Acenaphthene	2.3
2,4-Dinitrophenol	12.6
4-Nitrophenol	6.9
Dibenzofuran	2.6
2,4-Dinitrotoluene	1.9
2,3,5,6-Tetrachlorophenol	4.0
2-Naphthylamine	1.8
2,3,4,6-Tetrachlorophenol	5.8
Diethylphthalate	4 2
Fluorene	4.1
4-Chlorophenyl-phenylether	4.2
4-Nitroaniline	1 2
4,6-Dinitro-2-methylphenol	8.3
N-Nitrosodiphenylamine (1)	3 9
1,2-Diphenylhydrazine	5 3
2,4,6-Tribromophenol	8.7
4-Bromophenyl-phenylether	6 2
Hexachlorobenzene	6.1
Pentachlorophenol	6.5
Phenanthrene	3.5
Anthracene	2.3
Carbazole	3.2
Di-n-Butylphthalate	2.7
Fluoranthene	3.4
Benzidine	4.6
Pyrene	1.9
Terphenyl-d14	3.8
Butylbenzylphthalate	2.5
Benzo(a)Anthracene	3.0
3,3'-Dichlorobenzidine	8.2
Chrysene	3.8
bis(2-ethylhexyl)Phthalate	3.7
Di-n-octylphthalate	5.5



Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002CC1.D
Date : 02-OCT-2000 10:22
Client ID: SSTD020
Sample Info: sstd020 (10ug/ml) 77-01-5 8270c/clp/625
Column phase: HP5-MS

Instrument: 721.i
Operator: 001562, MLF
Column diameter: 0.25

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d100200.b\D1002CC1.D
Lab Smp Id: sstd20 Client Smp ID: SSTD020
Inj Date : 02-OCT-2000 10:22
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd020 (10ug/ml) 77-01-5 8270c/clp/625
Misc Info : sstd20,d100200.b,8270c.m,3-root.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\721.i\d100200.b\8270c.m
Meth Date : 02-Oct-2000 13:27 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 10:22 Cal File: D1002CC1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DLB 10-2-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.595	4 595	(1.000)	144932	40.0000	
* 2 Naphthalene-d8	136	5.818	5.818	(1.000)	506410	40 0000	
* 3 Acenaphthene-d10	164	8.377	8.377	(1 000)	294021	40.0000	
* 4 Phenanthrene-d10	188	11.252	11.252	(1.000)	529770	40.0000	
* 5 Chrysene-d12	240	17.090	17.090	(1.000)	482373	40.0000	
* 6 Perylene-d12	264	20.053	20.053	(1.000)	360149	40.0000	
10 N-Nitrosodimethylamine	74	1.814	1.814	(0.395)	43435	20.0000	21 134
9 Pyridine	79	1.841	1.841	(0 401)	76969	20 0000	22.018(M)
16 Methyl methanesulfonate	80	3.419	3.419	(0 744)	62475	20 0000	19.758
21 Aniline	93	4.360	4.360	(0.949)	129501	20.0000	19.433(Q)
22 Phenol	94	4.340	4.340	(0.944)	117738	20.0000	19.978(Q)
23 bis(2-Chloroethyl)ether	93	4.414	4.414	(0.961)	87713	20.0000	20.352
24 2-Chlorophenol	128	4.447	4.447	(0.968)	96842	20 0000	19.866
26 1,3-Dichlorobenzene	146	4 561	4.561	(0 993)	106427	20.0000	20.060
27 1,4-Dichlorobenzene	146	4.608	4.608	(1.003)	111954	20.0000	20.292
28 1,2-Dichlorobenzene	146	4.770	4.770	(1 038)	101204	20.0000	19.697
29 Benzyl Alcohol	108	4.729	4.729	(1.029)	60261	20.0000	19.253
30 2-Methylphenol	108	4.837	4.837	(1.053)	80482	20.0000	20.084
31 2,2'-oxybis(1-Chloropropane)	45	4.870	4.870	(1.060)	108454	20.0000	20 482
32 N-Nitroso-di-n-propylamine	70	4.991	4.991	(1.086)	60207	20.0000	20.530
192 4-Methylphenol	108	4 958	4.958	(1 079)	86699	20.0000	19 906
34 Hexachloroethane	117	5.045	5.045	(1.098)	48223	20.0000	19.991
35 Nitrobenzene	77	5.126	5.126	(0.881)	97064	20.0000	19.462
41 Isophorone	82	5.347	5.347	(0.919)	163321	20.0000	19.638
42 2-Nitrophenol	139	5.435	5.435	(0.934)	53833	20.0000	19.190
43 2,4-Dimethylphenol	107	5.462	5 462	(0.939)	91691	20.0000	19.124

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
44	bis(2-Chloroethoxy)methane	93	5.569	5.569	(0.957)	102939	20.0000	19.927
48	2,4-Dichlorophenol	162	5 670	5.670	(0.975)	83832	20 0000	19 194
49	Benzoic Acid	122	5.562	5.562	(0.956)	52019	20.0000	16.995(QMH)
50	1,2,4-Trichlorobenzene	180	5.771	5.771	(0.992)	92405	20.0000	19 140
51	Naphthalene	128	5.838	5.838	(1.003)	261299	20.0000	19 226
52	4-Chloroaniline	127	5.918	5.918	(1.017)	105965	20.0000	19 025
56	Hexachlorobutadiene	225	6.046	6.046	(1.039)	60699	20.0000	18.649(Q)
59	4-Chloro-3-Methylphenol	107	6.503	6 503	(1 118)	80902	20.0000	19 685
62	2-Methylnaphthalene	142	6.698	6.698	(1.151)	164082	20.0000	19.175
63	1-Methylnaphthalene	142	6.845	6.845	(1 177)	156017	20.0000	19.017
64	Hexachlorocyclopentadiene	237	7.027	7 027	(0 839)	71455	20.0000	18.529
66	2,4,6-Trichlorophenol	196	7.141	7 141	(0 852)	63067	20.0000	19.689
67	2,4,5-Trichlorophenol	196	7.195	7.195	(0.859)	67241	20.0000	19.634
70	2-Chloronaphthalene	162	7.410	7.410	(0.885)	172370	20 0000	19.151
73	2-Nitroaniline	65	7.631	7.631	(0.911)	53562	20.0000	19.511
76	Dimethylphthalate	163	8.021	8 021	(0.957)	206742	20.0000	19.689
78	2,6-Dinitrotoluene	165	8.122	8.122	(0.970)	49525	20.0000	19.483
79	Acenaphthylene	152	8.102	8.102	(0.967)	264722	20 0000	19.600
81	3-Nitroaniline	138	8.350	8.350	(0.997)	50901	20.0000	19.512
82	Acenaphthene	153	8.431	8 431	(1.006)	159577	20.0000	19.484
83	2,4-Dinitrophenol	184	8.532	8.532	(1.018)	28653	20 0000	15.917
85	4-Nitrophenol	109	8.666	8.666	(1.034)	39984	20.0000	18.141
86	Dibenzofuran	168	8.720	8.720	(1.041)	239812	20 0000	19.242
87	2,4-Dinitrotoluene	165	8.827	8.827	(1.054)	66233	20.0000	19.366
91	2,3,5,6-Tetrachlorophenol	232	8.955	8.955	(1.069)	58149	20 0000	18 846
88	2,3,4,6-Tetrachlorophenol	232	9 042	9.042	(1.079)	57072	20.0000	18 509
92	2-Naphthylamine	143	9.022	9.022	(1.077)	154423	20.0000	19.471
93	Diethylphthalate	149	9.351	9.351	(1.116)	216112	20.0000	18.772
94	Fluorene	166	9.371	9.371	(1.119)	188803	20 0000	18 852
95	4-Chlorophenyl-phenylether	204	9.412	9.412	(1.123)	95228	20 0000	18.870
96	4-Nitroaniline	138	9.506	9.506	(1.135)	48394	20.0000	19 706
98	4,6-Dinitro-2-methylphenol	198	9.600	9.600	(0.853)	41151	20.0000	17.560
99	N-Nitrosodiphenylamine (1)	169	9.660	9.660	(0.859)	140834	20.0000	19.441
100	1,2-Diphenylhydrazine	77	9.714	9.714	(0.863)	203858	20.0000	19.207
106	4-Bromophenyl-phenylether	248	10.379	10.379	(0.922)	61090	20.0000	18.572
107	Hexachlorobenzene	284	10.634	10.634	(0.945)	80209	20.0000	18.512
111	Pentachlorophenol	266	11.017	11.017	(0.979)	50136	20.0000	18.235(Q)
115	Phenanthrene	178	11.299	11.299	(1.004)	276433	20.0000	19.343
116	Anthracene	178	11.393	11.393	(1.013)	283888	20.0000	19.612
119	Carbazole	167	11.776	11.776	(1.047)	237112	20.0000	19.166(Q)
120	Di-n-Butylphthalate	149	12.824	12.824	(1.140)	350172	20.0000	19.335
123	Fluoranthene	202	13.872	13.872	(1.233)	282262	20.0000	19.071
124	Benzidine	184	14.269	14.269	(0.835)	141816	20.0000	18 693
125	Pyrene	202	14.349	14.349	(0.840)	275599	20.0000	19.537
131	Butylbenzylphthalate	149	16.123	16.123	(0.943)	140250	20.0000	19.226
135	3,3'-Dichlorobenzidine	252	17.124	17 124	(1.002)	100727	20 0000	17.699
136	Benzo(a)Anthracene	228	17.050	17.050	(0.998)	244945	20.0000	19.232

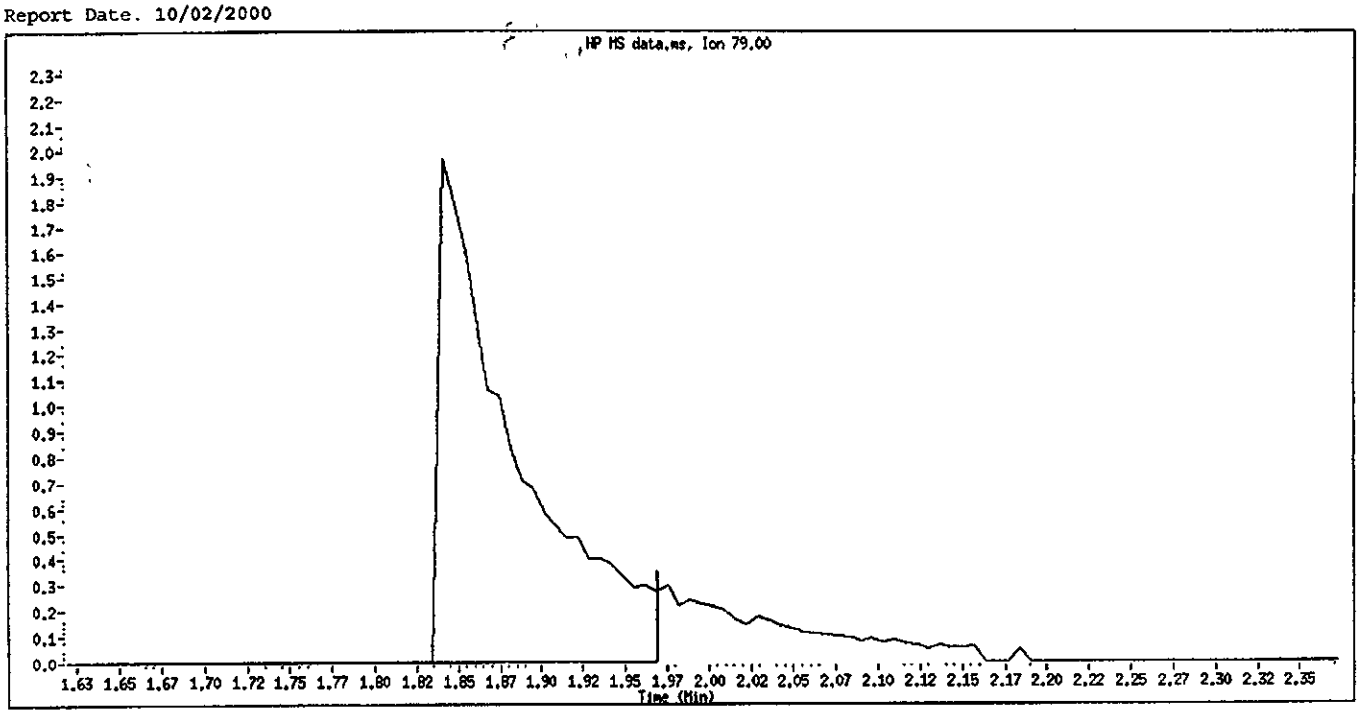
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	17.144	17.144	(1 003)	225744	20.0000	19.076
139 bis(2-ethylhexyl)Phthalate	149	17.554	17.554	(1.027)	184671	20.0000	18.863
140 Di-n-octylphthalate	149	18.864	18 864	(0.941)	308734	20.0000	18.867
141 Benzo(b)fluoranthene	252	19.327	19.327	(0.964)	220805	20.0000	16.963
142 Benzo(k)fluoranthene	252	19.374	19.374	(0 966)	251432	20.0000	20.857
143 7,12-dimethylbenz[a]anthracen	256	19 388	19 388	(0.967)	100553	20.0000	16 693
146 Benzo(a)pyrene	252	19.932	19.932	(0.994)	196403	20 0000	18.222
149 Indeno(1,2,3-cd)pyrene	276	21 914	21.914	(1.093)	207958	20 0000	16.770
150 Dibenz(a,h)anthracene	278	21.967	21 967	(1.095)	208794	20.0000	16.913
151 Benzo(g,h,i)perylene	276	22.323	22.323	(1.113)	205154	20.0000	18.407
$ 154 Nitrobenzene-d5	82	5.112	5.112	(0.879)	104198	20.0000	19.595
$ 155 2-Fluorobiphenyl	172	7.269	7.269	(0.868)	203931	20.0000	19.658
$ 156 Terphenyl-d14	244	14.846	14.846	(0.869)	233315	20.0000	18.919
$ 157 Phenol-d5	99	4.333	4 333	(0.943)	109506	20.0000	19.665
$ 158 2-Fluorophenol	112	3.534	3.534	(0.769)	86836	20.0000	19.500
$ 159 2,4,6-Tribromophenol	330	9.882	9.882	(0.878)	46023	20.0000	17.920
$ 186 2-Chlorophenol-d4	132	4 434	4.434	(0.965)	88814	20.0000	19.490
$ 187 1,2-Dichlorobenzene-d4	152	4.756	4.756	(1.035)	69577	20.0000	19.865

QC Flag Legend

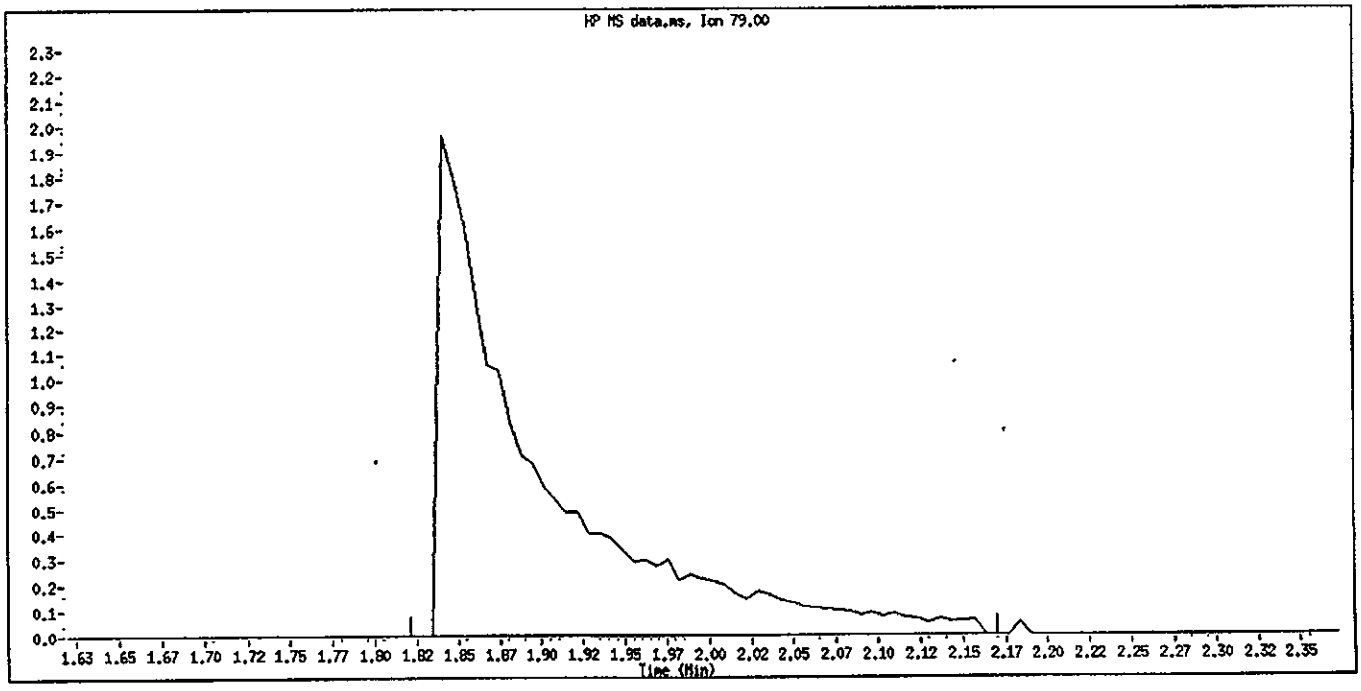
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: D1002CC1.D
Inj. Date and Time. 02-OCT-2000 10 22
Instrument ID. 721.i
Client ID: SSTD020
Compound Name· Pyridine
CAS #: 110-86-1
Report Date. 10/02/2000

673 1266



Original Integration

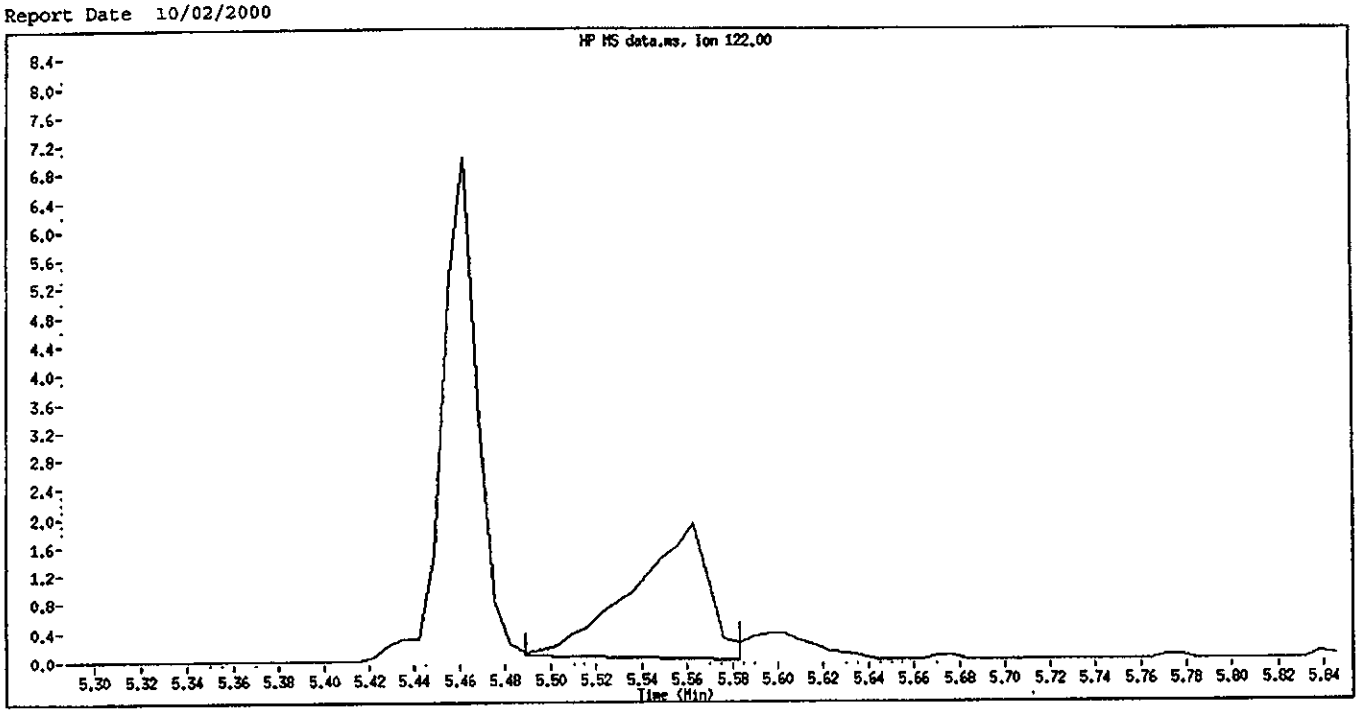


Manual Integration

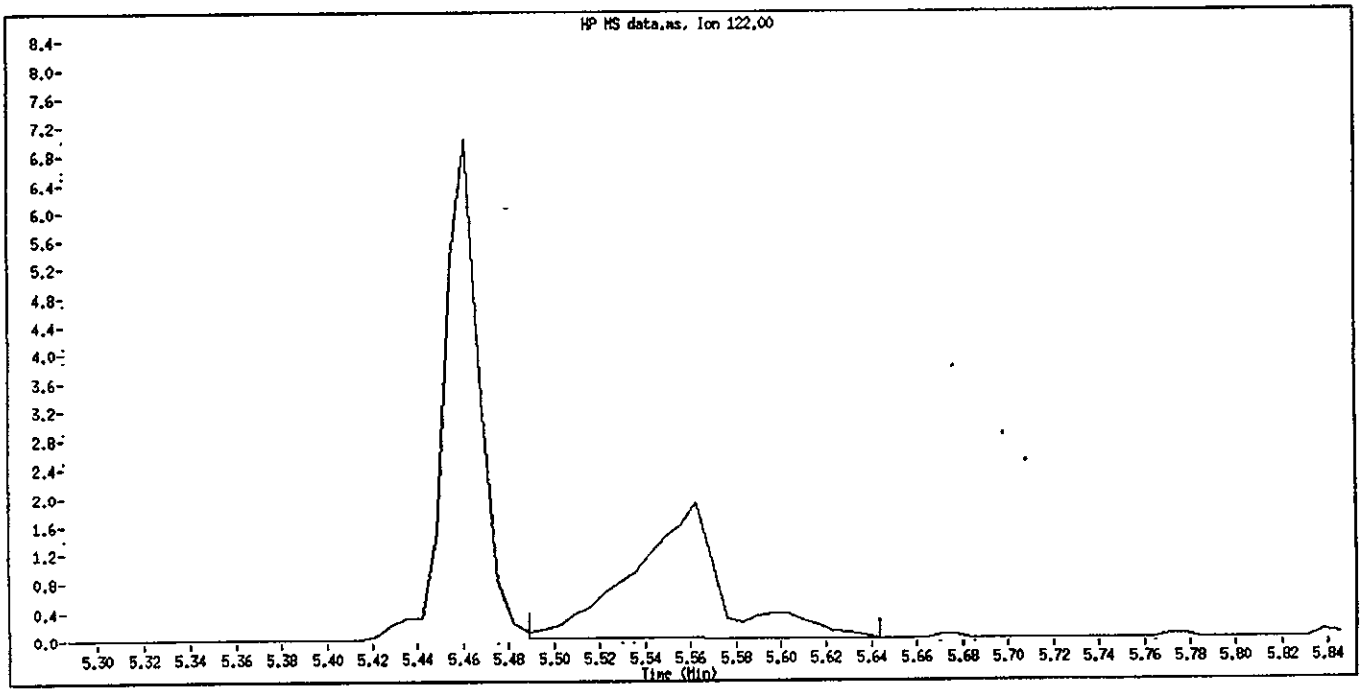
Manually Integrated By. FergusonD
Manual Integration Reason: Poor Chromatography

673 1267

Data File Name: D1002CC1.D
Inj. Date and Time: 02-OCT-2000 10 22
Instrument ID: 721 i
Client ID. SSTD020
Compound Name Benzoic Acid
CAS #: 65-85-0
Report Date 10/02/2000



Original Integration

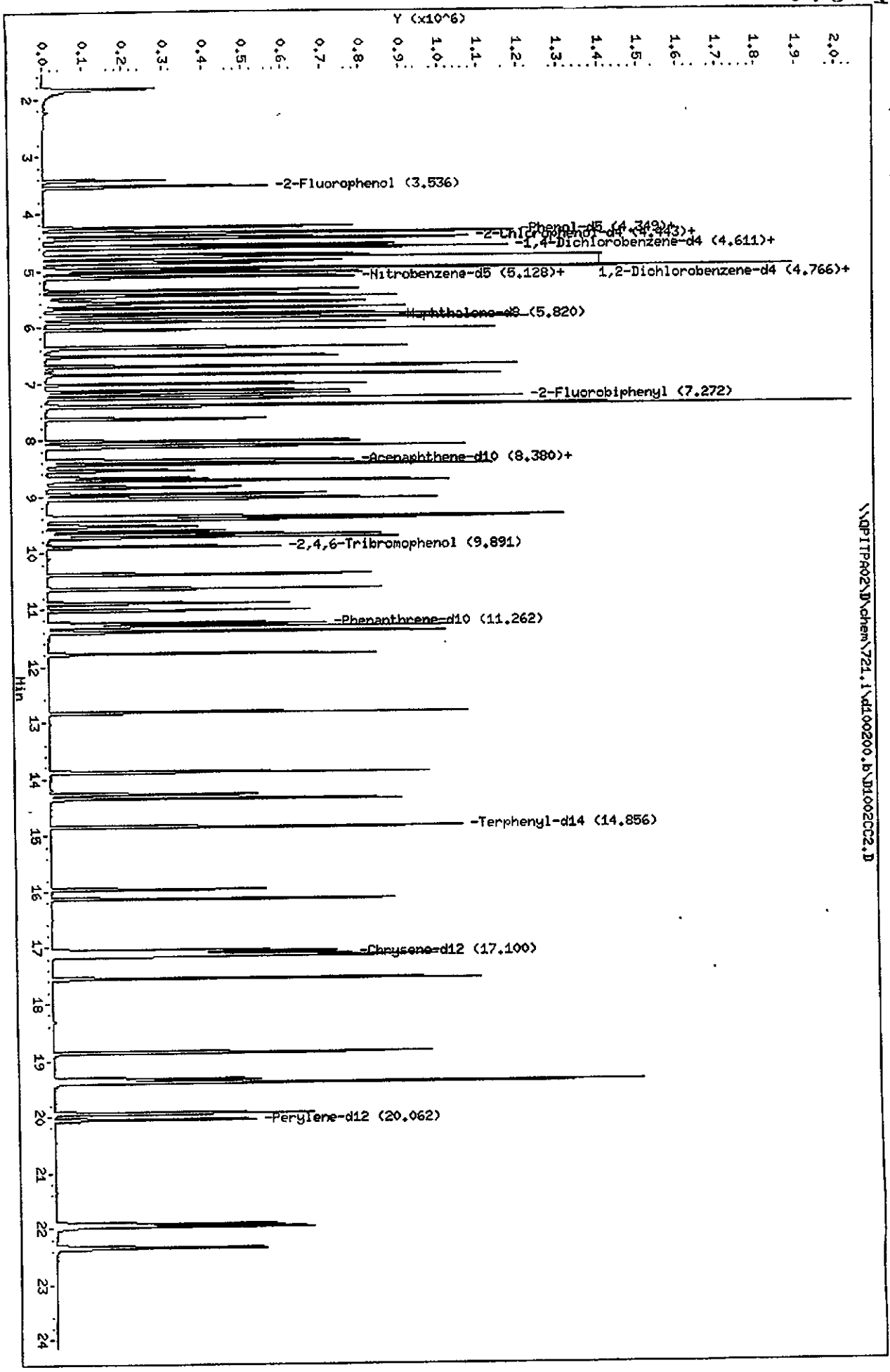


Manual Integration

Manually Integrated By. FergusonD
Manual Integration Reason. Poor Chromatography

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002CC2.D
Date : 02-OCT-2000 10:52
Client ID: SSTD050
Sample Info: std050 (25ug/ml) 77-01-6 8270c/clp/625
Column phase: Hp5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d100200.b\D1002CC2.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 02-OCT-2000 10:52
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25ug/ml) 77-01-6 8270c/clp/625
Misc Info : sstd50,d100200.b,8270c.m,3-root.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d100200.b\8270c.m
Meth Date : 02-Oct-2000 13:55 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-2-00

Compounds	QUANT SIG MASS	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)	139168	40.0000	
* 2 Naphthalene-d8	136	5.820	5.820	(1.000)	477523	40.0000	
* 3 Acenaphthene-d10	164	8.379	8 379	(1.000)	274400	40.0000	
* 4 Phenanthrene-d10	188	11.261	11 261	(1.000)	502799	40.0000	
* 5 Chrysene-d12	240	17 099	17.099	(1.000)	455433	40.0000	
* 6 Perylene-d12	264	20.062	20.062	(1.000)	358147	40.0000	
10 N-Nitrosodimethylamine	74	1.816	1.816	(0.395)	99649	50.0000	50.494
9 Pyridine	79	1.823	1.823	(0.397)	161814	50.0000	48.207(M)
16 Methyl methanesulfonate	80	3.422	3.422	(0 744)	153542	50.0000	50.570
21 Aniline	93	4.362	4.362	(0 949)	312477	50 0000	48 834
22 Phenol	94	4.349	4.349	(0 946)	282346	50 0000	49 893
23 bis(2-Chloroethyl)ether	93	4.416	4.416	(0.961)	207287	50.0000	50.090
24 2-Chlorophenol	128	4.450	4.450	(0.968)	231600	50.0000	49.477
26 1,3-Dichlorobenzene	146	4 570	4.570	(0.994)	252317	50.0000	49 528
27 1,4-Dichlorobenzene	146	4.611	4.611	(1.003)	259918	50.0000	49.063
28 1,2-Dichlorobenzene	146	4.772	4.772	(1.038)	244654	50 0000	49.589
29 Benzyl Alcohol	108	4.738	4.738	(1 031)	143270	50 0000	47.670
30 2-Methylphenol	108	4.839	4.839	(1 053)	194870	50.0000	50.644
31 2,2'-oxybis(1-Chloropropane)	45	4.873	4.873	(1 060)	256426	50.0000	50 433
32 N-Nitroso-di-n-propylamine	70	5.007	5.007	(1.089)	140315	50.0000	49.827
192 4-Methylphenol	108	4 967	4.967	(1.080)	206892	50.0000	49 470
34 Hexachloroethane	117	5.041	5.041	(1.096)	114848	50.0000	49.583
35 Nitrobenzene	77	5.135	5.135	(0.882)	233275	50.0000	49.604
41 Isophorone	82	5.356	5.356	(0.920)	388360	50.0000	49.521
42 2-Nitrophenol	139	5.437	5.437	(0.934)	130882	50 0000	49.478
43 2,4-Dimethylphenol	107	5.464	5 464	(0.939)	221879	50 0000	49.076

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
44	bis(2-Chloroethoxy)methane	93	5.571	5.571	(0.957)	239833	50.0000	49.236
48	2,4-Dichlorophenol	162	5.672	5.672	(0.975)	199096	50 0000	48.341
49	Benzoic Acid	122	5.612	5.612	(0.964)	131484	50.0000	45.555
50	1,2,4-Trichlorobenzene	180	5.773	5.773	(0.992)	221404	50.0000	48.634
51	Naphthalene	128	5.847	5.847	(1.005)	631259	50.0000	49.257
52	4-Chloroaniline	127	5.921	5.921	(1.017)	259943	50.0000	49.495
56	Hexachlorobutadiene	225	6 048	6.048	(1.039)	148395	50.0000	48.351
59	4-Chloro-3-Methylphenol	107	6.519	6.519	(1.120)	190635	50.0000	49.192
62	2-Methylnaphthalene	142	6.700	6.700	(1 151)	394959	50.0000	48.949
63	1-Methylnaphthalene	142	6.854	6.854	(1.178)	372348	50.0000	48.131
64	Hexachlorocyclopentadiene	237	7.029	7.029	(0.839)	175366	50.0000	48.727
66	2,4,6-Trichlorophenol	196	7.143	7.143	(0.852)	145722	50 0000	48.746
67	2,4,5-Trichlorophenol	196	7.204	7.204	(0.860)	162236	50.0000	50.760
70	2-Chloronaphthalene	162	7.419	7.419	(0.885)	415424	50.0000	49.456
73	2-Nitroaniline	65	7.640	7.640	(0.912)	130079	50.0000	50.773
76	Dimethylphthalate	163	8.030	8.030	(0.958)	494978	50 0000	50.509
78	2,6-Dinitrotoluene	165	8.138	8 138	(0.971)	120659	50.0000	50.861
79	Acenaphthylene	152	8.111	8 111	(0 968)	637756	50.0000	50.596
81	3-Nitroaniline	138	8.366	8.366	(0.998)	122414	50.0000	50.282
82	Acenaphthene	153	8.440	8 440	(1.007)	379084	50.0000	49.595
83	2,4-Dinitrophenol	184	8.547	8.547	(1.020)	81564	50.0000	48 549
85	4-Nitrophenol	109	8.682	8.682	(1.036)	100655	50 0000	48 934
86	Dibenzofuran	168	8.729	8 729	(1 042)	581614	50.0000	50.003
87	2,4-Dinitrotoluene	165	8.843	8.843	(1.055)	159874	50 0000	50 090
91	2,3,5,6-Tetrachlorophenol	232	8.964	8.964	(1 070)	141784	50 0000	49 238
88	2,3,4,6-Tetrachlorophenol	232	9.051	9 051	(1 080)	137150	50.0000	47.660
92	2-Naphthylamine	143	9.031	9.031	(1 078)	367963	50.0000	49.713
93	Diethylphthalate	149	9.360	9 360	(1.117)	529536	50.0000	49.287
94	Fluorene	166	9.380	9.380	(1.119)	461405	50.0000	49.365
95	4-Chlorophenyl-phenylether	204	9.414	9.414	(1.123)	234820	50 0000	49 857
96	4-Nitroaniline	138	9.535	9.535	(1.138)	114968	50.0000	50.162
98	4,6-Dinitro-2-methylphenol	198	9.616	9.616	(0 854)	108594	50.0000	48.824
99	N-Nitrosodiphenylamine (1)	169	9.676	9.676	(0 859)	332357	50.0000	48.341
100	1,2-Diphenylhydrazine	77	9.723	9.723	(0.863)	489184	50.0000	48 561
106	4-Bromophenyl-phenylether	248	10.381	10 381	(0 922)	149182	50 0000	47 787
107	Hexachlorobenzene	284	10.643	10 643	(0 945)	198183	50 0000	48.194
111	Pentachlorophenol	266	11.026	11 026	(0.979)	125324	50.0000	48.026
115	Phenanthrene	178	11.308	11.308	(1.004)	658677	50.0000	48.561
116	Anthracene	178	11.402	11.402	(1.013)	680485	50 0000	49 531
119	Carbazole	167	11.792	11 792	(1.047)	578320	50.0000	49.252
120	Di-n-Butylphthalate	149	12.827	12.827	(1.139)	841985	50.0000	48.986
123	Fluoranthene	202	13.888	13.888	(1.233)	692424	50.0000	49.293
124	Benzidine	184	14.278	14.278	(0.835)	349832	50 0000	48 841
125	Pyrene	202	14.358	14.358	(0.840)	663439	50.0000	49.812
131	Butylbenzylphthalate	149	16.132	16.132	(0.943)	344226	50.0000	49.980
135	3,3'-Dichlorobenzidine	252	17.133	17.133	(1 002)	257990	50.0000	48.013
136	Benzo(a)Anthracene	228	17.059	17.059	(0.998)	593949	50.0000	49.392

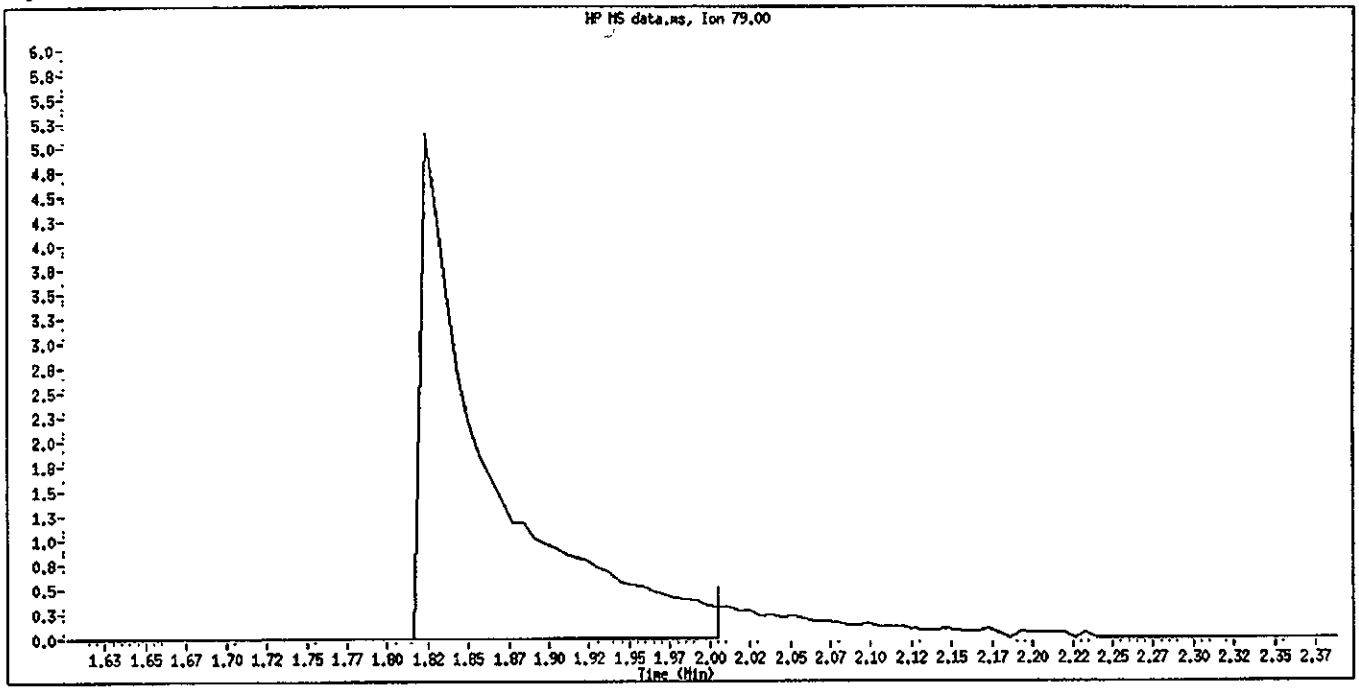
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	17.160	17.160	(1.004)	545699	50.0000	48 840
139 bis(2-ethylhexyl)Phthalate	149	17.556	17.556	(1.027)	458970	50.0000	49.655
140 Di-n-octylphthalate	149	18.873	18.873	(0.941)	776988	50.0000	47.749
141 Benzo(b)fluoranthene	252	19.343	19.343	(0.964)	540570	50.0000	41.760
142 Benzo(k)fluoranthene	252	19.397	19.397	(0.967)	629537	50.0000	52 514
143 7,12-dimethylbenz[a]anthracen	256	19.403	19.403	(0.967)	277403	50.0000	46.311
146 Benzo(a)pyrene	252	19.948	19 948	(0 994)	516355	50 0000	48.173
149 Indeno(1,2,3-cd)pyrene	276	21 936	21.936	(1 093)	548354	50.0000	44.468
150 Dibenz(a,h)anthracene	278	21 983	21.983	(1.096)	549148	50.0000	44.732
151 Benzo(g,h,i)perylene	276	22.346	22 346	(1.114)	518482	50.0000	46.780
$ 154 Nitrobenzene-d5	82	5.115	5.115	(0.879)	243808	50.0000	48.623
$ 155 2-Fluorobiphenyl	172	7.271	7.271	(0.868)	481978	50.0000	49.782
$ 156 Terphenyl-d14	244	14.855	14.855	(0.869)	572244	50 0000	49.146
$ 157 Phenol-d5	99	4.342	4.342	(0.944)	268479	50.0000	50.211
$ 158 2-Fluorophenol	112	3.536	3.536	(0.769)	215006	50.0000	50 282
$ 159 2,4,6-Tribromophenol	330	9.891	9.891	(0.878)	114157	50.0000	46.834
$ 186 2-Chlorophenol-d4	132	4.436	4.436	(0.965)	212027	50 0000	48.456
$ 187 1,2-Dichlorobenzene-d4	152	4.759	4.759	(1.035)	163831	50.0000	48.712

QC Flag Legend

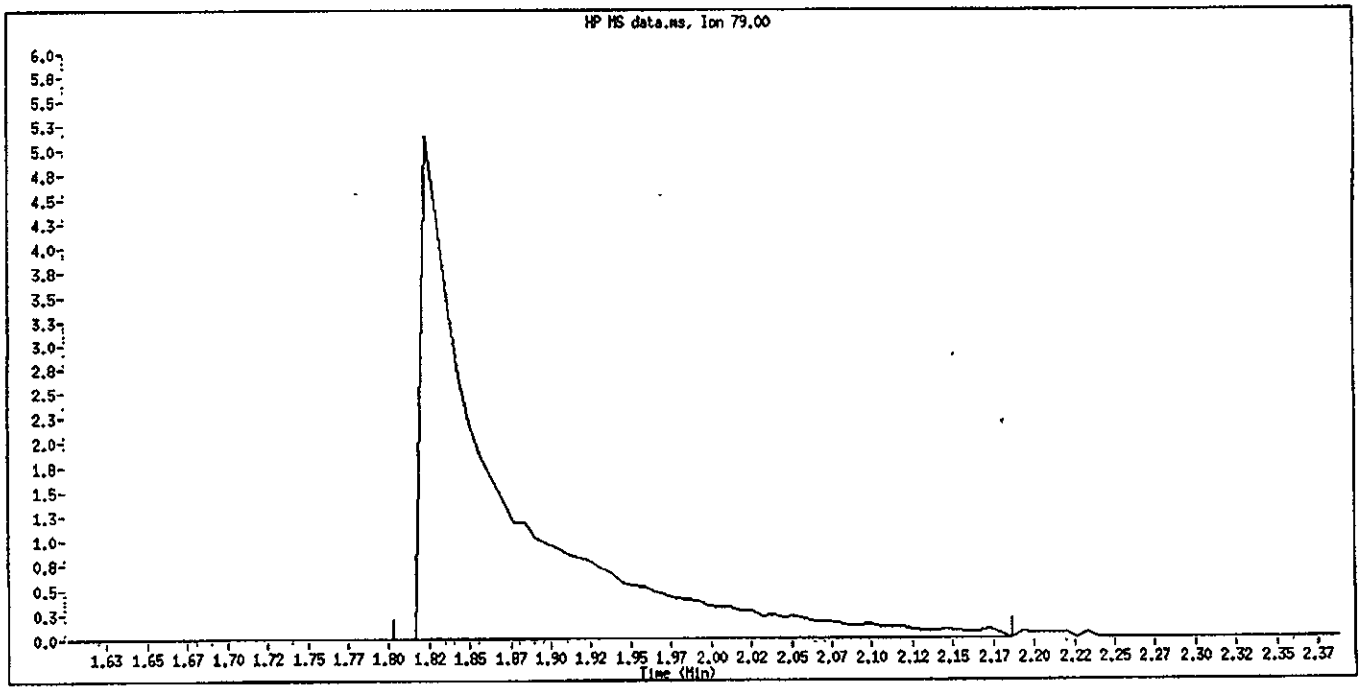
M - Compound response manually integrated.

Data File Name. D1002CC2.D
Inj. Date and Time: 02-OCT-2000 10:52
Instrument ID. 721.i
Client ID: SSTD050
Compound Name. Pyridine
CAS #: 110-86-1
Report Date. 10/02/2000

673 1272



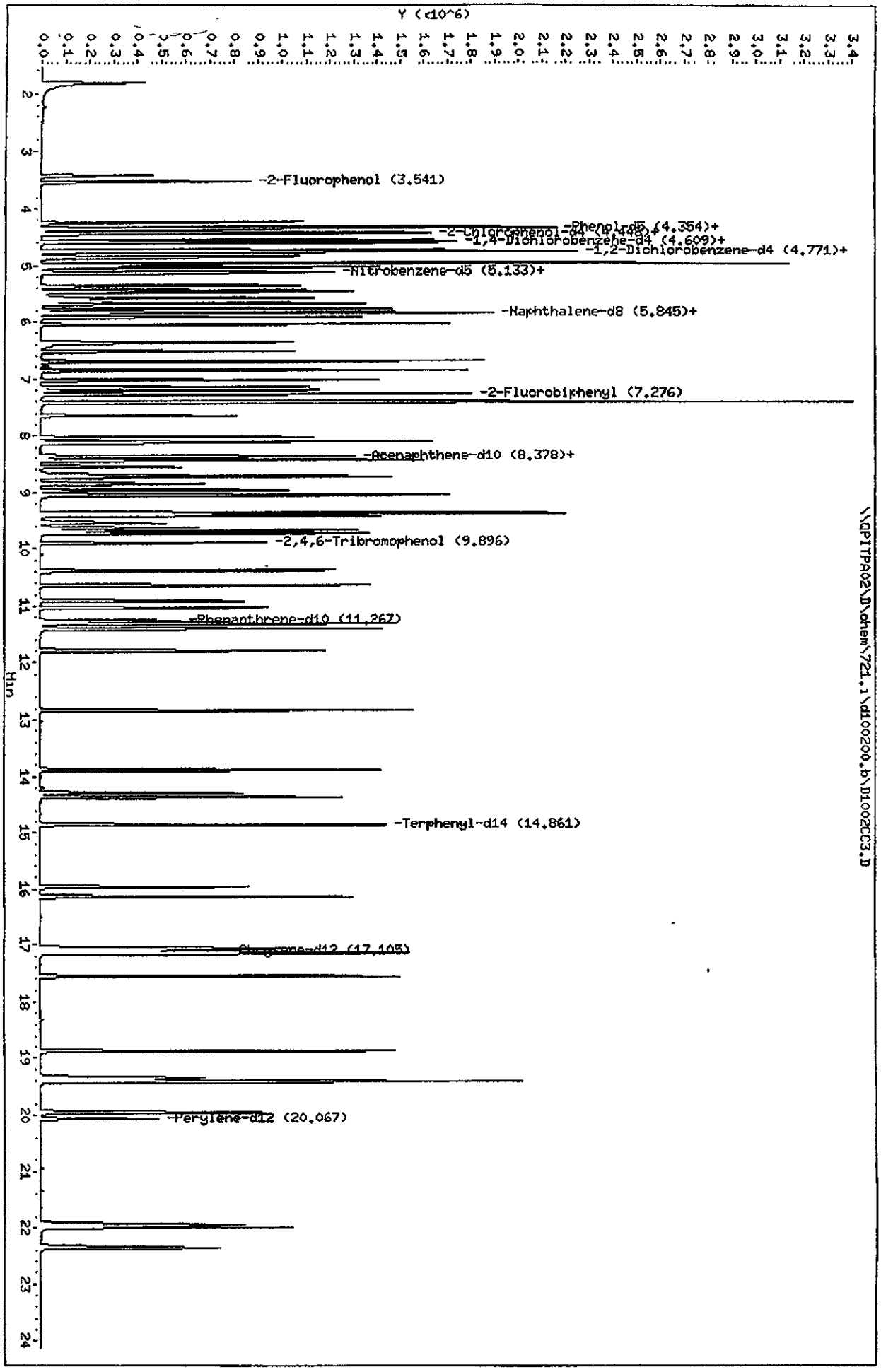
Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

673 1273



Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002CC3.D
Date : 02-OCT-2000 11:22
Client ID: SSTD080
Sample Info: sstd080 (40ug/ml) 77-01-7 8270c/clp/625
Column phase: Hp5-MS
Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25

673 1274

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d100200.b\D1002CC3.D
Lab Smp Id: sstd80 Client Smp ID: SSTD080
Inj Date : 02-OCT-2000 11:22
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd080 (40ug/ml) 77-01-7 8270c/clp/625
Misc Info : sstd80,d100200.b,8270c.m,3-root.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\721.i\d100200.b\8270c.m
Meth Date : 02-Oct-2000 13:30 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 10:22 Cal File: D1002CC1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DLH 10-2-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.602	4.602	(1.000)	137332	40.0000	
* 2	Naphthalene-d8	136	5.825	5.825	(1.000)	462383	40.0000	
* 3	Acenaphthene-d10	164	8.384	8 384	(1.000)	271888	40.0000	
* 4	Phenanthrene-d10	188	11.266	11.266	(1.000)	483973	40.0000	
* 5	Chrysene-d12	240	17.104	17 104	(1.000)	443280	40.0000	
* 6	Perylene-d12	264	20.067	20.067	(1.000)	340553	40.0000	
10	N-Nitrosodimethylamine	74	1.821	1.821	(0.396)	151837	80.0000	77.966
9	Pyridine	79	1.808	1.808	(0.393)	254257	80.0000	76 760(M)
16	Methyl methanesulfonate	80	3.427	3.427	(0.745)	240378	80.0000	80.229
21	Aniline	93	4.367	4 367	(0 949)	510625	80.0000	80.867
22	Phenol	94	4 354	4.354	(0.946)	449552	80.0000	80.502
23	bis(2-Chloroethyl)ether	93	4.421	4.421	(0.961)	323640	80.0000	79 251(M)
24	2-Chlorophenol	128	4.454	4.454	(0.968)	366775	80.0000	79 402
26	1,3-Dichlorobenzene	146	4.569	4.569	(0 993)	394968	80 0000	78 566
27	1,4-Dichlorobenzene	146	4 616	4.616	(1 003)	417953	80.0000	79.948
28	1,2-Dichlorobenzene	146	4 777	4.777	(1.038)	385396	80.0000	79.160
29	Benzyl Alcohol	108	4.743	4.743	(1.031)	242826	80.0000	81 876
30	2-Methylphenol	108	4.844	4.844	(1.053)	299876	80.0000	78.976
31	2,2'-oxybis(1-Chloropropane)	45	4 871	4 871	(1 058)	401034	80 0000	79.929
32	N-Nitroso-di-n-propylamine	70	5.012	5.012	(1 089)	219305	80 0000	78.919
192	4-Methylphenol	108	4.978	4.978	(1.082)	330339	80.0000	80.044
34	Hexachloroethane	117	5.046	5.046	(1.096)	180426	80.0000	78 936
35	Nitrobenzene	77	5.140	5.140	(0 882)	358142	80 0000	78.650
41	Isophorone	82	5.361	5.361	(0.920)	604575	80.0000	79.616
42	2-Nitrophenol	139	5.442	5.442	(0.934)	205978	80.0000	80.416
43	2,4-Dimethylphenol	107	5.476	5 476	(0 940)	348903	80 0000	79 699

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
44	bis(2-Chloroethoxy)methane	93	5 576	5.576	(0.957)	375560	80.0000	79.625
48	2,4-Dichlorophenol	162	5 677	5.677	(0.975)	315559	80.0000	79.127
49	Benzoic Acid	122	5 650	5.650	(0.970)	240056	80.0000	85 895
50	1,2,4-Trichlorobenzene	180	5.778	5.778	(0.992)	349485	80.0000	79.282
51	Naphthalene	128	5.845	5.845	(1.003)	987579	80.0000	79.584
52	4-Chloroaniline	127	5.926	5.926	(1.017)	404614	80.0000	79.564
56	Hexachlorobutadiene	225	6 053	6.053	(1 039)	235884	80.0000	79.374 (Q)
59	4-Chloro-3-Methylphenol	107	6.530	6.530	(1.121)	297079	80.0000	79.169
62	2-Methylnaphthalene	142	6.705	6.705	(1.151)	619798	80.0000	79.330
63	1-Methylnaphthalene	142	6.859	6.859	(1.178)	604120	80.0000	80.647
64	Hexachlorocyclopentadiene	237	7.027	7.027	(0.838)	284427	80.0000	79.761
66	2,4,6-Trichlorophenol	196	7.155	7.155	(0.853)	235543	80.0000	79.520
67	2,4,5-Trichlorophenol	196	7.215	7.215	(0.861)	250733	80.0000	79.173
70	2-Chloronaphthalene	162	7.424	7.424	(0.885)	662457	80.0000	79.594
73	2-Nitroaniline	65	7 652	7.652	(0.913)	203829	80.0000	80.294
76	Dimethylphthalate	163	8 035	8.035	(0.958)	767939	80.0000	79.087
78	2,6-Dinitrotoluene	165	8.143	8.143	(0.971)	185197	80.0000	78.787 (Q)
79	Acenaphthylene	152	8.116	8.116	(0.968)	992602	80.0000	79.476
81	3-Nitroaniline	138	8.378	8.378	(0.999)	191726	80.0000	79.480
82	Acenaphthene	153	8.445	8.445	(1.007)	598204	80.0000	78.985
83	2,4-Dinitrophenol	184	8.559	8.559	(1.021)	137267	80.0000	82.460
85	4-Nitrophenol	109	8 700	8.700	(1.038)	160863	80.0000	78.927
86	Dibenzofuran	168	8.734	8.734	(1.042)	912668	80 0000	79.190
87	2,4-Dinitrotoluene	165	8 861	8.861	(1.057)	252781	80.0000	79.930
91	2,3,5,6-Tetrachlorophenol	232	8 976	8.976	(1.071)	227955	80.0000	79.894
88	2,3,4,6-Tetrachlorophenol	232	9.063	9.063	(1.081)	232064	80.0000	81.388
92	2-Naphthylamine	143	9.049	9.049	(1.079)	591516	80.0000	80 654
93	Diethylphthalate	149	9.372	9.372	(1.118)	848826	80 0000	79.735
94	Fluorene	166	9 392	9.392	(1.120)	735036	80.0000	79.367
95	4-Chlorophenyl-phenylether	204	9.426	9.426	(1.124)	365284	80 0000	78.274
96	4-Nitroaniline	138	9.553	9.553	(1.139)	180037	80.0000	79.279
98	4,6-Dinitro-2-methylphenol	198	9.634	9.634	(0 855)	171612	80.0000	80.158
99	N-Nitrosodiphenylamine (1)	169	9.688	9.688	(0.860)	517366	80.0000	78.178
100	1,2-Diphenylhydrazine	77	9.735	9.735	(0 864)	738684	80.0000	76.182
106	4-Bromophenyl-phenylether	248	10.393	10 393	(0 922)	239150	80 0000	79.586
107	Hexachlorobenzene	284	10.648	10.648	(0.945)	313229	80.0000	79.134
111	Pentachlorophenol	266	11.031	11.031	(0.979)	202525	80.0000	80.630 (Q)
115	Phenanthrene	178	11 320	11.320	(1.005)	1037481	80.0000	79.464
116	Anthracene	178	11.414	11.414	(1.013)	1036135	80.0000	78.352
119	Carbazole	167	11.797	11.797	(1.047)	898910	80 0000	79.533 (Q)
120	Di-n-Butylphthalate	149	12.832	12 832	(1 139)	1326647	80 0000	80.185
123	Fluoranthene	202	13.893	13.893	(1.233)	1079606	80 0000	79.845
124	Benzidine	184	14.289	14 289	(0 835)	560516	80 0000	80.400
125	Pyrene	202	14.370	14 370	(0 840)	1024832	80.0000	79.056
131	Butylbenzylphthalate	149	16.143	16.143	(0.944)	535408	80.0000	79.870
135	3,3'-Dichlorobenzidine	252	17.138	17 138	(1.002)	418389	80.0000	79.998
136	Benzo(a)Anthracene	228	17.071	17.071	(0 998)	927100	80 0000	79.211

673 1276

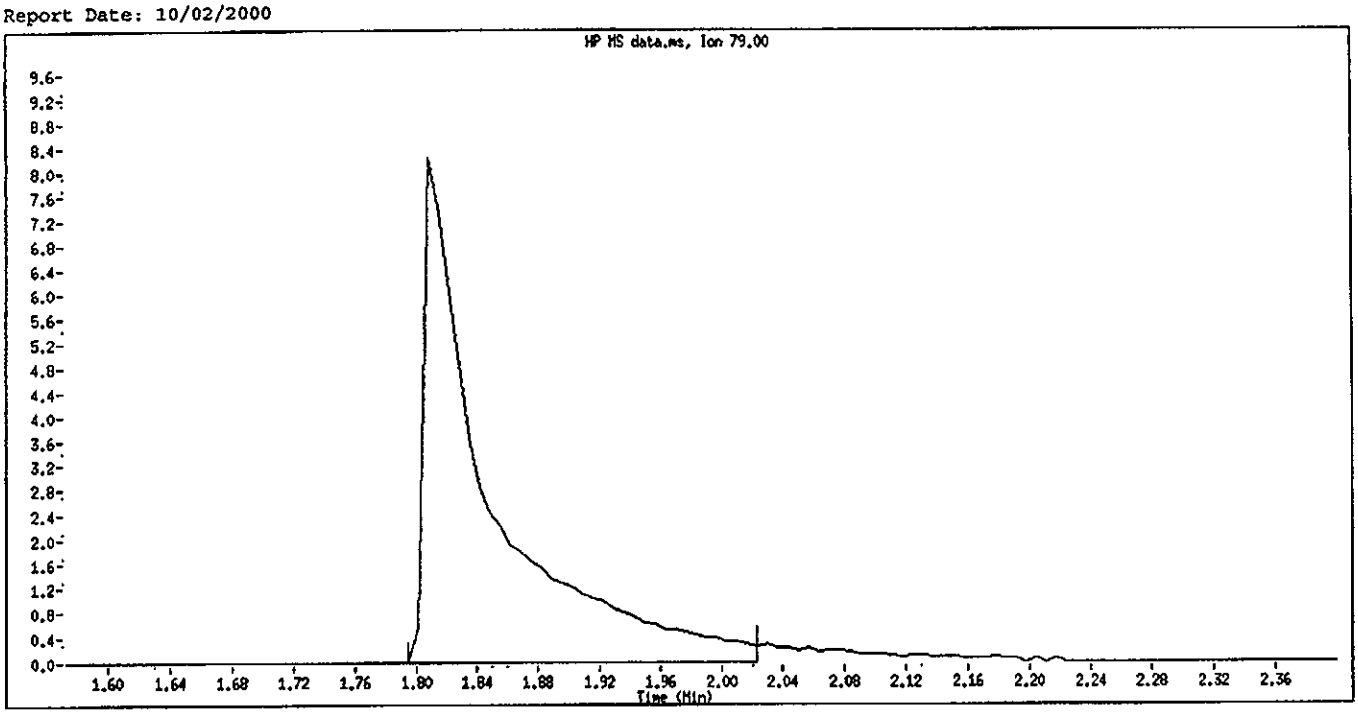
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	17.165	17.165	(1.004)	864919	80.0000	79.533
139 bis(2-ethylhexyl)Phthalate	149	17 561	17.561	(1.027)	717683	80.0000	79.773
140 Di-n-octylphthalate	149	18.878	18.878	(0.941)	1221404	80 0000	78.938
141 Benzo(b)fluoranthene	252	19.361	19.361	(0.965)	914013	80.0000	74.257
142 Benzo(k)fluoranthene	252	19.415	19.415	(0.968)	920223	80.0000	80.728
143 7,12-dimethylbenz[a]anthracen	256	19.428	19.428	(0.968)	453374	80 0000	79.598
146 Benzo(a)pyrene	252	19 966	19.966	(0.995)	803926	80.0000	78.877
149 Indeno(1,2,3-cd)pyrene	276	21.948	21.948	(1 094)	887562	80.0000	75.694
150 Dibenz(a,h)anthracene	278	22.001	22.001	(1.096)	889963	80.0000	76 239
151 Benzo(g,h,i)perylene	276	22.364	22.364	(1.114)	807723	80.0000	76.643
$ 154 Nitrobenzene-d5	82	5 119	5 119	(0.879)	390830	80.0000	80.497
$ 155 2-Fluorobiphenyl	172	7 276	7.276	(0.868)	771603	80.0000	80.433
$ 156 Terphenyl-d14	244	14.867	14.867	(0.869)	905649	80.0000	79 912
$ 157 Phenol-d5	99	4.347	4.347	(0.945)	425548	80.0000	80.650
$ 158 2-Fluorophenol	112	3.541	3.541	(0.769)	338228	80.0000	80.157
$ 159 2,4,6-Tribromophenol	330	9.903	9.903	(0.879)	187278	80.0000	79 821
$ 186 2-Chlorophenol-d4	132	4.441	4.441	(0.965)	346496	80.0000	80.245
$ 187 1,2-Dichlorobenzene-d4	152	4.763	4.763	(1.035)	267543	80.0000	80.613

QC Flag Legend

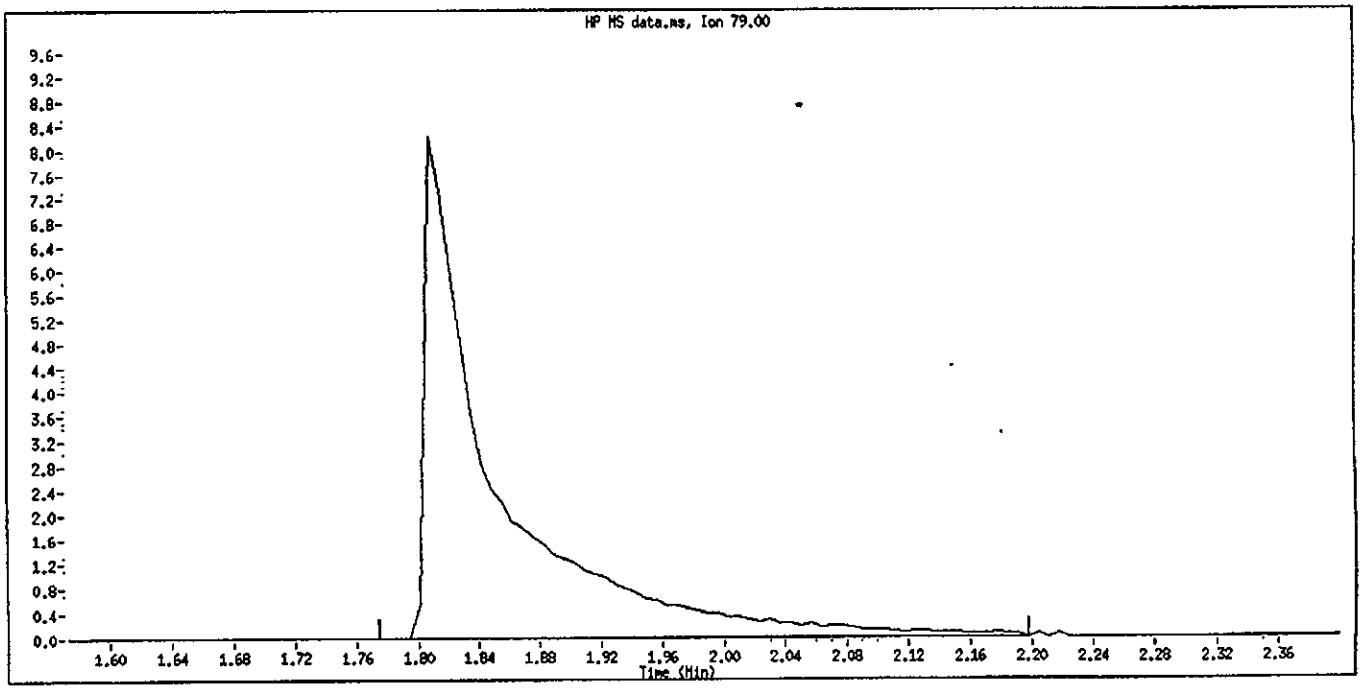
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name. D1002CC3.D
Inj. Date and Time· 02-OCT-2000 11:22
Instrument ID. 721.i
Client ID: SSTD080
Compound Name: Pyridine
CAS #· 110-86-1
Report Date: 10/02/2000

673 1277



Original Integration

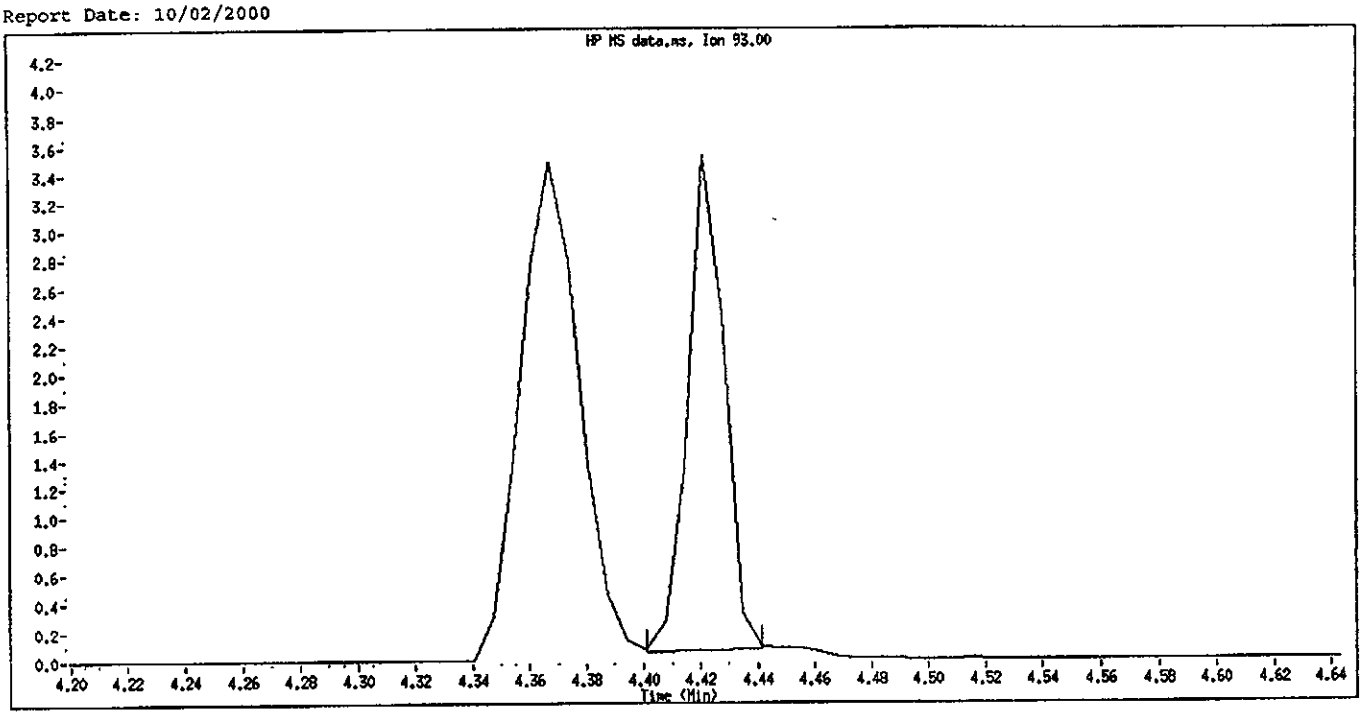


Manual Integration

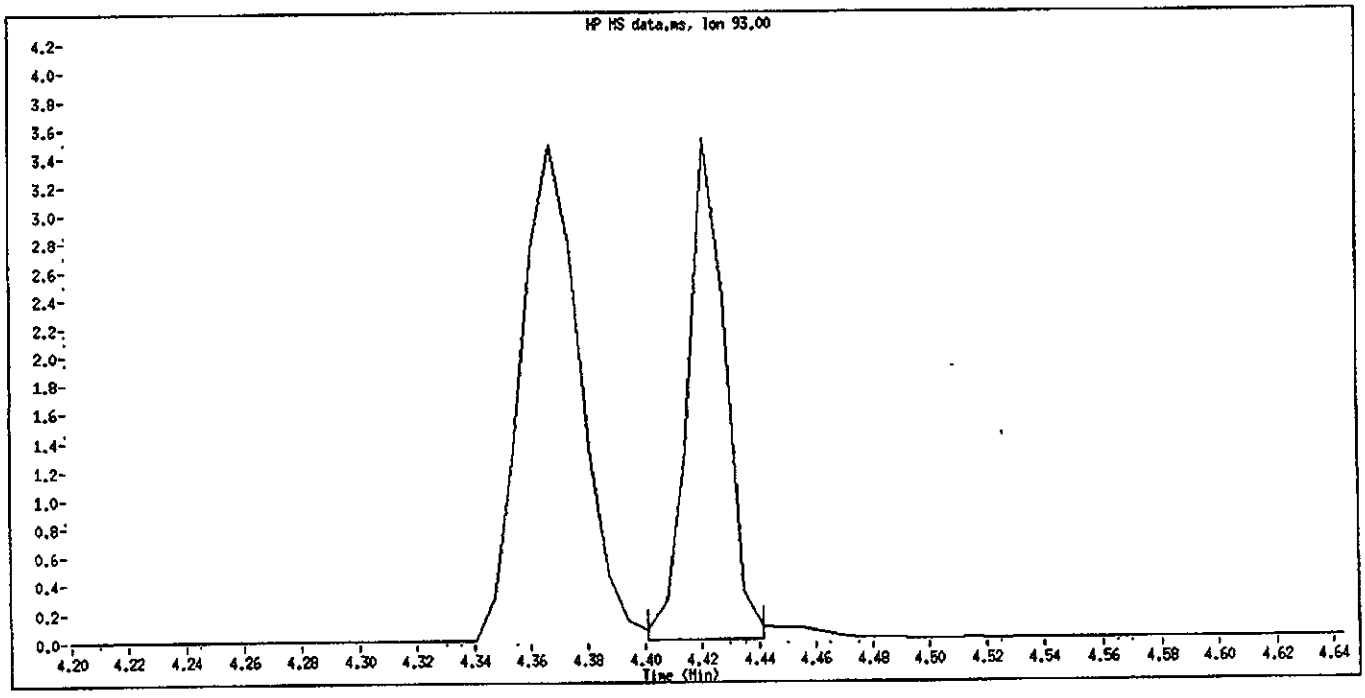
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name. D1002CC3.D
Inj. Date and Time: 02-OCT-2000 11:22
Instrument ID. 721 1
Client ID. SSTD080
Compound Name: bis(2-Chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/02/2000

673 1278



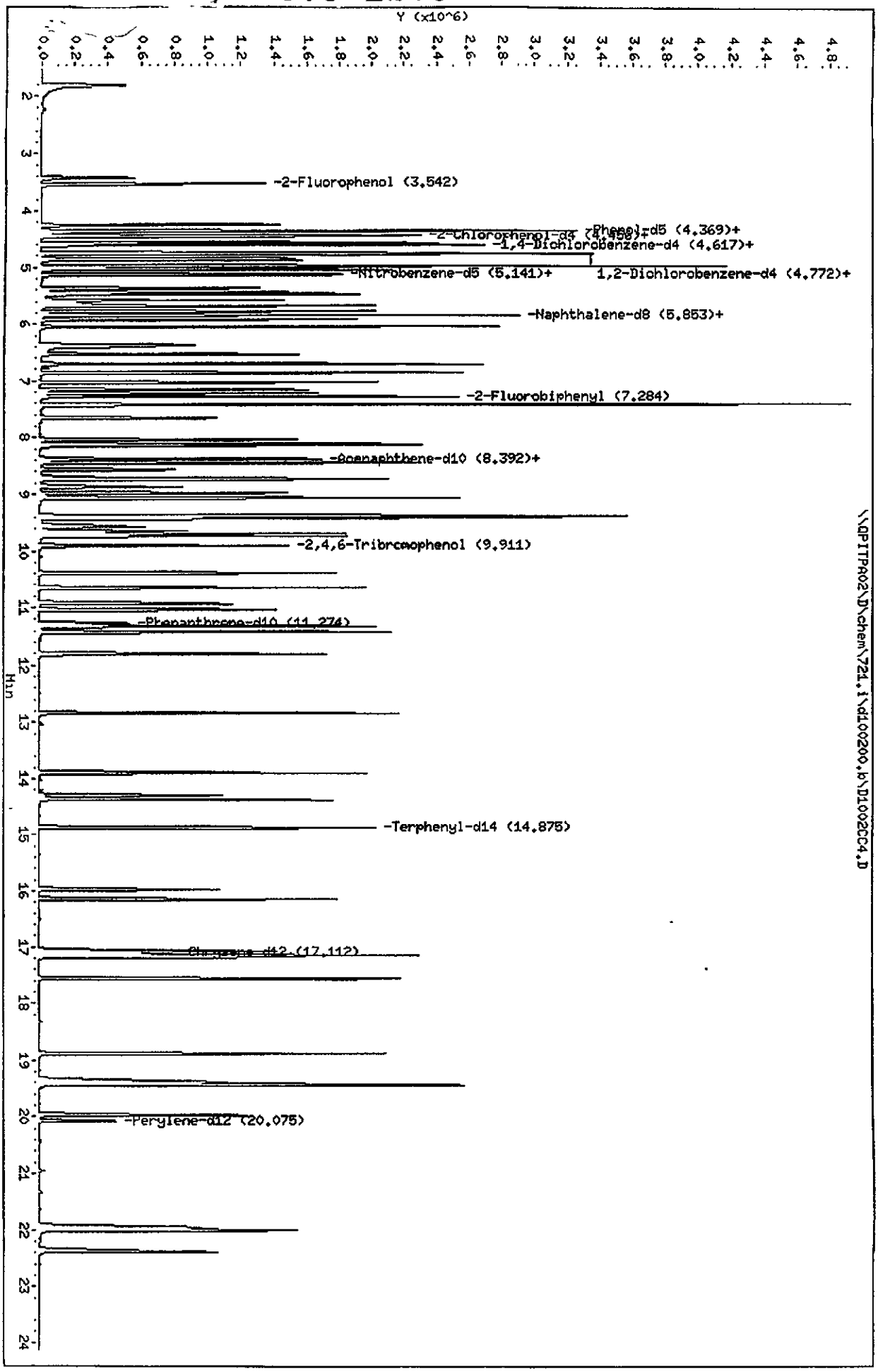
Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Unknown

673 1279



Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002C04.D
Date : 02-OCT-2000 11:52
Client ID: SSTD120
Sample Info: sstd120 (60ug/ml) 77-01-8 8270c/olp/625
Column phase: Hp5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25

673 1280

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d100200.b\D1002CC4.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 02-OCT-2000 11:52
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd120 (60ug/ml) 77-01-8 8270c/clp/625
Misc Info : sstd120,d100200.b,8270c.m,3-root.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\721.i\d100200.b\8270c.m
Meth Date : 02-Oct-2000 13:33 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 10:22 Cal File: D1002CC1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-2-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
*	1 1,4-Dichlorobenzene-d4	152	4.603	4.603	(1.000)	138047	40.0000		(Q)
*	2 Naphthalene-d8	136	5.826	5 826	(1.000)	450274	40.0000		
*	3 Acenaphthene-d10	164	8.392	8.392	(1.000)	267307	40.0000		
*	4 Phenanthrene-d10	188	11.274	11.274	(1.000)	473954	40.0000		
*	5 Chrysene-d12	240	17.112	17.112	(1.000)	425703	40 0000		
*	6 Perylene-d12	264	20.074	20.074	(1.000)	315676	40 0000		
	10 N-Nitrosodimethylamine	74	1.835	1.835	(0.399)	234060	120.000	119.56	
	9 Pyridine	79	1.808	1.808	(0.393)	418767	120 000	125 77	(M)
	16 Methyl methanesulfonate	80	3.434	3.434	(0.746)	363473	120.000	120.68	
	21 Aniline	93	4.375	4.375	(0.950)	785527	120.000	123.76	(M)
	22 Phenol	94	4.368	4.368	(0.949)	678871	120.000	120.94	
	23 bis(2-Chloroethyl)ether	93	4.428	4 428	(0.962)	490114	120.000	119.40	(M)
	24 2-Chlorophenol	128	4.462	4.462	(0.969)	560729	120.000	120.76	
	26 1,3-Dichlorobenzene	146	4 576	4.576	(0.994)	610909	120.000	120.89	
	27 1,4-Dichlorobenzene	146	4.617	4.617	(1.003)	633681	120.000	120.59	
	28 1,2-Dichlorobenzene	146	4.778	4.778	(1.038)	598871	120.000	122.37	
	29 Benzyl Alcohol	108	4 751	4.751	(1.032)	370358	120.000	124.23	
	30 2-Methylphenol	108	4.858	4 858	(1.055)	456750	120.000	119.67	
	31 2,2'-oxybis(1-Chloropropane)	45	4.879	4.879	(1.060)	605504	120.000	120.06	(Q)
	32 N-Nitroso-di-n-propylamine	70	5.026	5.026	(1.092)	338197	120.000	121 07	
	192 4-Methylphenol	108	4.986	4 986	(1.083)	503646	120.000	121.41	
	34 Hexachloroethane	117	5.047	5.047	(1.096)	277322	120.000	120.70	
	35 Nitrobenzene	77	5.147	5.147	(0.884)	550988	120.000	124.25	
	41 Isophorone	82	5.376	5.376	(0.923)	903061	120 000	122.12	
	42 2-Nitrophenol	139	5.450	5.450	(0 935)	307388	120.000	123.24	
	43 2,4-Dimethylphenol	107	5.483	5.483	(0.941)	527643	120.000	123.77	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.591	5 591	(0.960)	562438	120.000	122.45
48 2,4-Dichlorophenol	162	5 691	5.691	(0 977)	488645	120 000	125.82
49 Benzoic Acid	122	5.678	5.678	(0.975)	337347	120.000	123.95 (M)
50 1,2,4-Trichlorobenzene	180	5.785	5.785	(0.993)	533671	120.000	124.32
51 Naphthalene	128	5.853	5.853	(1.005)	1492422	120.000	123.50
52 4-Chloroaniline	127	5.933	5.933	(1.018)	614207	120.000	124.03
56 Hexachlorobutadiene	225	6.054	6.054	(1.039)	369205	120 000	127.58 (Q)
59 4-Chloro-3-Methylphenol	107	6.545	6.545	(1.123)	447280	120 000	122.40
62 2-Methylnaphthalene	142	6.713	6.713	(1.152)	949813	120.000	124.84
63 1-Methylnaphthalene	142	6.867	6.867	(1.179)	917230	120.000	125.74
64 Hexachlorocyclopentadiene	237	7.035	7.035	(0.838)	439389	120.000	125.33
66 2,4,6-Trichlorophenol	196	7.163	7.163	(0.854)	360074	120 000	123.64
67 2,4,5-Trichlorophenol	196	7.223	7.223	(0.861)	376185	120 000	120 82
70 2-Chloronaphthalene	162	7.431	7.431	(0.886)	1010386	120.000	123.48
73 2-Nitroaniline	65	7.660	7.660	(0.913)	301909	120 000	120.97
76 Dimethylphthalate	163	8.049	8.049	(0.959)	1162324	120.000	121.76
78 2,6-Dinitrotoluene	165	8.157	8.157	(0 972)	281920	120.000	121 99 (Q)
79 Acenaphthylene	152	8 123	8 123	(0.968)	1486897	120.000	121.09
81 3-Nitroaniline	138	8.392	8 392	(1.000)	289774	120.000	122.18
82 Acenaphthene	153	8.459	8.459	(1.008)	920754	120.000	123.66
83 2,4-Dinitrophenol	184	8.573	8.573	(1.022)	215375	120.000	131.60
85 4-Nitrophenol	109	8 728	8.728	(1 040)	248676	120.000	124.10 (Q)
86 Dibenzofuran	168	8.748	8.748	(1.042)	1393476	120 000	122.98
87 2,4-Dinitrotoluene	165	8.882	8.882	(1.058)	379185	120.000	121.95
91 2,3,5,6-Tetrachlorophenol	232	8.983	8 983	(1.070)	346717	120 000	123.60
88 2,3,4,6-Tetrachlorophenol	232	9.084	9.084	(1.082)	352107	120.000	125.60
92 2-Naphthylamine	143	9 071	9.071	(1 081)	883492	120 000	122.53
93 Diethylphthalate	149	9.386	9.386	(1.118)	1303441	120.000	124.54
94 Fluorene	166	9.400	9.400	(1.120)	1138120	120.000	125.00
95 4-Chlorophenyl-phenylether	204	9.433	9 433	(1.124)	567030	120.000	123.59
96 4-Nitroaniline	138	9.581	9.581	(1.142)	272262	120.000	121.94
98 4,6-Dinitro-2-methylphenol	198	9.662	9.662	(0 857)	262641	120.000	125.27
99 N-Nitrosodiphenylamine (1)	169	9.702	9.702	(0.861)	801587	120.000	123 69
100 1,2-Diphenylhydrazine	77	9.749	9.749	(0.865)	1206060	120.000	127.01
106 4-Bromophenyl-phenylether	248	10.401	10.401	(0.923)	367117	120.000	124.75
107 Hexachlorobenzene	284	10.663	10.663	(0.946)	486462	120.000	125.50
111 Pentachlorophenol	266	11 046	11 046	(0.980)	308827	120 000	125 55 (Q)
115 Phenanthrene	178	11.328	11.328	(1.005)	1559105	120.000	121.94
116 Anthracene	178	11.428	11 428	(1.014)	1581836	120.000	122.15
119 Carbazole	167	11.811	11.811	(1.048)	1358594	120.000	122.75 (Q)
120 Di-n-Butylphthalate	149	12.846	12.846	(1.139)	1979345	120.000	122.16
123 Fluoranthene	202	13 907	13.907	(1 234)	1616927	120.000	122 11
124 Benzidine	184	14.297	14.297	(0.836)	833770	120 000	124.53
125 Pyrene	202	14.378	14.378	(0.840)	1530229	120 000	122.92
131 Butylbenzylphthalate	149	16.151	16.151	(0.944)	794962	120.000	123.49
135 3,3'-Dichlorobenzidine	252	17.152	17.152	(1.002)	641902	120.000	127.80
136 Benzo(a)Anthracene	228	17.078	17.078	(0 998)	1389682	120.000	123.64

673 1282

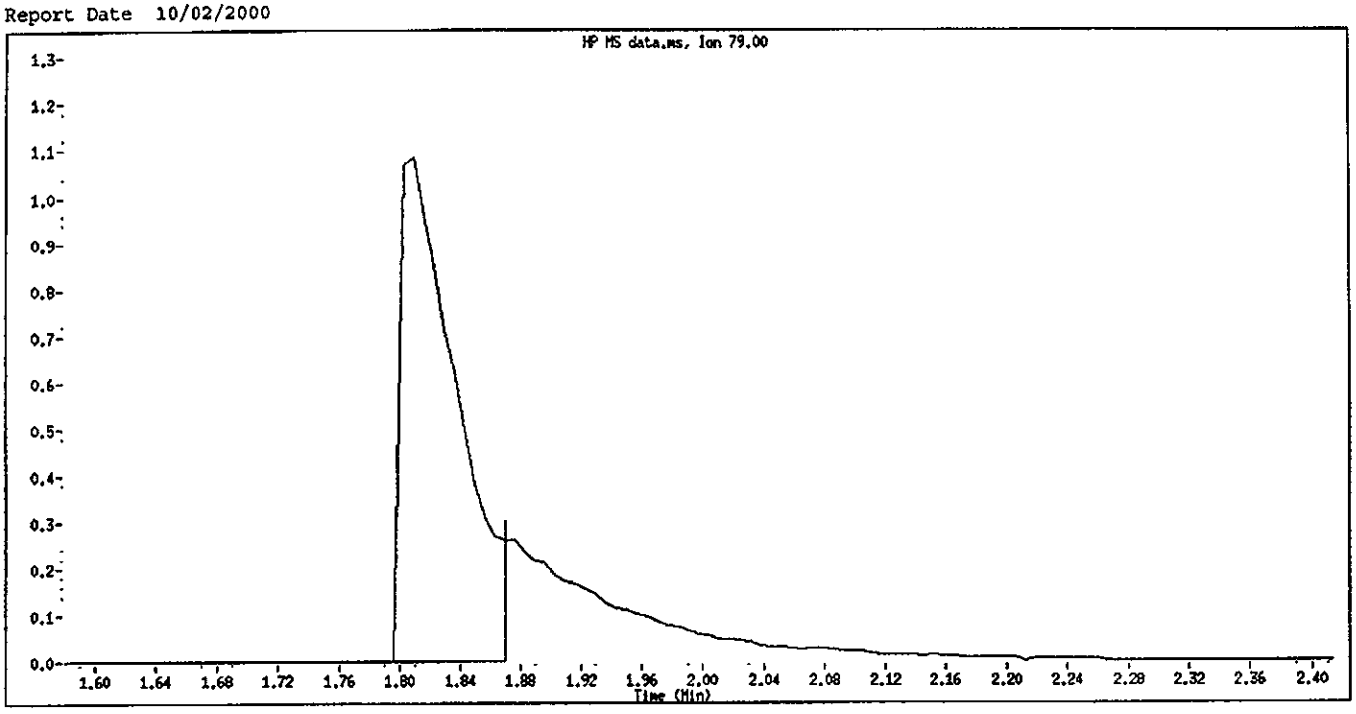
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	17.186	17.186	(1.004)	1290717	120.000	123.59
139 bis(2-ethylhexyl)Phthalate	149	17.569	17.569	(1.027)	1074764	120.000	124.40
140 Di-n-octylphthalate	149	18.885	18.885	(0.941)	1825391	120.000	127 27
141 Benzo(b)fluoranthene	252	19.389	19.389	(0.966)	1570943	120.000	137.68
142 Benzo(k)fluoranthene	252	19 443	19.443	(0.969)	1205563	120.000	114.10(M)
143 7,12-dimethylbenz[a]anthracen	256	19.450	19.450	(0.969)	695911	120.000	131.81
146 Benzo(a)pyrene	252	19.980	19.980	(0.995)	1195876	120.000	126.58
149 Indeno(1,2,3-cd)pyrene	276	21.962	21.962	(1 094)	1417303	120.000	130.40
150 Dibenz(a,h)anthracene	278	22.016	22.016	(1.097)	1422850	120.000	131.49
151 Benzo(g,h,i)perylene	276	22.385	22.385	(1.115)	1243974	120.000	127.34
$ 154 Nitrobenzene-d5	82	5.127	5.127	(0.880)	584208	120.000	123.56
$ 155 2-Fluorobiphenyl	172	7.284	7.284	(0.868)	1146596	120 000	121.57
$ 156 Terphenyl-d14	244	14.875	14.875	(0.869)	1351737	120 000	124.20
$ 157 Phenol-d5	99	4.355	4.355	(0.946)	643479	120 000	121.32
$ 158 2-Fluorophenol	112	3.542	3.542	(0.769)	513823	120.000	121.14
$ 159 2,4,6-Tribromophenol	330	9.910	9.910	(0.879)	292741	120.000	127.41
$ 186 2-Chlorophenol-d4	132	4.449	4.449	(0.966)	528928	120.000	121.86
$ 187 1,2-Dichlorobenzene-d4	152	4.764	4.764	(1 035)	405319	120 000	121.49

QC Flag Legend

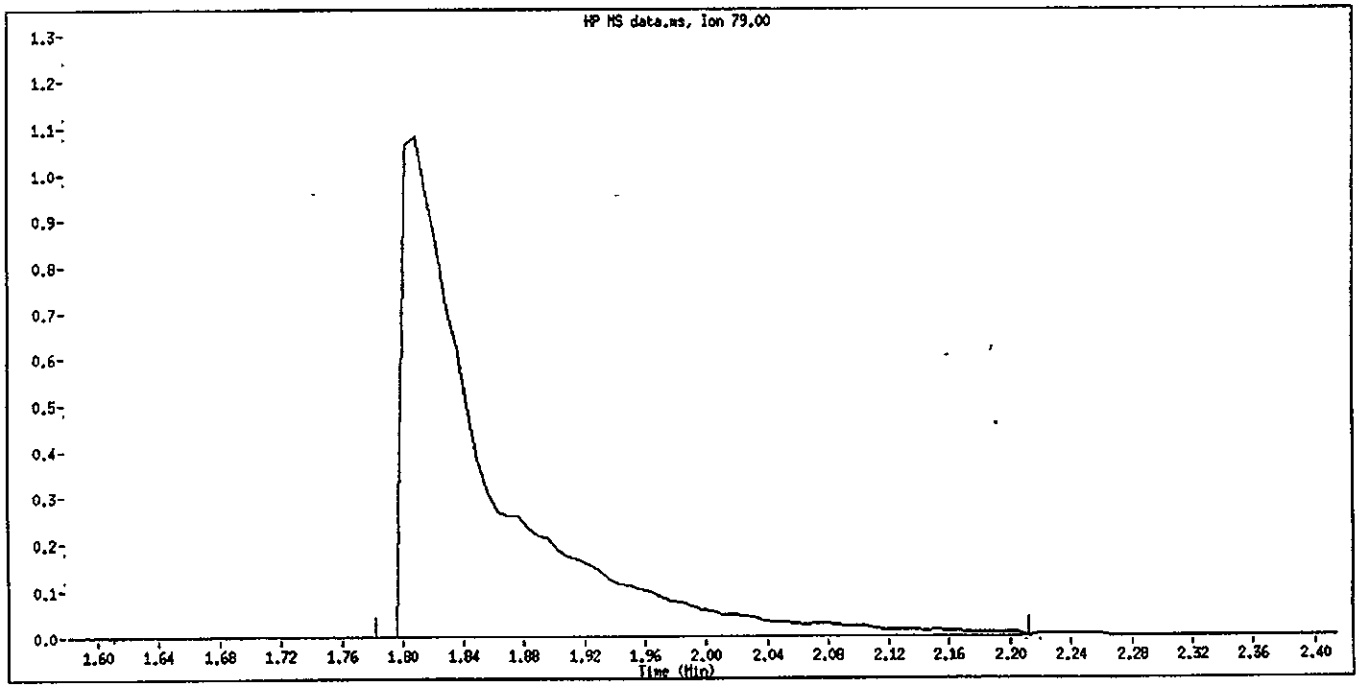
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

673 1283

Data File Name: D1002CC4.D
Inj. Date and Time 02-OCT-2000 11:52
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Pyridine
CAS #: 110-86-1
Report Date 10/02/2000



Original Integration

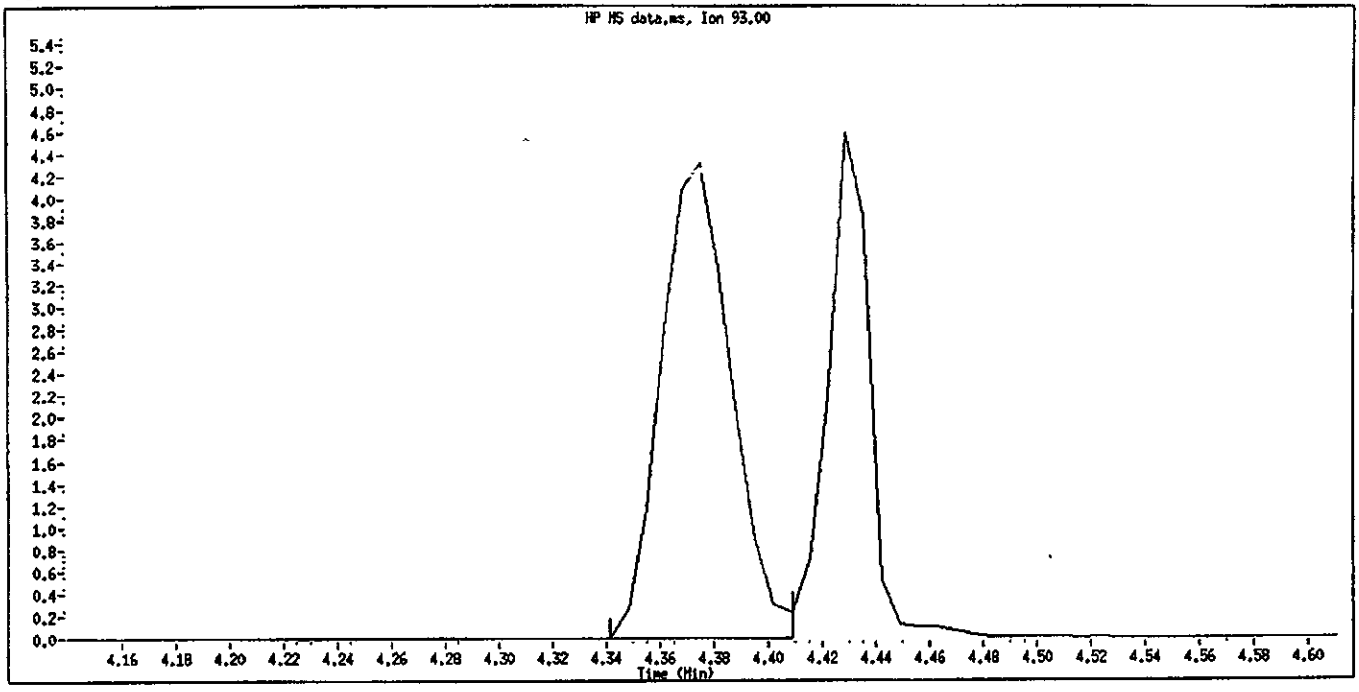


Manual Integration

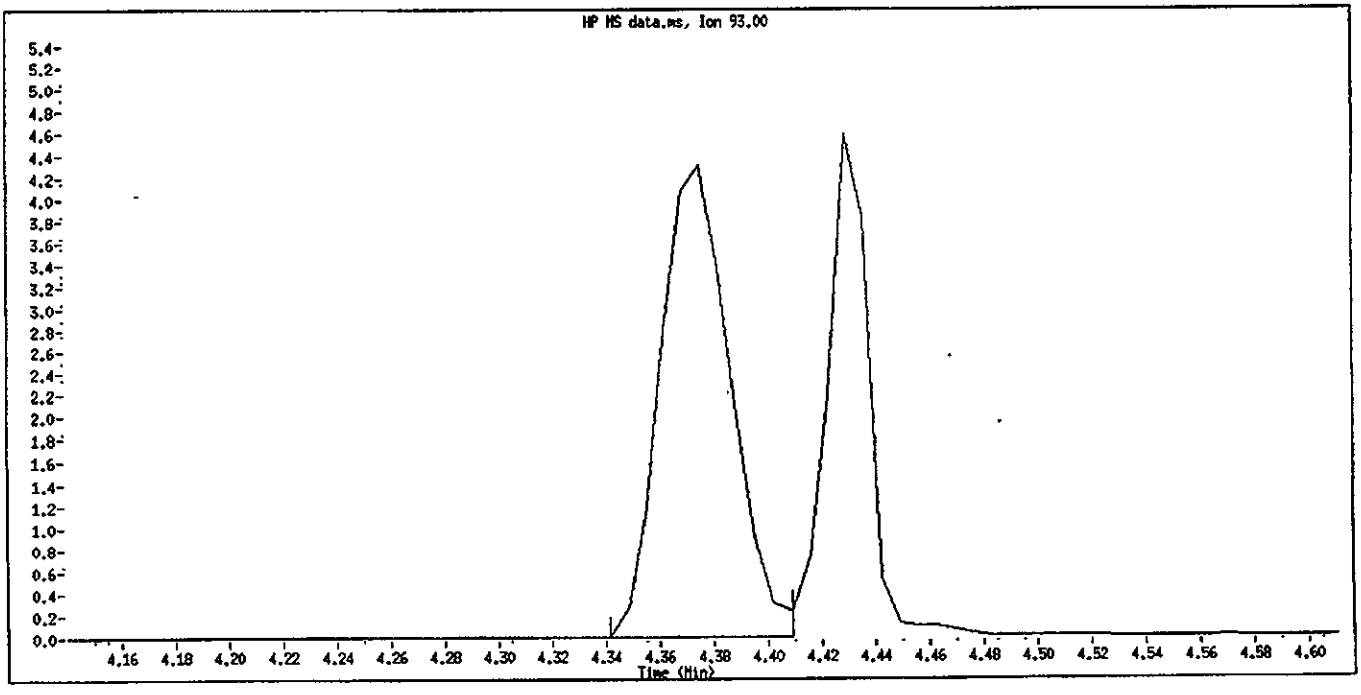
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1002CC4.D
Inj. Date and Time: 02-OCT-2000 11:52
Instrument ID: 721 i
Client ID: SSTD120
Compound Name: Aniline
CAS #: 62-53-3
Report Date 10/02/2000

673 1284



Original Integration

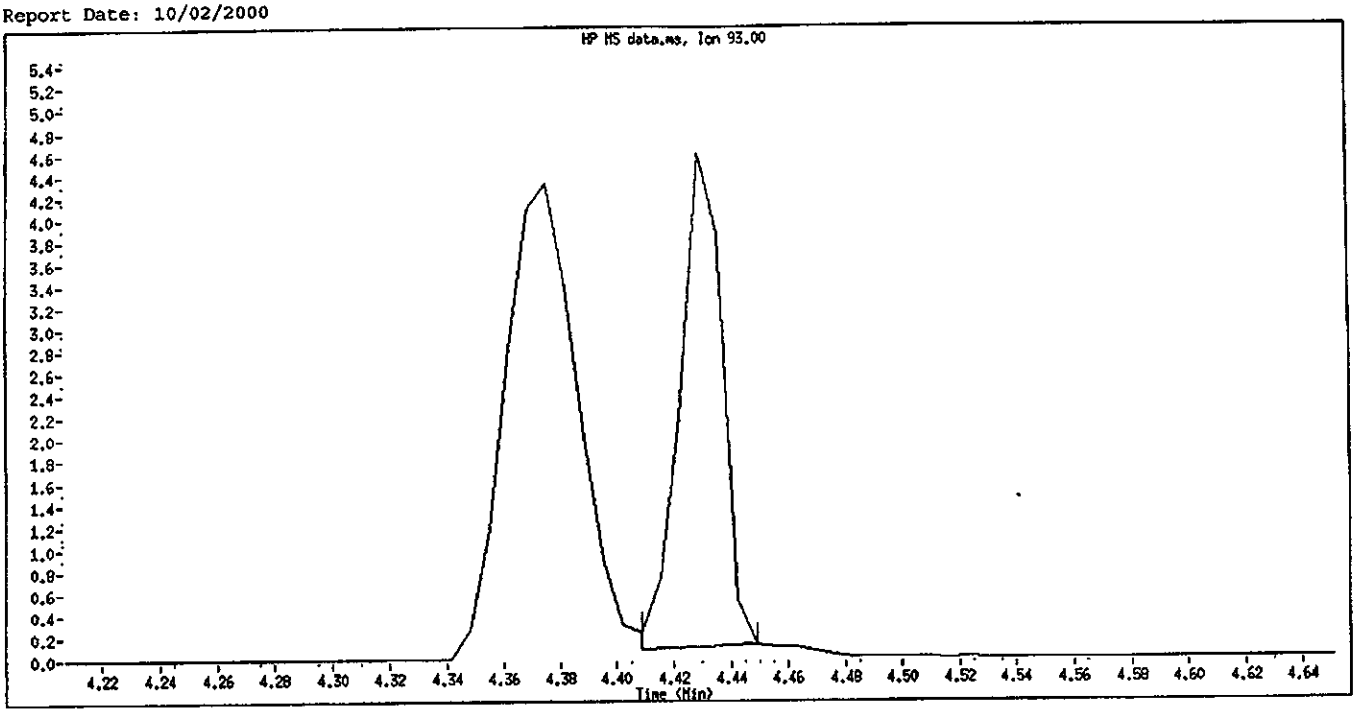


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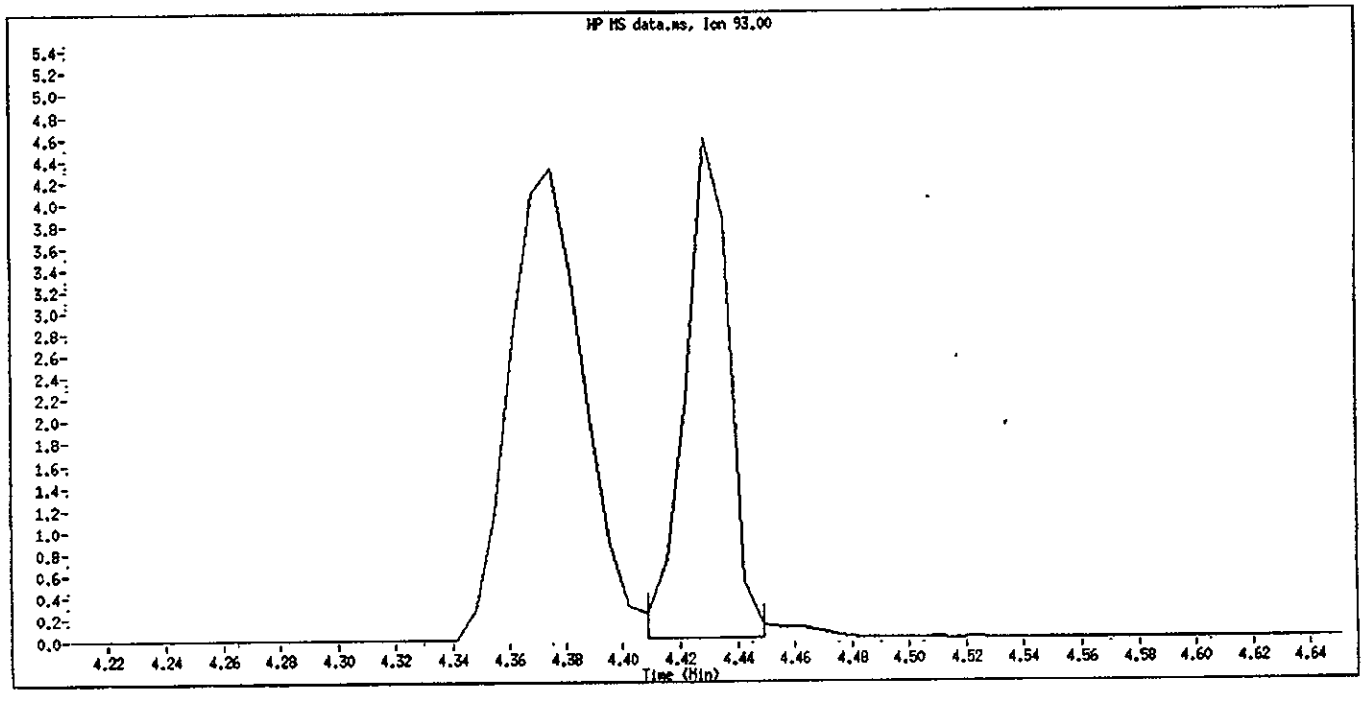
Manually Integrated By: FergusonD
Manual Integration Reason: Unknown

673 1285

Data File Name: D1002CC4.D
Inj. Date and Time: 02-OCT-2000 11.52
Instrument ID 721.i
Client ID: SSTD120
Compound Name: bis(2-Chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/02/2000



Original Integration

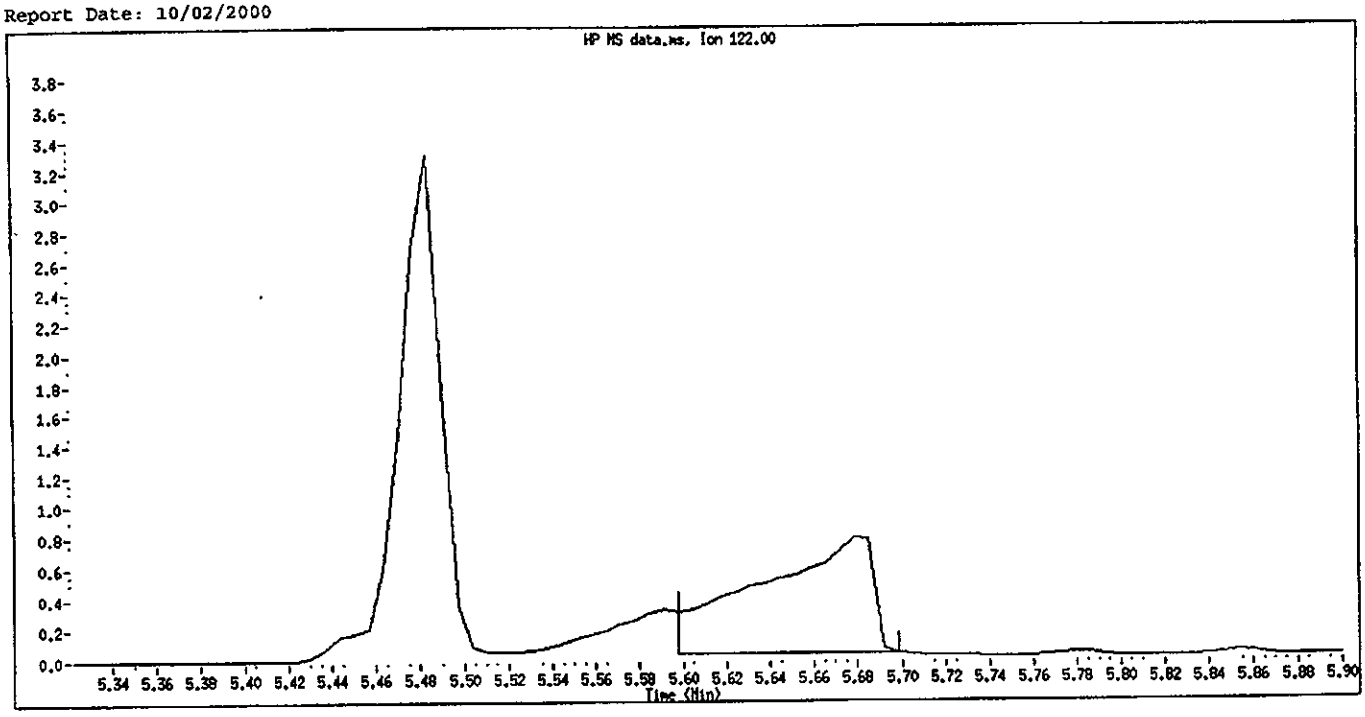


Manual Integration

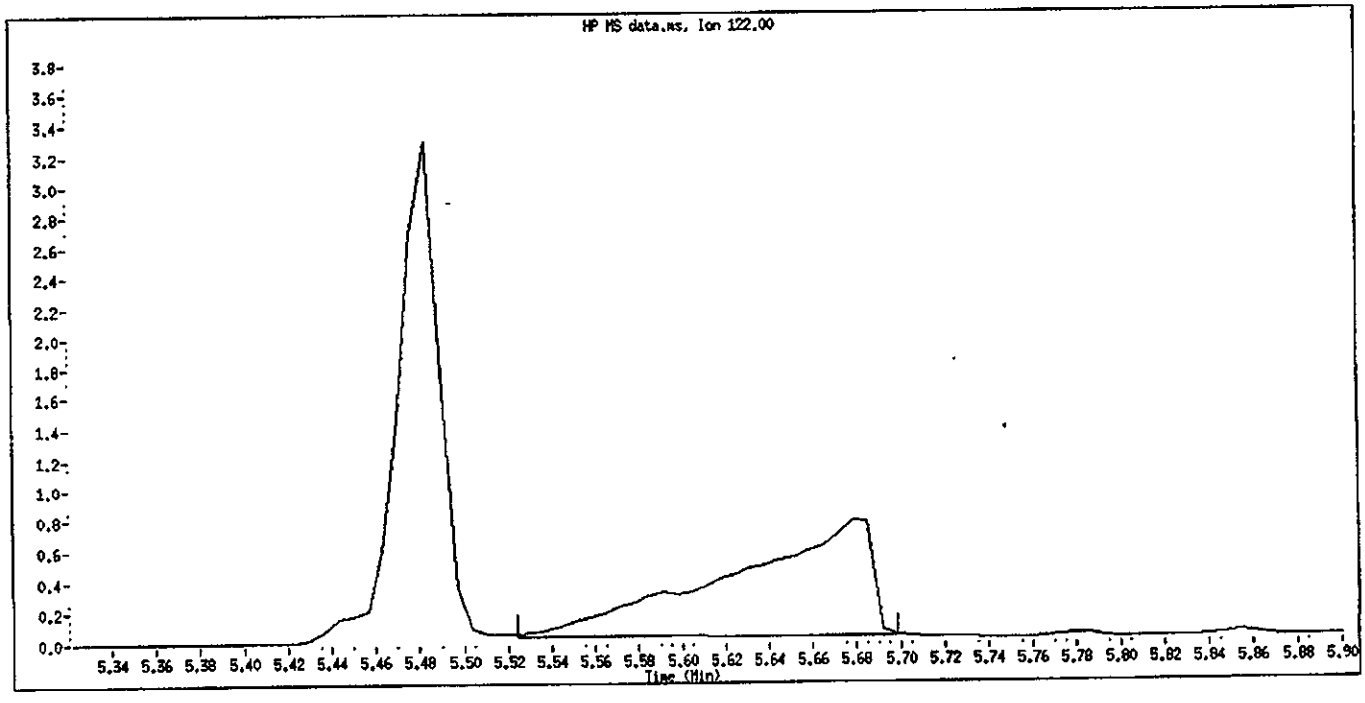
Manually Integrated By: FergusonD
Manual Integration Reason: Unknown

Data File Name: D1002CC4.D
Inj Date and Time: 02-OCT-2000 11:52
Instrument ID: 721.1
Client ID: SSTD120
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 10/02/2000

673 1286



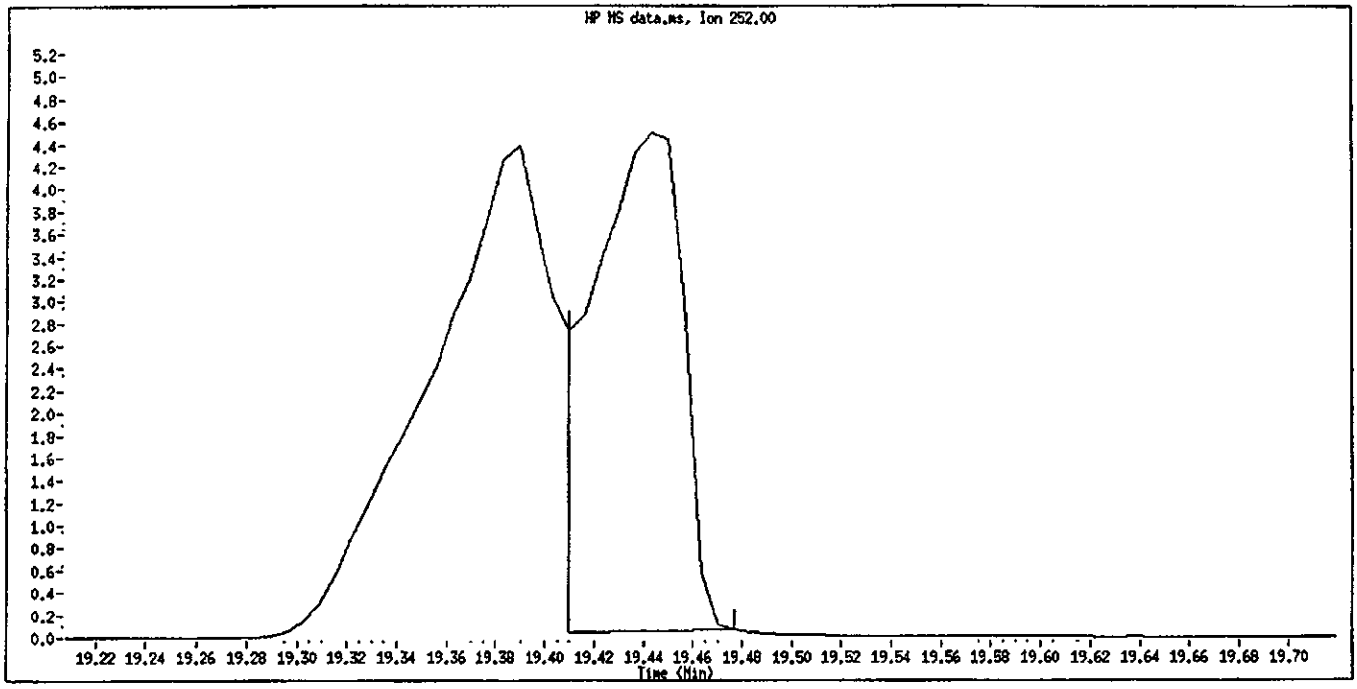
Original Integration



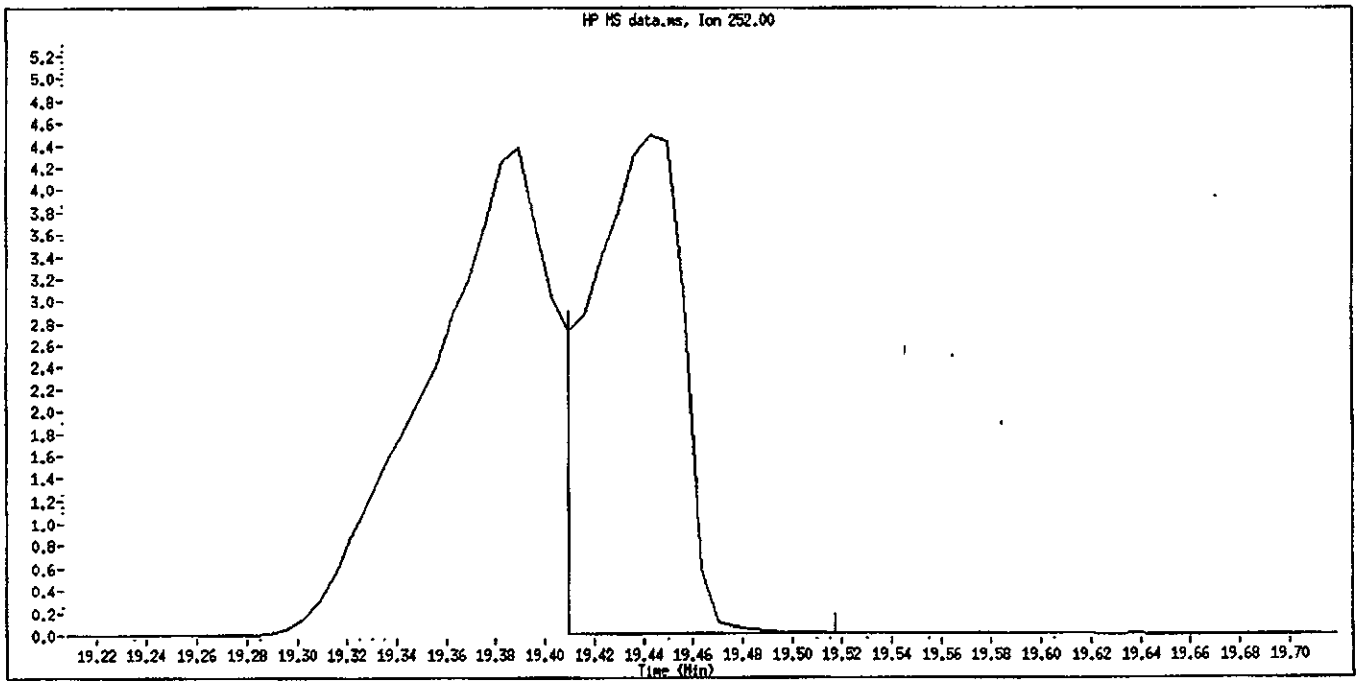
Manual Integration

Manually Integrated By. FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1002CC4.D
Inj. Date and Time: 02-OCT-2000 11.52
Instrument ID: 721.i
Client ID SSTD120
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/02/2000

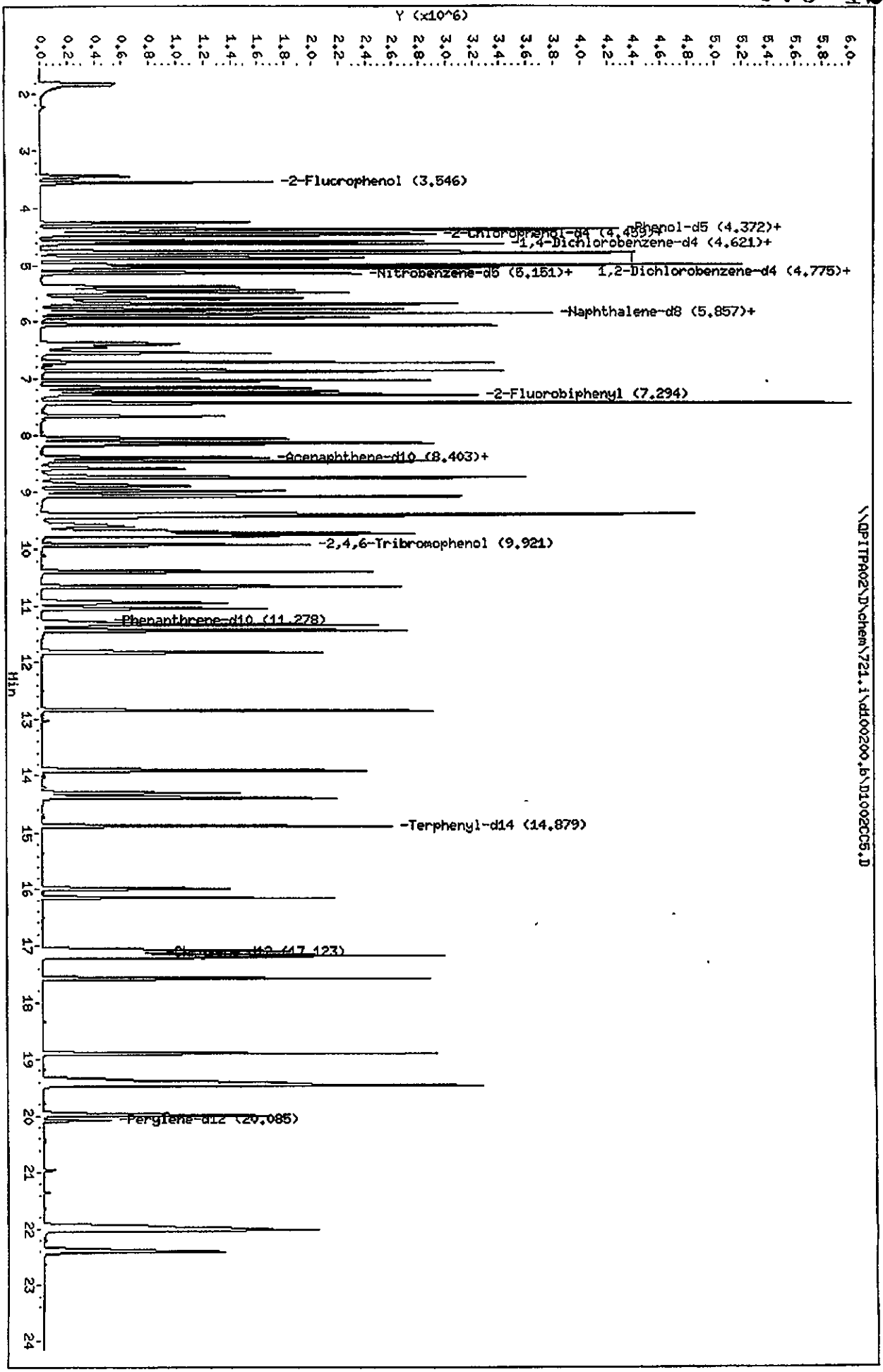


Original Integration



Manual Integration

Manually Integrated By. FergusonD
Manual Integration Reason: Poor Chromatography



Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002CC5.D
Date : 02-OCT-2000 12:23
Client ID: SSTD160
Sample Info: sstd160 (80ug/ml) 77-04-9 8270c/olp/625
Column phase: Hp5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002CC5.D
Report Date: 02-Oct-2000 13:35

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d100200.b\D1002CC5.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 02-OCT-2000 12:23
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd160 (80ug/ml) 77-01-9 8270c/clp/625
Misc Info : sstd160,d100200.b,8270c.m,3-root.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\721.i\d100200.b\8270c.m
Meth Date : 02-Oct-2000 13:35 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-2-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.607	4.607	(1.000)	139461	40.0000	(Q)
* 2 Naphthalene-d8	136	5.829	5.829	(1.000)	455535	40.0000	
* 3 Acenaphthene-d10	164	8.396	8.396	(1.000)	270594	40 0000	
* 4 Phenanthrene-d10	188	11.277	11.277	(1.000)	466452	40.0000	
* 5 Chrysene-d12	240	17.122	17.122	(1.000)	429408	40.0000	
* 6 Perylene-d12	264	20.085	20.085	(1.000)	317088	40 0000	
10 N-Nitrosodimethylamine	74	1.839	1.839	(0.399)	304555	160.000	154.00
9 Pyridine	79	1.805	1.805	(0.392)	499103	160.000	148.38(M)
16 Methyl methanesulfonate	80	3.444	3.444	(0 748)	482969	160.000	158.74
21 Aniline	93	4.372	4.372	(0 949)	1035695	160.000	161.52(A)
22 Phenol	94	4.378	4 378	(0 950)	897526	160.000	158.27
23 bis(2-Chloroethyl)ether	93	4.439	4 439	(0.964)	660192	160.000	159.20(M)
24 2-Chlorophenol	128	4 466	4.466	(0.969)	764290	160.000	162.93(A)
26 1,3-Dichlorobenzene	146	4.573	4.573	(0.993)	830677	160 000	162.71(A)
27 1,4-Dichlorobenzene	146	4.620	4.620	(1.003)	849327	160.000	159.98
28 1,2-Dichlorobenzene	146	4.781	4.781	(1.038)	802193	160 000	162.26(A)
29 Benzyl Alcohol	108	4.754	4.754	(1.032)	494030	160 000	164.03(A)
30 2-Methylphenol	108	4.862	4.862	(1.055)	616002	160.000	159.75
31 2,2'-oxybis(1-Chloropropane)	45	4.882	4.882	(1.060)	788859	160.000	154.82(Q)
32 N-Nitroso-di-n-propylamine	70	5.037	5.037	(1.093)	443173	160.000	157.04
192 4-Methylphenol	108	4 996	4.996	(1.085)	672557	160.000	160.48(A)
34 Hexachloroethane	117	5.050	5.050	(1.096)	377426	160.000	162 60(A)
35 Nitrobenzene	77	5.151	5 151	(0.884)	729443	160.000	162.60(A)
41 Isophorone	82	5.386	5.386	(0.924)	1214700	160.000	162.37(A)
42 2-Nitrophenol	139	5.453	5.453	(0.935)	411343	160.000	163.01(A)
43 2,4-Dimethylphenol	107	5.487	5.487	(0.941)	713954	160.000	165.54(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.594	5.594	(0.960)	745822	160.000	160.50(A)
48 2,4-Dichlorophenol	162	5.695	5.695	(0.977)	651179	160.000	165 74(A)
49 Benzoic Acid	122	5.702	5.702	(0.978)	498917	160.000	181.20(AM)
50 1,2,4-Trichlorobenzene	180	5.782	5.782	(0.992)	724944	160 000	166.93(A)
51 Naphthalene	128	5.856	5.856	(1.005)	2013969	160 000	164.73(A)
52 4-Chloroaniline	127	5.937	5.937	(1 018)	826252	160.000	164.92(A)
56 Hexachlorobutadiene	225	6.058	6.058	(1 039)	489607	160.000	167 23(AQ)
59 4-Chloro-3-Methylphenol	107	6.555	6.555	(1.124)	604658	160.000	163 56(A)
62 2-Methylnaphthalene	142	6.716	6.716	(1.152)	1268869	160.000	164.85(A)
63 1-Methylnaphthalene	142	6.871	6.871	(1.179)	1216945	160.000	164.90(A)
64 Hexachlorocyclopentadiene	237	7.032	7.032	(0.838)	600538	160.000	169.21(A)
66 2,4,6-Trichlorophenol	196	7.166	7.166	(0.854)	479353	160.000	162.60(A)
67 2,4,5-Trichlorophenol	196	7.233	7.233	(0.862)	507610	160.000	161 05(A)
70 2-Chloronaphthalene	162	7.442	7.442	(0 886)	1364304	160.000	164.70(A)
73 2-Nitroaniline	65	7.670	7.670	(0.914)	403112	160.000	159.56
76 Dimethylphthalate	163	8.060	8.060	(0.960)	1549522	160.000	160.34(A)
78 2,6-Dinitrotoluene	165	8.167	8.167	(0.973)	377006	160.000	161.15(AQ)
79 Acenaphthylene	152	8.134	8.134	(0.969)	1999738	160.000	160.88(A)
81 3-Nitroaniline	138	8.402	8.402	(1.001)	386833	160.000	161.13(A)
82 Acenaphthene	153	8.463	8.463	(1.008)	1225479	160.000	162.58(A)
83 2,4-Dinitrophenol	184	8.590	8.590	(1.023)	293112	160.000	176.92(A)
85 4-Nitrophenol	109	8.745	8.745	(1.042)	354879	160.000	174.95(AQ)
86 Dibenzofuran	168	8.752	8.752	(1.042)	1877701	160.000	163.70(A)
87 2,4-Dinitrotoluene	165	8.899	8.899	(1.060)	510881	160.000	162.31(A)
91 2,3,5,6-Tetrachlorophenol	232	8.993	8.993	(1.071)	474455	160.000	167.08(A)
88 2,3,4,6-Tetrachlorophenol	232	9.094	9.094	(1.083)	480039	160.000	169.16(A)
92 2-Naphthylamine	143	9.087	9.087	(1.082)	1171303	160.000	160.47(A)
93 Diethylphthalate	149	9.403	9.403	(1.120)	1764960	160 000	166.58(A)
94 Fluorene	166	9.410	9.410	(1.121)	1528413	160 000	165.82(A)
95 4-Chlorophenyl-phenylether	204	9.444	9.444	(1.125)	781088	160.000	168.17(A)
96 4-Nitroaniline	138	9.605	9.605	(1.144)	363166	160.000	160.68(A)
98 4,6-Dinitro-2-methylphenol	198	9.679	9.679	(0.858)	363041	160.000	175.94(A)
99 N-Nitrosodiphenylamine (1)	169	9.719	9.719	(0.862)	1074747	160.000	168.50(A)
100 1,2-Diphenylhydrazine	77	9.759	9.759	(0.865)	1581583	160.000	169.24(A)
106 4-Bromophenyl-phenylether	248	10.404	10.404	(0.923)	501006	160.000	172.99(A)
107 Hexachlorobenzene	284	10.666	10.666	(0.946)	656461	160.000	172.08(A)
111 Pentachlorophenol	266	11.056	11 056	(0.980)	415848	160 000	171.78(AQ)
115 Phenanthrene	178	11.338	11.338	(1.005)	2118310	160.000	168.34(A)
116 Anthracene	178	11.439	11 439	(1.014)	2103479	160.000	165.04(A)
119 Carbazole	167	11.822	11.822	(1.048)	1811964	160.000	166.34(AQ)
120 Di-n-Butylphthalate	149	12.849	12.849	(1.139)	2635971	160.000	165 31(A)
123 Fluoranthene	202	13.918	13.918	(1.234)	2178743	160.000	167.19(A)
124 Benzidine	184	14.307	14.307	(0.836)	1129952	160.000	167 32(A)
125 Pyrene	202	14.395	14.395	(0.841)	2038188	160.000	162 30(A)
131 Butylbenzylphthalate	149	16.155	16.155	(0.944)	1051073	160.000	161.86(A)
135 3,3'-Dichlorobenzidine	252	17.162	17.162	(1.002)	883421	160.000	174.37(A)
136 Benzo(a)Anthracene	228	17.095	17.095	(0.998)	1868694	160.000	164 82(A)

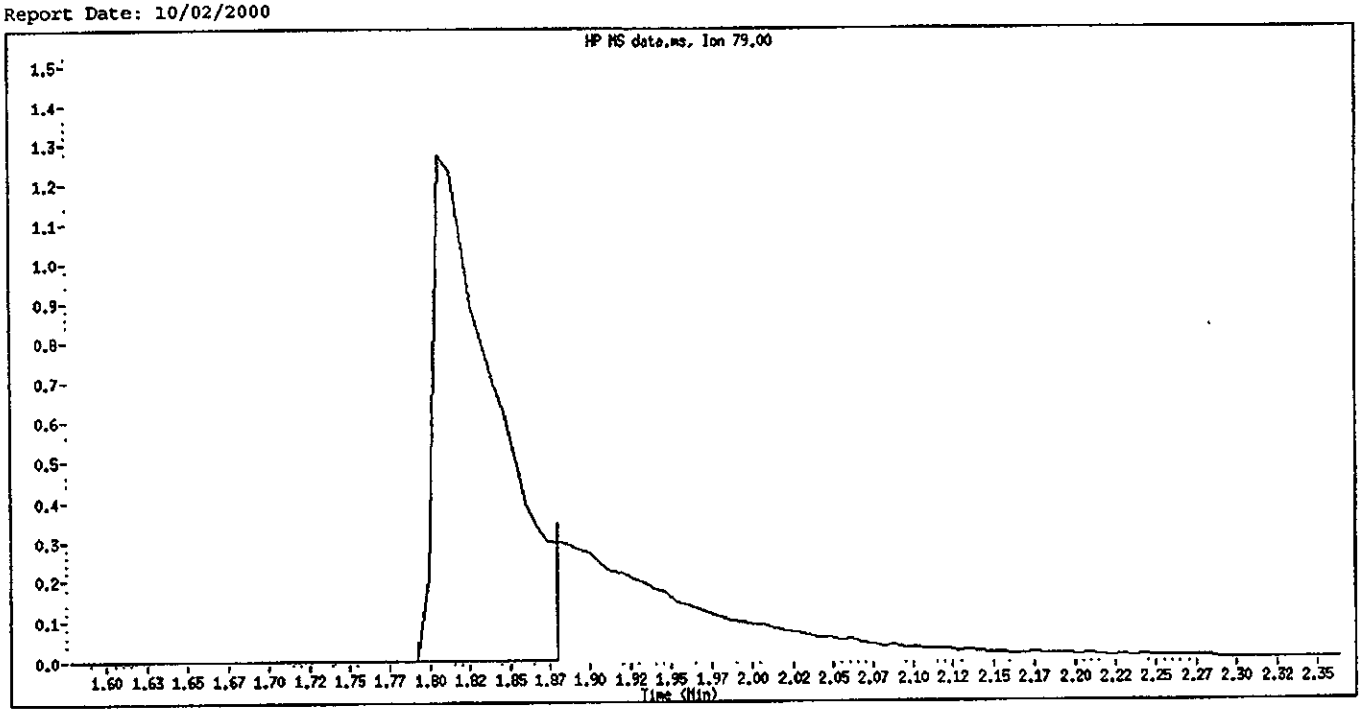
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	17.196	17.196	(1.004)	1761937	160 000	167.25(A)
139 bis(2-ethylhexyl)Phthalate	149	17.579	17.579	(1 027)	1436180	160.000	164.79(A)
140 Di-n-octylphthalate	149	18.902	18.902	(0.941)	2430369	160.000	168.70(A)
141 Benzo(b)fluoranthene	252	19.413	19.413	(0.967)	2275773	160.000	198.57(A)
142 Benzo(k)fluoranthene	252	19.473	19 473	(0.970)	1608079	160.000	151.51(M)
143 7,12-dimethylbenz[a]anthracen	256	19.467	19.467	(0.969)	972184	160.000	183.32(A)
146 Benzo(a)pyrene	252	19.997	19.997	(0.996)	1646928	160.000	173.54(A)
149 Indeno(1,2,3-cd)pyrene	276	21.992	21.992	(1.095)	2164893	160.000	198.29(A)
150 Dibenz(a,h)anthracene	278	22.039	22.039	(1.097)	2105872	160.000	193.75(A)
151 Benzo(g,h,i)perylene	276	22.409	22.409	(1.116)	1766012	160.000	179.97(A)
$ 154 Nitrobenzene-d5	82	5.131	5.131	(0.880)	774426	160.000	161.90(A)
$ 155 2-Fluorobiphenyl	172	7.294	7.294	(0.869)	1532105	160.000	160.47(A)
$ 156 Terphenyl-d14	244	14.885	14.885	(0.869)	1821948	160.000	165.96(A)
$ 157 Phenol-d5	99	4.365	4.365	(0.948)	851677	160 000	158.94
$ 158 2-Fluorophenol	112	3.545	3.545	(0.770)	691012	160.000	161.26(A)
$ 159 2,4,6-Tribromophenol	330	9.920	9.920	(0.880)	400809	160 000	177 25(A)
$ 186 2-Chlorophenol-d4	132	4.452	4.452	(0.966)	728128	160.000	166.05(A)
$ 187 1,2-Dichlorobenzene-d4	152	4.768	4.768	(1.035)	545935	160.000	161.98(A)

QC Flag Legend

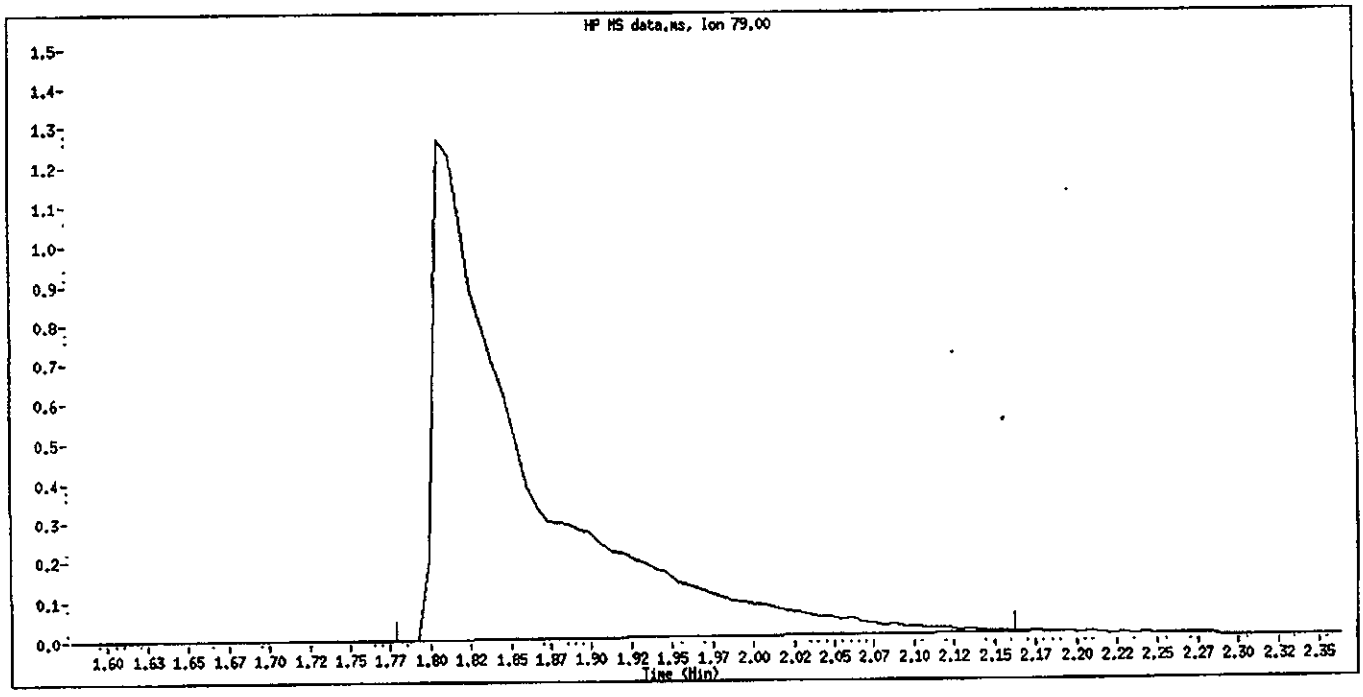
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name: D1002CC5.D
Inj. Date and Time: 02-OCT-2000 12:23
Instrument ID. 721.i
Client ID SSTD160
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 10/02/2000

673 1292



Original Integration

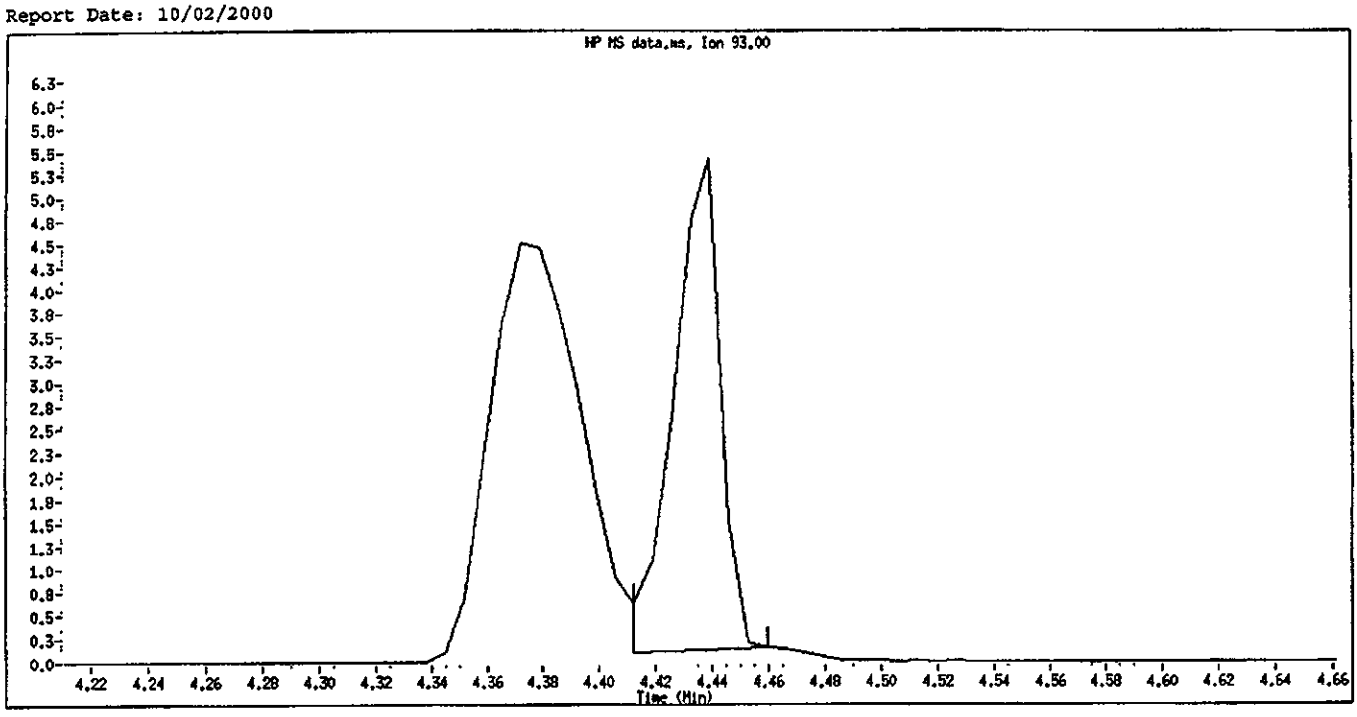


Manual Integration

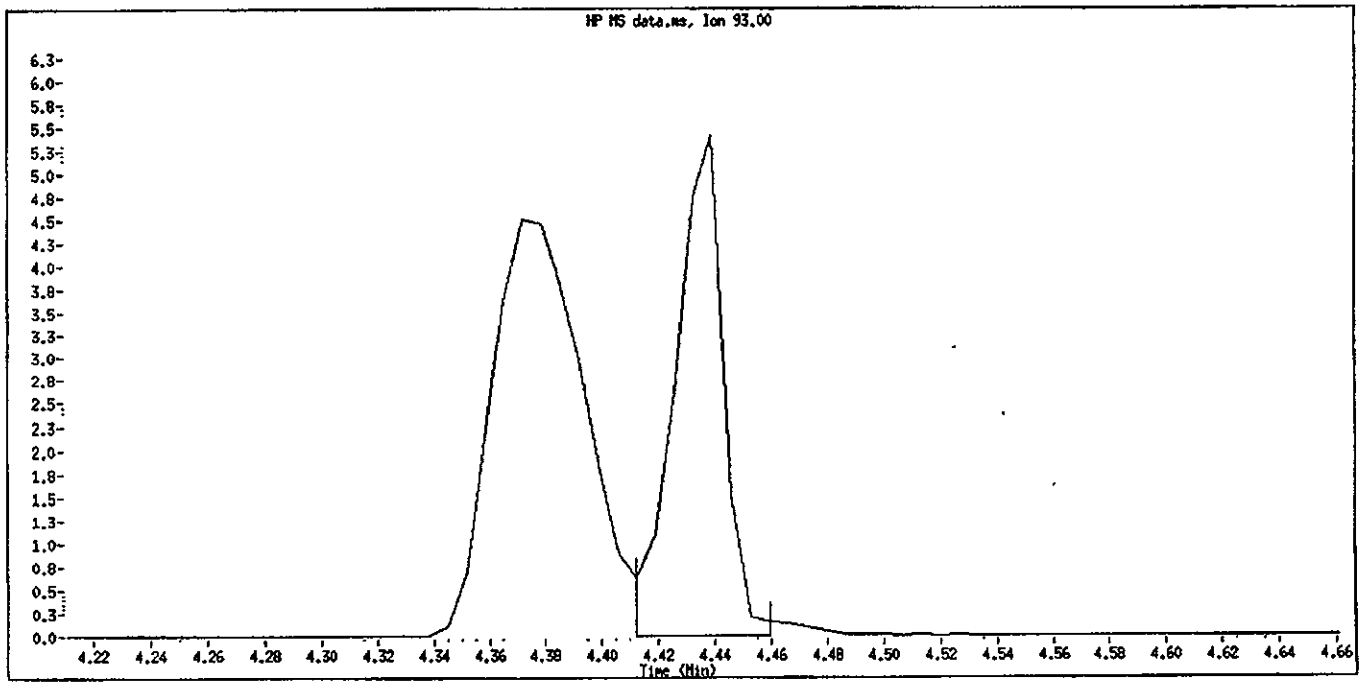
Manually Integrated By FergusonD
Manual Integration Reason: Poor Chromatography

673 1293

Data File Name: D1002CC5.D
Inj Date and Time: 02-OCT-2000 12:23
Instrument ID. 721 i
Client ID: SSTD160
Compound Name: bis(2-Chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/02/2000



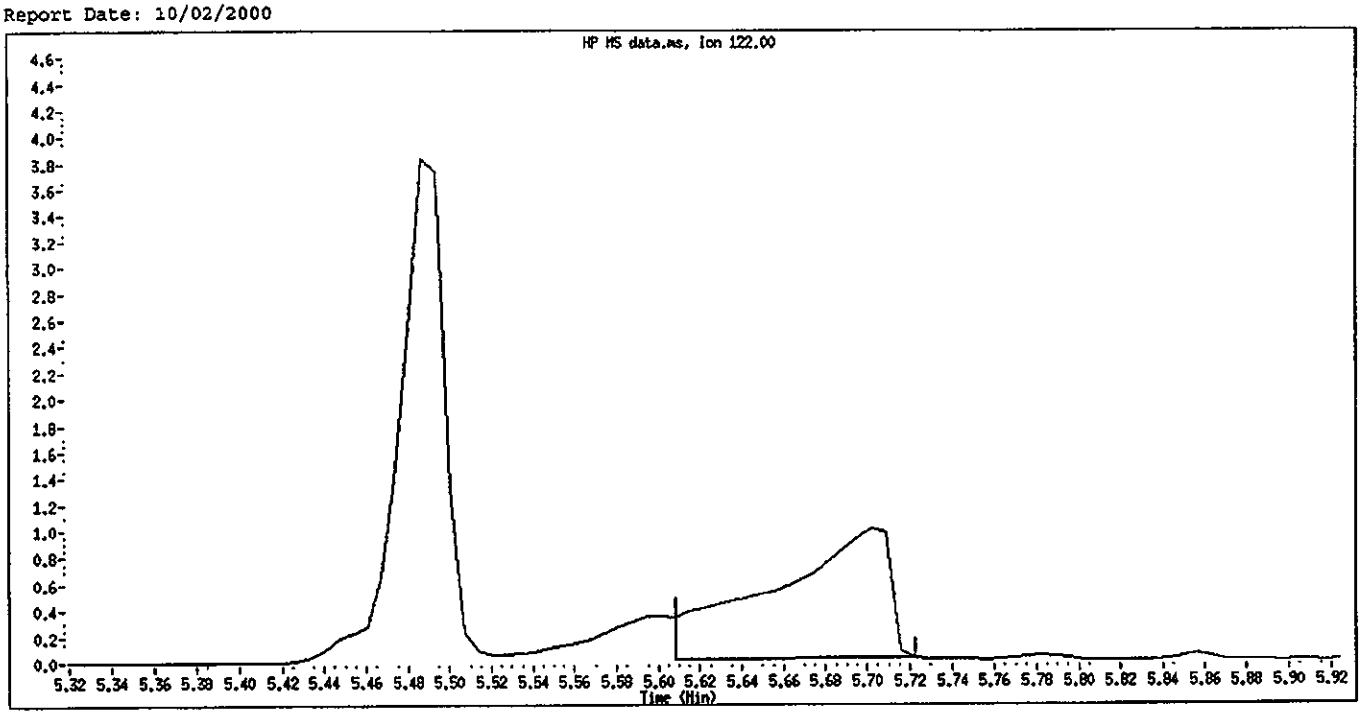
Original Integration



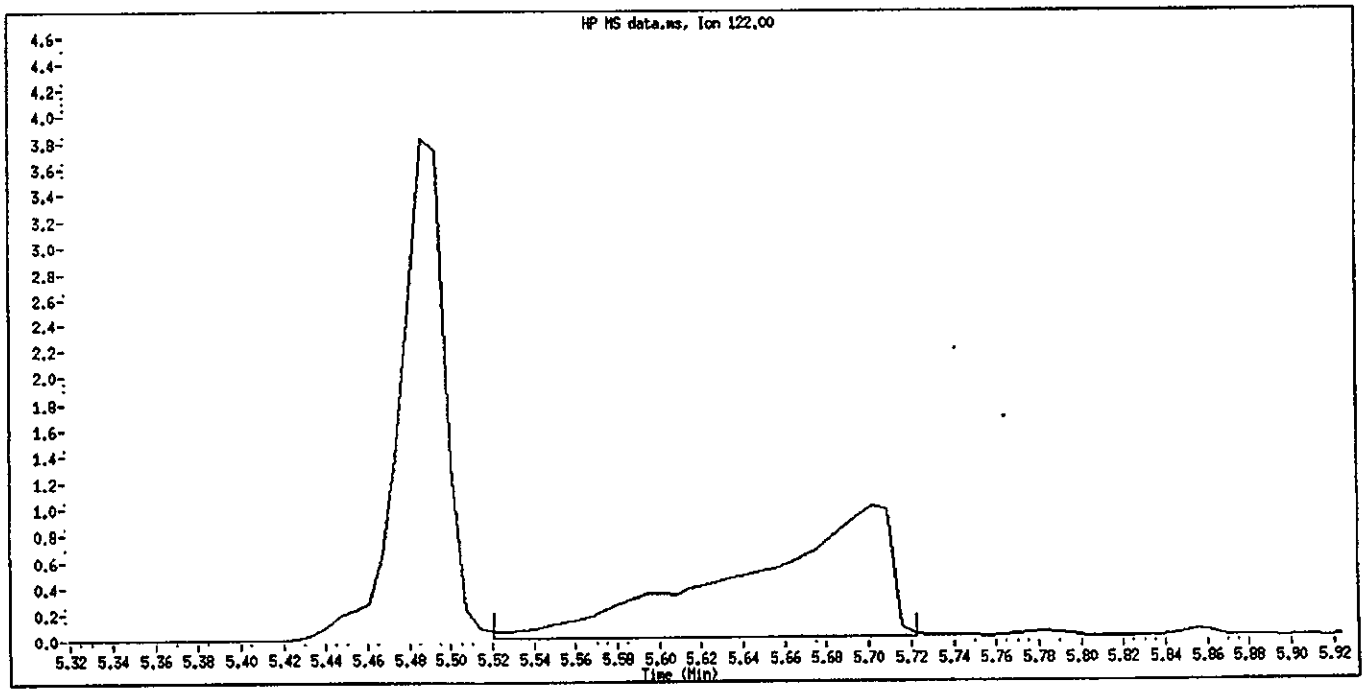
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name D1002CC5.D
Inj Date and Time: 02-OCT-2000 12:23
Instrument ID 721.i
Client ID: SSTD160
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 10/02/2000



Original Integration

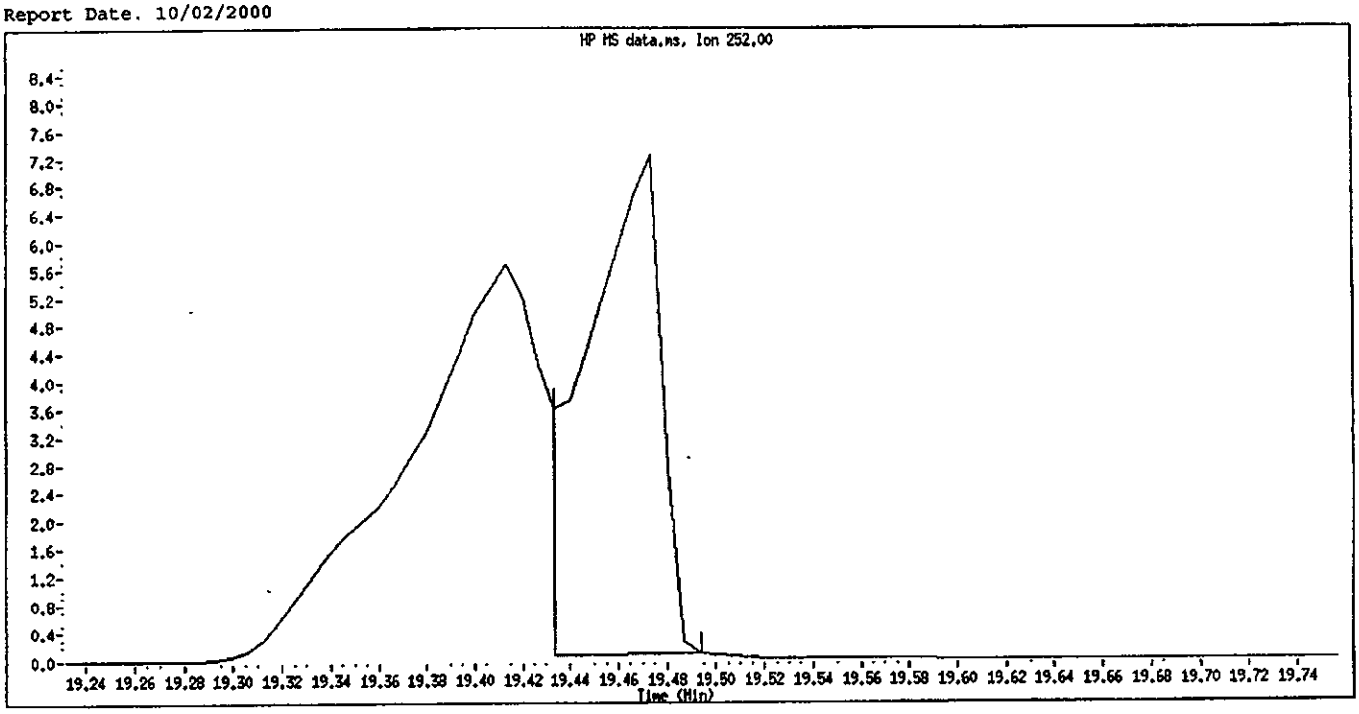


Manual Integration

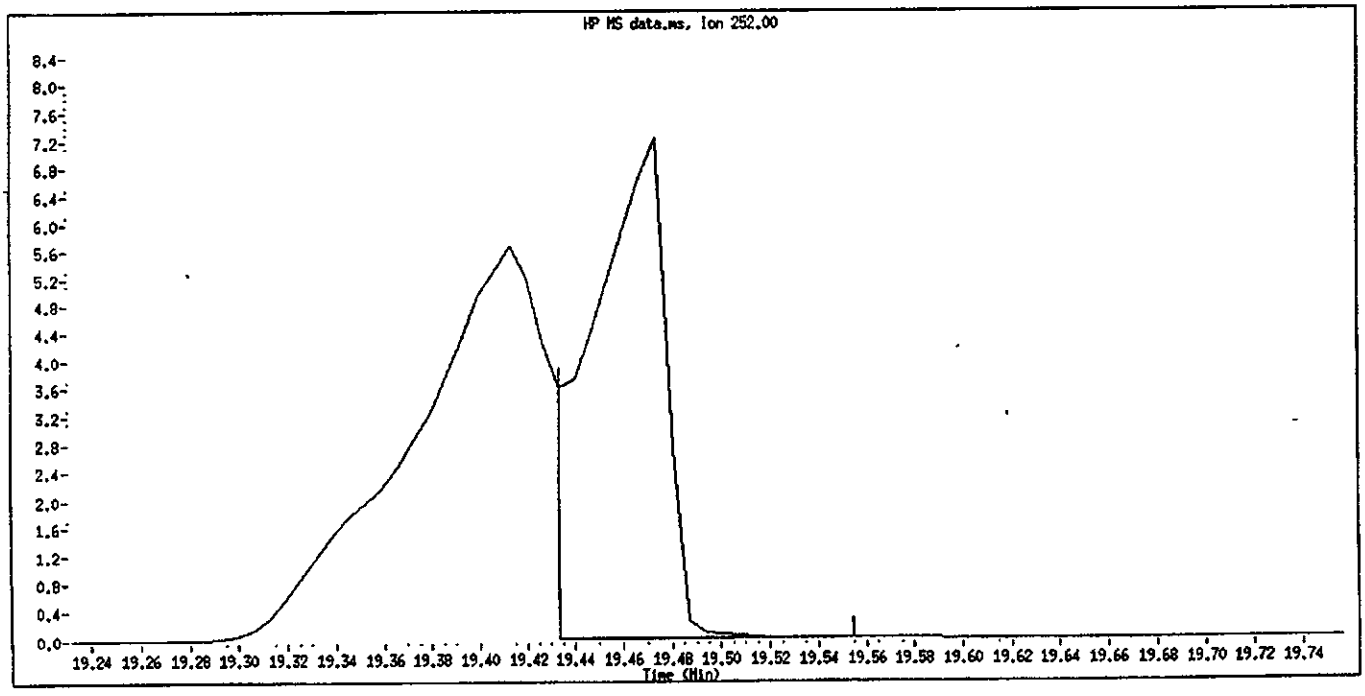
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

673 1295

Data File Name: D1002CC5.D
Inj. Date and Time: 02-OCT-2000 12:23
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Benzo(k)fluoranthene
CAS #. 207-08-9
Report Date. 10/02/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason. Poor Chromatography

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Instrument ID: 721 Calibration Date: 10/18/00 Time: 1243

Lab File ID: D1018CCC Init. Calib. Date(s): 10/02/00 10/02/00

Init. Calib. Times: 1022 1223

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.627	1.476	0.01	9.3	20.0
bis(2-Chloroethyl)ether	1.189	1.114	0.01	6.3	50.0
2-Chlorophenol	1.345	1.226	0.01	8.8	50.0
1,3-Dichlorobenzene	1.464	1.374	0.01	6.1	50.0
1,4-Dichlorobenzene	1.523	1.461	0.01	4.1	20.0
1,2-Dichlorobenzene	1.418	1.323	0.01	6.7	50.0
2-Methylphenol	1.106	1.024	0.01	7.4	50.0
2,2'-oxybis(1-Chloropropane)	1.461	1.308	0.01	10.5	50.0
4-Methylphenol	1.202	1.062	0.01	11.6	50.0
Hexachloroethane	0.666	0.647	0.01	2.8	50.0
Nitrobenzene	0.394	0.368	0.01	6.6	50.0
Isophorone	0.657	0.606	0.01	7.8	50.0
2-Nitrophenol	0.222	0.213	0.01	4.0	20.0
2,4-Dimethylphenol	0.379	0.350	0.01	7.6	50.0
bis(2-Chloroethoxy)methane	0.408	0.372	0.01	8.8	50.0
N-Nitroso-di-n-propylamine	0.809	0.731	0.05	9.6	50.0
2,4-Dichlorophenol	0.345	0.322	0.01	6.7	20.0
1,2,4-Trichlorobenzene	0.381	0.364	0.01	4.5	50.0
Naphthalene	1.074	0.990	0.01	7.8	50.0
4-Chloroaniline	0.440	0.404	0.01	8.2	50.0
Hexachlorobutadiene	0.257	0.251	0.01	2.3	20.0
4-Chloro-3-Methylphenol	0.325	0.309	0.01	4.9	20.0
2-Methylnaphthalene	0.676	0.630	0.01	6.8	50.0
Hexachlorocyclopentadiene	0.525	0.470	0.05	10.5	50.0
2,4,6-Trichlorophenol	0.436	0.397	0.01	8.9	20.0
2,4,5-Trichlorophenol	0.466	0.438	0.01	6.0	50.0
2-Chloronaphthalene	1.224	1.128	0.01	7.8	50.0
2-Nitroaniline	0.373	0.343	0.01	8.0	50.0
Dimethylphthalate	1.428	1.328	0.01	7.0	50.0
Acenaphthylene	1.837	1.708	0.01	7.0	50.0
2,6-Dinitrotoluene	0.346	0.318	0.01	8.1	50.0
3-Nitroaniline	0.355	0.326	0.01	8.2	50.0
Acenaphthene	1.114	1.028	0.01	7.7	20.0
2,4-Dinitrophenol	0.245	0.215	0.05	12.2	50.0
4-Nitrophenol	0.300	0.288	0.05	4.0	50.0
Dibenzofuran	1.696	1.586	0.01	6.5	50.0
2,4-Dinitrotoluene	0.465	0.433	0.01	6.9	50.0

FORM VII SV

FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J140161

Instrument ID: 721 Calibration Date: 10/18/00 Time: 1243

Lab File ID: D1018CCC Init. Calib. Date(s): 10/02/00 10/02/00

Init. Calib. Times: 1022 1223

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

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.566	1.441	0.01	8.0	50.0
4-Chlorophenyl-phenylether	0.687	0.626	0.01	8.9	50.0
Fluorene	1.362	1.259	0.01	7.6	50.0
4-Nitroaniline	0.334	0.306	0.01	8.4	50.0
4,6-Dinitro-2-methylphenol	0.177	0.162	0.01	8.5	50.0
N-Nitrosodiphenylamine (1)	0.547	0.505	0.01	7.7	20.0
4-Bromophenyl-phenylether	0.248	0.228	0.01	8.1	50.0
Hexachlorobenzene	0.327	0.310	0.01	5.2	50.0
Pentachlorophenol	0.207	0.180	0.01	13.0	20.0
Phenanthrene	1.079	0.993	0.01	8.0	50.0
Anthracene	1.093	1.021	0.01	6.6	50.0
Carbazole	0.934	0.858	0.01	8.1	50.0
Di-n-Butylphthalate	1.367	1.250	0.01	8.6	50.0
Fluoranthene	1.118	1.007	0.01	9.9	20.0
Pyrene	1.170	1.306	0.01	11.6	50.0
Butylbenzylphthalate	0.605	0.641	0.01	6.0	50.0
3,3'-Dichlorobenzidine	0.472	0.444	0.01	5.9	50.0
Benzo(a)Anthracene	1.056	1.030	0.01	2.5	50.0
Chrysene	0.981	0.922	0.01	6.0	50.0
bis(2-ethylhexyl)Phthalate	0.812	0.758	0.01	6.6	50.0
Di-n-octylphthalate	1.817	2.040	0.01	12.3	20.0
Benzo(b)fluoranthene	1.446	1.253	0.01	13.3	50.0
Benzo(k)fluoranthene	1.339	1.381	0.01	3.1	50.0
Benzo(a)pyrene	1.197	1.076	0.01	10.1	20.0
Indeno(1,2,3-cd)pyrene	1.377	0.922	0.01	33.0	50.0
Dibenz(a,h)anthracene	1.371	0.969	0.01	29.3	50.0
Benzo(g,h,i)perylene	1.238	0.913	0.01	26.2	50.0
Nitrobenzene-d5	0.420	0.391	0.01	6.9	50.0
2-Fluorobiphenyl	1.411	1.293	0.01	8.4	50.0
Terphenyl-d14	1.023	1.100	0.01	7.5	50.0
Phenol-d5	1.537	1.463	0.01	4.8	50.0
2-Fluorophenol	1.229	1.110	0.01	9.7	50.0
2,4,6-Tribromophenol	0.194	0.190	0.01	2.1	50.0
2-Chlorophenol-d4	1.258	1.174	0.01	6.7	50.0
1,2-Dichlorobenzene-d4	0.967	0.909	0.01	6.0	50.0

FORM VII SV

Data File: \\QPITPA02\D\chem\721.i\d101800.b/D1018CCC.D
Report Date: 10/18/2000

673 1298

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D1018CCC.D
Analysis Type: NONE

Injection Date: 18-OCT-2000 12:43
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d101800.b\8270c.

8270c

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
66 Pyridine	50.0000	24.5728	50.9	50.0	<- NA
67 N-Nitrosodimethylamine	50.0000	24.5943	50.8	50.0	<- NA
87 Methyl methanesulfonate	50 0000	41 0264	17.9	50.0	
185 2-Fluorophenol	50.0000	45.1407	9.7	50.0	
68 Aniline	50.0000	46.2084	7.6	50.0	
184 Phenol-d5	50.0000	47.6057	4.8	50.0	
1 Phenol	50.0000	45.3645	9.3	20.0	
2 bis(2-Chloroethyl)ether	50.0000	46.8173	6.4	50.0	
187 2-Chlorophenol-d4	50.0000	46.6843	6.6	50.0	
3 2-Chlorophenol	50.0000	45.5484	8.9	50 0	
4 1,3-Dichlorobenzene	50.0000	46.9173	6.2	50.0	
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0	
5 1,4-Dichlorobenzene	50.0000	47.9904	4.0	20 0	
69 Benzyl Alcohol	50.0000	47.3705	5.3	50.0	
188 1,2-Dichlorobenzene-d4	50.0000	47.0006	6.0	50.0	
6 1,2-Dichlorobenzene	50.0000	46.6642	6.7	50.0	
7 2-Methylphenol	50.0000	46.2748	7.5	50.0	
8 2,2'-oxybis(1-Chloropropane)	50 0000	44.7679	10.5	50.0	
9 4-Methylphenol	50.0000	44.1558	11 7	50.0	
18 N-Nitroso-di-n-propylamine	50.0000	45.1884	9.6	50.0	
12 Hexachloroethane	50.0000	48.5838	2.8	50.0	
181 Nitrobenzene-d5	50 0000	46.5751	6.8	50.0	
13 Nitrobenzene	50.0000	46 7230	6 6	50.0	
14 Isophorone	50.0000	46.0951	7 8	50.0	
15 2-Nitrophenol	50.0000	48.0437	3.9	20.0	
16 2,4-Dimethylphenol	50.0000	46.2417	7.5	50.0	
17 bis(2-Chloroethoxy)methane	50.0000	45 5734	8.9	50.0	
71 Benzoic Acid	50.0000	37.3721	25.3	50.0	
18 2,4-Dichlorophenol	50.0000	46.6727	6.7	20 0	
19 1,2,4-Trichlorobenzene	50.0000	47.7722	4.5	50.0	
32 Naphthalene-d8	40.0000	40.0000	0.0	50 0	
20 Naphthalene	50.0000	46.1206	7.8	50 0	
21 4-Chloroaniline	50.0000	45.9056	8.2	50.0	
22 Hexachlorobutadiene	50.0000	48.9117	2.2	20 0	
23 4-Chloro-3-Methylphenol	50.0000	47.5684	4.9	20.0	
24 2-Methylnaphthalene	50 0000	46.6171	6.8	50.0	
72 1-Methylnaphthalene	50.0000	48.1361	3.7	50.0	
25 Hexachlorocyclopentadiene	50 0000	44.7806	10.4	50.0	
26 2,4,6-Trichlorophenol	50.0000	45.5073	9.0	20.0	

Data File: \\QPITPA02\D\chem\721.i\d101800.b/D1018CCC.D
Report Date: 10/18/2000

673 1299

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D1018CCC.D
Analysis Type: NONE

Injection Date: 18-OCT-2000 12:43
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d101800.b

	COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
27	2,4,5-Trichlorophenol	50.0000	46.9767	6.0	50.0
182	2-Fluorobiphenyl	50.0000	45.8057	8.4	50.0
28	2-Chloronaphthalene	50.0000	46.0615	7.9	50.0
29	2-Nitroaniline	50.0000	45.9813	8.0	50.0
30	Dimethylphthalate	50.0000	46.5003	7.0	50.0
31	Acenaphthylene	50.0000	46.4896	7.0	50.0
32	2,6-Dinitrotoluene	50.0000	45.9228	8.2	50.0
52	Acenaphthene-d10	40.0000	40.0000	0.0	50.0
33	3-Nitroaniline	50.0000	45.8818	8.2	50.0
34	Acenaphthene	50.0000	46.1499	7.7	20.0
35	2,4-Dinitrophenol	50.0000	43 9270	12.1	50.0
37	Dibenzofuran	50.0000	46 7707	6.5	50.0
36	4-Nitrophenol	50.0000	48.0587	3.9	50.0
38	2,4-Dinitrotoluene	50.0000	46.5180	7.0	50.0
77	2,3,5,6-Tetrachlorophenol	50.0000	46.9725	6.1	50.0
114	2-Naphthylamine	50.0000	42.8251	14.3	50.0
76	2,3,4,6-Tetrachlorophenol	50.0000	45.5255	8 9	50 0
39	Diethylphthalate	50.0000	45.9944	8.0	50.0
41	Fluorene	50.0000	46.2111	7 6	50.0
40	4-Chlorophenyl-phenylether	50.0000	45.5583	8.9	50.0
42	4-Nitroaniline	50.0000	45.7507	8 5	50 0
43	4,6-Dinitro-2-methylphenol	50.0000	45.9329	8.1	50.0
44	N-Nitrosodiphenylamine (1)	50.0000	46.1423	7 7	20.0
78	1,2-Diphenylhydrazine	50.0000	46.9304	6 1	50.0
186	2,4,6-Tribromophenol	50.0000	49.0085	2.0	50.0
45	4-Bromophenyl-phenylether	50.0000	45.9540	8.1	50.0
46	Hexachlorobenzene	50.0000	47.3053	5.4	50.0
47	Pentachlorophenol	50.0000	43.2333	13.5	20 0
78	Phenanthrene-d10	40.0000	40 0000	0.0	50.0
48	Phenanthrene	50.0000	46 0241	8.0	50.0
49	Anthracene	50 0000	46.7081	6.6	50.0
50	Carbazole	50.0000	45.9108	8.2	50.0
51	Di-n-Butylphthalate	50.0000	45.7064	8.6	50.0
52	Fluoranthene	50.0000	45.0514	9.9	20.0
79	Benzidine	50.0000	49.0551	1.9	50.0
53	Pyrene	50.0000	55.8305	11.7	50.0
183	Terphenyl-d14	50.0000	53.7700	7.5	50.0
54	Butylbenzylphthalate	50.0000	52 9751	6.0	50.0
56	Benzo(a)Anthracene	50.0000	48.7812	2.4	50.0

Data File: \\QPITPA02\D\chem\721.i\d101800.b/D1018CCC.D
Report Date: 10/18/2000

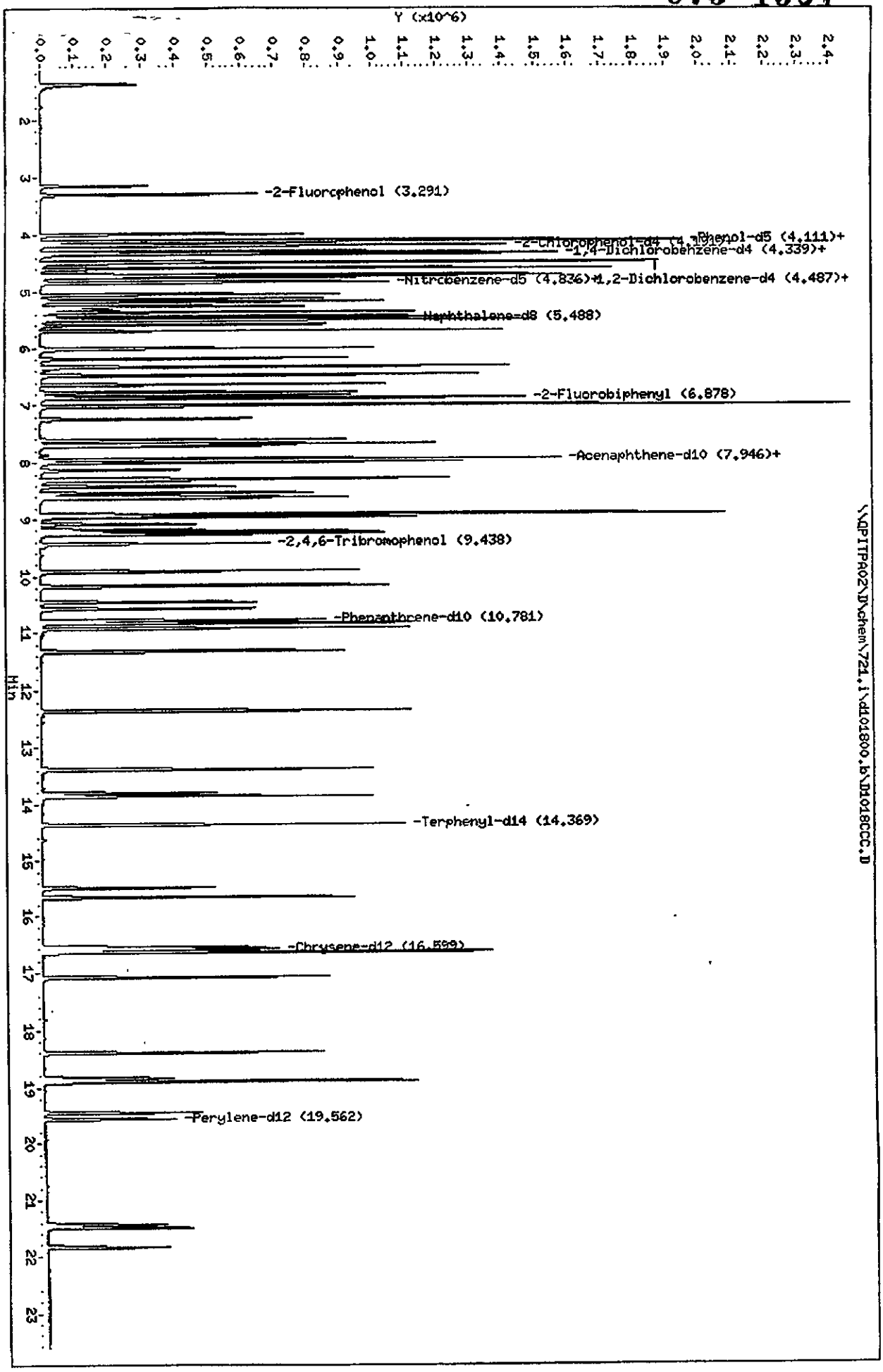
673 1300

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D1018CCC.D
Analysis Type: NONE

Injection Date: 18-OCT-2000 12:43
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d101800.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	47 0442	5.9	50.0
57	Chrysene	50.0000	46.9649	6.1	50.0
58	bis(2-ethylhexyl)Phthalate	50.0000	46.7210	6.6	50.0
59	Di-n-octylphthalate	50.0000	56.1276	12.3	20.0
60	Benzo(b)fluoranthene	50.0000	43.3347	13 3	50.0
61	Benzo(k)fluoranthene	50.0000	51.5587	3.1	50.0
143	7,12-dimethylbenz[a]anthracen	50.0000	49.1058	1.8	50.0
62	Benzo(a)pyrene	50.0000	44 9257	10.1	20.0
101	Perylene-d12	40.0000	40.0000	0.0	50.0
63	Indeno(1,2,3-cd)pyrene	50.0000	33.4599	33.1	50.0
64	Dibenz(a,h)anthracene	50.0000	35.3451	29.3	50.0
65	Benzo(g,h,i)perylene	50.0000	36.8854	26.2	50.0



Data File: \\QPITPA02\D\chem\724.i\d101800.b\D1018CCC.D
Date : 18-OCT-2000 12:43
Client ID: SSTD050
Sample Info: sstd050 (25ug/ml) 77-02-9 8270c/clp/625
Column phase: Hp5-MS

Instrument: 724.i
Operator: 001562
Column diameter: 0.25

673 1302

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d101800.b\D1018CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 18-OCT-2000 12:43
Operator : 001562 Inst ID: 721.i
Smp Info : sstd050 (25ug/ml) 77-02-9 8270c/clp/625
Misc Info : sstd50,d101800.b,8270c.m,3-root.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d101800.b\8270c.m
Meth Date : 18-Oct-2000 13:35 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DZ 10-18-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.332	4.332	(1.000)	169897	40 0000	
* 2	Naphthalene-d8	136	5.487	5.487	(1.000)	571381	40.0000	
* 3	Acenaphthene-d10	164	7.946	7.946	(1.000)	342965	40.0000	
* 4	Phenanthrene-d10	188	10.781	10.781	(1.000)	607565	40 0000	
* 5	Chrysene-d12	240	16.599	16.599	(1.000)	444032	40.0000	
* 6	Perylene-d12	264	19.561	19.561	(1.000)	263319	40.0000	
10	N-Nitrosodimethylamine	74	1.383	1.383	(0.319)	59254	50.0000	24.594
9	Pyridine	79	1.376	1.376	(0.318)	100695	50 0000	24.573 (M)
16	Methyl methanesulfonate	80	3.143	3.143	(0.726)	152069	50.0000	41.026
21	Aniline	93	4.110	4.110	(0.949)	360965	50.0000	46.208
22	Phenol	94	4.123	4.123	(0.952)	313404	50.0000	45.364
23	bis(2-Chloroethyl)ether	93	4 164	4.164	(0.961)	236524	50.0000	46.817 (M)
24	2-Chlorophenol	128	4.197	4.197	(0.969)	260290	50.0000	45.548
26	1,3-Dichlorobenzene	146	4.298	4.298	(0.992)	291794	50.0000	46.917
27	1,4-Dichlorobenzene	146	4.345	4.345	(1.003)	310375	50.0000	47.990
28	1,2-Dichlorobenzene	146	4.493	4.493	(1.037)	281059	50.0000	46.664
29	Benzyl Alcohol	108	4.473	4.473	(1.033)	173804	50.0000	47.370
30	2-Methylphenol	108	4.587	4.587	(1.059)	217373	50.0000	46.275
31	2,2'-oxybis(1-Chloropropane)	45	4 594	4.594	(1.060)	277881	50.0000	44.768
32	N-Nitroso-di-n-propylamine	70	4.721	4.721	(1.090)	155349	50.0000	45.188
192	4-Methylphenol	108	4.708	4.708	(1.087)	225440	50.0000	44.156
34	Hexachloroethane	117	4.748	4.748	(1.096)	137382	50.0000	48.584
35	Nitrobenzene	77	4.836	4 836	(0.881)	262914	50 0000	46.723
41	Isophorone	82	5.051	5.051	(0.920)	432541	50.0000	46.095
42	2-Nitrophenol	139	5.131	5.131	(0.935)	152068	50 0000	48.044
43	2,4-Dimethylphenol	107	5.178	5.178	(0.944)	250154	50.0000	46.242

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
44	bis(2-Chloroethoxy)methane	93	5.265	5.265	(0.960)	265623	50.0000	45.573
48	2,4-Dichlorophenol	162	5.366	5.366	(0.978)	230007	50.0000	46.673
49	Benzoic Acid	122	5.333	5.333	(0.972)	129067	50.0000	37.372
50	1,2,4-Trichlorobenzene	180	5.447	5.447	(0.993)	260228	50.0000	47.772
51	Naphthalene	128	5.507	5.507	(1.004)	707239	50.0000	46.120
52	4-Chloroaniline	127	5.595	5 595	(1.020)	288480	50.0000	45.906
56	Hexachlorobutadiene	225	5.702	5.702	(1.039)	179620	50.0000	48.912
59	4-Chloro-3-Methylphenol	107	6.186	6.186	(1.127)	220575	50.0000	47 568
62	2-Methylnaphthalene	142	6.327	6.327	(1.153)	450073	50.0000	46.617
63	1-Methylnaphthalene	142	6.475	6.475	(1.180)	445582	50.0000	48 136
64	Hexachlorocyclopentadiene	237	6.636	6.636	(0.835)	201433	50.0000	44.780
66	2,4,6-Trichlorophenol	196	6.770	6.770	(0.852)	170034	50.0000	45.507
67	2,4,5-Trichlorophenol	196	6.831	6.831	(0.860)	187662	50 0000	46.977
70	2-Chloronaphthalene	162	7.019	7.019	(0.883)	483587	50.0000	46.061
73	2-Nitroaniline	65	7.241	7.241	(0.911)	147239	50 0000	45.981
76	Dimethylphthalate	163	7.610	7.610	(0.958)	569553	50 0000	46.500
78	2,6-Dinitrotoluene	165	7.718	7.718	(0.971)	136166	50.0000	45.923
79	Acenaphthylene	152	7.684	7.684	(0.967)	732414	50.0000	46.490
81	3-Nitroaniline	138	7.946	7.946	(1 000)	139613	50.0000	45.882
82	Acenaphthene	153	8.006	8.006	(1.008)	440897	50.0000	46.150
83	2,4-Dinitrophenol	184	8.134	8.134	(1.024)	92239	50.0000	43.927
85	4-Nitrophenol	109	8.315	8.315	(1.046)	123555	50.0000	48.059
86	Dibenzofuran	168	8.289	8.289	(1.043)	679949	50.0000	46.771
87	2,4-Dinitrotoluene	165	8.416	8.416	(1.059)	185573	50.0000	46.518
91	2,3,5,6-Tetrachlorophenol	232	8.537	8.537	(1.074)	169059	50.0000	46.972
88	2,3,4,6-Tetrachlorophenol	232	8.624	8.624	(1.085)	163742	50.0000	45 526
92	2-Naphthylamine	143	8.591	8 591	(1.081)	396186	50.0000	42.825
93	Diethylphthalate	149	8.920	8.920	(1.123)	617642	50.0000	45.994
94	Fluorene	166	8 927	8.927	(1.123)	539853	50.0000	46.211
95	4-Chlorophenyl-phenylether	204	8 967	8.967	(1.129)	268190	50.0000	45.558
96	4-Nitroaniline	138	9 095	9 095	(1.145)	131058	50.0000	45.751
98	4,6-Dinitro-2-methylphenol	198	9.182	9.182	(0.852)	123451	50.0000	45.933
99	N-Nitrosodiphenylamine (1)	169	9.229	9.229	(0.856)	383339	50.0000	46 142
100	1,2-Diphenylhydrazine	77	9.269	9.269	(0.860)	571261	50.0000	46.930
106	4-Bromophenyl-phenylether	248	9 914	9.914	(0.920)	173352	50.0000	45.954
107	Hexachlorobenzene	284	10 170	10.170	(0.943)	235059	50.0000	47.305
111	Pentachlorophenol	266	10.573	10 573	(0.981)	136324	50.0000	43.233
115	Phenanthrene	178	10.828	10.828	(1.004)	754334	50.0000	46.024
116	Anthracene	178	10.922	10 922	(1.013)	775405	50.0000	46.708
119	Carbazole	167	11.325	11 325	(1.050)	651408	50.0000	45.911
120	Di-n-Butylphthalate	149	12.353	12 353	(1.146)	949317	50.0000	45.706
123	Fluoranthene	202	13.394	13.394	(1.242)	764707	50.0000	45 051
124	Benzidine	184	13.797	13.797	(0.831)	342571	50.0000	49.055
125	Pyrene	202	13.858	13.858	(0.835)	724980	50.0000	55.830
131	Butylbenzylphthalate	149	15.651	15.651	(0.943)	355718	50.0000	52.975
135	3,3'-Dichlorobenzidine	252	16.646	16.646	(1.003)	246458	50.0000	47.044
136	Benzo(a)Anthracene	228	16.558	16.558	(0.998)	571913	50.0000	48.781

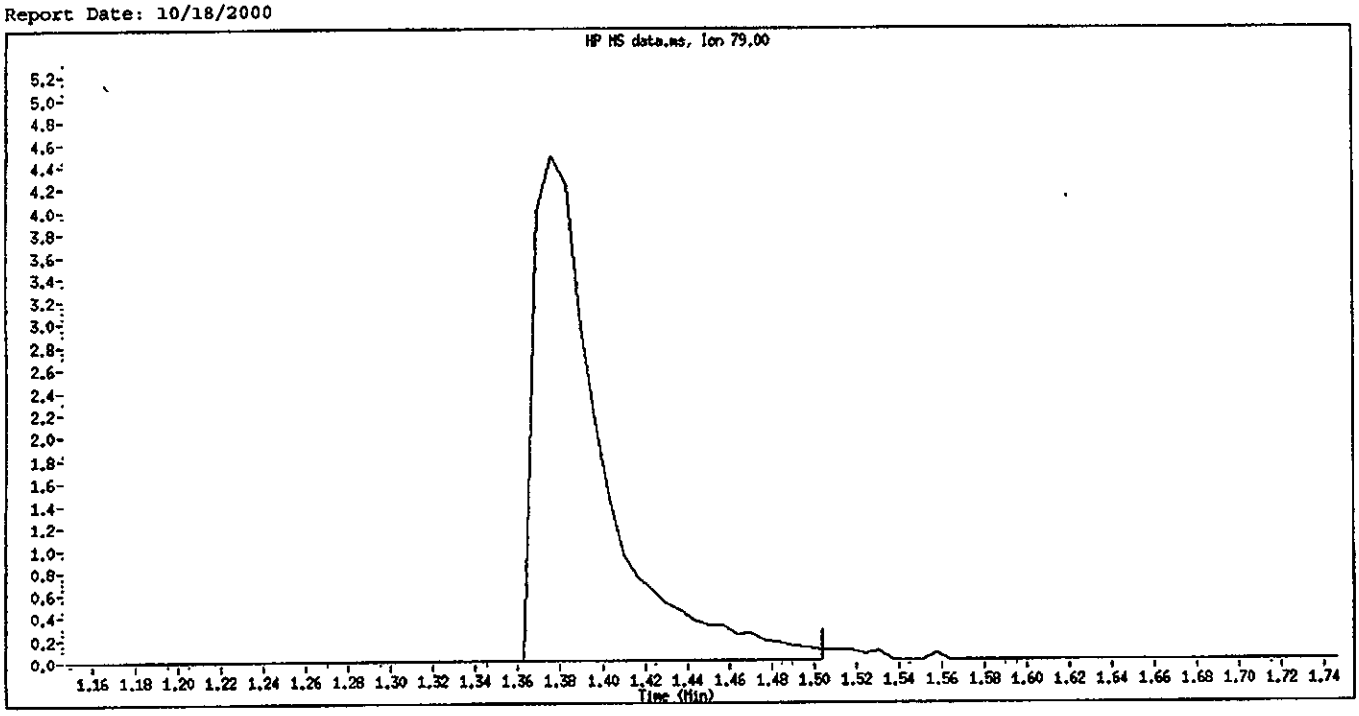
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
137 Chrysene	228	16.659	16.659	(1.004)	511606	50.0000	46.965
139 bis(2-ethylhexyl)Phthalate	149	17.082	17.082	(1.029)	421043	50.0000	46.721
140 Di-n-octylphthalate	149	18.399	18.399	(0.941)	671503	50.0000	56.128
141 Benzo(b)fluoranthene	252	18 842	18.842	(0.963)	412429	50.0000	43.335
142 Benzo(k)fluoranthene	252	18 896	18.896	(0.966)	454428	50.0000	51.559
143 7,12-dimethylbenz[a]anthracen	256	18.909	18 909	(0.967)	216263	50.0000	49.106
146 Benzo(a)pyrene	252	19.447	19.447	(0.994)	354044	50.0000	44 926
149 Indeno(1,2,3-cd)pyrene	276	21.435	21.435	(1.096)	303362	50 0000	33 460
150 Dibenz(a,h)anthracene	278	21.489	21.489	(1.099)	319023	50.0000	35.345
151 Benzo(g,h,i)perylene	276	21.845	21.845	(1.117)	300569	50.0000	36 885
$ 154 Nitrobenzene-d5	82	4.822	4.822	(0.879)	279439	50.0000	46.575
$ 155 2-Fluorobiphenyl	172	6.878	6.878	(0.866)	554291	50.0000	45.806
$ 156 Terphenyl-d14	244	14.368	14.368	(0.866)	610410	50.0000	53.770
$ 157 Phenol-d5	99	4.110	4.110	(0.949)	310756	50.0000	47.606
$ 158 2-Fluorophenol	112	3.290	3.290	(0.760)	235642	50.0000	45.141
$ 159 2,4,6-Tribromophenol	330	9.437	9.437	(0.875)	144348	50.0000	49.008
$ 186 2-Chlorophenol-d4	132	4.184	4.184	(0.966)	249382	50.0000	46.684
$ 187 1,2-Dichlorobenzene-d4	152	4.486	4.486	(1.036)	192977	50.0000	47.000

QC Flag Legend

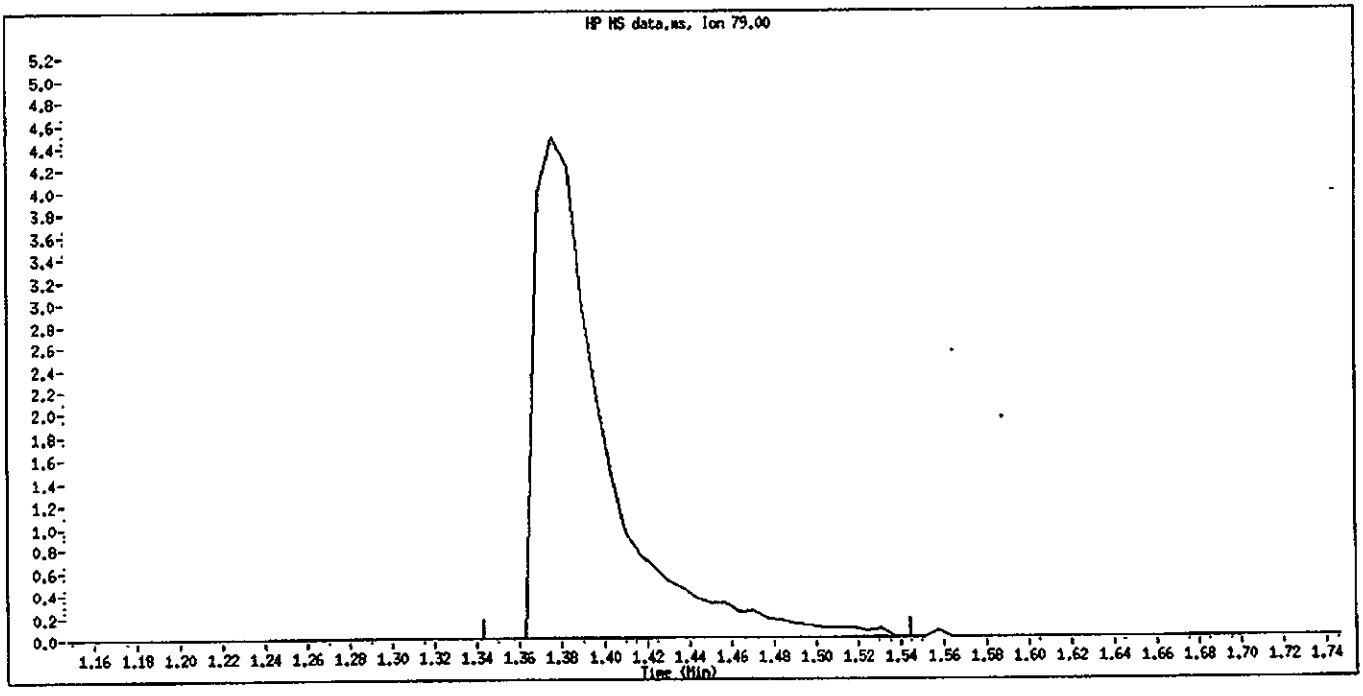
M - Compound response manually integrated.

673 1305

Data File Name: D1018CCC.D
Inj Date and Time: 18-OCT-2000 12:43
Instrument ID. 721.i
Client ID: SSTD050
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 10/18/2000



Original Integration

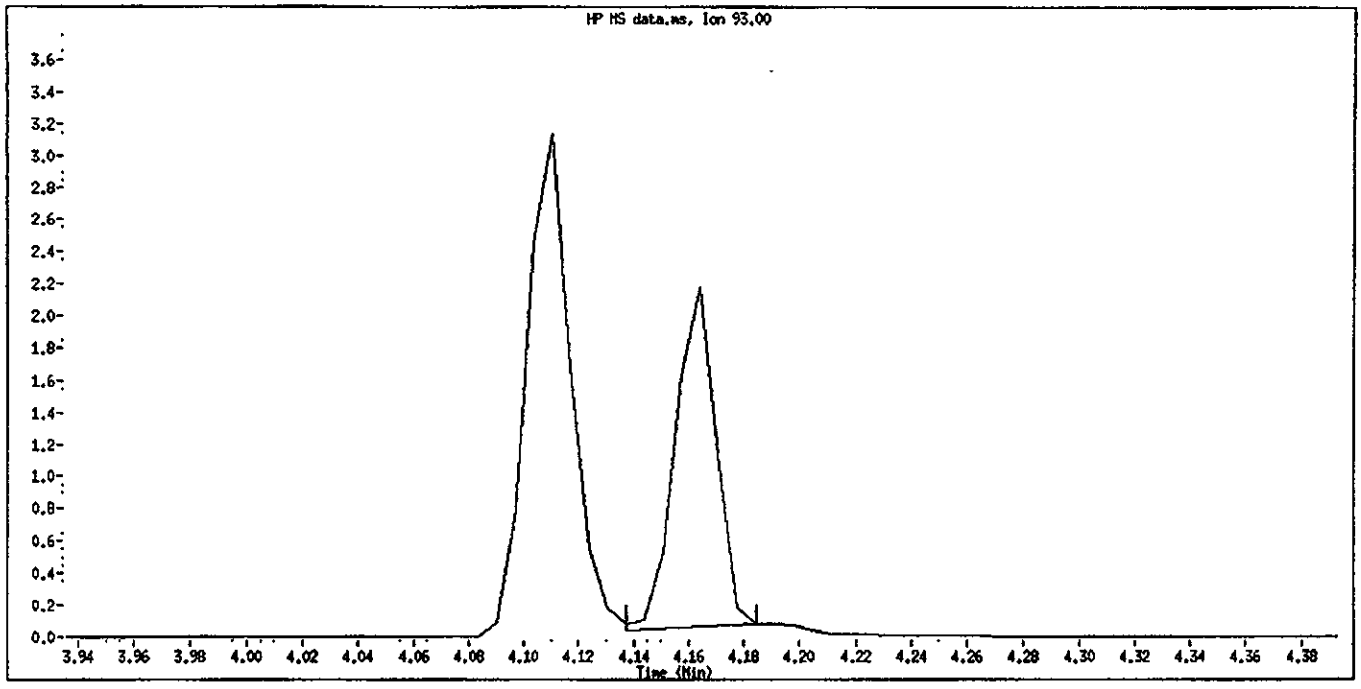


Manual Integration

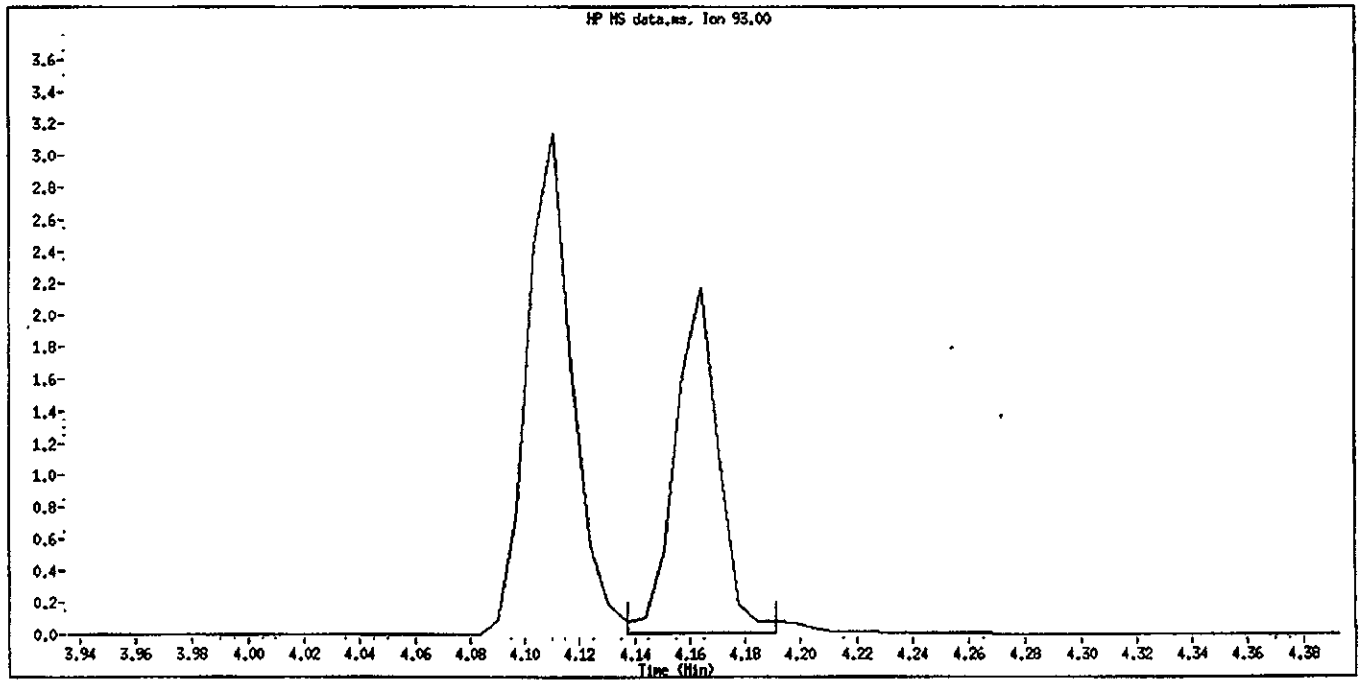
Manually Integrated By. FergusonD
Manual Integration Reason Poor Chromatography

Data File Name: D1018CCC.D
Inj. Date and Time: 18-OCT-2000 12:43
Instrument ID: 721.i
Client ID. SSTD050
Compound Name: bis(2-Chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/18/2000

673 1306



Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

GC/MS SEMIVOLATILE
QC DATA

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002DF2.D

673 1308

Date : 02-OCT-2000 10:02

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

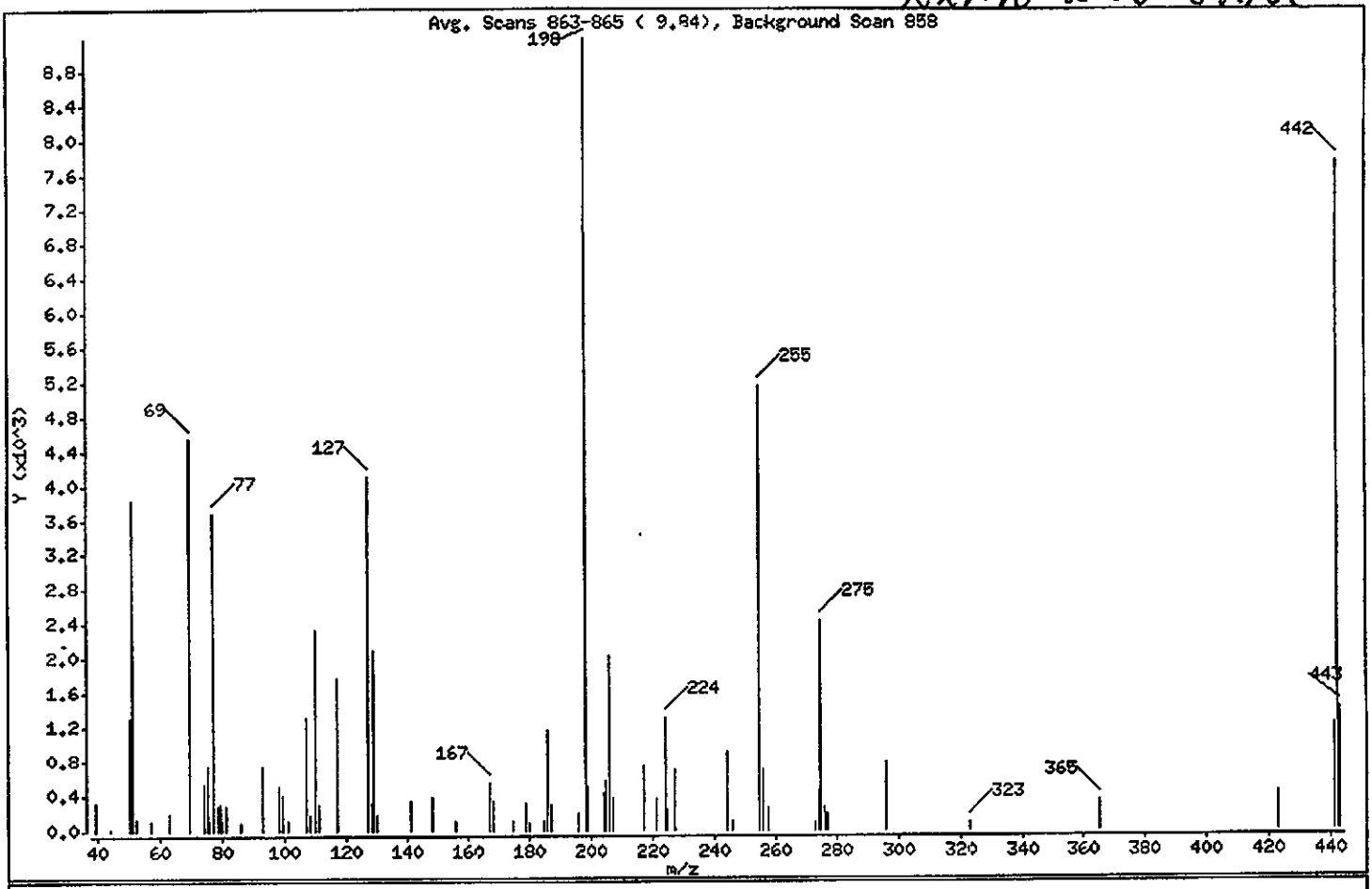
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DLL 10-2-00 8270c



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.57
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	44.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.51
275	10.00 - 30.00% of mass 198	26.38
365	Greater than 1.00% of mass 198	3.65
441	Present, but less than mass 443	13.41
442	Greater than 40.00% of mass 198	84.26
443	17.00 - 23.00% of mass 442	15.49 (18.38)

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002DF2.D

Date : 02-OCT-2000 10:02

Client ID: DFTPP02 Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase: Column diameter: 0.25

Data File: D1002DF2.D

Spectrum: Avg. Scans 863-865 (9.84), Background Scan 858

Location of Maximum: 198.00

Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	318	98.00	506	179.00	307	246.00	104
44.00	18	99.00	400	180.00	95	255.00	5150
50.00	1311	101.00	108	185.00	100	256.00	698
51.00	3819	107.00	1317	186.00	1152	258.00	263
52.00	121	108.00	178	187.00	304	273.00	93
57.00	113	110.00	2324	196.00	191	274.00	445
63.00	195	111.00	302	198.00	9188	275.00	2424
69.00	4539	117.00	1782	199.00	506	276.00	248
74.00	522	127.00	4095	204.00	429	277.00	195
75.00	739	128.00	318	205.00	579	296.00	783
76.00	111	129.00	2093	206.00	2025	323.00	91
77.00	3684	130.00	172	207.00	363	365.00	335
78.00	272	141.00	330	217.00	733	423.00	418
79.00	297	148.00	372	221.00	350	441.00	1232
80.00	102	156.00	107	224.00	1309	442.00	7742
81.00	280	167.00	558	225.00	223	443.00	1423
86.00	91	168.00	345	227.00	698		
93.00	746	175.00	99	244.00	918		

673 1310

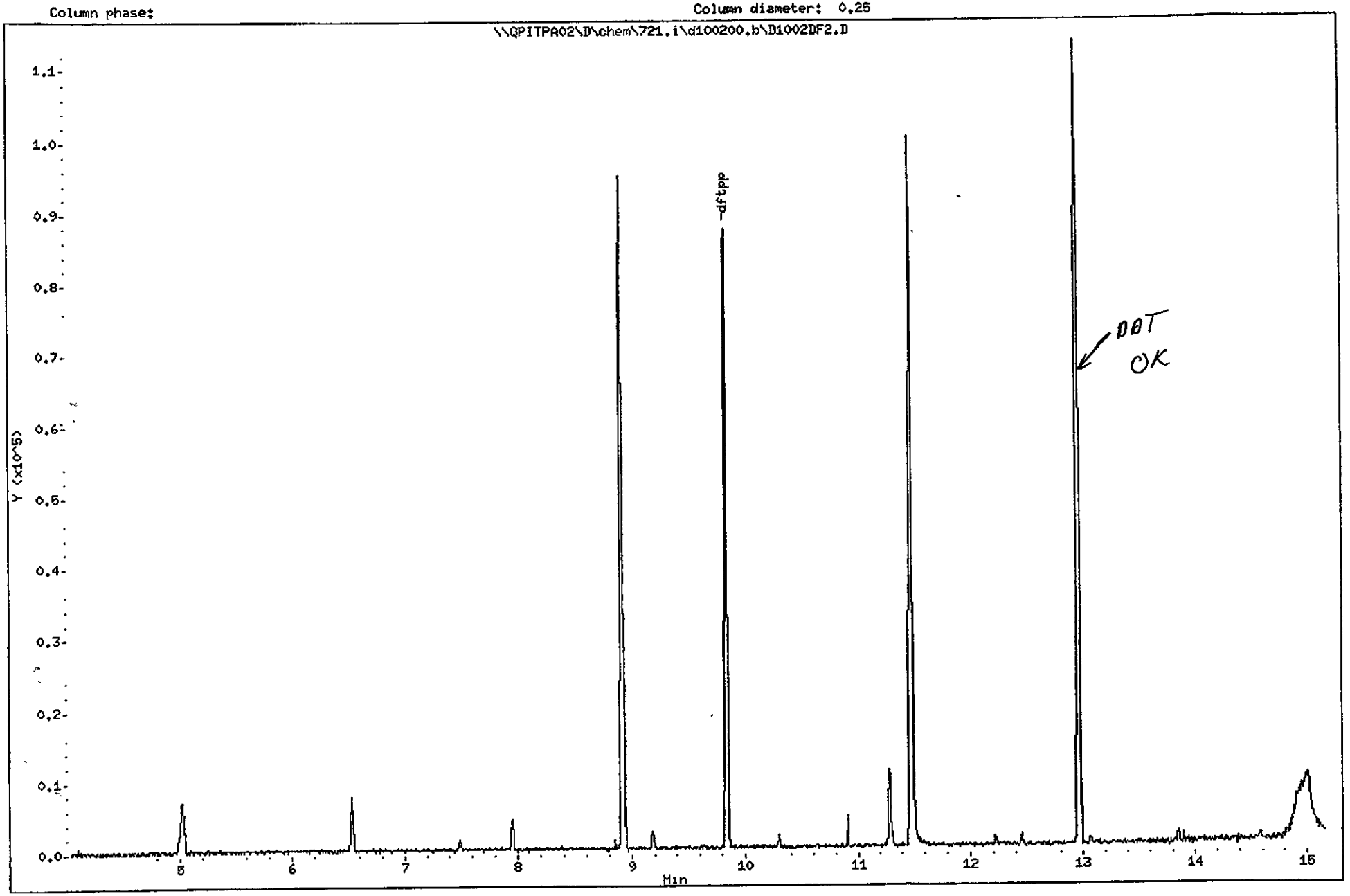
Page 2

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002DF2.D
Date : 02-OCT-2000 10:02
Client ID: DFTPP02
Sample Info: dftpp (25ug/ml) 194-175-8

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:

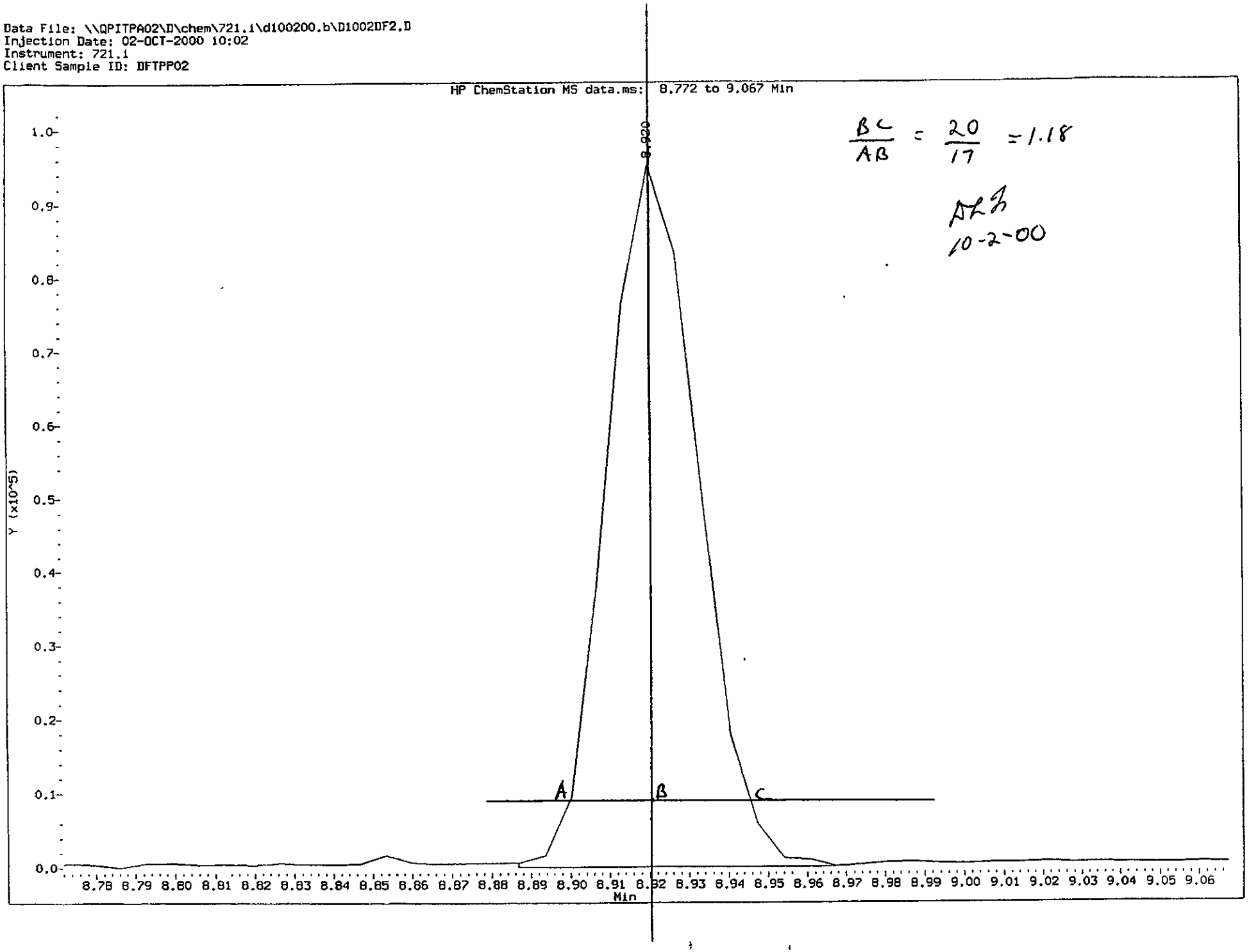


2083

STL Pittsburgh

673 1311

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002DF2.D
Injection Date: 02-OCT-2000 10:02
Instrument: 721.i
Client Sample ID: DFTPP02

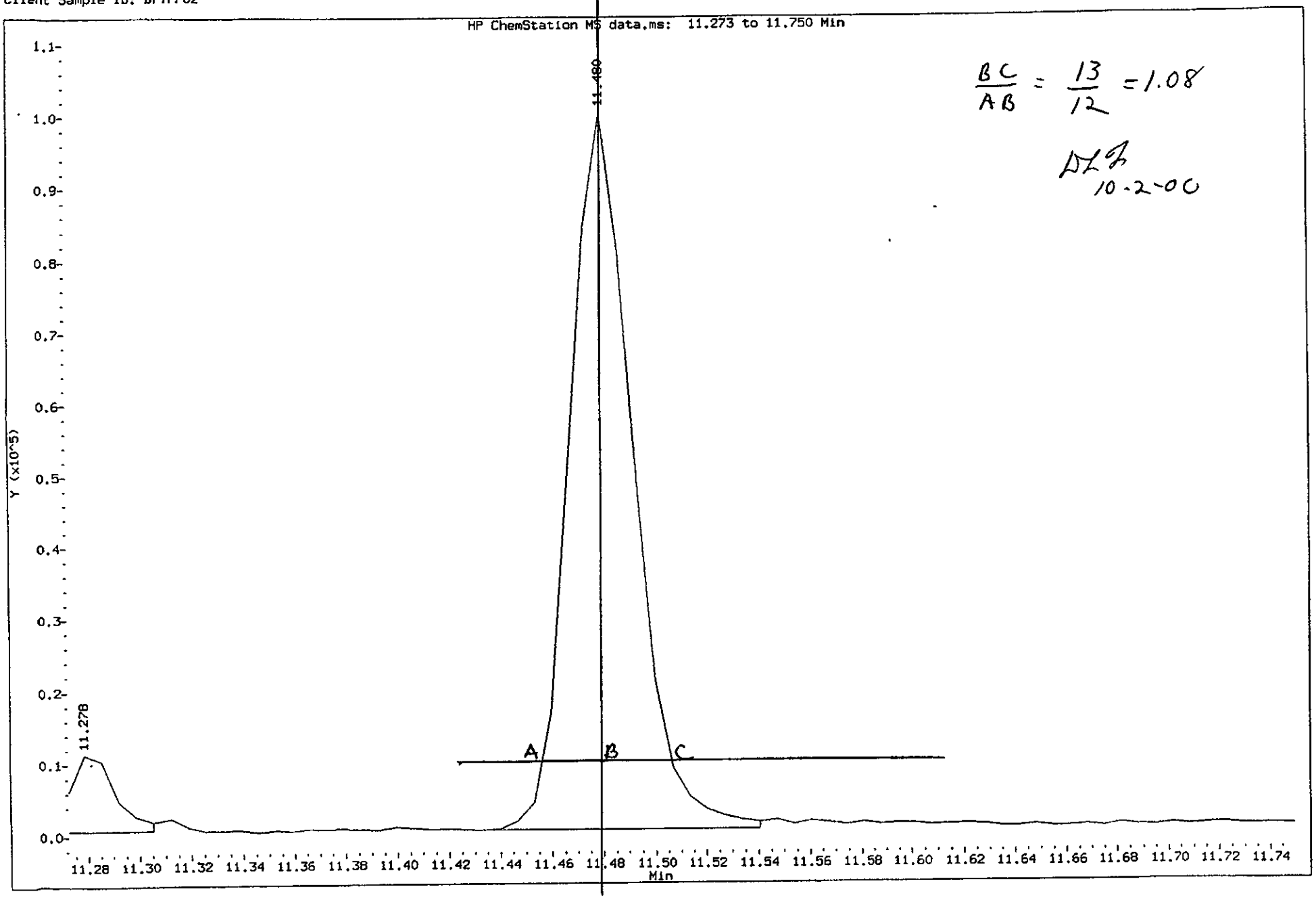


$\frac{BC}{AB} = \frac{20}{17} = 1.18$

DLH
10-2-00

673 1312

Data File: \\QPITPA02\D\chem\721.i\d100200.b\D1002DF2.D
Injection Date: 02-OCT-2000 10:02
Instrument: 721.i
Client Sample ID: DFTPP02



$\frac{BC}{AB} = \frac{13}{12} = 1.08$

DLH
10-2-00

2085

STL Pittsburgh

Data File: \\QPITPA02\D\chem\721.i\d101809.b\D1018DFT.D

Date : 18-OCT-2000 12:22

Client ID: DFTPP02

Instrument: 721.i

673 1313

Sample Info: dftpp (25ug/ml) 194-175-8

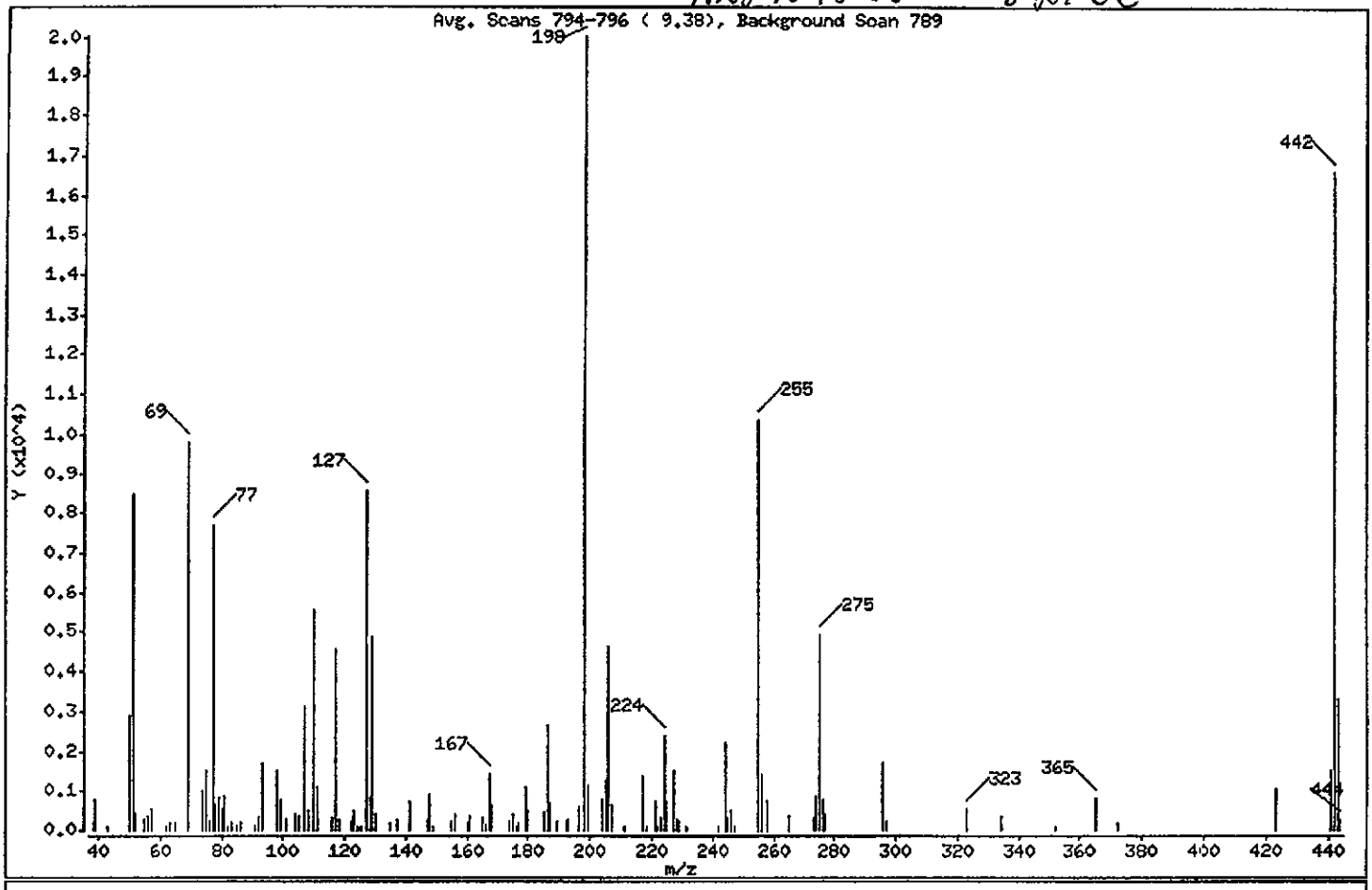
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

NZF 10-18-00 8270c



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.20
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.02
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	42.69
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.71
275	10.00 - 30.00% of mass 198	24.80
365	Greater than 1.00% of mass 198	4.14
441	Present, but less than mass 443	7.59
442	Greater than 40.00% of mass 198	82.95
443	17.00 - 23.00% of mass 442	16.60 (20.01)

Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018DFT.D

Date : 18-OCT-2000 12:22

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D1018DFT.D

Spectrum: Avg. Scans 794-796 (9.38), Background Scan 789

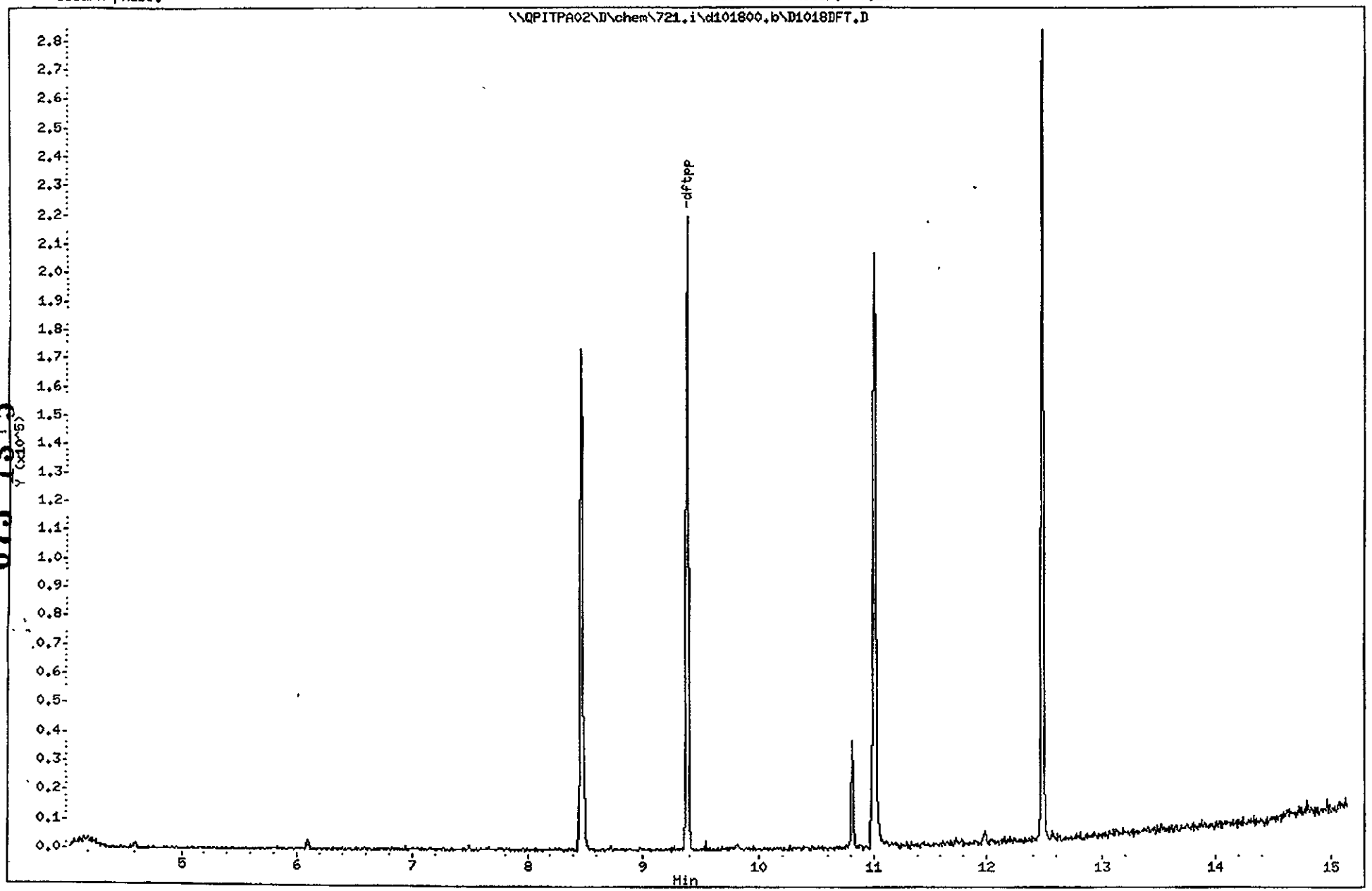
Location of Maximum: 198.00

Number of points: 119

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	181	101.00	262	167.00	1406	228.00	288
39.00	783	104.00	422	168.00	661	229.00	213
43.00	83	105.00	347	174.00	213	231.00	86
50.00	2895	107.00	3129	175.00	395	242.00	96
51.00	8453	108.00	513	176.00	101	244.00	2233
52.00	474	110.00	5581	177.00	186	245.00	328
55.00	257	111.00	1128	179.00	1113	246.00	506
56.00	370	116.00	302	180.00	491	247.00	86
57.00	535	117.00	4555	185.00	462	255.00	10360
62.00	104	118.00	265	186.00	2659	256.00	1420
63.00	170	122.00	252	187.00	710	258.00	758
65.00	186	123.00	524	189.00	223	265.00	375
69.00	9820	124.00	91	192.00	213	273.00	303
74.00	1028	125.00	111	193.00	254	274.00	897
75.00	1511	127.00	8553	196.00	612	275.00	4909
76.00	240	128.00	829	198.00	20032	276.00	784
77.00	7670	129.00	4900	199.00	1144	277.00	401
78.00	634	130.00	429	204.00	802	296.00	1719
79.00	812	135.00	200	205.00	1273	297.00	249
80.00	565	137.00	275	206.00	4658	323.00	570
81.00	861	141.00	714	207.00	653	334.00	356
82.00	103	147.00	286	211.00	100	352.00	111
83.00	183	148.00	929	217.00	1370	365.00	829
85.00	98	149.00	101	218.00	99	372.00	202
86.00	204	155.00	208	221.00	734	423.00	1046
91.00	87	156.00	410	222.00	106	441.00	1520
92.00	336	160.00	170	223.00	334	442.00	16616
93.00	1703	161.00	372	224.00	2415	443.00	3325
98.00	1539	165.00	343	225.00	758	444.00	265
99.00	778	166.00	121	227.00	1506		

Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018DFT.D
Date : 18-OCT-2000 12:22
Client ID: DFTPP02
Sample Info: dftpp (25ug/ml) 194-175-8

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25
Column phase:

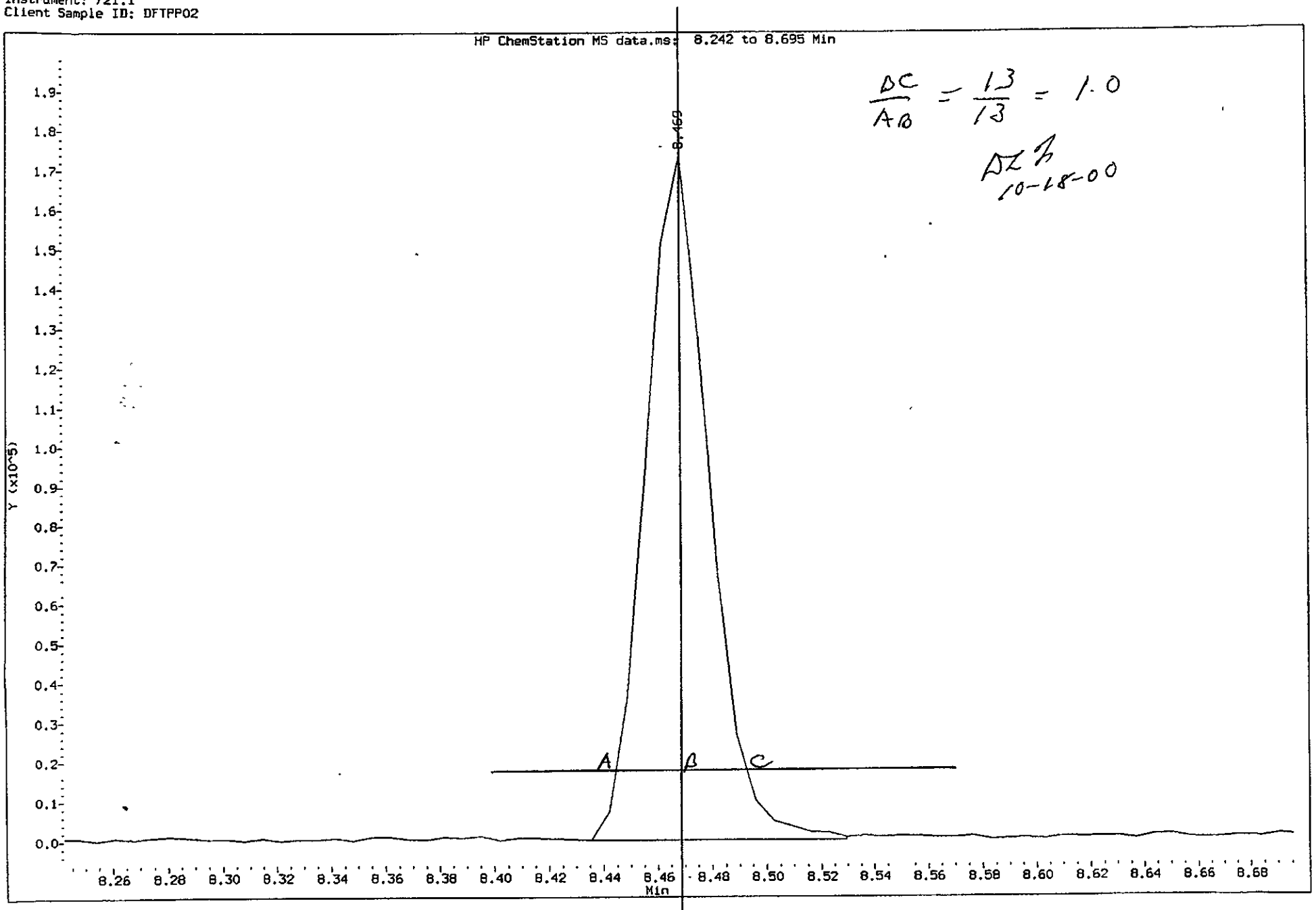


673 1315

2088

STL Pittsburgh

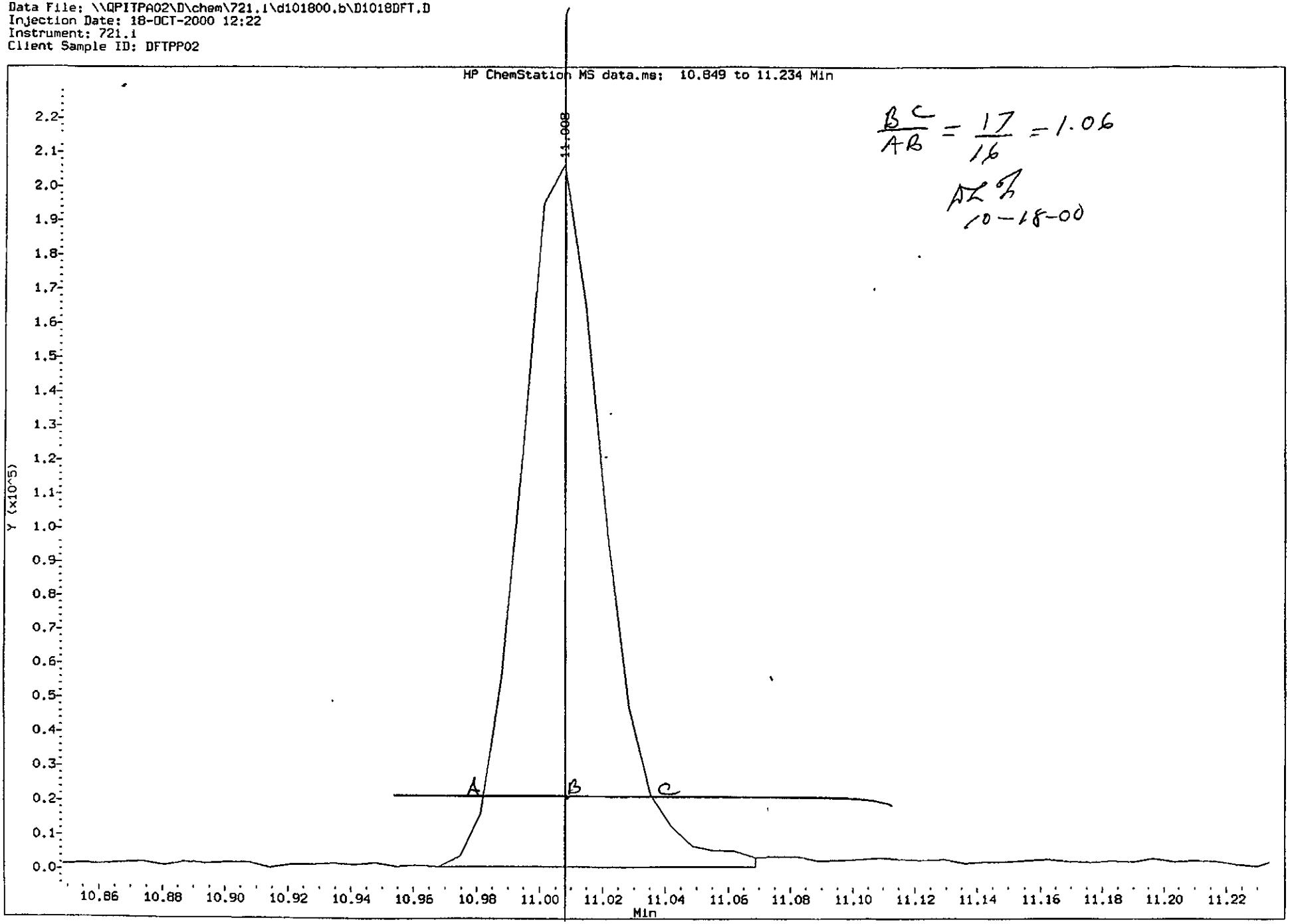
Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018DFT.D
Injection Date: 18-OCT-2000 12:22
Instrument: 721.i
Client Sample ID: DFTPP02



$\frac{DC}{AB} = \frac{13}{13} = 1.0$

DZ 10-18-00

Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018DFT.D
Injection Date: 18-OCT-2000 12:22
Instrument: 721.i
Client Sample ID: DFTPP02



$\frac{BC}{AB} = \frac{17}{16} = 1.06$

AZ 7h
10-18-00

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
50-32-8	Benzo(a)pyrene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U

673 1319

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
84-74-2	Di-n-butyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
51-28-5	2,4-Dinitrophenol	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
621-64-7	N-Nitrosodi-n-propylamine	330	U
86-30-6	N-Nitrosodiphenylamine	330	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 10/05/00
Work Order: DM8PG1AA Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:NA

QC Batch: 0290602

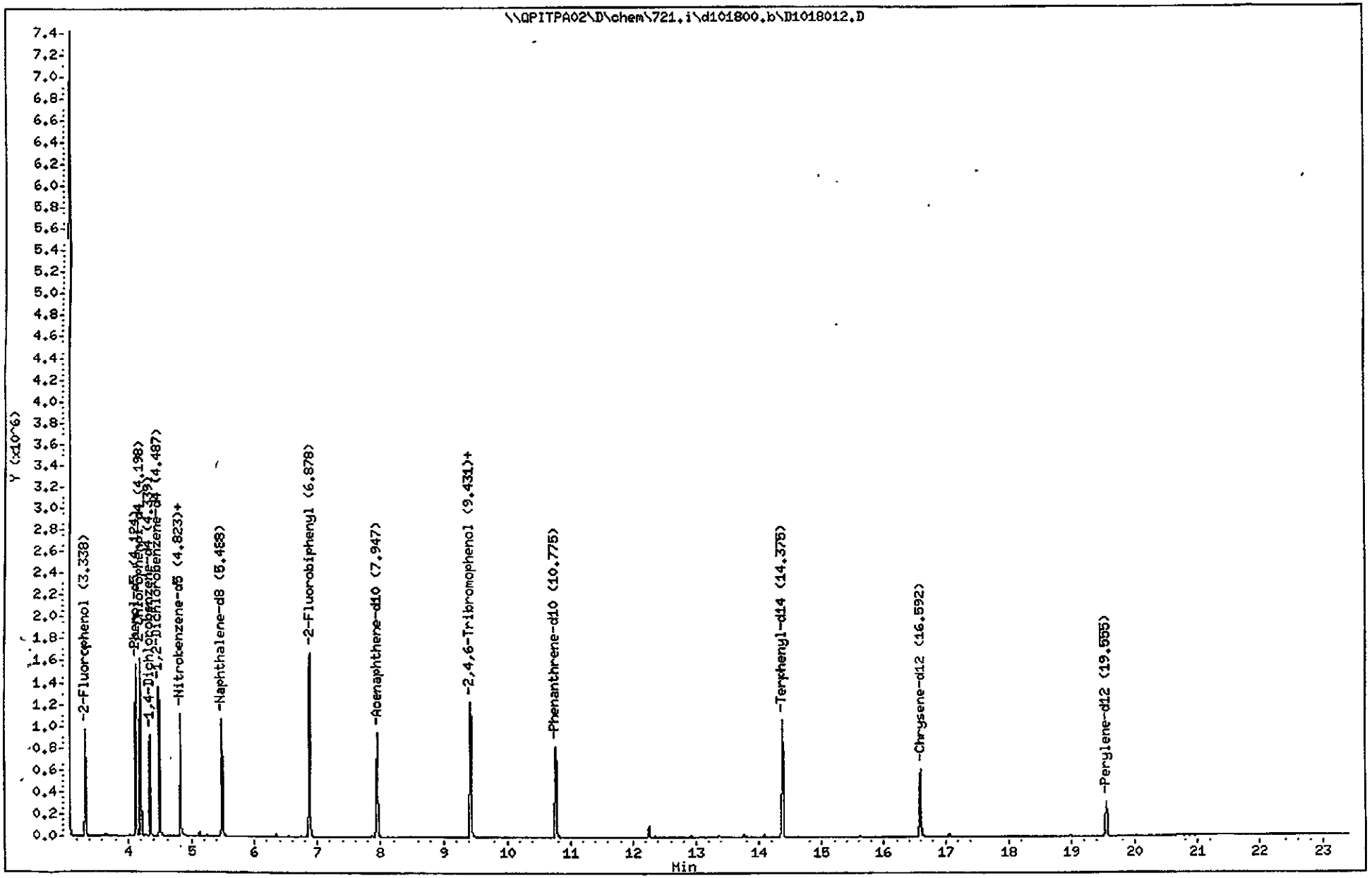
Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
88-06-2	2,4,6-Trichlorophenol	330	U

Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018012.D
Date : 18-OCT-2000 18:51
Client ID: INTRA-LAB BLANK
Sample Info: c0j050202-sblk soil 10/16/00 8270c
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 721.i

Operator: 001662, DLF
Column diameter: 0.25



673 1322

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d101800.b\D1018012.D
Lab Smp Id: DM8PG1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-OCT-2000 18:51
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j050202-sblk soil 10/16/00 8270c
Misc Info : dm8pg1aa,d101800.b,8270c.m,pader.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d101800.b\8270c.m
Meth Date : 19-Oct-2000 11:25 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 14 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pader.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-19-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	4.339	4.332	(1.000)	123515	40.0000		(Q)
* 2	Naphthalene-d8	136	5.487	5.487	(1.000)	528513	40.0000		
* 3	Acenaphthene-d10	164	7 946	7.946	(1.000)	311194	40.0000		
* 4	Phenanthrene-d10	188	10 774	10.781	(1.000)	498491	40.0000		
* 5	Chrysene-d12	240	16 592	16.599	(1.000)	369760	40.0000		
* 6	Perylene-d12	264	19.554	19 561	(1.000)	212844	40.0000		
22	Phenol	94	Compound Not Detected.						
23	bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24	2-Chlorophenol	128	Compound Not Detected.						
26	1,3-Dichlorobenzene	146	Compound Not Detected.						
27	1,4-Dichlorobenzene	146	Compound Not Detected.						
28	1,2-Dichlorobenzene	146	Compound Not Detected.						
30	2-Methylphenol	108	Compound Not Detected.						
31	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						

673 1323

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
41 Isophorone	82	Compound Not Detected.					
42 2-Nitrophenol	139	Compound Not Detected					
43 2,4-Dimethylphenol	107	Compound Not Detected.					
44 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48 2,4-Dichlorophenol	162	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51 Naphthalene	128	Compound Not Detected.					
52 4-Chloroaniline	127	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62 2-Methylnaphthalene	142	Compound Not Detected					
64 Hexachlorocyclopentadiene	236	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
70 2-Chloronaphthalene	162	Compound Not Detected.					
73 2-Nitroaniline	65	Compound Not Detected.					
76 Dimethylphthalate	163	Compound Not Detected.					
78 2,6-Dinitrotoluene	165	Compound Not Detected.					
79 Acenaphthylene	152	Compound Not Detected					
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	Compound Not Detected					
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	Compound Not Detected.					
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	Compound Not Detected.					
93 Diethylphthalate	149	Compound Not Detected.					
94 Fluorene	166	Compound Not Detected.					
95 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96 4-Nitroaniline	138	Compound Not Detected.					
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	265	Compound Not Detected.					
115 Phenanthrene	178	Compound Not Detected.					
116 Anthracene	178	Compound Not Detected.					
119 Carbazole	167	Compound Not Detected.					
120 Di-n-Butylphthalate	149	Compound Not Detected.					
123 Fluoranthene	202	Compound Not Detected.					
125 Pyrene	202	Compound Not Detected					
131 Butylbenzylphthalate	149	Compound Not Detected					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	Compound Not Detected					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
137 Chrysene	228	Compound Not Detected					
139 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
140 Di-n-octylphthalate	149	Compound Not Detected.					
141 Benzo(b)fluoranthene	252	Compound Not Detected					
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	Compound Not Detected.					
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected					
150 Dibenz(a,h)anthracene	278	Compound Not Detected					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	4.822	4.822	(0.879)	329641	59 3988	989.98
$ 155 2-Fluorobiphenyl	172	6.878	6.878	(0.866)	685402	62.4231	1040.4
$ 156 Terphenyl-d14	244	14.375	14.368	(0.866)	572544	60.5650	1009.4
$ 157 Phenol-d5	99	4.124	4.110	(0.950)	385420	81.2156	1353.6
$ 158 2-Fluorophenol	112	3.338	3.290	(0 769)	195387	51.4846	858.08
$ 159 2,4,6-Tribromophenol	330	9.431	9.437	(0.875)	240054	99.3356	1655.6
$ 186 2-Chlorophenol-d4	132	4.197	4.184	(0.967)	375107	96.5889	1609.8
$ 187 1,2-Dichlorobenzene-d4	152	4.486	4.486	(1.034)	174627	58.5026	975.04

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID
Lab Sample ID: C0J160000 602
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g
Date Received: 10/05/00
Work Order: DM8PG1AC
Date Extracted: 10/16/00
Dilution factor: 1
Date Analyzed: 10/18/00
Moisture %: NA

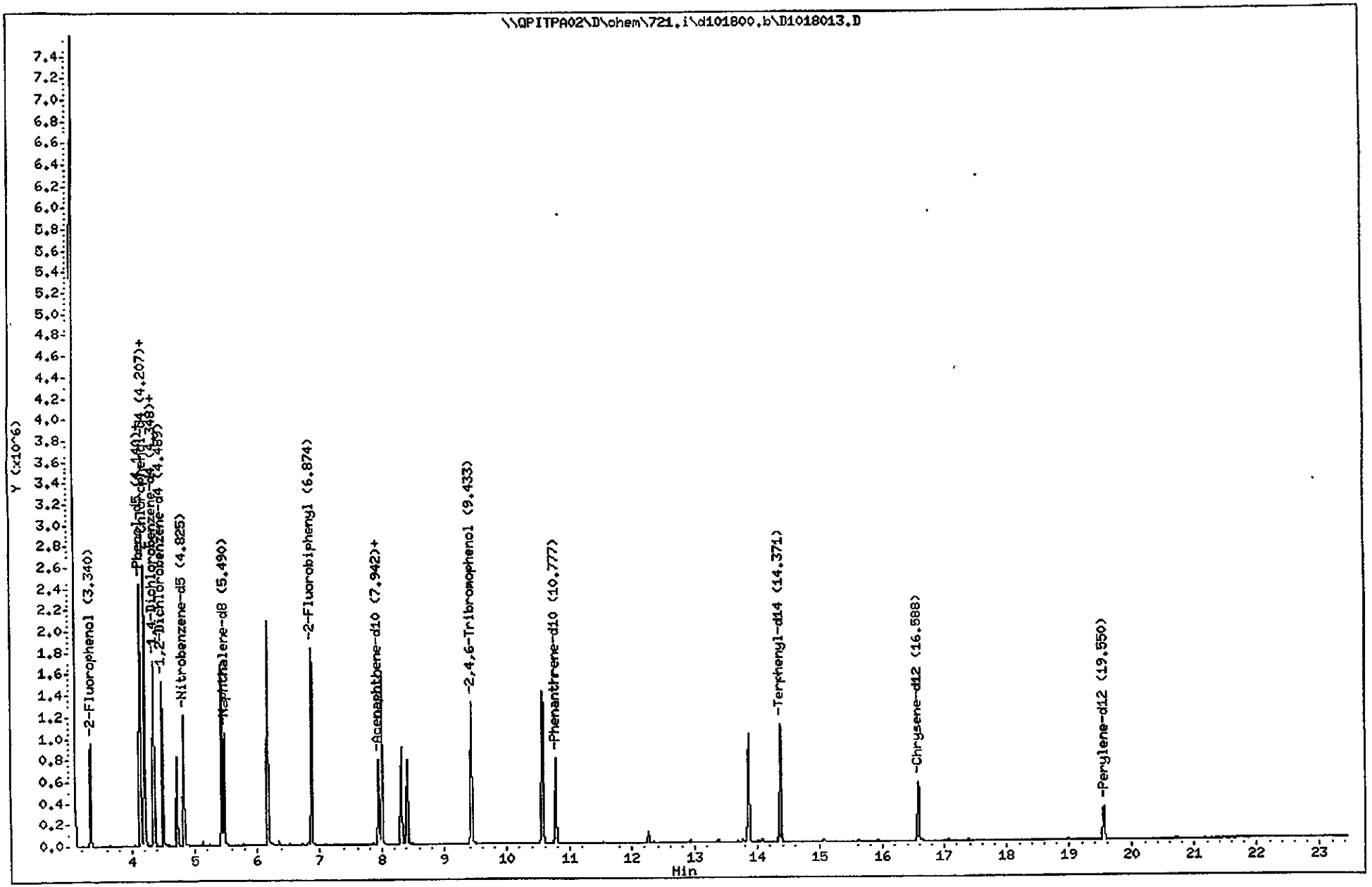
QC Batch: 0290602

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1160	
59-50-7	4-Chloro-3-methylphenol	1880	
95-57-8	2-Chlorophenol	1750	
106-46-7	1,4-Dichlorobenzene	1110	
121-14-2	2,4-Dinitrotoluene	1120	
100-02-7	4-Nitrophenol	1900	
621-64-7	N-Nitrosodi-n-propylamine	1080	
87-86-5	Pentachlorophenol	1780	
108-95-2	Phenol	1550	
129-00-0	Pyrene	1300	
120-82-1	1,2,4-Trichlorobenzene	1150	

Data File: \\QPITPA02\D\chem\721.i\d101800.b\D1018013.D
Date : 18-OCT-2000 19:20
Client ID: INTRA-LAB CHECK
Sample Info: e0j050202-lcs soil 10/16/00 8270c
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25



673 1327

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d101800.b\D1018013.D
Lab Smp Id: DM8PG1AC Client Smp ID: LCS
Inj Date : 18-OCT-2000 19:20
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j050202-lcs soil 10/16/00 8270c
Misc Info : dm8pg1ac,d101800.b,8270c.m,pader.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d101800.b\8270c.m
Meth Date : 19-Oct-2000 11:25 ferguson Quant Type: ISTD
Cal Date : 02-OCT-2000 12:23 Cal File: D1002CC5.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pader.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-19-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	4.341	4.332	(1.000)	122774	40.0000	
* 2 Naphthalene-d8	136	5.489	5.487	(1.000)	499152	40.0000	
* 3 Acenaphthene-d10	164	7.948	7.946	(1.000)	286788	40.0000	
* 4 Phenanthrene-d10	188	10 776	10 781	(1.000)	477394	40.0000	
* 5 Chrysene-d12	240	16.587	16.599	(1.000)	335043	40.0000	
* 6 Perylene-d12	264	19.550	19 561	(1.000)	207235	40.0000	
22 Phenol	94	4.139	4.123	(0.954)	463194	92.7798	1546.3(Q)
23 bis(2-Chloroethyl)ether	93	Compound Not Detected					
24 2-Chlorophenol	128	4.206	4.197	(0.969)	434714	105.269	1754.5
26 1,3-Dichlorobenzene	146	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	4.354	4.345	(1.003)	310350	66 4047	1106.7
28 1,2-Dichlorobenzene	146	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
31 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					

673 1328

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
32 N-Nitroso-di-n-propylamine	70	4.717	4.721	(1.087)	161435	64.9823	1083.0
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
41 Isophorone	82	Compound Not Detected.					
42 2-Nitrophenol	139	Compound Not Detected.					
43 2,4-Dimethylphenol	107	Compound Not Detected.					
44 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48 2,4-Dichlorophenol	162	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	5.442	5.447	(0.991)	329161	69.1707	1152.8
51 Naphthalene	128	Compound Not Detected.					
52 4-Chloroaniline	127	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	6.175	6.186	(1.125)	457606	112.966	1882 8
62 2-Methylnaphthalene	142	Compound Not Detected.					
64 Hexachlorocyclopentadiene	236	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
70 2-Chloronaphthalene	162	Compound Not Detected.					
73 2-Nitroaniline	65	Compound Not Detected.					
76 Dimethylphthalate	163	Compound Not Detected.					
78 2,6-Dinitrotoluene	165	Compound Not Detected.					
79 Acenaphthylene	152	Compound Not Detected.					
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	8 002	8.006	(1.007)	554421	69.4004	1156.7
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	8.324	8.315	(1.047)	245046	113.985	1899.8
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	8.412	8.416	(1.058)	224040	67.1615	1119 4
93 Diethylphthalate	149	Compound Not Detected.					
94 Fluorene	166	Compound Not Detected.					
95 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96 4-Nitroaniline	138	Compound Not Detected.					
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	266	10.568	10.573	(0.981)	264391	106.711	1778.5
115 Phenanthrene	178	Compound Not Detected.					
116 Anthracene	178	Compound Not Detected.					
119 Carbazole	167	Compound Not Detected.					
120 Di-n-Butylphthalate	149	Compound Not Detected.					
123 Fluoranthene	202	Compound Not Detected.					
125 Pyrene	202	13.867	13.858	(0.836)	766108	78.1896	1303.2
131 Butylbenzylphthalate	149	Compound Not Detected					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	Compound Not Detected.					

673 1329

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
137 Chrysene	228	Compound Not Detected					
139 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
140 Di-n-octylphthalate	149	Compound Not Detected.					
141 Benzo(b)fluoranthene	252	Compound Not Detected.					
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	Compound Not Detected.					
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	4.824	4 822	(0 879)	344785	65.7821	1096.4
$ 155 2-Fluorobiphenyl	172	6.873	6.878	(0.865)	715396	70 6995	1178.3
$ 156 Terphenyl-d14	244	14.377	14.368	(0.867)	580668	67.7892	1129.8
$ 157 Phenol-d5	99	4.132	4.110	(0.952)	461987	97.9374	1632.3
$ 158 2-Fluorophenol	112	3.340	3.290	(0.769)	213059	56.4801	941 33
$ 159 2,4,6-Tribromophenol	330	9.433	9.437	(0.875)	255400	110.356	1839.3
$ 186 2-Chlorophenol-d4	132	4.200	4.184	(0.968)	427354	110.707	1845.1
$ 187 1,2-Dichlorobenzene-d4	152	4.488	4 486	(1.034)	189339	63.8142	1063.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.

673 1330

GC/MS SEMIVOLATILE
MISCELLANEOUS

STL - Pittsburgh B#D290602 — Sonication Extraction Worksheet

Logbook ID: OP4

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
10-16-00	10-18-00	8270C	3550B	MeCl/Acetone	T23272/H451/H1465	Baker/Mallinckrodt	NA

	Lot Number	Sample ID	Client ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	COJ050202	BLK	NA	30.0g	1.0	77-02-07	0.5ml	NA	NA	NA
2		LCS		30.0g				77-02-03	0.5ml	
3		003MS		30.0g						
4.		003MSD		30.0g						
5		003		30.0g				NA	NA	
6.	COJ140161	001		30.0g	1.0					
7										
8										
9.										
10										
11.										
12.										
13.										
14.										
15.										
16										
17										
18.										
19.										
20.										
21										
22.										
23										
Analyst	BP	B.P	B.P.	B.P.	KG	B.P.	B.P.	B.P	B.P.	B P.

B.P. 10-16-00

Extract(s) (record line # from above)

Extract(s) Received

Date	Time	Analyst	Location
10-16-00	1910	Brian G. Pfab	Org. Prep.
10-18-00	0800	Ken Dietz	Ref 12-EXT
10-18-00	1210	Dan Leguen	Ref 01 BNA

Extract(s) Relinquished

Date	Time	Analyst	Location
10-16-00	1920	Brian G. Pfab	REFRIGEX
10-18-00	1055	Ken Dietz	Ref 01-BNA
10-18-00	1445	Dan Leguen	REF 02 BNP

All Above
All Above
all above

Sodium Sulfate Mfg/Lot Number: Baker / T24596

Reviewed by: Ken Dietz

Date: 10-18-00

2104

Sequence Name: D:\HPCHEM\1\SEQUENCE\D100200.S [redacted]
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d100200.b\
Pre-Seq Cmd:
Post-Seq Cmd:

673 1332 NEW COLUMN

DLF 10-2-00

NEW 5 PTS

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

I.S = 194-183-6

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D1002WUP	70EARLY	warm up 120
2	Sample	1	D1002DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample	1	D1002DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
4	Sample	2	D1002CC1	70EARLY	sstd020 (10ug/ml) 77-01-5 827
5	Sample	3	D1002CC2	70EARLY	sstd050 (25ug/ml) 77-01-6 827
6	Sample	4	D1002CC3	70EARLY	sstd080 (40ug/ml) 77-01-7 827
7	Sample	5	D1002CC4	70EARLY	sstd120 (60ug/ml) 77-01-8 827
8	Sample	6	D1002CC5	70EARLY	sstd160 (80ug/ml) 77-01-9 827
9	Sample	7	D1002STV	70EARLY	std ver 194-183-8
10	Sample	1	D1002DF3	DFTHP90	dftpp (25ug/ml) 194-175-8
11	Sample	3	D1002CCC	70EARLY	sstd050 (25ug/ml) 77-01-6 827
12	Sample	4	D1002001	CLP	c0i200158-sblk soil 9/20/00 c
13	Sample	10	D1002007	CLP	c0i200159-004 soil 9/20/00 cl — SENT FOR REX
14	Sample	5	D1002002	CLPOK	c0i200158-001 soil 9/20/00 cl
15	Sample	6	D1002003	CLPOK	c0i200158-001ms soil 9/20/00
16	Sample	7	D1002004	CLPOK	c0i200158-001msd soil 9/20/00
17	Sample	8	D1002005	CLP	c0i200158-002 soil 9/20/00 cl
18	Sample	9	D1002006	CLPOK	c0i200159-003 soil 9/20/00 cl
19	Sample	11	D1002008	CLP-CLEAN	c0i210287-sblk soil 9/25/00 c
20	Sample	12	D1002009	CLPOK	c0i210287-002 soil 9/25/00 cl
21	Sample	13	D1002010	CLP	c0i210287-003 soil 9/25/00 cl
22	Sample	14	D1002011	CLP	c0i210287-003ms soil 9/25/00
23	Sample	15	D1002012	CLP	c0i210287-003msd soil 9/25/00
24	Sample	16	D1002013	CLP	c0i210287-004 soil 9/25/00 cl
25	Sample	17	D1002014	CLP	c0i210287-005 soil 9/25/00 cl
26	Sample	18	D1002015	CLP	c0i210287-006 soil 9/25/00 cl
27	Sample	19	D1002016	CLP	c0i210287-007 soil 9/25/00 cl — SENT FOR REX
28	Sample	20	D1002017	CLP	c0i210287-008 soil 9/25/00 cl
29	Sample	21	D1002018	CLP	c0i210287-009 soil 9/25/00 cl
30	Sample	22	D1002019	CLP	c0i210287-010 soil 9/25/00 cl
31	Sample	23	D1002020	CLP	c0i210287-011 soil 9/25/00 cl
32	Sample	24	D1002021	CLP	c0i210287-012 soil 9/25/00 cl
33	Sample	25	D1002022	CLP	c0i210287-013 soil 9/25/00 cl
34	Sample	26	D1002023	CLP	blank
35	Sample	27	D1002024	8270C	c0i250134-sblk h2o 9/27/00 62
36	Sample	28	D1002025	8270C	c0i250134-lcs h2o 9/27/00 625
37	Sample	29	D1002026	8270C	c0i250134-lcsd h2o 9/27/00 62
38	Sample	30	D1002027	8270C	c0i250134-001 h2o 9/27/00 625
39	Sample	31	D1002028	8270C	c0i250134-002 h2o 9/27/00 625
40	Sample	32	D1002029	8270C	c0i250134-005 h2o 9/27/00 625
41	Sample	33	D1002030	8270C	c0i250134-006 h2o 9/27/00 625
42	Sample	34	D1002031	8270C	c0i250134-007 h2o 9/27/00 625 — SENT FOR RAT
43	Sample	35	D1002032	8270C	c0i250134-008 h2o 9/27/00 625

10/11/00

Last Modified: Mon Oct 02 15:32:40 2000

Sequence Name: D:\HPCHEM\1\SEQUENCE\D101800.S[redacted]
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d101800.b\
Pre-Seq Cmd:
Post-Seq Cmd:

673 1333

DLF 10-18-00

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

I.S = 194-183-6

8270C

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D1018WUP	70EARLY	warm up 50
2	Sample 1222 10-18-00	1	D1018DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample 8270C	2	D1018CCC	70EARLY	sstd050 (25ug/ml) 77-02-9 827
4	Sample METHOD BLK	3	D1018001	8270C	c0J050173-sblk soil 10/11/00
5	Sample PQ	4	D1018002	8270C	c0J050173-004 10x soil 10/11/ DLKJ3202
6	Sample PQ	5	D1018003	8270C	c0J050173-005 3x soil 10/11/0 DLKJ5202
7	Sample PQ	6	D1018004	8270C	c0J050173-007 2x soil 10/11/0 DLKJ9202
8	Sample PQ	7	D1018005	8270C	c0J050173-015 soil 10/11/00 8
SCN 9	Sample PQ	8	D1018006	8270C	c0J050173-016 4x soil 10/11/0
AGD SV 10	Sample PQ	9	D1018007	8270C	c0J050173-017 soil 10/11/00 8
11	Sample PQ	10	D1018008	8270C	c0J050173-018 soil 10/11/00 8
12	Sample PQ	11	D1018009	8270C	c0J050173-019 soil 10/11/00 8
SURV 13	Sample Q	12	D1018010	8270C	c0J050173-002 10x soil 10/11/ MATRIX
14	Sample	13	D1018011	8270C	blank
15	Sample PQT-AND HEX	14	D1018012	8270C	c0j050202-sblk soil 10/16/00
16	Sample PQ	15	D1018013	8270C	c0j050202-lcs soil 10/16/00 8
17	Sample PQ	16	D1018014	8270C	c0j140161-001 soil 10/16/00 8
CONFIRMS 18	Sample QT	17	D1018015	8270C	c0j050202-003/re soil 10/16/0
19	Sample PQ	18	D1018016	8270C	c0j050202-003ms/re soil 10/16
20	Sample PQ	19	D1018017	8270C	c0j050202-003msd/re soil 10/1
21	Sample PQ-CLEAN	20	D1018018	8270C	c0j100175-sblk H2O 10/11/00 8
22	Sample PQ	21	D1018019	8270C	c0j100175-lcs H2O 10/11/00 82
23	Sample PQ	22	D1018020	8270C	c0j100175-lcsd H2O 10/11/00 8
24	Sample PQ	23	D1018021	8270C	c0j100175-001 H2O 10/11/00 82
25	Sample PQ	24	D1018022	8270C	c0j100175-002 H2O 10/11/00 82
26	Sample PQ	25	D1018023	8270C	c0j100175-003 H2O 10/11/00 82
27	Sample	26	D1018024	8270C	blank
28	Sample	26	D1018025	8270C	blank

Last Modified: Wed Oct 18 14:49:11 2000

REQUESTED BY: **PINOB**

673 1334

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

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
22A CLP1	DLKRG-2-03	___ ___ ___	273700	051465	A-13-QL	COJ050202	003	QC	SOLID	0 3	1
5E	DM650-1-AD	___ ___ ___	273701	399411	A-13-QL	COJ140161	001		SOLID	0 2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Brian A. Pino	Brian A. Pino	10-16-00 1345
Brian A. Pino	Brian A. Pino	10-16-00 1900

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

PESTICIDE DATA

PESTICIDE
QC SUMMARY

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

GC Column(1): DB1701 ID: 0.53 (mm) GC Column(2): DB608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/S1/0287/T	79	77	95	105			0
02	DF/S1/0287/T	94	95	107	122			0
03	DF/S1/0287/T	84	84	96	111			0
04	PBLK	102	102	103	101			0
05	LCS	100	101	103	100			0
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (41-130)
S2 (DCB) = Decachlorobiphenyl (50-131)

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

SW846 8081A CHECK SAMPLE RECOVERY

673 1338

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

Lab Code: QESPIT SDG No:

Lot #: C0J160000 WO #: DM8PW1AC
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	8.33	8.14	98	47- 130	
Heptachlor	8.33	8.15	98	39- 126	
Aldrin	8.33	8.14	98	39- 122	
Dieldrin	16.7	16.4	98	45- 128	
Endrin	16.7	16.8	101	47- 133	
4,4'-DDT	16.7	16.4	98	35- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code. QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CE
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	9.35	ND	7.94	85	33- 130	
Heptachlor	9.35	ND	9.05	97	32- 128	
Aldrin	9.35	ND	8.94	96	33- 122	
Dieldrin	18.7	26	44.8	102	33- 133	
Endrin	18.7	ND	19.0	102	33- 138	
4,4'-DDT	18.7	56	60.6	23	23- 144	

NOTES(S):

Results and reporting limits have been adjusted for dry weight

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

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

673 1340

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CF
BATCH: 0290608

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	9.35	6.72	72	17	36	33 - 130	
Heptachlor	9.35	8.18	87	10	44	32 - 128	
Aldrin	9.35	8.07	86	10	40	33 - 122	
Dieldrin	18.7	40.3	78	11	33	33 - 133	
Endrin	18.7	16.8	90	12	38	33 - 138	
4,4'-DDT	18.7	55.0	0*	0.0	42	23 - 144	a

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits

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: 1 out of 6 outside limits

COMMENTS:

FORM III

673 1341 PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM8PW1AA Lab File ID: D-A7312

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SW3550

Sulfur Cleanup (Y/N) N Date Extracted: 10/16/00

Date Analyzed (1): 10/18/00 Date Analyzed (2): 10/18/00

Time Analyzed (1): 1858 Time Analyzed (2): 1858

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	DF/S1/0287/T	DM6501AE	10/18/00	10/18/00
02	DF/S1/0287/T	DM6501CE	10/18/00	10/18/00
03	DF/S1/0287/T	DM6501CF	10/18/00	10/18/00
04	LCS	DM8PW1AC	10/18/00	10/18/00
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

673 1342

PESTICIDE
SAMPLE DATA

UXB INTERNATIONAL

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501AE
Dilution factor: 2
Moisture %.11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	3.8	U
319-84-6	alpha-BHC	3.8	U
319-85-7	beta-BHC	3.8	U
319-86-8	delta-BHC	3.8	U
58-89-9	gamma-BHC (Lindane)	3.8	U
5103-71-9	**alpha-Chlordane**	**1.4**	**J**
5103-74-2	gamma-Chlordane	1.1	J
72-54-8	4,4'-DDD	6.8	P
72-55-9	4,4'-DDE	36	
50-29-3	4,4'-DDT	56	
60-57-1	Dieldrin	26	
959-98-8	Endosulfan I	3.8	U
33213-65-9	Endosulfan II	3.8	U
53494-70-5	Endrin ketone	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
76-44-8	Heptachlor	3.8	U
1024-57-3	Heptachlor epoxide	3.8	U
8001-35-2	Toxaphene	150	U
72-43-5	Methoxychlor	38	U

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7309.d
Report Date: 19-Oct-2000 13:40

673 1344

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7309.d
Lab Smp Id: DM6501AE Client Smp ID: DF/S1/0287/TOTAL/00
Inj Date : 18-OCT-2000 17:34
Operator : 1891 Inst ID: gc4.i
Smp Info : DM6501AE,7020-G.b,,PEST.sub,2,,
Misc Info : 140161001
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1	Tetrachloro-m-xylene	5.433	5.440	-0.007	23577	0 00786	5.241
5	alpha-BHC	Compound Not Detected.					
6	gamma-BHC (Lindane)	Compound Not Detected.					
9	Chlordane	Compound Not Detected.					
10	Heptachlor	Compound Not Detected.					
11	Aldrin	Compound Not Detected.					
7	beta-BHC	11.820	11.853	-0.033	4656	0.00244	1 629(a)
8	delta-BHC	Compound Not Detected.					
12	Heptachlor epoxide	Compound Not Detected.					
15	Endosulfan I	Compound Not Detected.					
13	gamma-Chlordane	13.780	13.780	0.000	6298	0.00149	0.9923(a)
14	alpha-Chlordane	13.886	13.880	0.006	8829	0.00215	1.430(a)
16	4,4'-DDE	14.053	14.060	-0.007	197750	0 04869	32.46
17	Dieldrin	14.333	14.333	0.000	145839	0.03436	22.91
20	Endrin	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7309.d
Report Date: 19-Oct-2000 13:40

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
18 Toxaphene	Compound Not Detected.					
21 4,4'-DDD	15.193	15.193	0 000	26026	0.00904	6.024
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15.480	15.480	0 000	229057	0 07524	50.16
24 Endrin aldehyde	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
$ 30 Decachlorobiphenyl	19 686	19.686	0 000	20643	0 00950	6 336

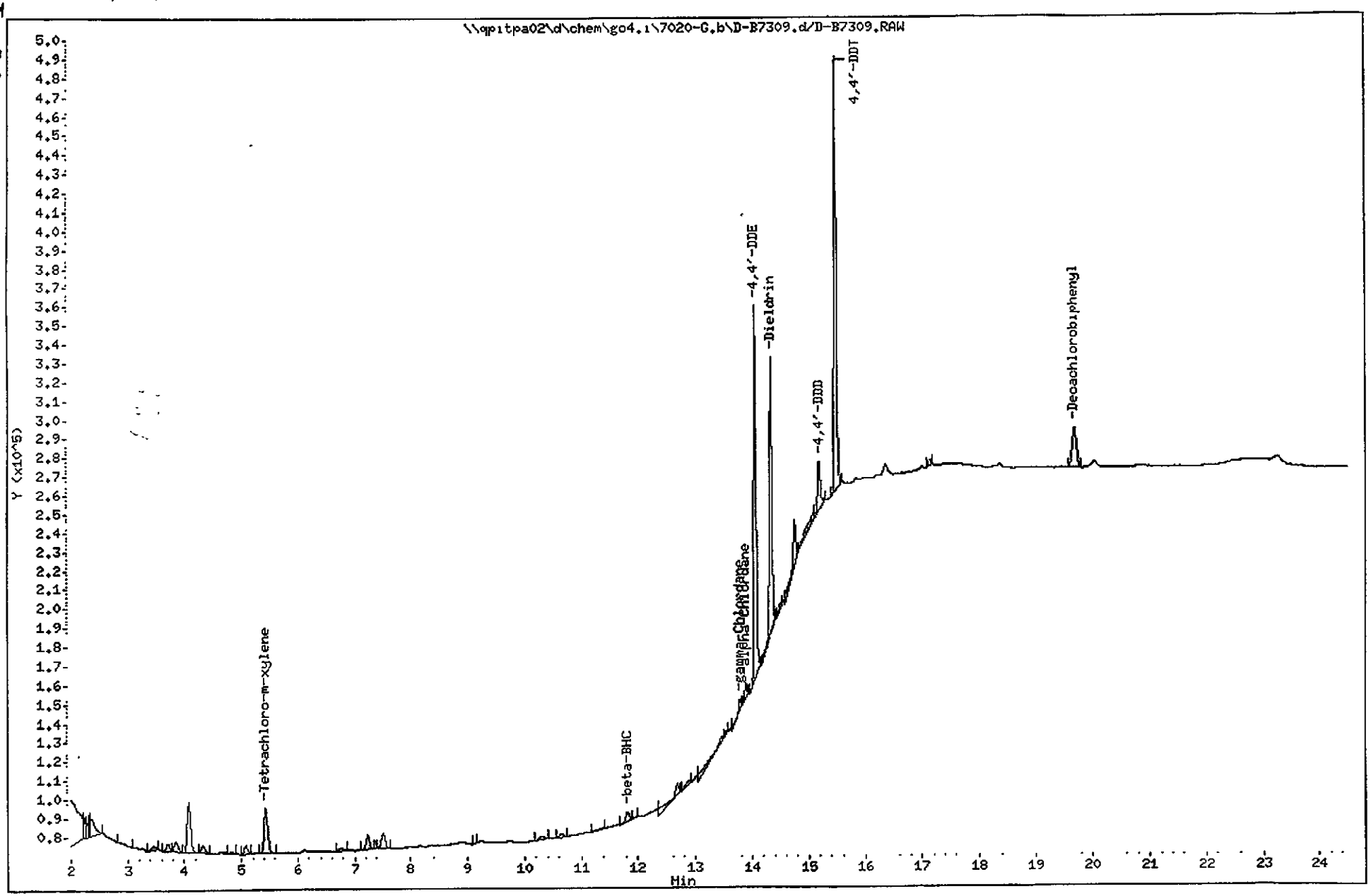
QC Flag Legend

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

673 1346

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7309.d
Date : 18-OCT-2000 17:34
Client ID: DF/S1/0287/TOTAL/00
Sample Info: DM6501AE,7020-G.b,,PEST.sub,2,,
Volume Injected (uL): 1.0
Column phase: DB1701

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



3012

STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7309.d
Report Date: 19-Oct-2000 13:34

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7309.d
Lab Smp Id: DM6501AE Client Smp ID: DF/S1/0287/TOTAL/00
Inj Date : 18-OCT-2000 17:34
Operator : 01891 Inst ID: gc4.i
Smp Info : DM6501AE,7020-G.b,,PEST.sub,2,,
Misc Info : 140161001
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

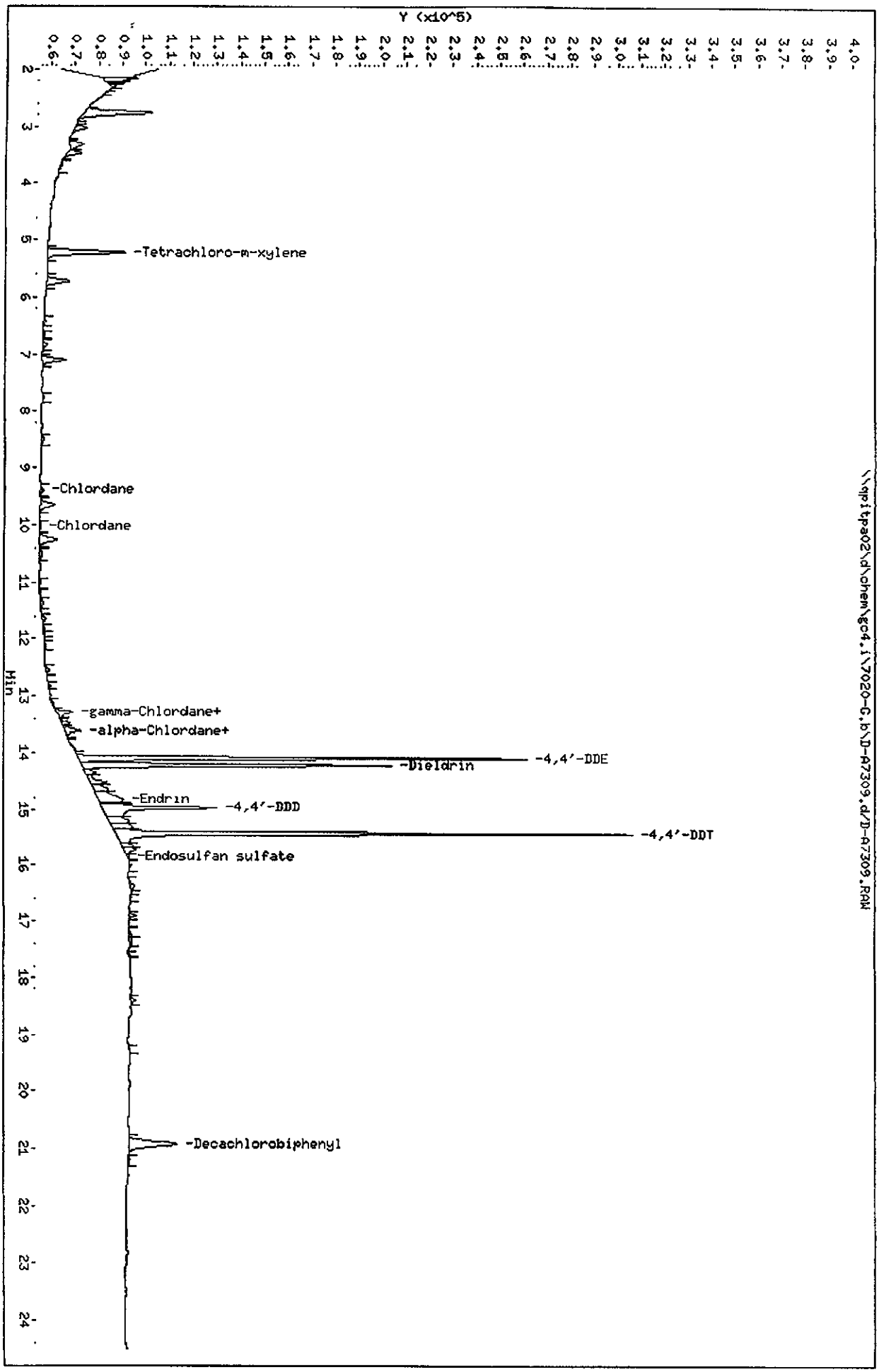
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5.226	5 226	0 000	32604	0 00771	5 140
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	Compound Not Detected.					
7 beta-BHC	Compound Not Detected.					
9 Chlordane	9 386	9 380	0.006	1275	0.01204	8.028(a)
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	13 280	13.280	0 000	6983	0.00181	1 207(a)
14 alpha-Chlordane	13 606	13 613	-0.007	7021	0.00183	1 217(a)
15 Endosulfan I	Compound Not Detected.					
16 4,4'-DDE	14.086	14.086	0.000	188849	0.04994	33 29
17 Dieldrin	14 213	14.213	0.000	130287	0.03522	23.48
20 Endrin	14 820	14 800	0.020	10281	0.00340	2 266(a)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21 4,4'-DDD	14 960	14 953	0.007	47956	0 01650	11 00
18 Toxaphene	Compound Not Detected					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15 426	15.426	0.000	217857	0.07909	52 73
24 Endrin aldehyde	Compound Not Detected.					
26 Endosulfan sulfate	15 840	15.826	0 014	1081	<0 0	0 2916(a)
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
$ 30 Decachlorobiphenyl	20.913	20.920	-0.007	20160	0.01047	6 977

QC Flag Legend

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

673 1349


Data File: \\mpitpa02\dfchem\gc4.i\7020-G.b\D-A7309.d
Date : 18-OCT-2000 17:34
Client ID: DF/SL/0287/TOTAL/00
Sample Info: DM6501AE,7020-G.b,,PEST,sub,2,,
Volume Injected (uL): 1.0
Column phase: DB608
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53
\\mpitpa02\dchem\gc4.i\7020-G.b\D-A7309.d\D-A7309.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-gamma-Chlordane+
-alpha-Chlordane+
-Dieldrin
-4,4'-DDE
-Endrin
-4,4'-DDD
-4,4'-DDT
-Endosulfan sulfate
-Decachlorobiphenyl

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

673 1350

EPA SAMPLE NO.

DF/S1/028
7/TOTAL/00

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM6501AE Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	14.21	14.16	14.26	23.48	
	2	14.33	14.28	14.38	22.91	2.5
4,4'-DDE	1	14.09	14.04	14.14	33.29	
	2	14.05	14.01	14.11	32.46	2.6
4,4'-DDD	1	14.96	14.90	15.00	11.00	
	2	15.19	15.14	15.24	6.024	82.6
4,4'-DDT	1	15.43	15.38	15.48	52.73	
	2	15.48	15.43	15.53	50.16	5.1
alpha-Chlordane	1	13.61	13.56	13.66	1.217	
	2	13.89	13.83	13.93	1.430	17.5
gamma-Chlordane	1	13.28	13.23	13.33	1.207	
	2	13.78	13.73	13.83	0.9923	21.6
	1					
	2					
	1					
	2					

673 1351

PESTICIDE
CALIBRATION DATA

GD
589048
061201

673 1352

Report Date : 19-Oct-2000 13:37

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Quant Method : ESTD
Last Update : 19-Oct-2000 13:31
Data Type : GC MULTI COMP
Target Version : 4.04
Number of Cpnds : 31

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	5.440	5.390-5.490	3.00e+006
	58	MIREX	16.827	16.777-16.877	
	2	Diallate A	7.087	7.037-7.137	
	3	Diallate B	7.667	7.617-7.717	
	4	HEXACHLOROBENZENE	6.987	6.937-7.037	
	5	alpha-BHC	8.080	8.030-8.130	4.00e+006
	6	gamma-BHC (Lindane)	9.420	9.370-9.470	3.57e+006
	7	beta-BHC	11.853	11.803-11.903	1.91e+006
	8	delta-BHC	12.593	12.543-12.643	4.01e+006
	9	Chlordane	9.760	9.710-9.810	1.17e+005
			10.367	10.317-10.417	1.64e+005
			13.780	13.730-13.830	4.25e+005
			13.893	13.843-13.943	5.92e+005
	10	Heptachlor	10.367	10.317-10.417	3.76e+006
	11	Aldrin	11.373	11.323-11.423	3.68e+006
	12	Heptachlor epoxide	13.147	13.097-13.197	4.14e+006
	13	gamma-Chlordane	13.780	13.730-13.830	4.23e+006
	14	alpha-Chlordane	13.880	13.830-13.930	4.12e+006
	15	Endosulfan I	13.727	13.677-13.777	3.94e+006
	16	4,4'-DDE	14.060	14.010-14.110	4.06e+006
	17	Dieldrin	14.333	14.283-14.383	4.24e+006

673 1353

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5B904B
DB1201

Report Date : 19-Oct-2000 13:37

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

	Compound	RT	RT Window	RF
	18 Toxaphene	15.073	15.023-15.123	6.34e+004
		15.367	15.317-15.417	6.56e+004
		15.813	15.763-15.863	4.92e+004
		16.513	16.463-16.563	4.56e+004
	19 Isodrin	12.807	12.757-12.857	
	20 Endrin	14.660	14.610-14.710	3.27e+006
	21 4,4'-DDD	15.193	15.143-15.243	2.88e+006
	22 Endosulfan II	15.327	15.277-15.377	3.54e+006
	23 4,4'-DDT	15.480	15.430-15.530	3.04e+006
	24 Endrin aldehyde	15.953	15.903-16.003	1.54e+006
	25 Methoxychlor	16.473	16.423-16.523	1.41e+006
	26 Endosulfan sulfate	16.507	16.457-16.557	2.13e+006
	27 Endrin ketone	17.427	17.377-17.477	2.62e+006
	28 Chlorobenzilate	15.133	15.083-15.183	
	29 Kepone	17.753	17.703-17.803	
$	30 Decachlorobiphenyl	19.687	19.637-19.737	2.17e+006

Report Date : 03-Oct-2000 14:18

6E
5E9048
DB1761

673 1354

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2000 14:07
End Cal Date : 02-OCT-2000 19:13
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Cal Date : 03-Oct-2000 14:14 gc
Curve Type : Average

Calibration File Names:
Level 1: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7019.d
Level 2: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7020.d
Level 3: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7021.d
Level 4: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7022.d
Level 5: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7023.d

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
58 MIREX	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HEXACHLOROBENZENE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 alpha-BHC	3519400	3835400	4038000	4225820	4364750	3996674	8.331
6 gamma-BHC (Lindane)	3260800	3481000	3578560	3724200	3795700	3568052	5.917
7 beta-BHC	1845200	2023400	1879880	1939340	1838500	1905264	4.051
8 delta-BHC	3454400	3930600	3970480	4363040	4341740	4012052	9.253
9 Chlordane(1)	+++++	+++++	116816	+++++	+++++	116816	0.000
(2)	+++++	+++++	163804	+++++	+++++	163804	0.000
(3)	+++++	+++++	424928	+++++	+++++	424928	0.000
(4)	+++++	+++++	591688	+++++	+++++	591688	0.000
10 Heptachlor	3660200	3811800	3770560	3790500	3762830	3759178	1.556
11 Aldrin	3419200	3731900	3619080	3830760	3775510	3675290	4.433
12 Heptachlor epoxide	3963400	4296000	4079360	4263240	4105640	4141528	3.319
13 gamma-Chlordane	4071400	4371400	4168240	4316160	4228950	4231230	2.806
14 alpha-Chlordane	3983400	4252000	4045280	4155260	4139460	4115080	2.524
15 Endosulfan I	3889200	3973300	3929760	3993860	3932660	3943756	1.036
16 4,4'-DDE	3752800	4156800	4041800	4215720	4139980	4061420	4.518
17 Dieldrin	3994600	4158900	4302680	4347060	4418330	4244314	3.976
18 Toxaphene(1)	+++++	+++++	63357	+++++	+++++	63357	0.000
(2)	+++++	+++++	65633	+++++	+++++	65633	0.000
(3)	+++++	+++++	49223	+++++	+++++	49223	0.000
(4)	+++++	+++++	45644	+++++	+++++	45644	0.000
19 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Endrin	3093200	3240100	3282640	3313800	3424260	3270800	3.682

6E
58048
DB1201

Report Date : 03-Oct-2000 14:18

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2000 14:07
End Cal Date : 02-OCT-2000 19:13
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Cal Date : 03-Oct-2000 14:14 gc
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
21 4,4'-DDD	2732200	2930000	2895320	2862680	2980610	2880162	3.248
22 Endosulfan II	3707400	3639700	3366880	3544120	3440050	3539630	3.944
23 4,4'-DDT	2887800	3038300	3069960	3083880	3142610	3044510	3.134
24 Endrin aldehyde	1361400	1568900	1519760	1651920	1622710	1544938	7 408
25 Methoxychlor	1371700	1424350	1400720	1416370	1428540	1408336	1.638
26 Endosulfan sulfate	2000000	2141000	2083800	2231320	2204830	2132190	4.387
27 Endrin ketone	2456200	2743600	2605360	2685480	2610230	2620174	4.124
28 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	3208600	3243200	2967720	2854220	2720430	2998834	7.514
$ 30 Decachlorobiphenyl	2127200	2265300	2200400	2154300	2113690	2172178	2.841

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract: 673 1356

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

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/02/00

Lab Sample ID (PEM): EVALB Time Analyzed :1339

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.69	14.64	14.74	0.02374	0.02500	-5.0
4,4'-DDT	15.51	15.46	15.56	0.02472	0.02500	-1.1

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): ~~12.09~~ 7.5

Combined % breakdown (1): ~~12.09~~ 7.5

lm
10/3/00

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

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

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/02/00

Lab Sample ID (PEM): EVALB Time Analyzed :2036

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.68	14.64	14.74	0.02413	0.02500	-3.5
4,4'-DDT	15.51	15.46	15.56	0.02442	0.02500	-2.3

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

Combined % breakdown (1): _____

PESTICIDE CALIBRATION VERIFICATION SUMMARY

673 1358

Lab Name: Contract:

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

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/18/00

Lab Sample ID (PEM): EVALB Time Analyzed :1133

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.66	14.61	14.71	0.02360	0.02500	-5.6
4,4'-DDT	15.48	15.43	15.53	0.02342	0.02500	-6.3

4,4'-DDT % breakdown (1): ~~1.71~~ 2.4 Endrin % breakdown (1): ~~14.79~~ 9.3

Combined % breakdown (1): ~~16.51~~ 11.7

LM 10/25/00

673 1359

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

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

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/19/00

Lab Sample ID (PEM): EVALB Time Analyzed :0031

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.66	14.61	14.71	0.02489	0.02500	-0.4
4,4'-DDT	15.48	15.43	15.53	0.02413	0.02500	-3.5

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): ~~7.49~~ 5.7

Combined % breakdown (1): ~~7.49~~ 5.7

LM 10/23/00

FORM VII PEST-1 OLM03.0

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7298.d
Report Date: 18-Oct-2000 14:14

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7298.d
Analysis Type:
Lab Sample ID: MEDTOX
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 18-OCT-2000 12:01
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
18 Toxaphene(1)	63357	62946	0.010	-0 6	15.0
(2)	65633	66436	0.010	1.2	15.0
(3)	49223	49553	0 010	0.7	15 0
(4)	45644	47153	0 010	3 3	15.0
$ 1 Tetrachloro-m-xylene	2998834	3065120	0.000	2 2	15.0
$ 30 Decachlorobiphenyl	2172178	2206480	0.010	1 6	15 0

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7299.d
Report Date: 18-Oct-2000 14:14

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7299.d
Analysis Type:
Lab Sample ID: MEDCHLOR
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 18-OCT-2000 12:29
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
9 Chlordane(1)	116816	130768	0.010	11.9	15.0
(2)	163804	177784	0 010	8 5	15 0
.(3)	424928	453944	0 010	6.8	15 0
(4)	591688	617424	0 010	4 3	15.0
$ 1 Tetrachloro-m-xylene	2998834	3091920	0.000	3.1	15.0
$ 30 Decachlorobiphenyl	2172178	2271400	0.010	4.6	15.0

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7300.d
Report Date: 18-Oct-2000 14:14

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509046
D6171

673 1362

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7300.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 18-OCT-2000 12:57
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$	1 Tetrachloro-m-xylene	2998834	3244480	0.000	8.2	15.0
	5 alpha-BHC	3996674	4315160	0.010	8.0	15.0
	6 gamma-BHC (Lindane)	3568052	3818720	0.010	7.0	15.0
	10 Heptachlor	3759178	4061760	0.010	8.0	15.0
	15 Endosulfan I	3943756	4236080	0.010	7.4	15.0
	17 Dieldrin	4244314	4550600	0.010	7.2	15.0
	20 Endrin	3270800	3285400	0.010	0.4	15.0
	21 4,4'-DDD	2880162	2949320	0.010	2.4	15.0
	23 4,4'-DDT	3044510	3014160	0.010	-1.0	15.0
	25 Methoxychlor	1408336	1352900	0.010	-3.9	15.0
$	30 Decachlorobiphenyl	2172178	2303120	0.010	6.0	15.0

673 1363

7E
SB904B
DB7301

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7301.d
Report Date: 18-Oct-2000 14:15

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7301.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 18-OCT-2000 13:24
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
11 Aldrin	3675290	4009200	0.010	9.1	15.0	
7 beta-BHC	1905264	2048280	0.010	7.5	15.0	
8 delta-BHC	4012052	3836440	0.010	-4.4	15.0	
12 Heptachlor epoxide	4141528	4525960	0.010	9.3	15.0	
13 gamma-Chlordane	4231230	4478320	0.010	5.8	15.0	
14 alpha-Chlordane	4115080	4418360	0.010	7.4	15.0	
16 4,4'-DDE	4061420	4202760	0.010	3.5	15.0	
22 Endosulfan II	3539630	3602480	0.010	1.8	15.0	
24 Endrin aldehyde	1544938	1609200	0.010	4.2	15.0	
26 Endosulfan sulfate	2132190	1788640	0.010	-16.1	15.0	<-
27 Endrin ketone	2620174	2632760	0.010	0.5	15.0	

AVE=5.9

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7322.d
Report Date: 19-Oct-2000 13:26

7E
58904B 673 1364
DB1701

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7322.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 18-OCT-2000 23:36
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$	1 Tetrachloro-m-xylene	2998834	3377240	0.000	12.6	15.0
	5 alpha-BHC	3996674	4497480	0.010	12.5	15.0
	6 gamma-BHC (Lindane)	3568052	3955600	0.010	10.9	15.0
	10 Heptachlor	3759178	4167640	0.010	10.9	15.0
	15 Endosulfan I	3943756	4322680	0.010	9.6	15.0
	17 Dieldrin	4244314	4533600	0.010	6.8	15.0
	20 Endrin	3270800	3436680	0.010	5.1	15.0
	21 4,4'-DDD	2880162	3002120	0.010	4.2	15.0
	23 4,4'-DDT	3044510	3058080	0.010	0.4	15.0
	25 Methoxychlor	1408336	1453480	0.010	3.2	15.0
$	30 Decachlorobiphenyl	2172178	2405960	0.010	10.8	15.0

7E
SB2048
DB1201

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7323.d
Report Date: 19-Oct-2000 13:26

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B7323.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m

Injection Date: 19-OCT-2000 00:03
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

			MIN		MAX
COMPOUND	RRF	RF0	RRF	%D	%D
11 Aldrin	3675290	4107960	0.010	11.8	15.0
7 beta-BHC	1905264	2060840	0.010	8.2	15.0
8 delta-BHC	4012052	4080600	0.010	1.7	15.0
12 Heptachlor epoxide	4141528	4547880	0.010	9.8	15.0
13 gamma-Chlordane	4231230	4439240	0.010	4.9	15.0
14 alpha-Chlordane	4115080	4455000	0.010	8.3	15.0
16 4,4'-DDE	4061420	4226920	0.010	4.1	15.0
22 Endosulfan II	3539630	3639400	0.010	2.8	15.0
24 Endrin aldehyde	1544938	1637680	0.010	6.0	15.0
26 Endosulfan sulfate	2132190	2048440	0.010	-3.9	15.0
27 Endrin ketone	2620174	2779480	0.010	6.1	15.0

PESTICIDE ANALYTICAL SEQUENCE

673 1366

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.44 DCB: 19.69

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	10/02/00	1339	5.45	19.75*
02		MEDTOX	10/02/00	1407	5.45	19.75*
03		MEDCHLOR	10/02/00	1435	5.45	19.74*
04		LOWA	10/02/00	1503	5.45	19.74*
05		MLOWA	10/02/00	1530	5.45	19.75*
06		MEDA	10/02/00	1558	5.46	19.75*
07		MHIGHA	10/02/00	1626	5.45	19.75*
08		HIGHA	10/02/00	1654	5.45	19.74*
09		LOWB	10/02/00	1722		
10		MLOWB	10/02/00	1749		
11		MEDB	10/02/00	1817		
12		MHIGHB	10/02/00	1845		
13		HIGHB	10/02/00	1913		
14		2ND A	10/02/00	1940	5.45	19.74*
15		2ND B	10/02/00	2008		
16		EVALB	10/02/00	2036	5.45	19.74*
17		EVALB	10/18/00	1133	5.43	19.69
18		MEDTOX	10/18/00	1201	5.44	19.69
19		MEDCHLOR	10/18/00	1229	5.43	19.69
20		MEDA	10/18/00	1257	5.44	19.69
21		MEDB	10/18/00	1324		
22	ZZZZZ	ZZZZZ	10/18/00	1420	5.43	19.69
23	DF/S1/0287/T	DM6501AE	10/18/00	1734	5.43	19.69
24	DF/S1/0287/T	DM6501CE	10/18/00	1802	5.43	19.69
25	DF/S1/0287/T	DM6501CF	10/18/00	1830	5.43	19.69
26	PBLK	DM8PW1AA	10/18/00	1858	5.43	19.69
27	LCS	DM8PW1AC	10/18/00	1926	5.43	19.69
28		MEDA	10/18/00	2336	5.43	19.69
29		MEDB	10/19/00	0003		
30		EVALB	10/19/00	0031	5.43	19.69
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.

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7020-G.SEQ
Created by : DE11/02/98 on : 10/3/00 13:13
Edited by : LM10/02/00 on : 10/4/00 13:32
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

673 1367

4

7020A.PDF

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 153
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm factor
1	Std Check	EVALB,7020-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,7020-G.b	190-98-12		1.000	1.000	1.000	1 000	333.000	1.000	0.000	100 000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1 000	1.000	1 000	333.000	1.000	0 000	100 000
4	Cal:Replace	LOWA,7020-G b,,	190-100-6		1.000	1 000	1.000	1.000	1.000	1.000	0 000	100 000
5	Cal:Replace	MLOWA,7020-G.b,	190-100-7		1 000	1 000	1 000	1.000	1 000	1.000	0 000	100 000
6	Cal:Replace	MEDA,7020-G b,,	190-100-8		1 000	1 000	1 000	1.000	1.000	1 000	0 000	100 000
7	Cal:Replace	MHIGHA,7020-G b	190-100-9		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100 000
8	Cal:Replace	HIGHA,7020-G b,	190-100-10		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB,7020-G b,,	190-100-12		1.000	1.000	1 000	1 000	1.000	1 000	0.000	100 000
10	Cal:Replace	MLOWB,7020-G.b,	190-100-13		1.000	1.000	1.000	1 000	1.000	1 000	0.000	100.000
11	Cal:Replace	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100 000
12	Cal:Replace	MHIGHB,7020-G b	190-101-1		1 000	1.000	1.000	1 000	1 000	1.000	0 000	100 000
13	Cal:Replace	HIGHB,7020-G.b,	190-101-2		1 000	1 000	1.000	1.000	1 000	1.000	0 000	100 000
14	Std Check	2ND A,7020-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,7020-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,7020-G b,	190-88-8		1.000	1 000	1 000	1.000	1.000	1.000	0.000	100 000
17	Sample	DL2Q2104,7020-G	260208-1		1.000	1.000	1.000	1 000	333.000	1 000	0 000	100 000
18	Sample	DL2RC104,7020-G	260208-2		1.000	1.000	1.000	1 000	333.000	1 000	0 000	100 000
19	Sample	DL2RF104,7020-G	260208-3		1.000	1 000	1 000	1 000	333.000	1.000	0.000	100 000
20	Sample	DL2RG104,7020-G	260208-4		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
21	Sample	DL2RK104,7020-G	260208-5		1 000	1.000	1 000	1.000	333 000	1.000	0.000	100.000
22	Sample	DL2RM104,7020-G	260208-6		1.000	1.000	1 000	1.000	333.000	1 000	0 000	100.000
23	Sample	DL2RN108,7020-G	260208-7		1 000	1 000	1 000	1.000	333.000	1 000	0 000	100.000
24	Sample	DL2RN109,7020-G	260208-7S		1 000	1 000	1 000	1.000	333.000	1 000	0 000	100 000
25	Sample	DL2RN10A,7020-G	260208-7D		1.000	1.000	1.000	1.000	333.000	1 000	0 000	100 000
26	Sample	DL2RP104,7020-G	260208-8		1.000	1 000	1.000	1.000	333 000	1 000	0 000	100 000
27	Sample	DL2RT104,7020-G	260208-9		1.000	1.000	1.000	1 000	333 000	1.000	0.000	100 000
28	Sample	~~DL41Q104,7020-G~~	~~270130-1~~		1.000	1 000	1.000	1 000	333 000	1.000	0.000	100.000
29	Sample	DL429104,7020-G	270130-2		1.000	1 000	1.000	1 000	333 000	1.000	0 000	100.000
30	Sample	DL42C104,7020-G	270130-3		1 000	1 000	1.000	1 000	333 000	1.000	0.000	100.000
31	Sample	~~DL42P104,7020-G~~	~~270130-4~~		1.000	1.000	1 000	1.000	333.000	1.000	0.000	100.000
32	Sample	DL42K108,7020-G	270130-5		1.000	1.000	1 000	1.000	333.000	1 000	0 000	100 000
33	Sample	DL42M104,7020-G	270130-6		1 000	1 000	1.000	1 000	333 000	1 000	0.000	100.000
34	Sample	DL1MH103,7020-G	260101001		1 000	1 000	1.000	1 000	333.000	1 000	0 000	100 000
35	Sample	DL85E101,7020-G	260208BLK		1.000	1 000	1.000	1 000	333.000	1 000	0 000	100.000
36	Sample	DL85E102,7020-G	260208LCS		1.000	1.000	1.000	1 000	333 000	1 000	0 000	100 000
37	Std Check	MEDA,7020-G b,,	190-100-8		1.000	1 000	1 000	1 000	1.000	1 000	0 000	100.000
38	Std Check	MEDB,7020-G b,,	190-100-14		1.000	1 000	1 000	1.000	1 000	1.000	0.000	100.000
39	Std Check	EVALB,7020-G b,	190-88-8		1.000	1 000	1 000	1 000	1.000	1 000	0.000	100.000
40	Sample	DL1ML107,7020-G	260101002		1.000	1 000	1.000	1.000	333 000	1 000	0 000	100.000
41	Sample	DL1ML108,7020-G	260101002S		1 000	1.000	1 000	1.000	333.000	1 000	0.000	100.000
42	Sample	DL1ML109,7020-G	260101002D		1 000	1.000	1 000	1.000	333 000	1.000	0 000	100 000
43	Sample	DL1MM103,7020-G	260101003		1.000	1 000	1 000	1.000	333 000	1 000	0 000	100 000
44	Sample	DL1MP103,7020-G	260101004		1 000	1 000	1 000	1 000	333.000	1.000	0.000	100 000
45	Sample	DL1MQ103,7020-G	260101005		1 000	1 000	1.000	1 000	333 000	1.000	0 000	100 000
46	Sample	DL3MM103,7020-G	270101001		1 000	1.000	1.000	1.000	333.000	1 000	0 000	100.000
47	Sample	DL3MN103,7020-G	270101002		1 000	1 000	1.000	1.000	333 000	1 000	0 000	100.000
48	Sample	DL3MP103,7020-G	270101003		1.000	1 000	1 000	1.000	333 000	1 000	0.000	100 000
49	Sample	DL3MQ103,7020-G	270101004		1 000	1 000	1 000	1 000	333.000	1 000	0.000	100 000
50	Sample	DL3MR103,7020-G	270101005		1 000	1 000	1 000	1 000	333 000	1 000	0.000	100 000
51	Sample	DL3MT103,7020-G	270101006		1 000	1 000	1 000	1 000	333.000	1 000	0 000	100 000
52	Sample	DL59K103,7020-G	270264001		1 000	1.000	1 000	1 000	333 000	1 000	0.000	100 000
53	Sample	DL66Q103,7020-G	280101001		1 000	1 000	1 000	1 000	333 000	1.000	0 000	100 000
54	Sample	DL66X103,7020-G	280101002		1 000	1.000	1.000	1 000	333.000	1 000	0 000	100.000
55	Sample	DL670103,7020-G	280101003		1 000	1 000	1.000	1.000	333.000	1 000	0 000	100 000
56	Sample	DL671103,7020-G	280101004		1 000	1 000	1.000	1.000	333 000	1.000	0 000	100 000
57	Sample	DL672103,7020-G	280101005		1 000	1 000	1 000	1.000	333 000	1.000	0 000	100 000
58	Sample	DLC4M101,7020-G	260101BLK		1 000	1 000	1 000	1 000	333 000	1 000	0 000	100 000
59	Sample	DLC4M102,7020-G	260101LCS		1.000	1 000	1 000	1 000	333 000	1 000	0.000	100 000

60	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DL673103,7020-G	280101006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
64	Sample	DL41Q104,7020-G	270130-1	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
65	Sample	DL42F104,7020-G	270130-4	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
66	Sample	DL45K104,7020-G	270146001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
67	Sample	DL46E104,7020-G	270146002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
68	Sample	DL46G104,7020-G	270146003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
69	Sample	DL46J108,7020-G	270146004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
70	Sample	DL46J109,7020-G	270146004S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
71	Sample	DL46J10A,7020-G	270146004D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
72	Sample	DL46M104,7020-G	270146005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
73	Sample	DL474104,7020-G	270146006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
74	Sample	DL47E104,7020-G	270146007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
75	Sample	DL47G104,7020-G	270146008	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
76	Sample	DL47J104,7020-G	270146009	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
77	Sample	DL47L104,7020-G	270146010	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
78	Sample	DL47Q104,7020-G	270146011	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
79	Sample	DL47T104,7020-G	270146012	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
80	Sample	DL788104,7020-G	280200001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
81	Sample	DLC2F101,7020-G	270146BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
82	Sample	DLC2F102,7020-G	270146LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
83	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	DL79N104,7020-G	280200002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
87	Sample	DL79Q104,7020-G	280200003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
88	Sample	DL7A2104,7020-G	280200004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
89	Sample	DL7A6104,7020-G	280200005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
90	Sample	DL7A9104,7020-G	280200006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
91	Sample	DL7AD104,7020-G	280200007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
92	Sample	DL7AT104,7020-G	280200008	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
93	Sample	DKWE0114,7020-G	220289001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
94	Sample	DKWE011A,7020-G	220289001S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
95	Sample	DKWE011C,7020-G	220289001D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
96	Sample	DKWE6114,7020-G	220289002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
97	Sample	DKRKG10N,7020-G	210229001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
98	Sample	DL1HM101,7020-G	220289BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
99	Sample	DL1HM102,7020-G	220289LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
100	Sample	DKRKG102,7020-G	210229001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
101	Sample	DKRKG11M,7020-G	210229001S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
102	Sample	DKRKG11N,7020-G	210229001D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
103	Sample	DKVCQ102,7020-G	22023300_	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
104	Sample	DLGN910_,7020-G	210229BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
105	Sample	DLGN9102,7020-G	210229LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
106	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DL6LV104,7020-G	280138-1	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
110	Sample	DL6M0104,7020-G	280138-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
111	Sample	DL7XC105,7020-G	280265001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
112	Sample	DL90T105,7020-G	290146001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
113	Sample	DLCQF104,7020-G	300132001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
114	Sample	DLCQH104,7020-G	300132002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
115	Sample	DLCQJ10A,7020-G	300132003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
116	Sample	DLCQJ10C,7020-G	300132003S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
117	Sample	DLCQJ10D,7020-G	300132003D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
118	Sample	DLCQK104,7020-G	300132004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
119	Sample	DLCQM104,7020-G	300132005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
120	Sample	DLCQN104,7020-G	300132006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
121	Sample	DLCQP104,7020-G	300132007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
122	Sample	DLCQQ104,7020-G	300132008	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
123	Sample	DLCQT104,7020-G	300132010	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
124	Sample	DLGN4101,7020-G	300132BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
125	Sample	DLGN4102,7020-G	300132LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
126	Sample	DLDDE101,7020-G	280206BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
127	Sample	DLDDE102,7020-G	280206LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
128	Sample	DLDDE103,7020-G	280206LCD	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
129	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DL79W103,7020-G	280206001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
133	Sample	DL7A3103,7020-G	280206002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
134	Sample	DL7EC103,7020-G	280219001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
135	Sample	DL7E8103,7020-G	280219002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
136	Sample	DL7E9103,7020-G	280219003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
137	Sample	DL7EC103,7020-G	280219004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
138	Sample	DLA4K104,7020-G	290257001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
139	Sample	DLA4W104,7020-G	290257002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
140	Sample	DLA51104,7020-G	290257003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
141	Sample	DLA54104,7020-G	290257004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
142	Sample	DLA56104,7020-G	290257005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
143	Sample	DLA5C104,7020-G	290257006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
144	Sample	DL8XK101,7020-G	290138001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
145	Sample	DLEHE101,7020-G	290138BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
146	Sample	DLEHE102,7020-G	290138LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000

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147	Sample	DLEKE103,7020-G	290138LCD	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
148	Sample	DKWED102,7020-G	220289004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
149	Sample	DL1KX101,7020-G	220289BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
150	Sample	DL1KX102,7020-G	220289LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
151	Sample	DL1KX103,7020-G	220289LCD	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
152	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
153	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7011	D-B7011		D-B7011	-	-	-	LPT1.
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7012	D-B7012		D-B7012	N	MED	N	LPT1:,LP
3	-	1	3	GEN4C	GEN4B	122190A	TOX	D-B7013	D-B7013		D-B7013	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B7014	D-B7014		D-B7014	N	LOW	N	LPT1
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B7015	D-B7015		D-B7015	N	MLOW	N	LPT1.
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7016	D-B7016		D-B7016	N	MLOW	N	LPT1.
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B7017	D-B7017		D-B7017	N	MLOW	N	LPT1.
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B7018	D-B7018		D-B7018	N	MLOW	N	LPT1
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B7019	D-B7019		D-B7019	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B7020	D-B7020		D-B7020	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7021	D-B7021		D-B7021	N	MLOW	N	LPT1.
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B7022	D-B7022		D-B7022	N	MLOW	N	LPT1
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B7023	D-B7023		D-B7023	N	MLOW	N	LPT1
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B7024	D-B7024		D-B7024	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B7025	D-B7025		D-B7025	-	-	-	LPT1:
16	-	2	1	GEN4C	GEN4B	122190A	EVAL	D-B7026	D-B7026		D-B7026	-	-	-	LPT1:
17	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7027	D-B7027		D-B7027	-	-	-	LPT1 ,LP
18	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7028	D-B7028		D-B7028	-	-	-	LPT1 ,LP
19	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7029	D-B7029		D-B7029	-	-	-	LPT1:,LP
20	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7030	D-B7030		D-B7030	-	-	-	LPT1:,LP
21	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7031	D-B7031		D-B7031	-	-	-	LPT1:,LP
22	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7032	D-B7032		D-B7032	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7033	D-B7033		D-B7033	-	-	-	LPT1 ,LP
24	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7034	D-B7034		D-B7034	-	-	-	LPT1 ,LP
25	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7035	D-B7035		D-B7035	-	-	-	LPT1 ,LP
26	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7036	D-B7036		D-B7036	-	-	-	LPT1:,LP
27	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7037	D-B7037		D-B7037	-	-	-	LPT1:,LP
28	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7038	D-B7038		D-B7038	-	-	-	LPT1:,LP
29	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7039	D-B7039		D-B7039	-	-	-	LPT1.,LP
30	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7040	D-B7040		D-B7040	-	-	-	LPT1.,LP
31	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7041	D-B7041		D-B7041	-	-	-	LPT1.,LP
32	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7042	D-B7042		D-B7042	-	-	-	LPT1:,LP
33	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7043	D-B7043		D-B7043	-	-	-	LPT1:,LP
34	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7044	D-B7044		D-B7044	-	-	-	LPT1 ,LP
35	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7045	D-B7045		D-B7045	-	-	-	LPT1.,LP
36	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7046	D-B7046		D-B7046	-	-	-	LPT1:,LP
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7047	D-B7047		D-B7047	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7048	D-B7048		D-B7048	-	-	-	LPT1:
39	-	2	1	GEN4C	GEN4B	122190A	EVAL	D-B7049	D-B7049		D-B7049	-	-	-	LPT1:
40	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7050	D-B7050		D-B7050	-	-	-	LPT1:,LP
41	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7051	D-B7051		D-B7051	-	-	-	LPT1:,LP
42	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7052	D-B7052		D-B7052	-	-	-	LPT1.,LP
43	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7053	D-B7053		D-B7053	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7054	D-B7054		D-B7054	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7055	D-B7055		D-B7055	-	-	-	LPT1:,LP
46	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7056	D-B7056		D-B7056	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7057	D-B7057		D-B7057	-	-	-	LPT1.,LP
48	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7058	D-B7058		D-B7058	-	-	-	LPT1 ,LP
49	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7059	D-B7059		D-B7059	-	-	-	LPT1:,LP
50	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7060	D-B7060		D-B7060	-	-	-	LPT1:,LP
51	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7061	D-B7061		D-B7061	-	-	-	LPT1:,LP
52	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7062	D-B7062		D-B7062	-	-	-	LPT1:,LP
53	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7063	D-B7063		D-B7063	-	-	-	LPT1.,LP
54	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7064	D-B7064		D-B7064	-	-	-	LPT1 ,LP
55	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7065	D-B7065		D-B7065	-	-	-	LPT1 ,LP
56	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7066	D-B7066		D-B7066	-	-	-	LPT1 ,LP
57	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7067	D-B7067		D-B7067	-	-	-	LPT1:,LP
58	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7068	D-B7068		D-B7068	-	-	-	LPT1:,LP
59	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7069	D-B7069		D-B7069	-	-	-	LPT1 ,LP
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7070	D-B7070		D-B7070	-	-	-	LPT1
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7071	D-B7071		D-B7071	-	-	-	LPT1
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7072	D-B7072		D-B7072	-	-	-	LPT1
63	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7073	D-B7073		D-B7073	-	-	-	LPT1:,LP
64	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7074	D-B7074		D-B7074	-	-	-	LPT1:,LP
65	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7075	D-B7075		D-B7075	-	-	-	LPT1:,LP
66	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7076	D-B7076		D-B7076	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7077	D-B7077		D-B7077	-	-	-	LPT1 ,LP
68	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7078	D-B7078		D-B7078	-	-	-	LPT1:,LP
69	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7079	D-B7079		D-B7079	-	-	-	LPT1:,LP
70	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7080	D-B7080		D-B7080	-	-	-	LPT1 ,LP
71	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7081	D-B7081		D-B7081	-	-	-	LPT1 ,LP
72	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7082	D-B7082		D-B7082	-	-	-	LPT1 ,LP
73	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7083	D-B7083		D-B7083	-	-	-	LPT1:,LP

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75	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7085	D-B7085	D-B7085	-	-	- LPT1:,LP
76	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7086	D-B7086	D-B7086	-	-	- LPT1 ,LP
77	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7087	D-B7087	D-B7087	-	-	- LPT1 ,LP
78	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7088	D-B7088	D-B7088	-	-	- LPT1 ,LP
79	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7089	D-B7089	D-B7089	-	-	- LPT1:,LP
80	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7090	D-B7090	D-B7090	-	-	- LPT1:,LP
81	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7091	D-B7091	D-B7091	-	-	- LPT1:,LP
82	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7092	D-B7092	D-B7092	-	-	- LPT1:,LP
83	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7093	D-B7093	D-B7093	-	-	- LPT1
84	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7094	D-B7094	D-B7094	-	-	- LPT1.
85	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7095	D-B7095	D-B7095	-	-	- LPT1:
86	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7096	D-B7096	D-B7096	-	-	- LPT1:,LP
87	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7097	D-B7097	D-B7097	-	-	- LPT1:,LP
88	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7098	D-B7098	D-B7098	-	-	- LPT1:,LP
89	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7099	D-B7099	D-B7099	-	-	- LPT1:,LP
90	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7100	D-B7100	D-B7100	-	-	- LPT1.,LP
91	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7101	D-B7101	D-B7101	-	-	- LPT1 ,LP
92	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7102	D-B7102	D-B7102	-	-	- LPT1:,LP
93	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7103	D-B7103	D-B7103	-	-	- LPT1:,LP
94	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7104	D-B7104	D-B7104	-	-	- LPT1:,LP
95	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7105	D-B7105	D-B7105	-	-	- LPT1:,LP
96	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7106	D-B7106	D-B7106	-	-	- LPT1 ,LP
97	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7107	D-B7107	D-B7107	-	-	- LPT1.,LP
98	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7108	D-B7108	D-B7108	-	-	- LPT1 ,LP
99	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7109	D-B7109	D-B7109	-	-	- LPT1.,LP
100	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7110	D-B7110	D-B7110	-	-	- LPT1:,LP
101	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7111	D-B7111	D-B7111	-	-	- LPT1:,LP
102	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7112	D-B7112	D-B7112	-	-	- LPT1 ,LP
103	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7113	D-B7113	D-B7113	-	-	- LPT1.,LP
104	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7114	D-B7114	D-B7114	-	-	- LPT1:,LP
105	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7115	D-B7115	D-B7115	-	-	- LPT1:,LP
106	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7116	D-B7116	D-B7116	-	-	- LPT1:
107	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7117	D-B7117	D-B7117	-	-	- LPT1:
108	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7118	D-B7118	D-B7118	-	-	- LPT1.
109	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7119	D-B7119	D-B7119	-	-	- LPT1:,LP
110	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7120	D-B7120	D-B7120	-	-	- LPT1:,LP
111	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7121	D-B7121	D-B7121	-	-	- LPT1 ,LP
112	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7122	D-B7122	D-B7122	-	-	- LPT1.,LP
113	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7123	D-B7123	D-B7123	-	-	- LPT1.,LP
114	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7124	D-B7124	D-B7124	-	-	- LPT1 ,LP
115	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7125	D-B7125	D-B7125	-	-	- LPT1:,LP
116	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7126	D-B7126	D-B7126	-	-	- LPT1:,LP
117	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7127	D-B7127	D-B7127	-	-	- LPT1:,LP
118	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7128	D-B7128	D-B7128	-	-	- LPT1:,LP
119	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7129	D-B7129	D-B7129	-	-	- LPT1:,LP
120	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7130	D-B7130	D-B7130	-	-	- LPT1:,LP
121	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7131	D-B7131	D-B7131	-	-	- LPT1.,LP
122	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7132	D-B7132	D-B7132	-	-	- LPT1.,LP
123	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7133	D-B7133	D-B7133	-	-	- LPT1.,LP
124	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7134	D-B7134	D-B7134	-	-	- LPT1 ,LP
125	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7135	D-B7135	D-B7135	-	-	- LPT1 ,LP
126	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7136	D-B7136	D-B7136	-	-	- LPT1 ,LP
127	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7137	D-B7137	D-B7137	-	-	- LPT1:,LP
128	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7138	D-B7138	D-B7138	-	-	- LPT1:,LP
129	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7139	D-B7139	D-B7139	-	-	- LPT1:
130	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7140	D-B7140	D-B7140	-	-	- LPT1:
131	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7141	D-B7141	D-B7141	-	-	- LPT1:
132	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7142	D-B7142	D-B7142	-	-	- LPT1:,LP
133	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7143	D-B7143	D-B7143	-	-	- LPT1:,LP
134	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7144	D-B7144	D-B7144	-	-	- LPT1.,LP
135	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7145	D-B7145	D-B7145	-	-	- LPT1:,LP
136	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7146	D-B7146	D-B7146	-	-	- LPT1.,LP
137	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7147	D-B7147	D-B7147	-	-	- LPT1:,LP
138	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7148	D-B7148	D-B7148	-	-	- LPT1:,LP
139	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7149	D-B7149	D-B7149	-	-	- LPT1 ,LP
140	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7150	D-B7150	D-B7150	-	-	- LPT1 ,LP
141	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7151	D-B7151	D-B7151	-	-	- LPT1.,LP
142	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7152	D-B7152	D-B7152	-	-	- LPT1 ,LP
143	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7153	D-B7153	D-B7153	-	-	- LPT1 ,LP
144	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7154	D-B7154	D-B7154	-	-	- LPT1:,LP
145	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7155	D-B7155	D-B7155	-	-	- LPT1 ,LP
146	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7156	D-B7156	D-B7156	-	-	- LPT1 ,LP
147	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7157	D-B7157	D-B7157	-	-	- LPT1 ,LP
148	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7158	D-B7158	D-B7158	-	-	- LPT1:,LP
149	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7159	D-B7159	D-B7159	-	-	- LPT1:,LP
150	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7160	D-B7160	D-B7160	-	-	- LPT1:,LP
151	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7161	D-B7161	D-B7161	-	-	- LPT1 ,LP
152	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7162	D-B7162	D-B7162	-	-	- LPT1
153	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7163	D-B7163	D-B7163	-	-	- LPT1

673 1371

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Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7011.d
Lab Smp Id: EVALB
Inj Date : 02-OCT-2000 13:39
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 1 Tetrachloro-m-xylene	5 453	5 460	-0.007	58649	0.01956	0 01956(R)
16 4,4'-DDE	Compound Not Detected					
20 Endrin	14.686	14 686	0 000	77639	0.02374	0 02374
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15 506	15 506	0.000	75253	0.02472	0 02472
24 Endrin aldehyde	15.993	15 986	0.007	2381	0.00154	0 001541
27 Endrin ketone	17.473	17 473	0.000	3884	0 00148	0 001482
$ 30 Decachlorobiphenyl	19.746	19.746	0.000	43189	0.01988	0.01988(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Endrin = 7.5

~~Endrin~~ DDT = 0

10/10/00

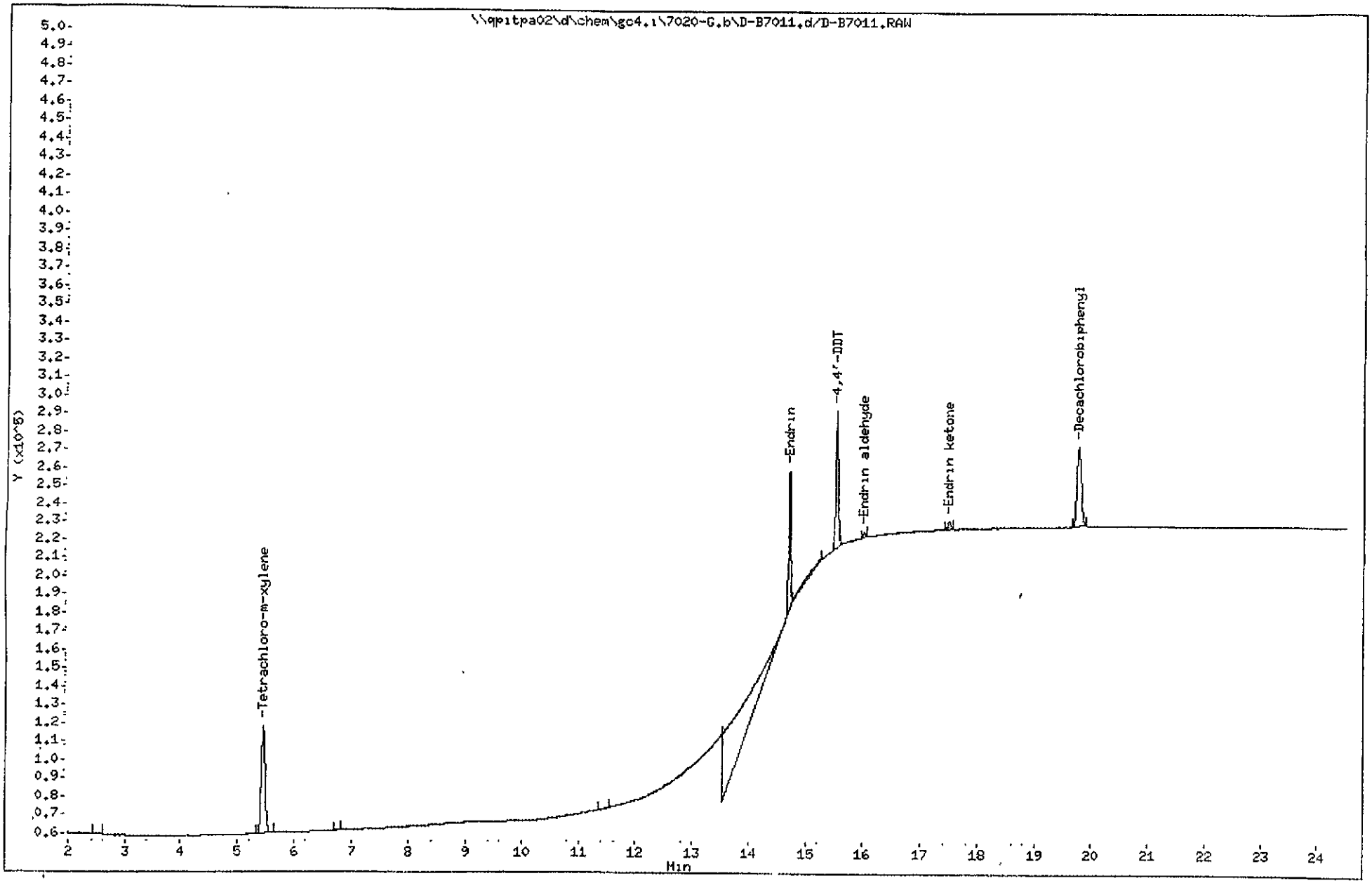
6731372

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7011.d
Date : 02-OCT-2000 13:39
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB1701



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673 1373

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Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7012.d
Lab Smp Id: MEDTOX
Inj Date : 02-OCT-2000 14:07
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,7020-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 14:07 Cal File: D-B7012.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: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Toxaphene	15.100	15.100	0.000	63357	1.00000	1.000
$ 1 Tetrachloro-m-xylene	5.453	5.460	-0.007	71997	0.02500	0.02500
$ 30 Decachlorobiphenyl	19.746	19.746	0.000	53114	0.02500	0.02500

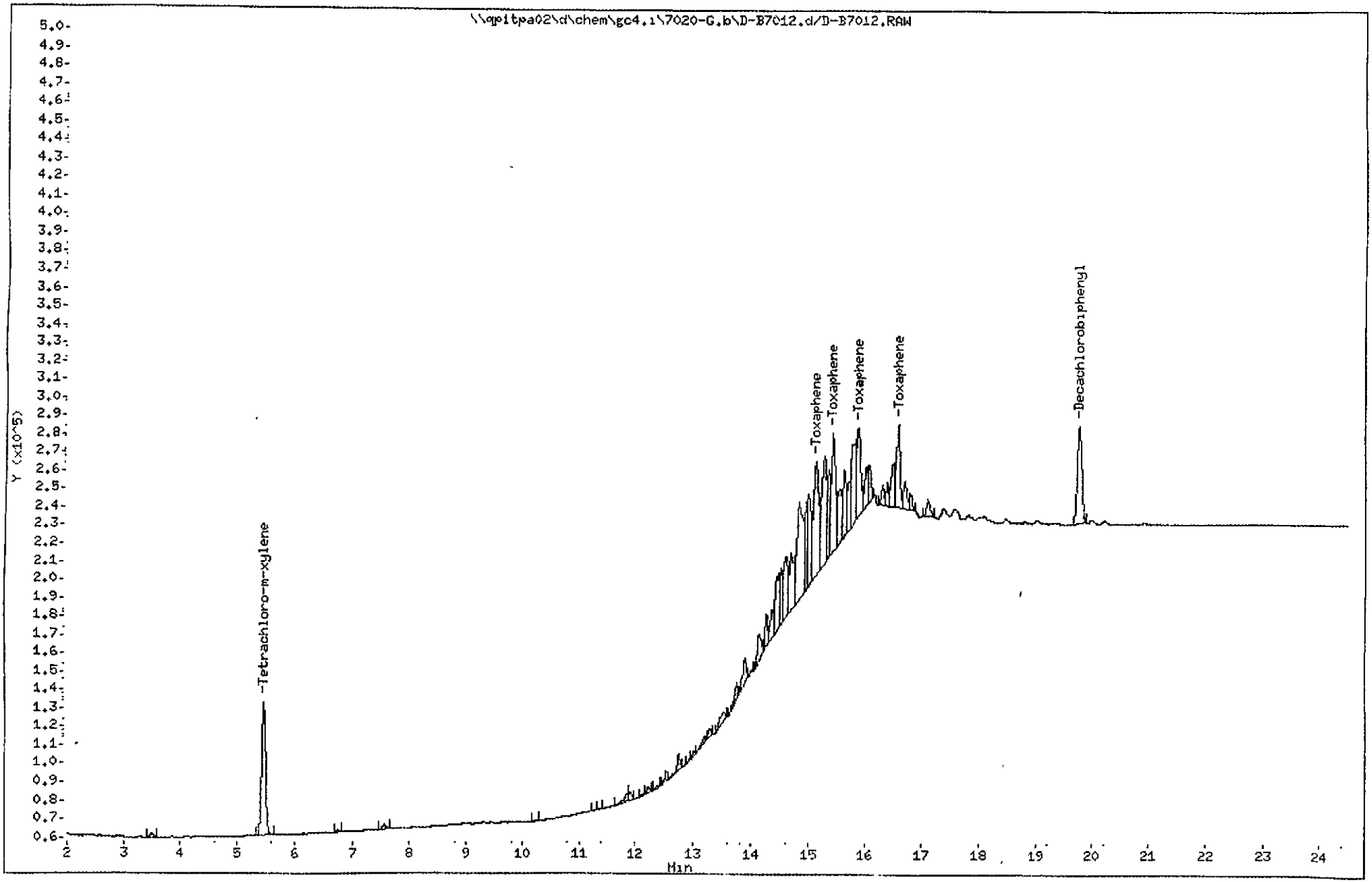
6731374

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7012.d
Date : 02-OCT-2000 14:07
Client ID:
Sample Info: MEDTOX,7020-G.b,,1-TOX.sub,,1,3

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB1701



3040

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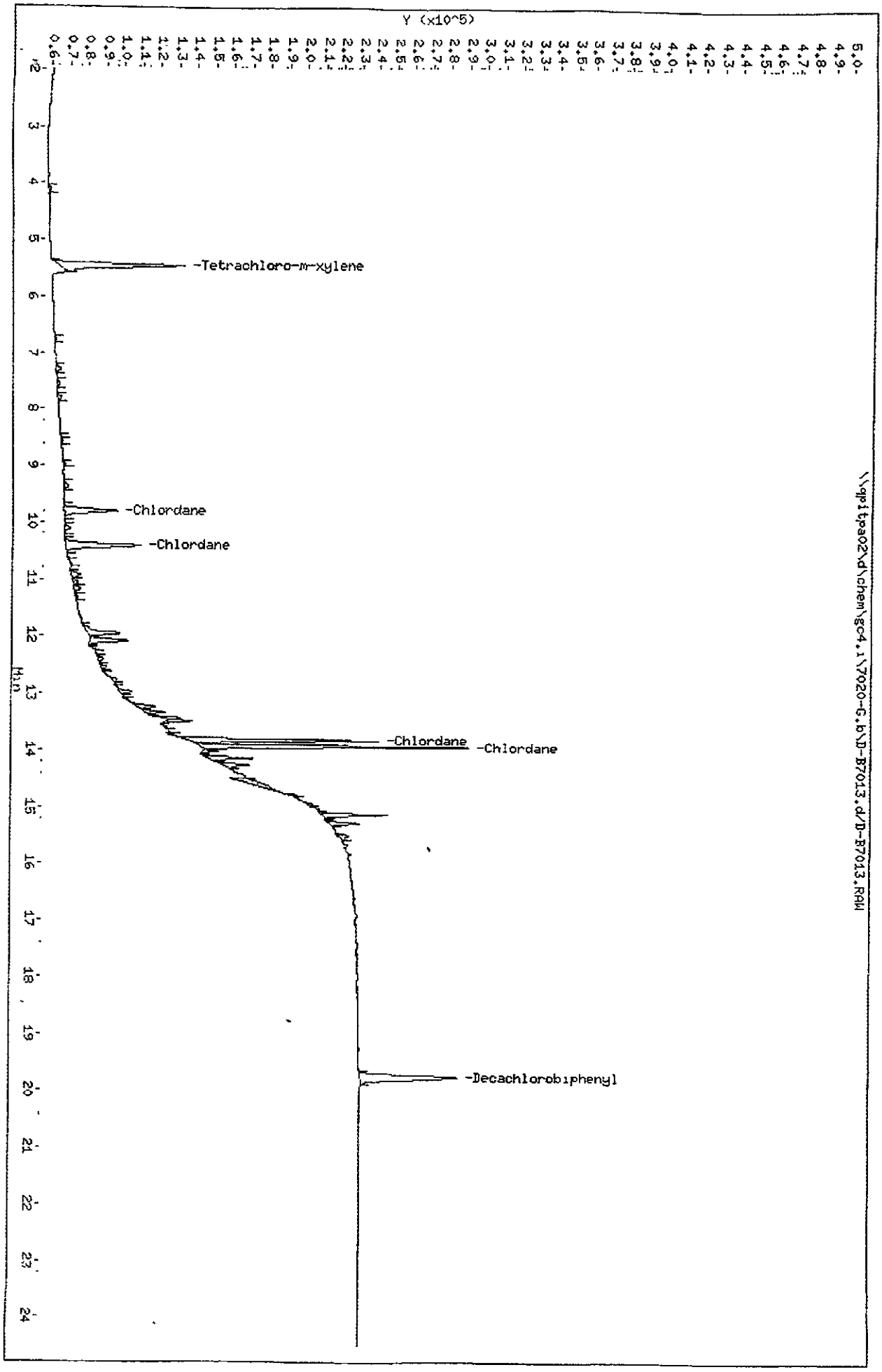
673 1375

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7013.d
Lab Smp Id: MEDCHLOR
Inj Date : 02-OCT-2000 14:35
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,7020-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-90-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 14:35 Cal File: D-B7013.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: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	9 Chlordane	9.806	9 806	0.000	29204	0 25000	0 2500
$	1 Tetrachloro-m-xylene	5 453	5.460	-0 007	68635	0 02500	0.02500
$	30 Decachlorobiphenyl	19 740	19.746	-0.006	53964	0 02500	0 02500

6731376


Data File: \\epitpa02\d\chem\gc4.i\7020-G.b\D-B7013.d
Date : 02-OCT-2000 14:35
Client ID:
Sample Info: MEDCHLOR,7020-G.b,2-CHLO.sub,1,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
\\epitpa02\d\chem\gc4.i\7020-G.b\D-B7013.d\D-B7013.RAW
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-Chlordane
-Chlordane
-Decachlorobiphenyl
Min

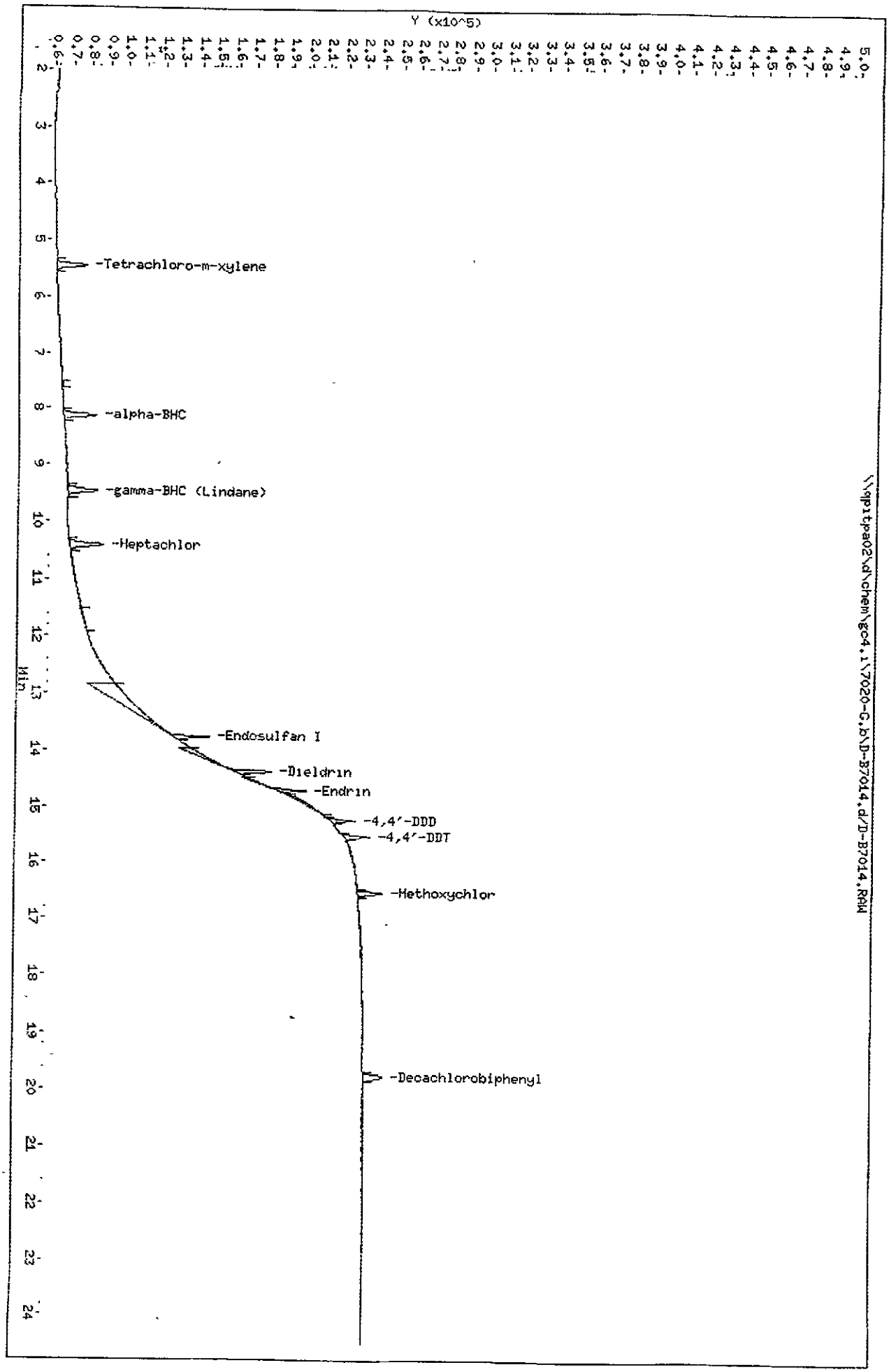
673 1377

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7014.d
Lab Smp Id: LOWA
Inj Date : 02-OCT-2000 15:03
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWA,7020-G.b,,3-INDA.sub,,1,1
Misc Info : 190-100-6
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$	1 Tetrachloro-m-xylene	5.453	5.460	-0.007	16043	0.00500	0.005195
	5 alpha-BHC	8.120	8.120	0.000	17597	0.00500	0.004657
	6 gamma-BHC (Lindane)	9.466	9.466	0.000	16304	0.00500	0.004768
	10 Heptachlor	10.413	10.413	0.000	18301	0.00500	0.004926
	15 Endosulfan I	13.746	13.753	-0.007	19446	0.00500	0.004974
	17 Dieldrin	14.360	14.360	0.000	19973	0.00500	0.004814
	20 Endrin	14.686	14.686	0.000	15466	0.00500	0.004851
	21 4,4'-DDD	15.220	15.220	0.000	13661	0.00500	0.004855
	23 4,4'-DDT	15.506	15.506	0.000	14439	0.00500	0.004847
	25 Methoxychlor	16.513	16.513	0.000	13717	0.01000	0.009895
$	30 Decachlorobiphenyl	19.740	19.746	-0.006	10636	0.00500	0.004915

6731378

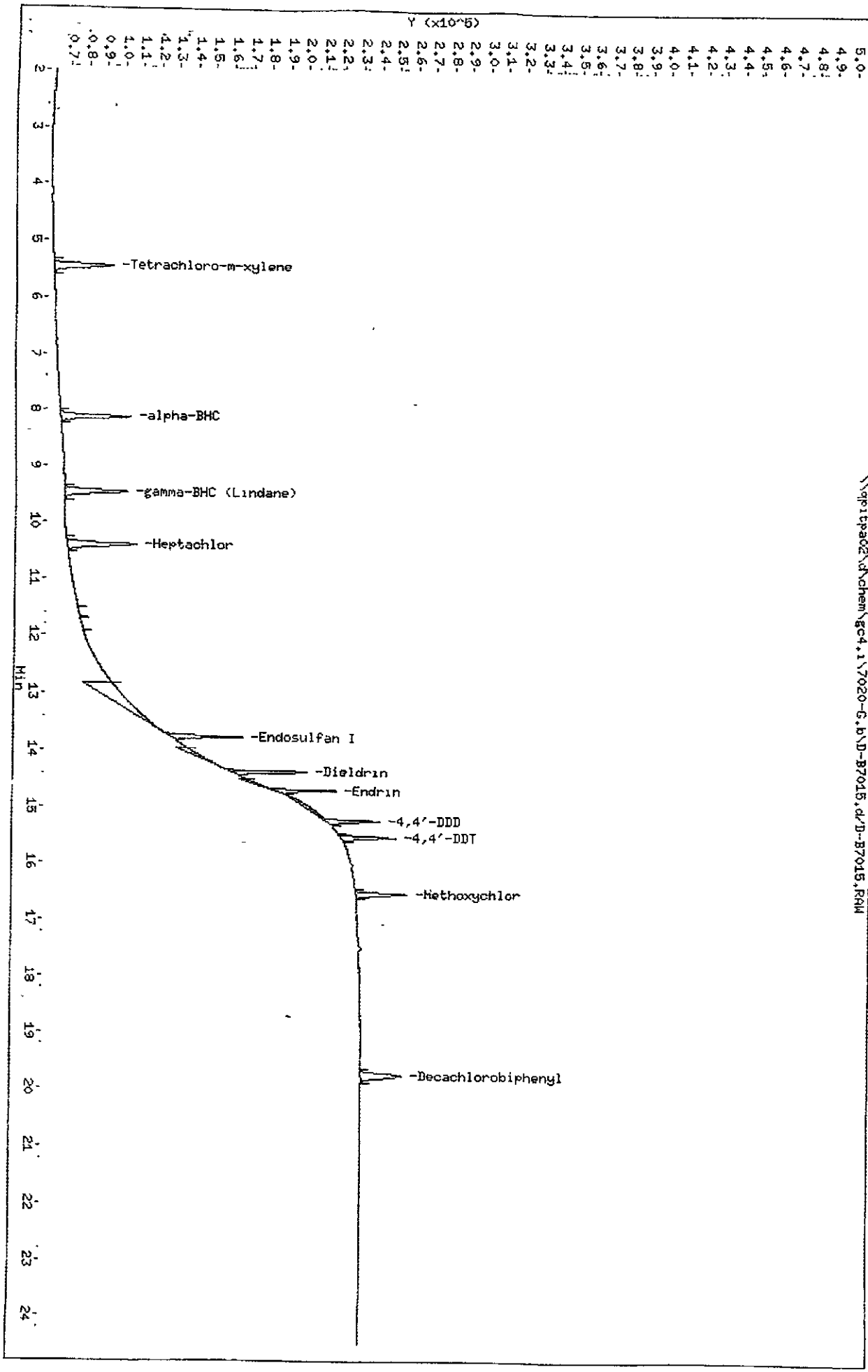

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7014.d
Date : 02-OCT-2000 15:03
Client ID:
Sample Info: LQWA,7020-G.b,3-INDA.sub,1,1
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7014.d\D-B7014.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7015.d
Lab Smp Id: MLOWA
Inj Date : 02-OCT-2000 15:30
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWA,7020-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 Tetrachloro-m-xylene	5.453	5.460	-0.007	32432	0.01000	0.01033
	5 alpha-BHC	8.120	8.120	0.000	38354	0.01000	0.01010
	6 gamma-BHC (Lindane)	9.466	9.466	0.000	34810	0.01000	0.01012
	10 Heptachlor	10.413	10.413	0.000	38118	0.01000	0.01017
	15 Endosulfan I	13.753	13.753	0.000	39733	0.01000	0.01011
	17 Dieldrin	14.360	14.360	0.000	41589	0.01000	0.01002
	20 Endrin	14.686	14.686	0.000	32401	0.01000	0.01011
	21 4,4'-DDD	15.220	15.220	0.000	29300	0.01000	0.01027
	23 4,4'-DDT	15.506	15.506	0.000	30383	0.01000	0.01013
	25 Methoxychlor	16.513	16.513	0.000	28487	0.02000	0.02036
$	30 Decachlorobiphenyl	19.746	19.746	0.000	22653	0.01000	0.01031

6731380


Data File: \\pittpa02\d\chem\gc4.i\7020-G.b\D-B7015.d
Date : 02-OCT-2000 15:30
Client ID:
Sample Info: MLOWA,7020-G,b,,3-INDA,sub,,1,2
Column phase: DB1701
Instrument: gc4.i
Operator: 1991
Column diameter: 0.53
Y (x10^5)
Min
\\pittpa02\d\chem\gc4.i\7020-G.b\D-B7015.d\D-B7015.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

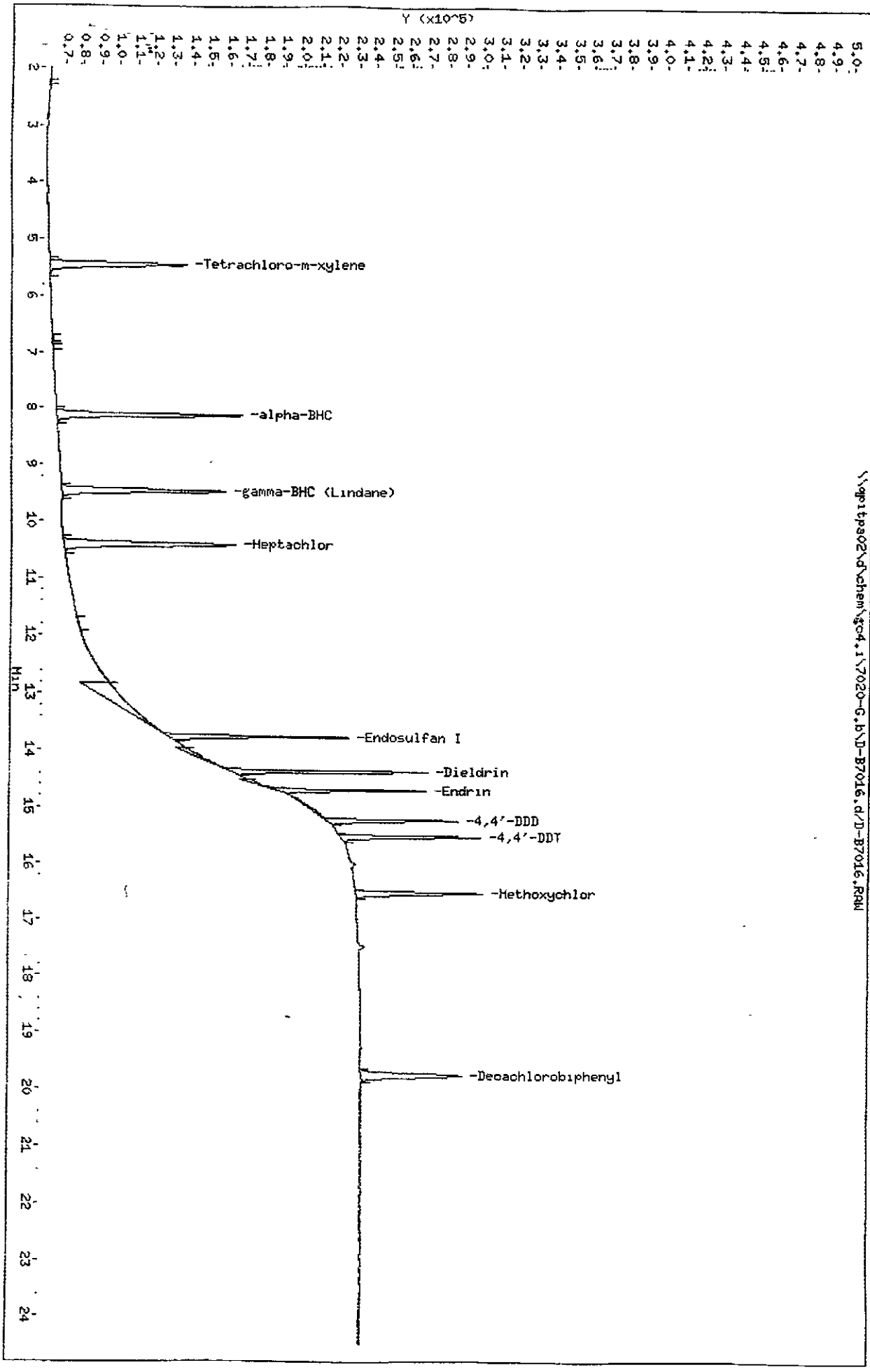
673 1381

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7016.d
Lab Smp Id: MEDA
Inj Date : 02-OCT-2000 15:58
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 15:58 Cal File: D-B7016.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: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5.460	5.460	0.000	74193	0.02500	0.02500
5	alpha-BHC	8.120	8.120	0.000	100950	0.02500	0.02500
6	gamma-BHC (Lindane)	9.466	9.466	0.000	89464	0.02500	0.02500
10	Heptachlor	10.413	10.413	0.000	94264	0.02500	0.02500
15	Endosulfan I	13.753	13.753	0.000	98244	0.02500	0.02500
17	Dieldrin	14.360	14.360	0.000	107567	0.02500	0.02500
20	Endrin	14.686	14.686	0.000	82066	0.02500	0.02500
21	4,4'-DDD	15.220	15.220	0.000	72383	0.02500	0.02500
23	4,4'-DDT	15.506	15.506	0.000	76749	0.02500	0.02500
25	Methoxychlor	16.513	16.513	0.000	70036	0.05000	0.05000
$ 30	Decachlorobiphenyl	19.746	19.746	0.000	55010	0.02500	0.02500

6731382


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7016.d
Date : 02-OCT-2000 15:58
Client ID:
Sample Info: HEDA,7020-G.b,J-INDA.sub,1,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1991
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7016.d/D-B7016.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

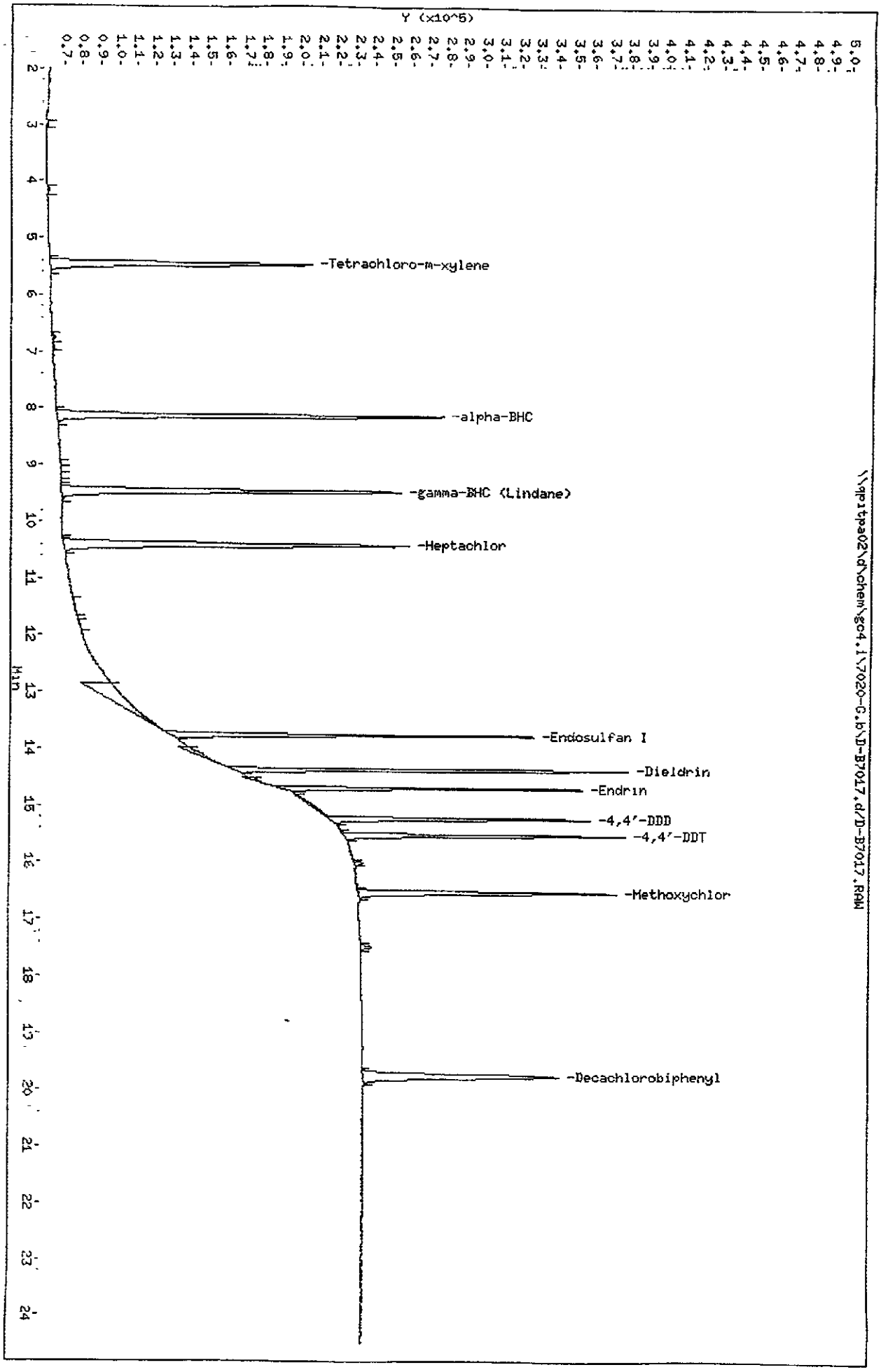
673 1383

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7017.d
Lab Smp Id: MHIGHA
Inj Date : 02-OCT-2000 16:26
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHA,7020-G.b,,3-INDA.sub,,1,4
Misc Info : 190-100-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5 453	5 460	-0.007	142711	0 05000	0 04651
5	alpha-BHC	8 120	8 120	0.000	211291	0 05000	0.05411
6	gamma-BHC (Lindane)	9 473	9.466	0 007	186210	0.05000	0 05303
10	Heptachlor	10.413	10 413	0 000	189525	0.05000	0.05043
15	Endosulfan I	13 753	13 753	0.000	199693	0.05000	0 05060
17	Dieldrin	14.360	14 360	0.000	217353	0 05000	0 05174
20	Endrin	14.686	14.686	0 000	165690	0.05000	0 05126
21	4,4'-DDD	15 220	15 220	0.000	143134	0.05000	0.05013
23	4,4'-DDT	15.506	15.506	0 000	154194	0 05000	0.05106
25	Methoxychlor	16.506	16 513	-0 007	141637	0.10000	0 1009
$ 30	Decachlorobiphenyl	19.746	19 746	0.000	107715	0.05000	0.04926

6731384


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7017.d
Date : 02-OCT-2000 16:26
Client ID:
Sample Info: MHIGHA,7020-G.b,.3-INDA.sub,1,4
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7017.d/D-B7017.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl
Min

673 1385

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7018.d
Lab Smp Id: HIGHA
Inj Date : 02-OCT-2000 16:54
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHA,7020-G.b,,3-INDA.sub,,1,5
Misc Info : 190-100-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m-xylene	5.453	5.460	-0.007	272043	0.10000	0.09072
5 alpha-BHC	8.120	8.120	0.000	436475	0.10000	0.1092(A)
6 gamma-BHC (Lindane)	9.466	9.466	0.000	379570	0.10000	0.1064(A)
10 Heptachlor	10.413	10.413	0.000	376283	0.10000	0.1001(A)
15 Endosulfan I	13.753	13.753	0.000	393266	0.10000	0.09972
17 Dieldrin	14.360	14.360	0.000	441833	0.10000	0.1041(A)
20 Endrin	14.680	14.686	-0.006	342426	0.10000	0.1047(A)
21 4,4'-DDD	15.213	15.220	-0.007	298061	0.10000	0.1035(A)
23 4,4'-DDT	15.506	15.506	0.000	314261	0.10000	0.1032(A)
25 Methoxychlor	16.506	16.513	-0.007	285708	0.20000	0.2029(A)
$ 30 Decachlorobiphenyl	19.740	19.746	-0.006	211369	0.10000	0.09731

QC Flag Legend

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

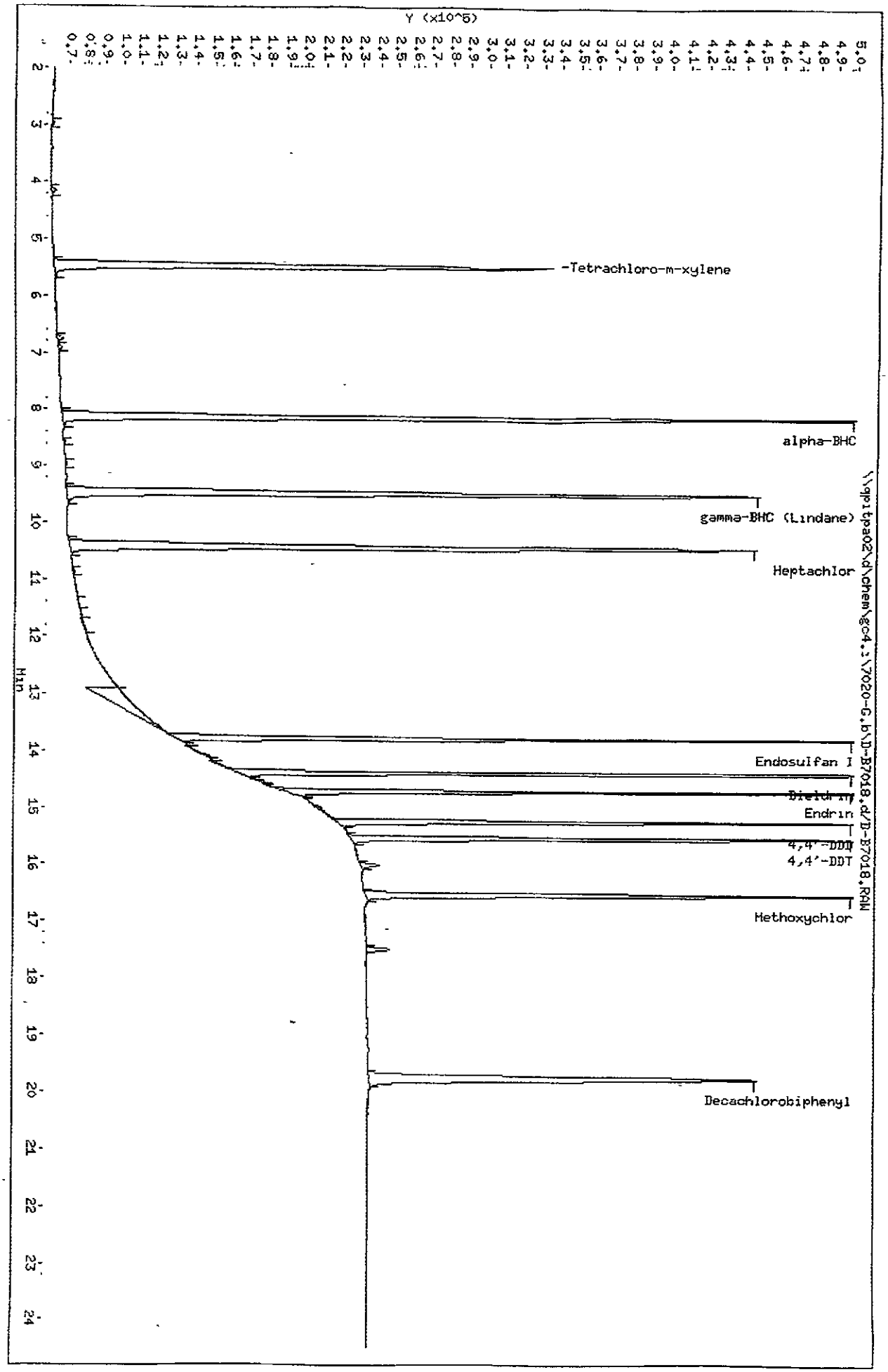
Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-87018.d
Date : 02-OCT-2000 16:54
Client ID:
Sample Info: HIGH0,7020-G,b,3-INDA,sub,1,5

Column phase: DB1701

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



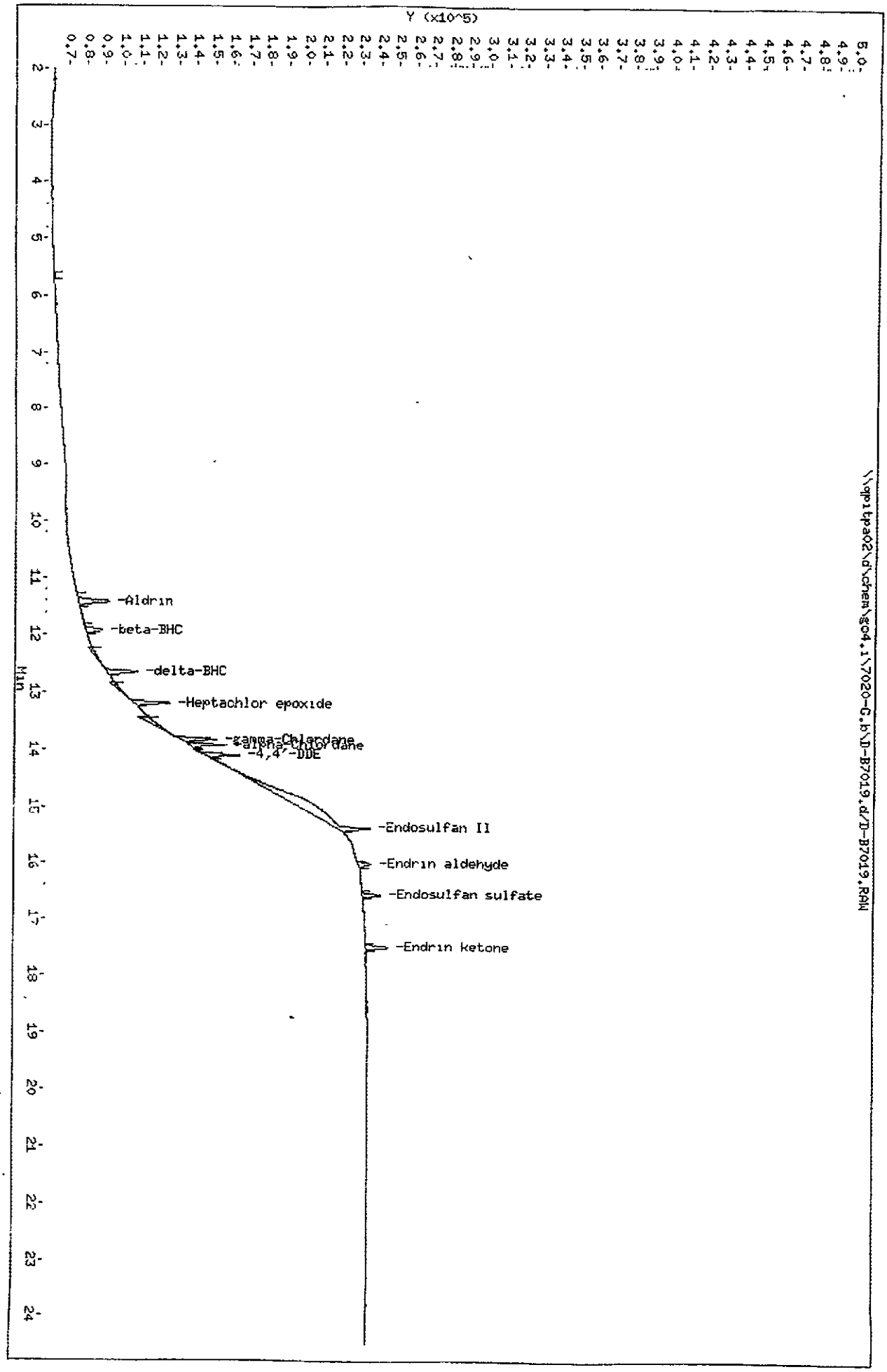
673 1387

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7019.d
Lab Smp Id: LOWB
Inj Date : 02-OCT-2000 17:22
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWB,7020-G.b,,4-INDB.sub,,1,1
Misc Info : 190-100-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.413	11.413	0.000	17096	0.00500	0.004858
7 beta-BHC	11.913	11.913	0.000	9226	0.00500	0.004953
8 delta-BHC	12.640	12.640	0.000	17272	0.00500	0.004652
12 Heptachlor epoxide	13.180	13.180	0.000	19817	0.00500	0.004928
13 gamma-Chlordane	13.806	13.806	0.000	20357	0.00500	0.004941
14 alpha-Chlordane	13.913	13.913	0.000	19917	0.00500	0.004961
16 4,4'-DDE	14.080	14.080	0.000	18764	0.00500	0.004815
22 Endosulfan II	15.353	15.353	0.000	18537	0.00500	0.005241
24 Endrin aldehyde	15.993	15.986	0.007	6807	0.00500	0.004725
26 Endosulfan sulfate	16.546	16.546	0.000	10000	0.00500	0.004897
27 Endrin ketone	17.473	17.473	0.000	12281	0.00500	0.004853

6731388


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7019.d
Date : 02-OCT-2000 17:22
Client ID:
Sample Info: LOWB,7020-G.b,,4-INDB.sub,,1,1
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7019.d\D-B7019.RAW
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

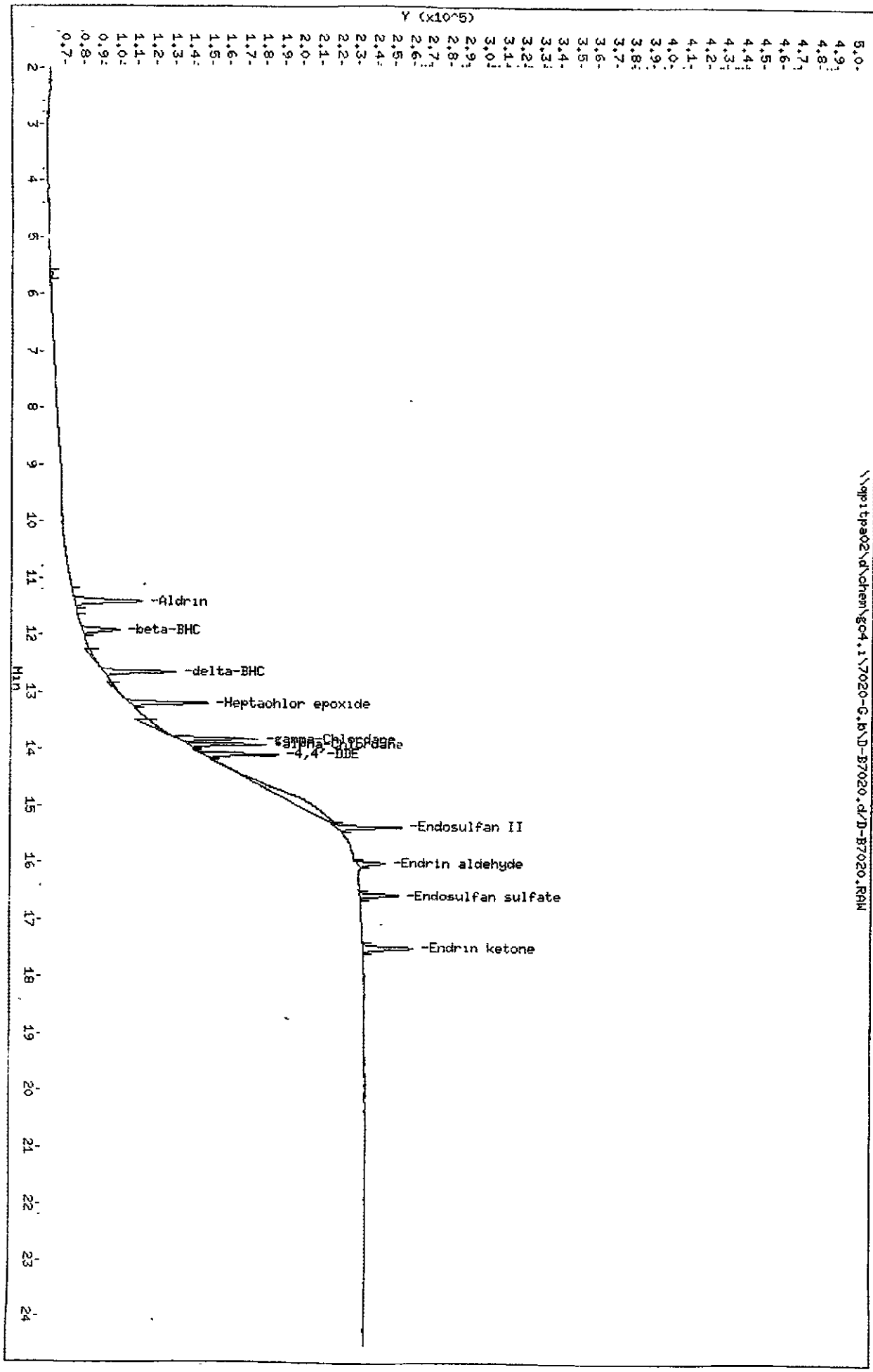
673 1389

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7020.d
Lab Smp Id: MLOWB
Inj Date : 02-OCT-2000 17:49
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWB,7020-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11 413	11 413	0.000	37319	0.01000	0 01040
7 beta-BHC	11 913	11 913	0 000	20234	0 01000	0 01056
8 delta-BHC	12 640	12 640	0 000	39306	0.01000	0.01038
12 Heptachlor epoxide	13.180	13 180	0.000	42960	0 01000	0.01044
13 gamma-Chlordane	13 806	13.806	0.000	43714	0.01000	0.01040
14 alpha-Chlordane	13 913	13 913	0.000	42520	0 01000	0 01039
16 4,4'-DDE	14 080	14 080	0 000	41568	0 01000	0 01043
22 Endosulfan II	15 353	15.353	0 000	36397	0.01000	0.01019
24 Endrin aldehyde	15 993	15 986	0.007	15689	0 01000	0.01058
26 Endosulfan sulfate	16 553	16.546	0 007	21410	0 01000	0 01032
27 Endrin ketone	17 473	17 473	0.000	27436	0.01000	0 01054

6731390


Data File: \\qpitpa02\d\chem\gc4.1\7020-G.b\D-B7020.d
Date : 02-OCT-2000 17:49
Client ID:
Sample Info: HLOWB,7020-G.b,,4-INDB.sub,,1,2
Column phase: DB1701
Instrument: gc4.1
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.1\7020-G.b\D-B7020.d\D-B7020.RAW
Y (x10^5)
Min
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

673 1391

STL - Pittsburgh

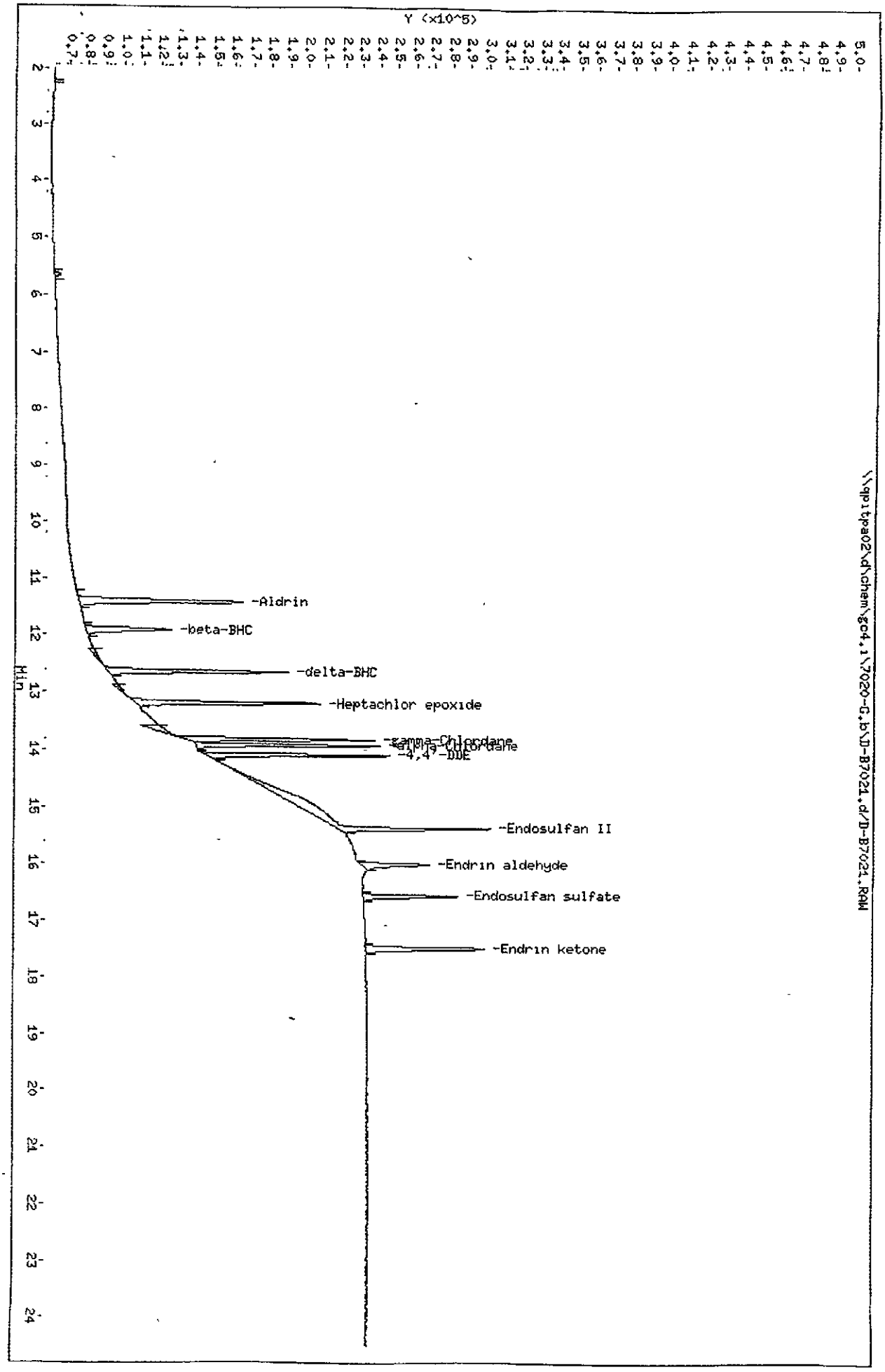
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7021.d
Lab Smp Id: MEDB
Inj Date : 02-OCT-2000 18:17
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-B7021.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: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.413	11.413	0.000	90477	0.02500	0.02500
7 beta-BHC	11.913	11.913	0.000	46997	0.02500	0.02500
8 delta-BHC	12.640	12.640	0.000	99262	0.02500	0.02500
12 Heptachlor epoxide	13.180	13.180	0.000	101984	0.02500	0.02500
13 gamma-Chlordane	13.806	13.806	0.000	104206	0.02500	0.02500
14 alpha-Chlordane	13.913	13.913	0.000	101132	0.02500	0.02500
16 4,4'-DDE	14.080	14.080	0.000	101045	0.02500	0.02500
22 Endosulfan II	15.353	15.353	0.000	84172	0.02500	0.02500
24 Endrin aldehyde	15.986	15.986	0.000	37994	0.02500	0.02500
26 Endosulfan sulfate	16.546	16.546	0.000	52095	0.02500	0.02500
27 Endrin ketone	17.473	17.473	0.000	65134	0.02500	0.02500

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7021.d
Date : 02-OCT-2000 18:17
Client ID:
Sample Info: MEDB,7020-G,b,,4-IMDB,sub,,1,3

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

Column phase: DB1701



673 1393

STL - Pittsburgh

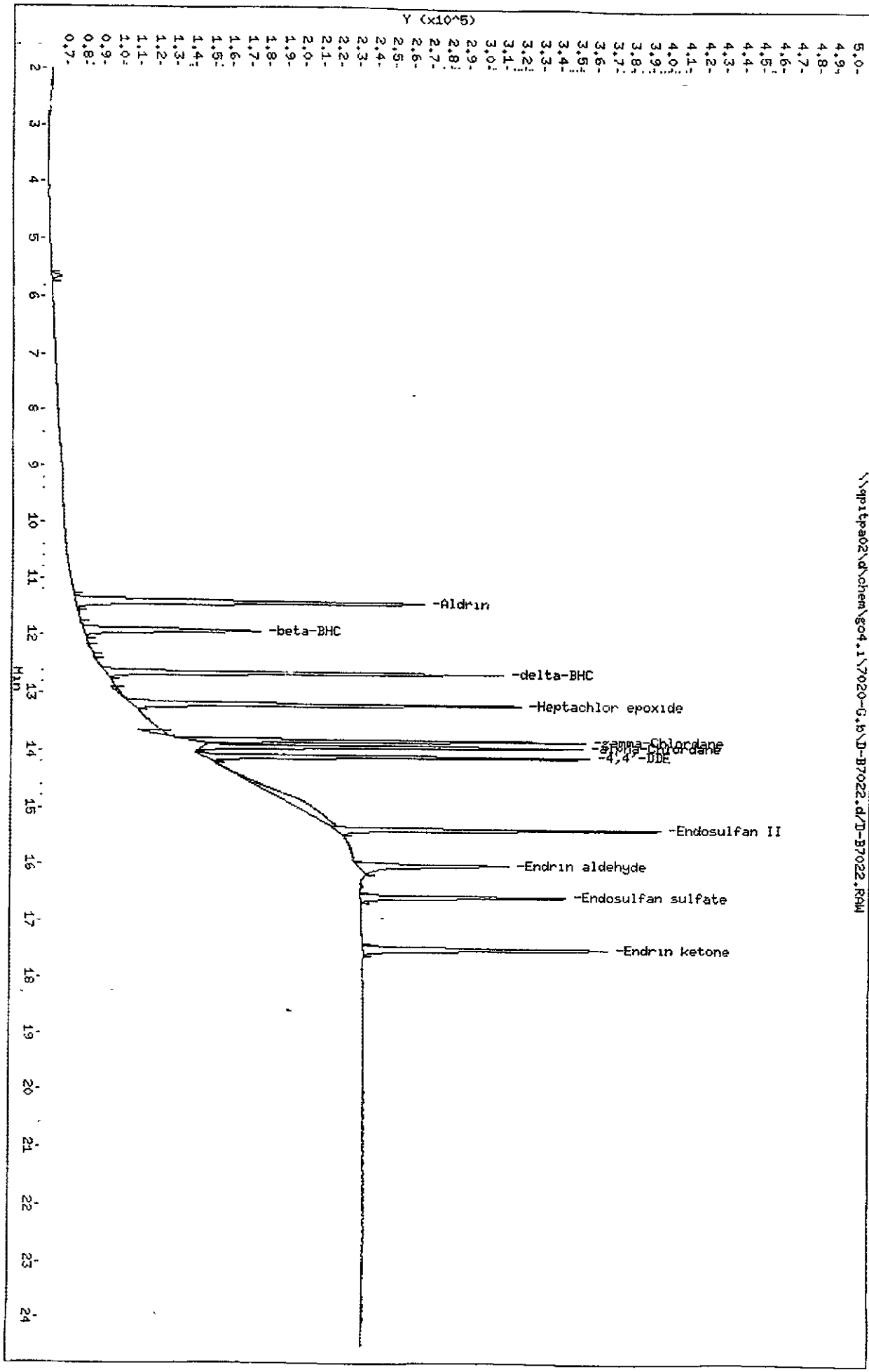
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7022.d
Lab Smp Id: MHIGHB
Inj Date : 02-OCT-2000 18:45
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHB,7020-G.b,,4-INDB.sub,,1,4
Misc Info : 190-101-1
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 18:45 Cal File: D-B7022.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC043

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
11 Aldrin	11.413	11.413	0 000	191538	0.05000	0 05247
7 beta-BHC	11 913	11.913	0 000	96967	0.05000	0 05045
8 delta-BHC	12.640	12 640	0.000	218152	0.05000	0.05551
12 Heptachlor epoxide	13 180	13.180	0 000	213162	0 05000	0.05136
13 gamma-Chlordane	13 806	13.806	0.000	215808	0 05000	0.05100
14 alpha-Chlordane	13 913	13.913	0 000	207763	0 05000	0.05056
16 4,4'-DDE	14 080	14.080	0.000	210786	0.05000	0 05215
22 Endosulfan II	15 353	15 353	0.000	177206	0.05000	0 04971
24 Endrin aldehyde	15.986	15 986	0 000	82596	0.05000	0.05414
26 Endosulfan sulfate	16 546	16 546	0 000	111566	0 05000	0.05277
27 Endrin ketone	17.473	17 473	0 000	134274	0 05000	0.05120

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7022.d
Date : 02-OCT-2000 18:45
Client ID:
Sample Info: MHIGHB,7020-G.b,4-INDB.sub,.1,4

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

Column phase: DB1701



673 1395

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7023.d
Lab Smp Id: HIGHB
Inj Date : 02-OCT-2000 19:13
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHB,7020-G.b,,4-INDB.sub,,1,5
Misc Info : 190-101-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.413	11.413	0.000	377551	0.10000	0.1027(A)
7 beta-BHC	11.906	11.913	-0.007	183850	0.10000	0.09650
8 delta-BHC	12.633	12.640	-0.007	434174	0.10000	0.1082(A)
12 Heptachlor epoxide	13.180	13.180	0.000	410564	0.10000	0.09913
13 gamma-Chlordane	13.806	13.806	0.000	422895	0.10000	0.09995
14 alpha-Chlordane	13.913	13.913	0.000	413946	0.10000	0.1006(A)
16 4,4'-DDB	14.080	14.080	0.000	413998	0.10000	0.1019(A)
22 Endosulfan II	15.353	15.353	0.000	344005	0.10000	0.09719
24 Endrin aldehyde	15.986	15.986	0.000	162271	0.10000	0.1050(A)
26 Endosulfan sulfate	16.546	16.546	0.000	220483	0.10000	0.1034(A)
27 Endrin ketone	17.473	17.473	0.000	261023	0.10000	0.09962

QC Flag Legend

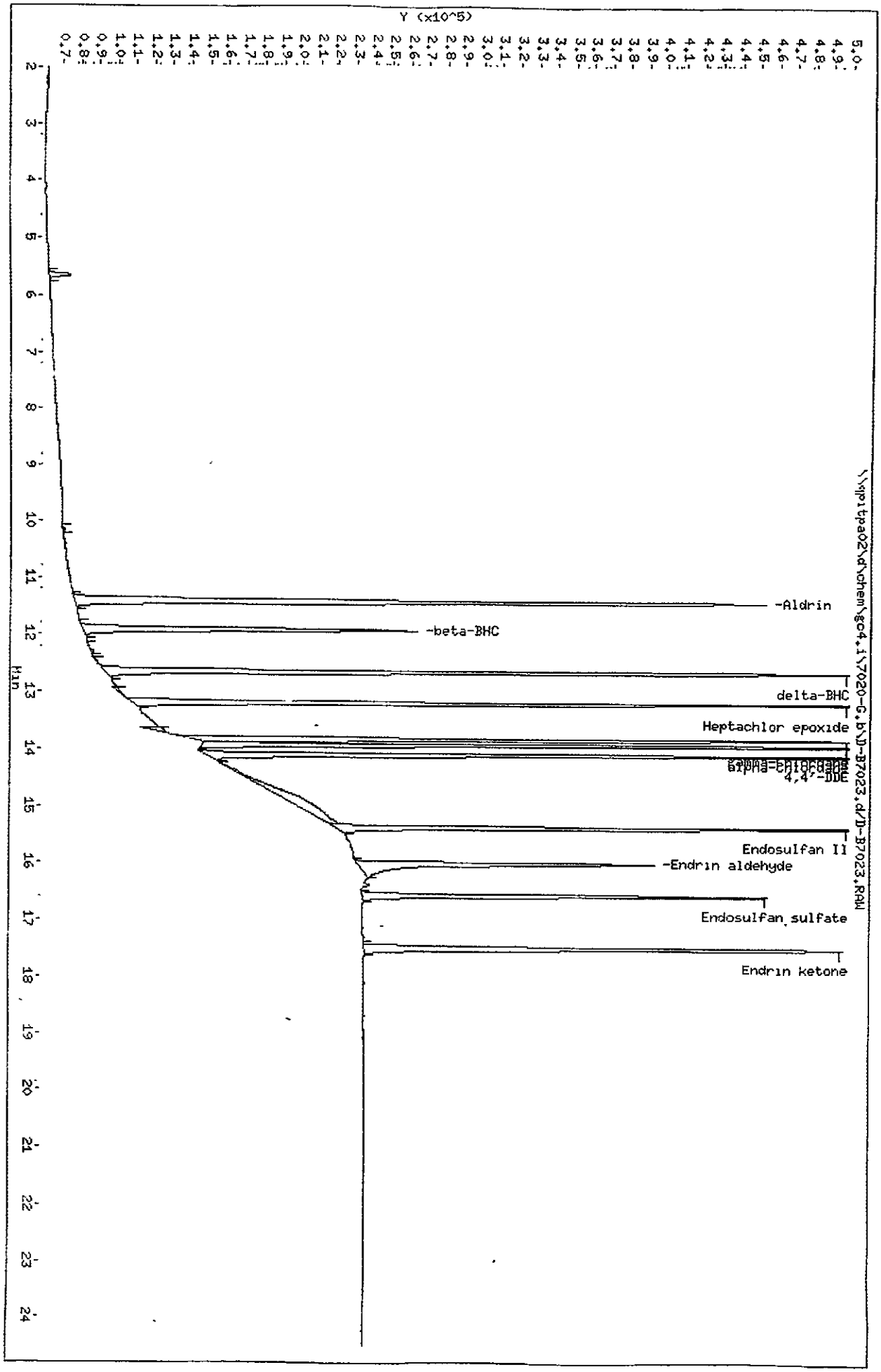
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7023.d
Date : 02-OCT-2000 19:13
Client ID:
Sample Info: HIGHB,7020-G.b,,4-INDB.sub,,1.5

Column phase: DB1701

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53



673 1397

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7024.d
Lab Smp Id: 2ND A
Inj Date : 02-OCT-2000 19:40
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND A,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-82-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC043

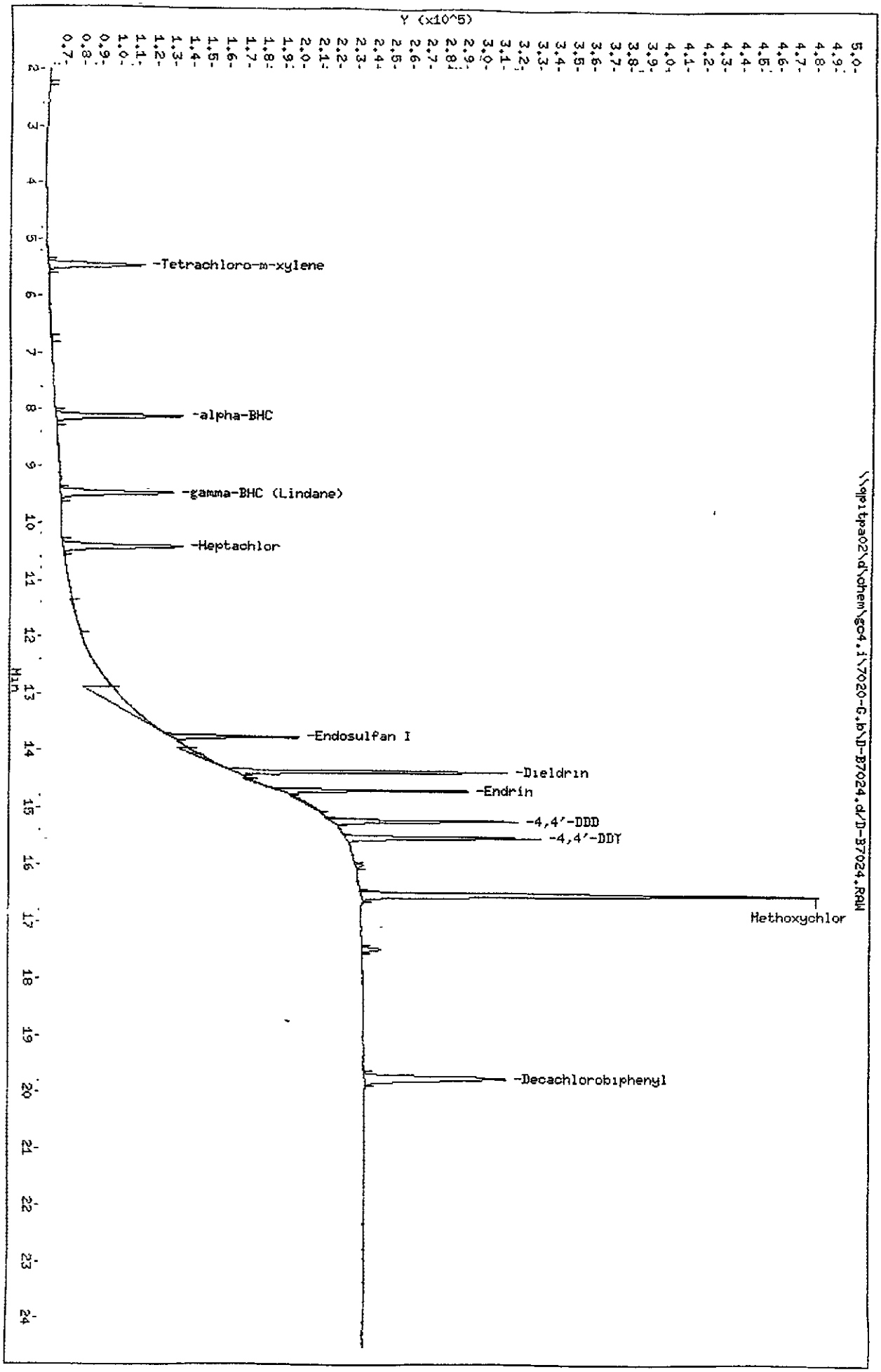
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5 453	5 460	-0.007	52172	0 02500	0 01740
5	alpha-BHC	8.120	8 120	0.000	69248	0.02500	0 01733
6	gamma-BHC (Lindane)	9 466	9.466	0 000	61689	0.02500	0 01729
10	Heptachlor	10 413	10.413	0.000	65570	0 02500	0 01744
15	Endosulfan I	13.746	13 753	-0.007	70079	0.02500	0.01777
17	Dieldrin	14 360	14 360	0.000	150220	0 02500	0.03539
20	Endrin	14.686	14 686	0.000	104039	0.02500	0.03181
21	4,4'-DDD	15 220	15 220	0 000	101719	0 02500	0 03532
23	4,4'-DDT	15.506	15.506	0.000	106879	0.02500	0 03510
25	Methoxychlor	16 506	16.513	-0.007	249098	0.05000	0.1769
$ 30	Decachlorobiphenyl	19 740	19 746	-0.006	77323	0.02500	0.03560

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7024.d
Date : 02-OCT-2000 19:40
Client ID:
Sample Info: 2ND A,7020-G.b,,INDA,sub,,2,3

Column phase: DB1701

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53



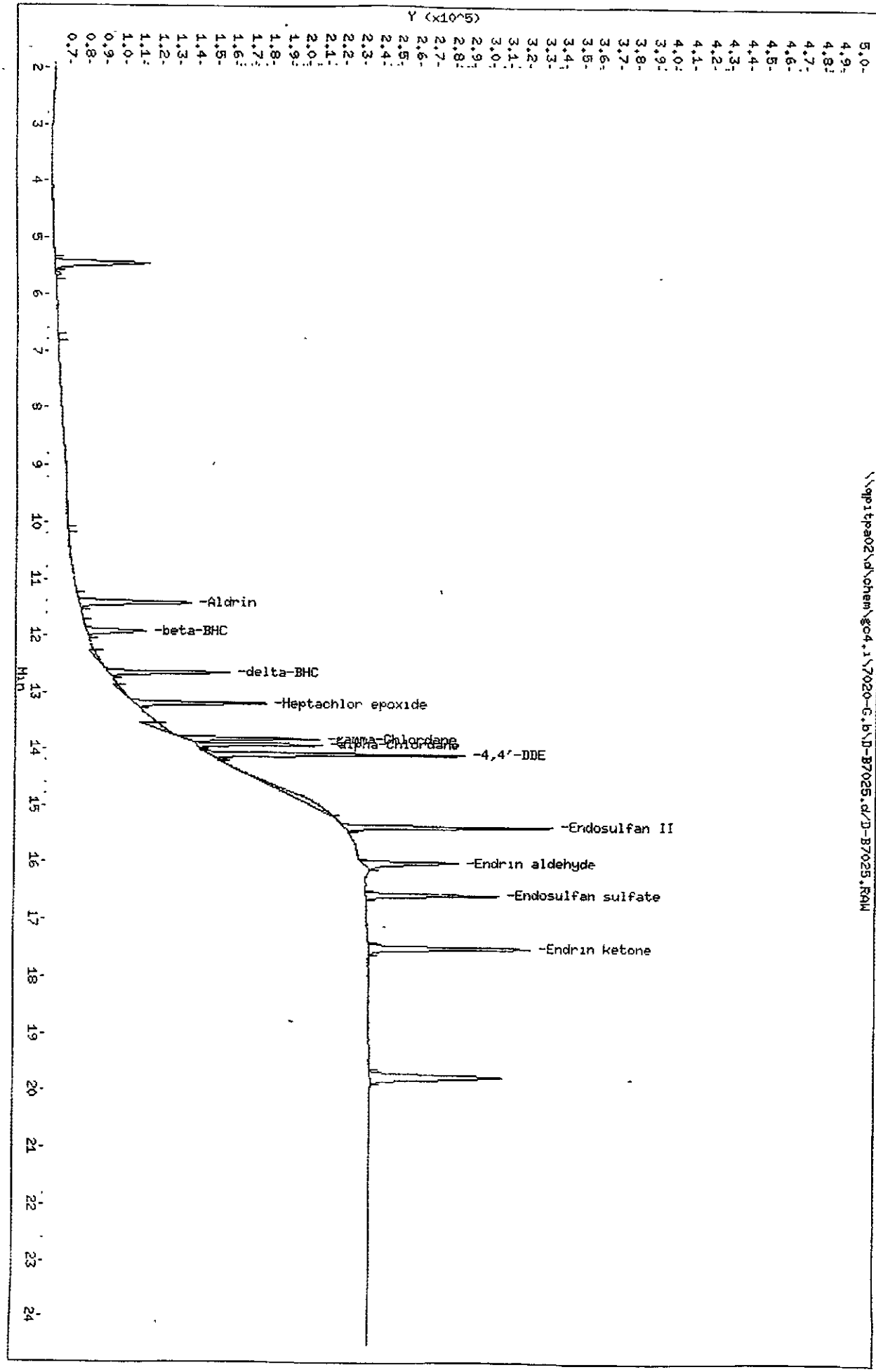
673 1399

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7025.d
Lab Smp Id: 2ND B
Inj Date : 02-OCT-2000 20:08
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND B,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-82-5
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.413	11.413	0.000	61170	0.02500	0.01664
7 beta-BHC	11.913	11.913	0.000	32511	0.02500	0.01706
8 delta-BHC	12.640	12.640	0.000	66355	0.02500	0.01654
12 Heptachlor epoxide	13.180	13.180	0.000	71560	0.02500	0.01728
13 gamma-Chlordane	13.806	13.806	0.000	73624	0.02500	0.01740
14 alpha-Chlordane	13.913	13.913	0.000	69199	0.02500	0.01682
16 4,4'-DDE	14.080	14.080	0.000	140444	0.02500	0.03458
22 Endosulfan II	15.353	15.353	0.000	114823	0.02500	0.03244
24 Endrin aldehyde	15.986	15.986	0.000	52096	0.02500	0.03372
26 Endosulfan sulfate	16.546	16.546	0.000	72928	0.02500	0.03420
27 Endrin ketone	17.473	17.473	0.000	88258	0.02500	0.03368

6731400


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7025.d
Date : 02-OCT-2000 20:08
Client ID:
Sample Info: 2ND B,7020-G.b,,INDB,sub,,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7025.d/D-B7025.RAW
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

673 1401

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7026.d
Lab Smp Id: EVALB
Inj Date : 02-OCT-2000 20:36
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 03-Oct-2000 14:34 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5 453	5 460	-0.007	58054	0 01936	0.01936(R)
16 4,4'-DDE	Compound Not Detected					
20 Endrin	14 680	14 686	-0.006	78915	0 02413	0.02413
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15 506	15 506	0 000	74359	0 02442	0 02442
24 Endrin aldehyde	Compound Not Detected					
27 Endrin ketone	Compound Not Detected					
$ 30 Decachlorobiphenyl	19.740	19.746	-0 006	43125	0.01985	0.01985(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

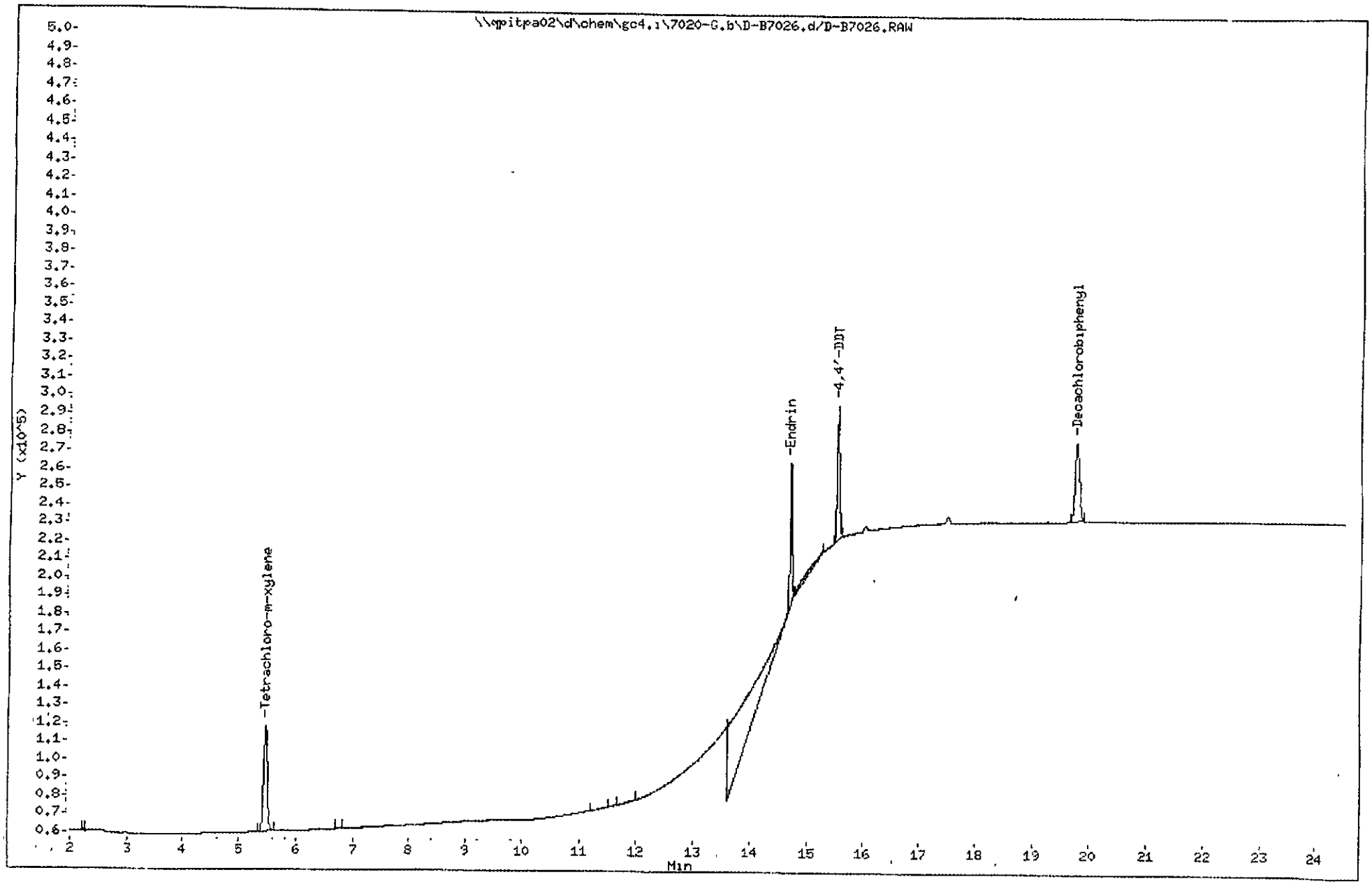
6731402

Data File: \\qpitpa02\d\chem\gc4.1\7020-G.b\D-B7026.d
Date : 02-OCT-2000 20:36
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,,3,1

Instrument: gc4.1

Column phase: DB1701

Operator: 1891
Column diameter: 0.53



3068

STL Pittsburgh

673 1403

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7297.d
Lab Smp Id: EVALB
Inj Date : 18-OCT-2000 11:33
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

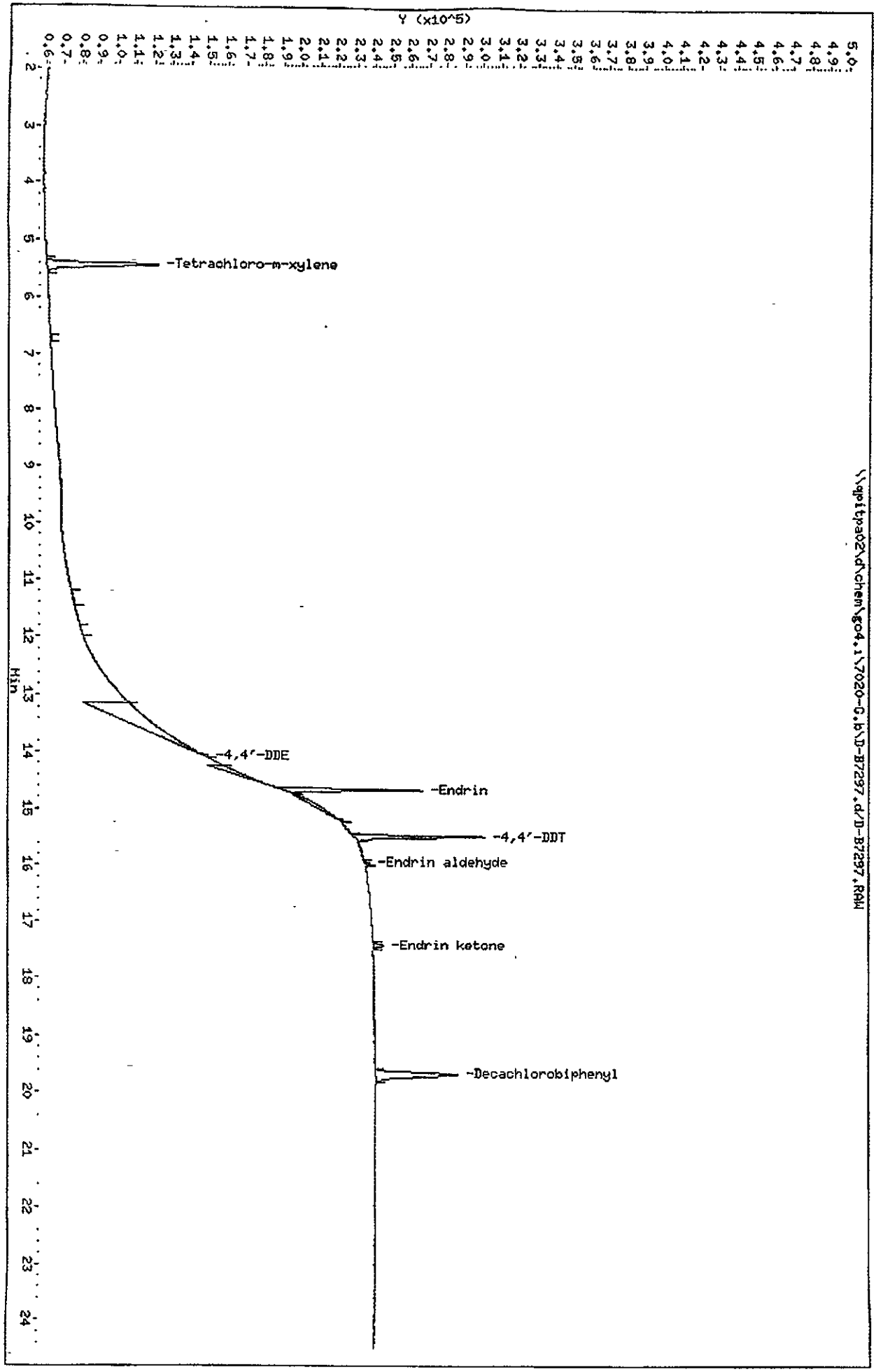
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 1	Tetrachloro-m-xylene	5.433	5.440	-0.007	61306	0.02044	0.02044(R)
16	4,4'-DDE	14.066	14.060	0.006	1740	<0.0	0 0004284
20	Endrin	14.660	14.660	0.000	77183	0.02360	0.02360
21	4,4'-DDD	Compound Not Detected.					
23	4,4'-DDT	15.480	15.480	0.000	71302	0.02342	0.02342
24	Endrin aldehyde	15.953	15.953	0.000	2616	0.00169	0.001693
27	Endrin ketone	17.426	17.426	0 000	5253	0.00200	0.002005
$ 30	Decachlorobiphenyl	19.686	19.686	0.000	44847	0.02065	0.02065(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 2.4
Endrin = 9.3

6731404


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7297.d
Date : 18-OCT-2000 11:33
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,3,1
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7297.d\D-B7297.RAW
-Tetrachloro-m-xylene
-4,4'-DDE
-Endrin
-4,4'-DDT
-Endrin aldehyde
-Endrin ketone
-Decachlorobiphenyl

673 1405

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7298.d
Lab Smp Id: MEDTOX
Inj Date : 18-OCT-2000 12:01
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,7020-G.b,,1-TOX.sub,,2,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

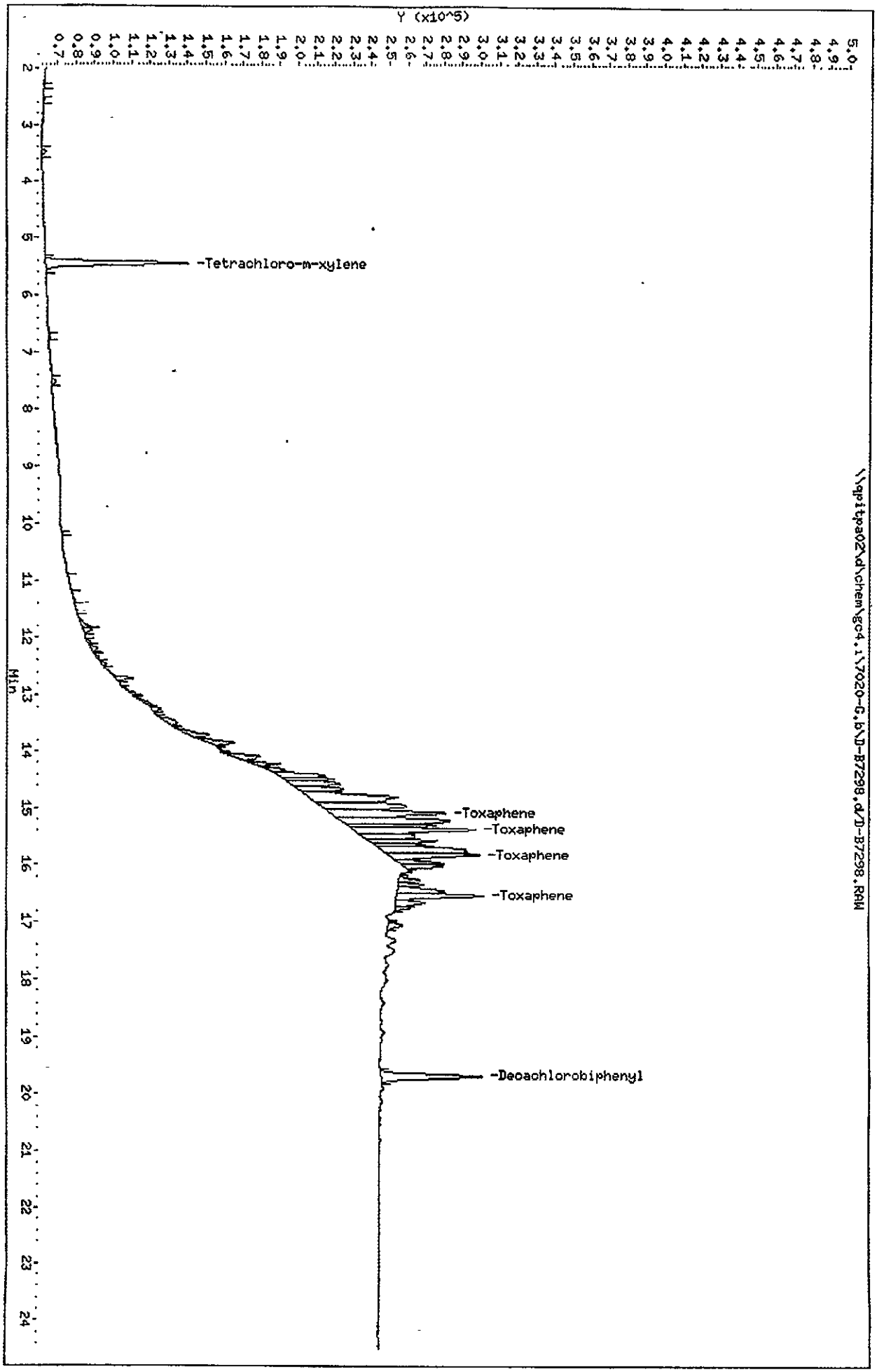
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
18 Toxaphene	15.073	15.073	0 000	62946	1.00000	0.9935
$ 1 Tetrachloro-m-xylene	5.440	5.440	0 000	76628	0 02500	0.02555
$ 30 Decachlorobiphenyl	19.686	19.686	0.000	. 55162	0.02500	0.02539

6731406

Data File: \\qpitpa02\d\chem\gc4.i\7020-G,b\D-B7298.d
Date : 18-OCT-2000 12:01
Client ID:
Sample Info: MEDTOX,7020-G,b,,1-TOX.sub,,2,3

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

Column phase: DB1701



673 1497

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7299.d
Lab Smp Id: MEDCHLOR
Inj Date : 18-OCT-2000 12:29
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,7020-G.b,,2-CHLO.sub,,2,3
Misc Info : 190-90-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
9 Chlordane	9.760	9 760	0.000	32692	0.25000	0.2798
$ 1 Tetrachloro-m-xylene	5.433	5.440	-0.007	77298	0.02500	0.02578
$ 30 Decachlorobiphenyl	19.693	19.686	0.007	56785	0.02500	0.02614

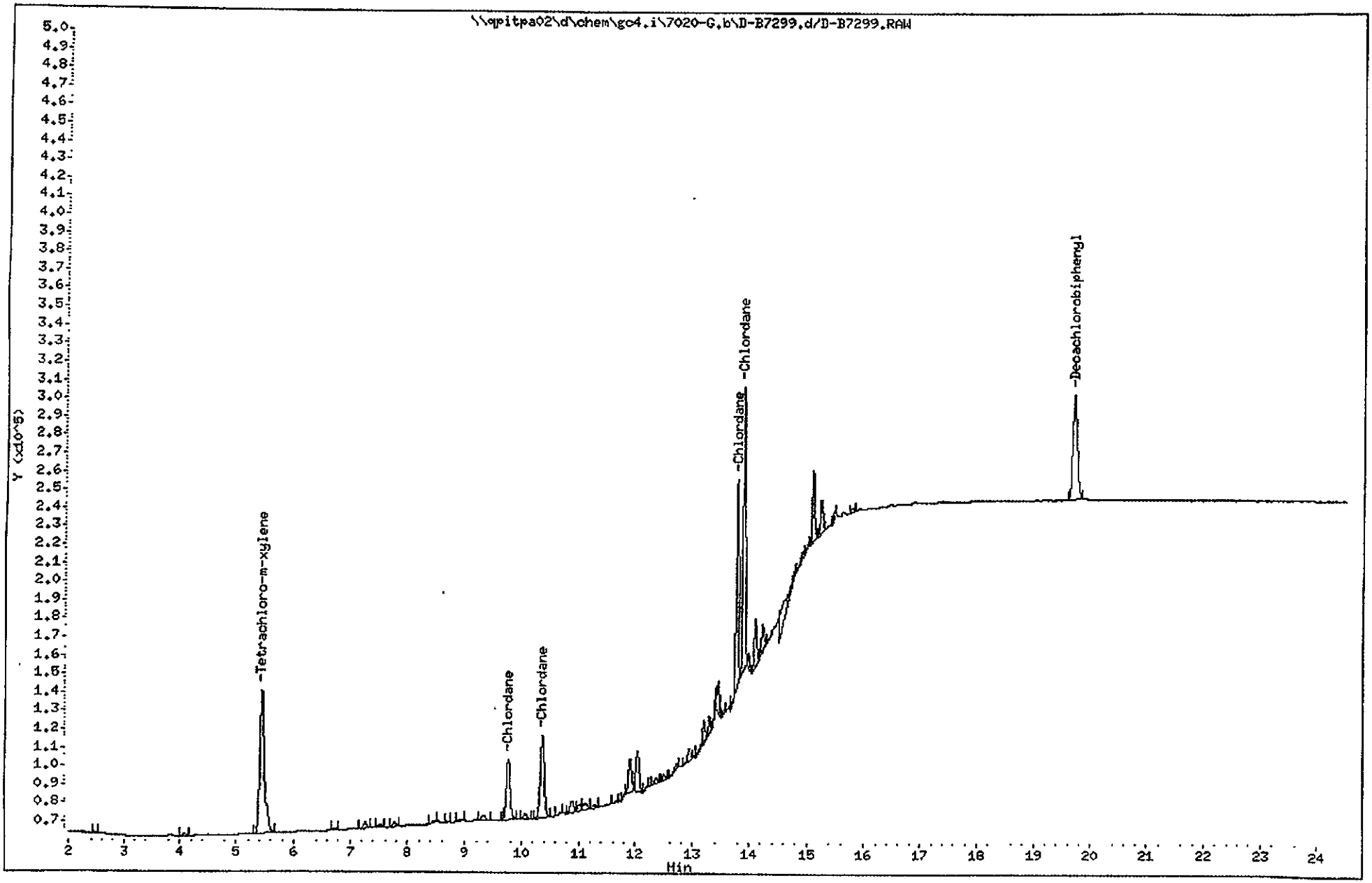
6731408

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7299.d
Date : 18-OCT-2000 12:29
Client ID:
Sample Info: MEDCHLOR,7020-G.b,,2-CHLO.sub,,2,3

Column phase: DB1701

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53



3074

STL Pittsburgh

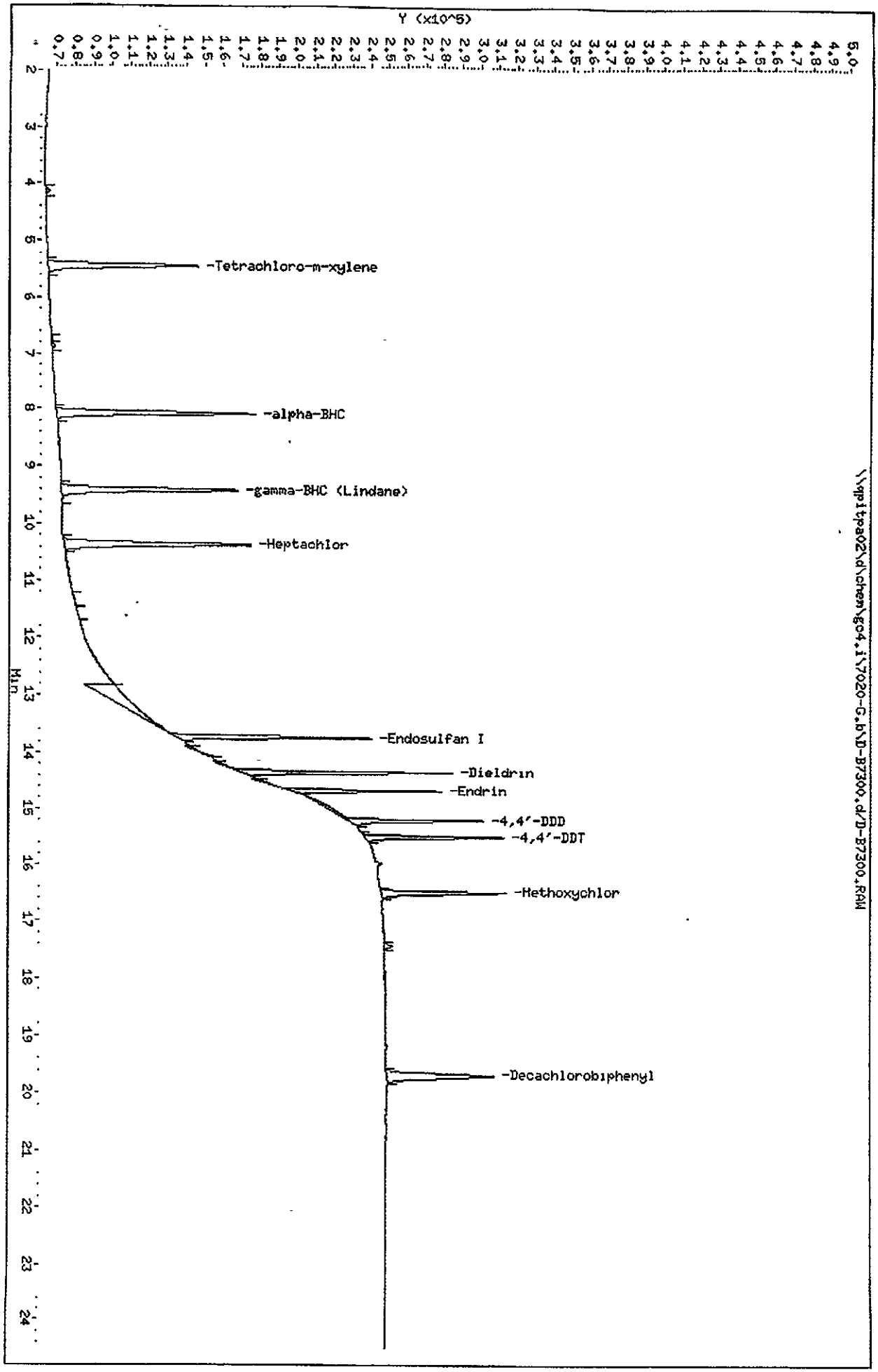
673 1409

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7300.d
Lab Smp Id: MEDA
Inj Date : 18-OCT-2000 12:57
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m-xylene	5.440	5 440	0.000	81112	0.02500	0.02705
5 alpha-BHC	8.080	8 080	0.000	107879	0 02500	0.02699
6 gamma-BHC (Lindane)	9.420	9.420	0.000	95468	0 02500	0.02676
10 Heptachlor	10.366	10 366	0 000	101544	0.02500	0.02701
15 Endosulfan I	13.726	13.726	0.000	105902	0 02500	0.02685
17 Dieldrin	14.333	14.333	0.000	113765	0.02500	0.02680
20 Endrin	14.660	14.660	0 000	82135	0.02500	0.02511
21 4,4'-DDD	15.193	15 193	0.000	73733	0.02500	0.02560
23 4,4'-DDT	15.480	15 480	0 000	75354	0.02500	0.02475
25 Methoxychlor	16 473	16.473	0.000	67645	0.05000	0.04803
$ 30 Decachlorobiphenyl	19.686	19 686	0.000	57578	0 02500	0.02651

6731410


Data File: \\wpitpa02\d\chem\gc4.i\7020-G.b\D-B7300.d
Date : 18-OCT-2000 12:57
Client ID:
Sample Info: MEDA,7020-G.b,,INDA.sub,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\wpitpa02\d\chem\gc4.i\7020-G.b\D-B7300.d\D-B7300.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

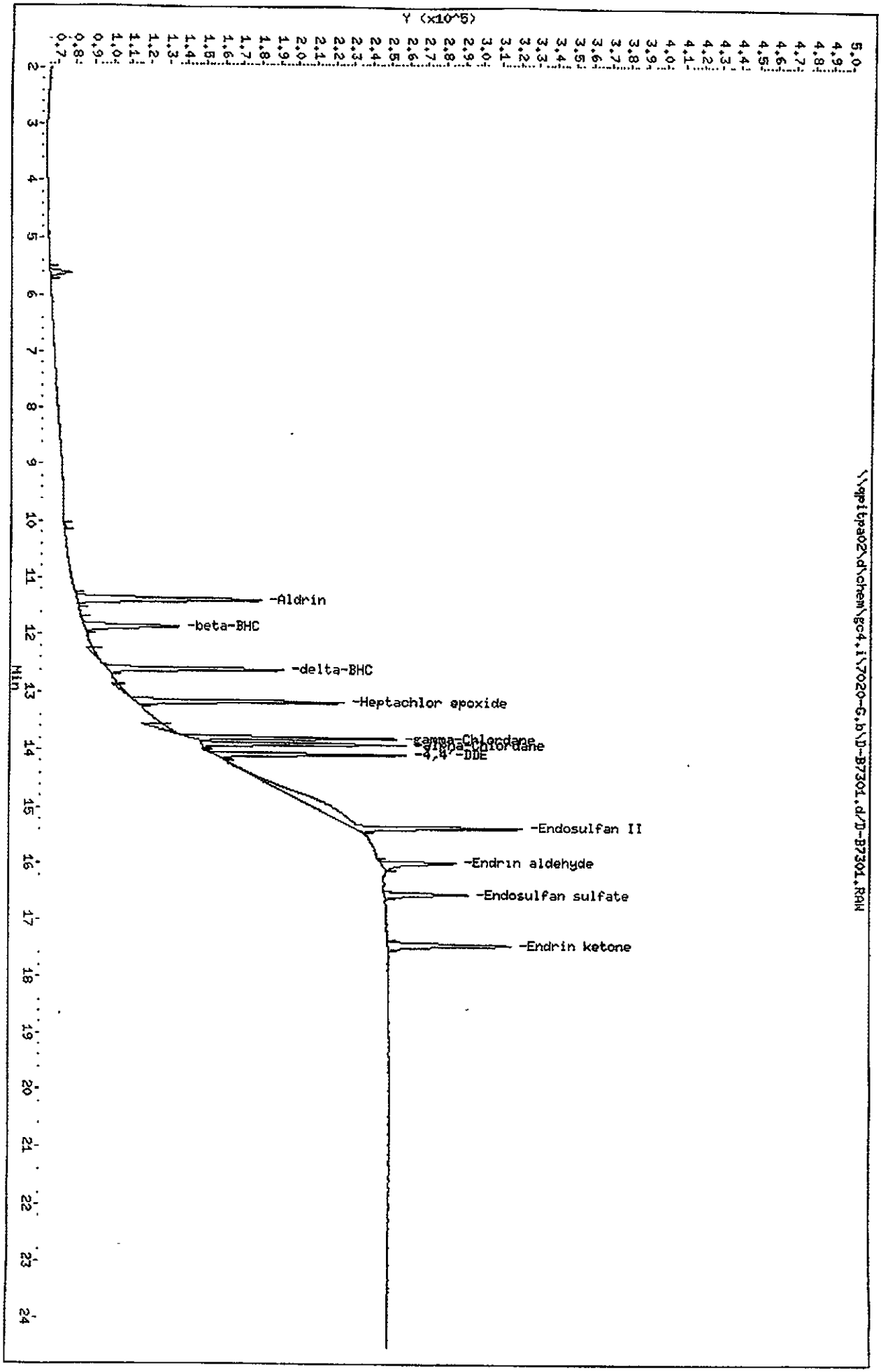
673 1411

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7301.d
Lab Smp Id: MEDB
Inj Date : 18-OCT-2000 13:24
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.373	11.373	0.000	100230	0.02500	0.02727
7 beta-BHC	11.853	11.853	0.000	51207	0.02500	0.02688
8 delta-BHC	12.593	12.593	0.000	95911	0.02500	0.02390
12 Heptachlor epoxide	13.146	13.146	0.000	113149	0.02500	0.02732
13 gamma-Chlordane	13.780	13.780	0.000	111958	0.02500	0.02646
14 alpha-Chlordane	13.880	13.880	0.000	110459	0.02500	0.02684
16 4,4'-DDE	14.060	14.060	0.000	105069	0.02500	0.02587
22 Endosulfan II	15.326	15.326	0.000	90062	0.02500	0.02544
24 Endrin aldehyde	15.953	15.953	0.000	40230	0.02500	0.02604
26 Endosulfan sulfate	16.506	16.506	0.000	44716	0.02500	0.02097
27 Endrin ketone	17.426	17.426	0.000	65819	0.02500	0.02512

6731412


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7301.d
Date : 18-OCT-2000 13:24
Client ID:
Sample Info: HEDB,7020-G.b,,INDB,sub,2,3
Column Phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7301.d\D-B7301.RAW
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

673 1413

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7322.d
Lab Smp Id: MEDA
Inj Date : 18-OCT-2000 23:36
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC043

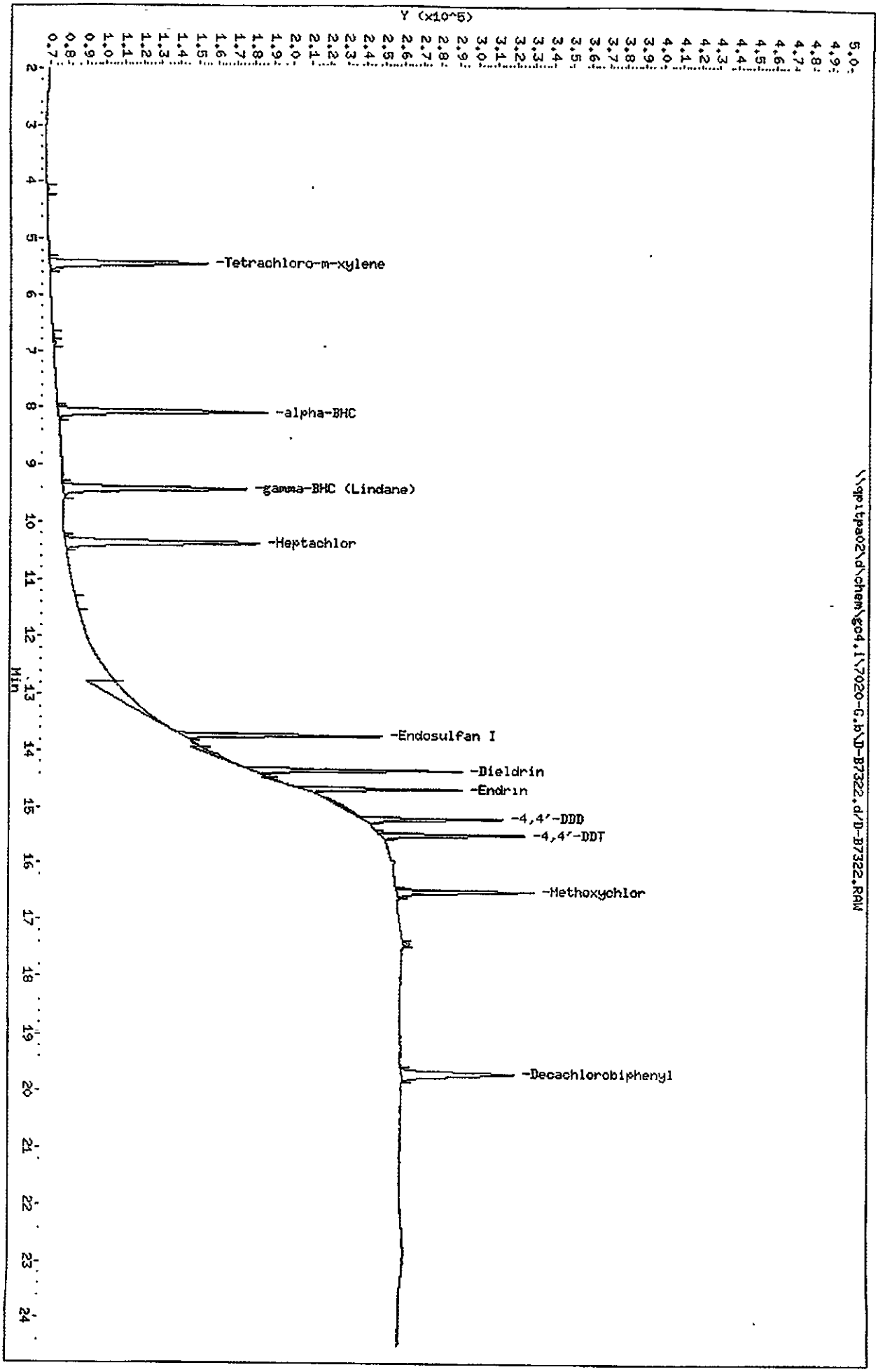
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5.433	5.440	-0.007	84431	0.02500	0.02815
5	alpha-BHC	8.073	8 080	-0.007	112437	0.02500	0.02813
6	gamma-BHC (Lindane)	9.413	9.420	-0.007	98890	0 02500	0 02772
10	Heptachlor	10.366	10 366	0 000	104191	0.02500	0.02772
15	Endosulfan I	13 720	13 726	-0.006	108067	0.02500	0 02740
17	Dieldrin	14.333	14.333	0.000	113340	0.02500	0.02670
20	Endrin	14 660	14.660	0.000	85917	0.02500	0.02627
21	4,4'-DDD	15.186	15.193	-0.007	75053	0.02500	0.02606
23	4,4'-DDT	15.480	15.480	0 000	76452	0.02500	0.02511
25	Methoxychlor	16.473	16.473	0.000	72674	0.05000	0.05160
$ 30	Decachlorobiphenyl	19.686	19.686	0.000	60149	0.02500	0.02769

6731414

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7322.d
Date : 18-OCT-2000 23:36
Client ID:
Sample Info: MEDA,7020-G.b,,INDA,sub,2,3

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

Column phase: DB1701



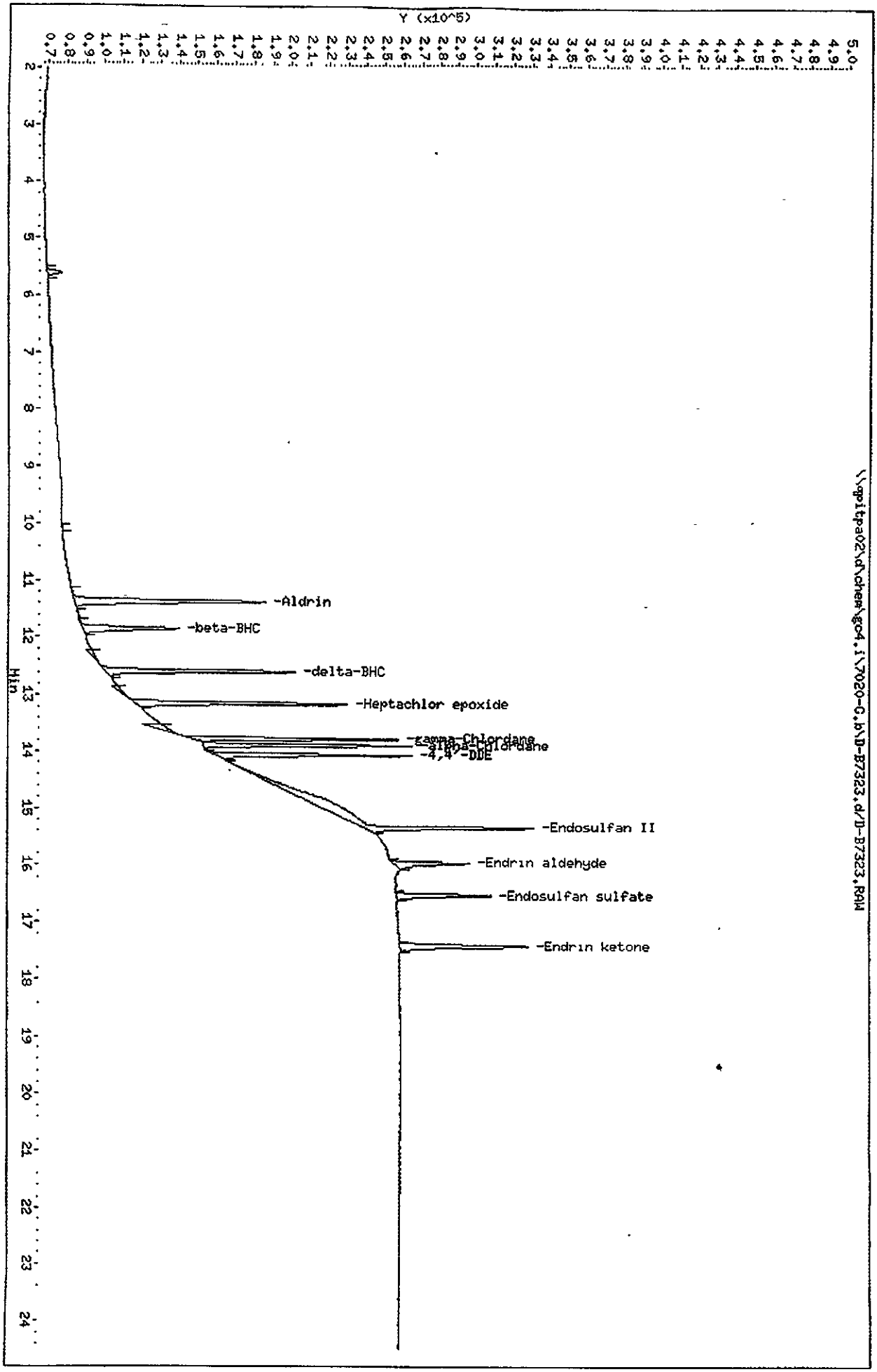
673 1415

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7323.d
Lab Smp Id: MEDB
Inj Date : 19-OCT-2000 00:03
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.373	11.373	0.000	102699	0.02500	0.02794
7 beta-BHC	11.853	11.853	0.000	51521	0.02500	0.02704
8 delta-BHC	12.586	12.593	-0.007	102015	0.02500	0.02543
12 Heptachlor epoxide	13.146	13.146	0.000	113697	0.02500	0.02745
13 gamma-Chlordane	13.773	13.780	-0.007	110981	0.02500	0.02623
14 alpha-Chlordane	13.880	13.880	0.000	111375	0.02500	0.02706
16 4,4'-DDE	14.053	14.060	-0.007	105673	0.02500	0.02602
22 Endosulfan II	15.326	15.326	0.000	90985	0.02500	0.02570
24 Endrin aldehyde	15.946	15.953	-0.007	40942	0.02500	0.02650
26 Endosulfan sulfate	16.506	16.506	0.000	51211	0.02500	0.02402
27 Endrin ketone	17.420	17.426	-0.006	69487	0.02500	0.02652

6731416


Data File: \\qpitpa02\dt\chem\gc4.i\7020-G.b\D-B7323.d
Date : 19-OCT-2000 00:03
Client ID:
Sample Info: MEDB,7020-G.b,,INDB,sub,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\dt\chem\gc4.i\7020-G.b\D-B7323.d\D-B7323.RAW
Y (x10^5)
Min
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

673 1417

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7324.d
Lab Smp Id: EVALB
Inj Date : 19-OCT-2000 00:31
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC043

					CONCENTRATIONS ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m-xylene	5.433	5.440	-0.007	65956	0.02199	0.02199(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	14.660	14.660	0.000	81405	0.02489	0.02489
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.480	15.480	0.000	73454	0.02413	0.02413
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	17.426	17.426	0.000	4909	0.00187	0.001874
$ 30 Decachlorobiphenyl	19 686	19.686	0.000	46905	0.02159	0.02159(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT=D
Endrin = 5.7

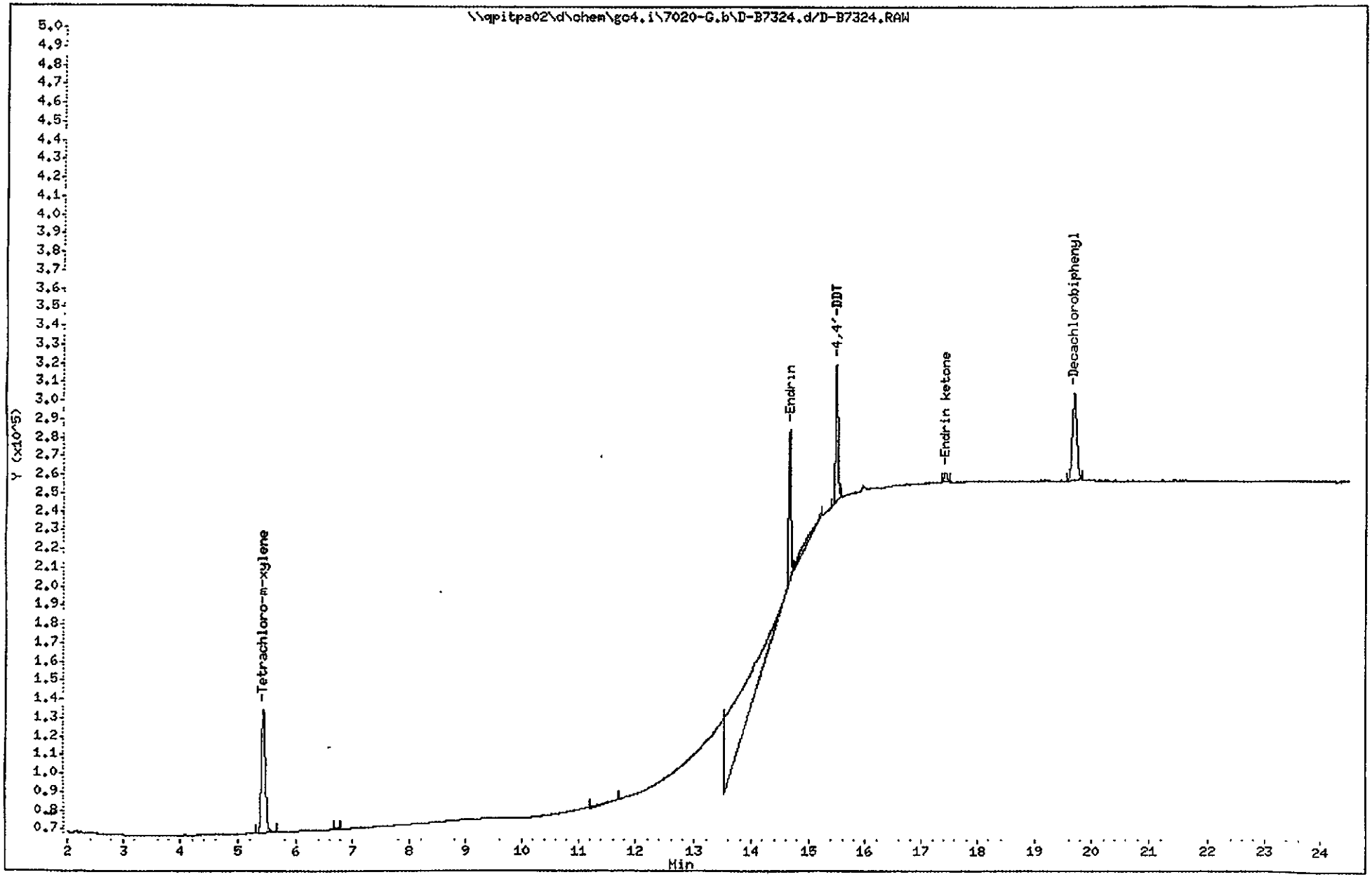
6731418

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7324.d
Date : 19-OCT-2000 00:31
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB1701



3084

STL Pittsburgh

6D
5B904A
DB608

673 1419

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Quant Method : ESTD
Target Version : 4.04
Last Update : 18-Oct-2000 14:11
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	5.227	5.177-5.277	4.23e+006
	2 Diallate A	6.767	6.717-6.817	
	3 Diallate B	7.047	6.997-7.097	
	4 HEXACHLOROBENZENE	7.193	7.143-7.243	
	5 alpha-BHC	7.427	7.377-7.477	5.19e+006
	6 gamma-BHC (Lindane)	8.787	8.737-8.837	4.80e+006
	7 beta-BHC	9.060	9.010-9.110	2.63e+006
	8 delta-BHC	10.467	10.417-10.517	4.23e+006
	9 Chlordane	9.380	9.330-9.430	1.34e+005
		9.987	9.937-10.037	1.61e+005
		13.280	13.230-13.330	4.31e+005
		13.613	13.563-13.663	3.52e+005
	10 Heptachlor	9.993	9.943-10.043	3.54e+006
	11 Aldrin	11.213	11.163-11.263	3.46e+006
	12 Heptachlor epoxide	12.907	12.857-12.957	3.74e+006
	13 gamma-Chlordane	13.280	13.230-13.330	3.86e+006
	14 alpha-Chlordane	13.613	13.563-13.663	3.85e+006
	15 Endosulfan I	13.660	13.610-13.710	3.57e+006
	16 4,4'-DDE	14.087	14.037-14.137	3.78e+006
	17 Dieldrin	14.213	14.163-14.263	3.70e+006
	18 Toxaphene	14.967	14.917-15.017	4.07e+004
		15.113	15.063-15.163	5.85e+004
		15.467	15.417-15.517	3.98e+004
		16.567	16.517-16.617	4.63e+004

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STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

	Compound	RT	RT Window	RF
	19 Isodrin	12.907	12.857-12.957	
	20 Endrin	14.800	14.750-14.850	3.02e+006
	21 4,4'-DDD	14.953	14.903-15.003	2.91e+006
	22 Endosulfan II	15.073	15.023-15.123	3.25e+006
	23 4,4'-DDT	15.427	15.377-15.477	2.75e+006
	24 Endrin aldehyde	15.607	15.557-15.657	2.42e+006
	25 Methoxychlor	17.053	17.003-17.103	1.18e+006
	26 Endosulfan sulfate	15.827	15.777-15.877	2.47e+006
	27 Endrin ketone	17.433	17.383-17.483	2.62e+006
	28 MIREX	17.773	17.723-17.823	
	29 Kepone	15.113	15.063-15.163	
	58 CHLOROBENZILATE	14.820	14.770-14.870	
$	30 Decachlorobiphenyl	20.920	20.870-20.970	1.93e+006

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STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2000 14:07
End Cal Date : 02-OCT-2000 19:13
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Cal Date : 03-Oct-2000 14:09 matkol
Curve Type : Average

Calibration File Names:
Level 1: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7019.d
Level 2: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7020.d
Level 3: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7021.d
Level 4: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7022.d
Level 5: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7023.d

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
2 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HEXACHLOROBENZENE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 alpha-BHC	5045800	5235500	5218600	5250020	5195590	5189102	1.592
6 gamma-BHC (Lindane)	4796600	4952600	4802200	4772600	4689820	4802764	1.980
7 beta-BHC	2890800	2955800	2559080	2490240	2263930	2631970	10.958
8 delta-BHC	3914600	4348900	4173400	4442160	4281410	4232094	4.791
9 Chlordane(1)	+++++	+++++	133780	+++++	+++++	133780	0.000
(2)	+++++	+++++	160528	+++++	+++++	160528	0.000
(3)	+++++	+++++	430992	+++++	+++++	430992	0.000
(4)	+++++	+++++	351532	+++++	+++++	351532	0.000
10 Heptachlor	3659600	3683500	3467000	3471460	3439690	3544250	3 305
11 Aldrin	3357000	3540900	3359040	3556020	3493890	3461370	2.805
12 Heptachlor epoxide	3625400	3892100	3640720	3822000	3713820	3738808	3.094
13 gamma-Chlordane	3726000	4028400	3782680	3923960	3826270	3857462	3.108
14 alpha-Chlordane	3783400	4027300	3787320	3883280	3746870	3845634	2.949
15 Endosulfan I	3534200	3610600	3542920	3579340	3593400	3572092	0.915
16 4,4'-DDE	3468800	3768600	3729160	4005960	3936470	3781798	5.532
17 Dieldrin	3454400	3608100	3699120	3814320	3918980	3698984	4.870
18 Toxaphene(1)	+++++	+++++	40687	+++++	+++++	40687	0.000
(2)	+++++	+++++	58530	+++++	+++++	58530	0.000
(3)	+++++	+++++	39816	+++++	+++++	39816	0.000
(4)	+++++	+++++	46263	+++++	+++++	46263	0.000
19 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Endrin	2816400	2942200	2977280	3138560	3247630	3024414	5.609
21 4,4'-DDD	2764400	2833400	2879440	2956500	3101850	2907118	4.449

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Report Date : 03-Oct-2000 14:12

673 1422

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2000 14:07
End Cal Date : 02-OCT-2000 19:13
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Cal Date : 03-Oct-2000 14:09 matkol
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	3101400	3312800	3124560	3382960	3335680	3251480	3.974
23 4,4'-DDT	2514800	2669600	2734000	2838180	3016100	2754536	6.804
24 Endrin aldehyde	2369200	2525800	2362120	2453840	2386840	2419560	2.876
25 Methoxychlor	1146000	1196600	1174560	1188390	1205865	1182283	1.972
26 Endosulfan sulfate	2281200	2482100	2430280	2595100	2567050	2471146	5.056
27 Endrin ketone	2429400	2701200	2595080	2727680	2669320	2624536	4.567
28 MIREX	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 CHLOROBENZILATE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	4796200	4689000	4115280	3889400	3653490	4228674	11.781
$ 30 Decachlorobiphenyl	2021800	2047900	1922800	1846520	1792150	1926234	5.704

673 1423

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

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

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/02/00

Lab Sample ID (PEM): EVALB Time Analyzed :1339

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.83	14.78	14.88	0.02485	0.02500	-0.6
4,4'-DDT	15.45	15.40	15.50	0.02519	0.02500	0.8

4,4'-DDT % breakdown (1): ~~7.46~~ 7.5 Endrin % breakdown (1): ~~14.46~~ 10.8

Combined % breakdown (1): ~~21.92~~ 18.3

LM 10/3/00

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: [illegible] Contract: 673 1424

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

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/02/00

Lab Sample ID (PEM): EVALB Time Analyzed :2036

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.82	14.78	14.88	0.02514	0.02500	0.6
4,4'-DDT	15.45	15.40	15.50	0.02522	0.02500	0.9

4,4'-DDT % breakdown (1): ~~7.23~~ 7.3 Endrin % breakdown (1): ~~13.68~~ 10.1

Combined % breakdown (1): ~~20.91~~ 17.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

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

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/18/00

Lab Sample ID (PEM): EVALB Time Analyzed :1133

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.80	14.75	14.85	0.02545	0.02500	1.8
4,4'-DDT	15.43	15.38	15.48	0.02408	0.02500	-3.7

4,4'-DDT % breakdown (1): ~~7.66~~ 8.5 Endrin % breakdown (1): ~~16.73~~ 12.1

Combined % breakdown (1): ~~24.39~~ 20.6

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10/23/00

PESTICIDE CALIBRATION VERIFICATION SUMMARY

673 1426

Lab Name: Contract:

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

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

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

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

EPA Sample No.(PEM): Date Analyzed :10/19/00

Lab Sample ID (PEM): EVALB Time Analyzed :0031

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.79	14.75	14.85	0.02595	0.02500	3.8
4,4'-DDT	15.43	15.38	15.48	0.02419	0.02500	-3.2

4,4'-DDT % breakdown (1): ~~6.69~~ 7.3 Endrin % breakdown (1): ~~13.73~~ 10.0

Combined % breakdown (1): ~~20.42~~ 17.3

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Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7298.d
Report Date: 18-Oct-2000 14:12

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7298.d
Analysis Type:
Lab Sample ID: MEDTOX
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 18-OCT-2000 12:01
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
	18 Toxaphene(1)	40687	50432	0.010	24.0	15.0	<-
	(2)	58530	64134	0.010	9.6	15.0	
	(3)	39816	43888	0.010	10.2	15.0	
	(4)	46263	50458	0.010	9 1	15 0	
$	1 Tetrachloro-m-xylene	4228674	4629960	0.000	9.5	15.0	
$	30 Decachlorobiphenyl	1926234	2024200	0.010	5.1	15 0	

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7299.d
Report Date: 18-Oct-2000 14:10

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7299.d
Analysis Type:
Lab Sample ID: MEDCHLOR
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 18-OCT-2000 12:29
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
9 Chlordane(1)	133780	155176	0.010	16.0	15.0	<-
(2)	160528	178720	0.010	11.3	15.0	
(3)	430992	470256	0.010	9.1	15.0	
(4)	351532	389448	0.010	10.8	15.0	
$ 1 Tetrachloro-m-xylene	4228674	4593040	0.000	8.6	15.0	
$ 30 Decachlorobiphenyl	1926234	2023360	0.010	5.0	15.0	

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Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7300.d
Report Date: 18-Oct-2000 14:10

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7300.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 18-OCT-2000 12:57
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
$	1 Tetrachloro-m-xylene	4228674	4789080	0.000	13.3	15.0	
	5 alpha-BHC	5189102	6012880	0.010	15 9	15.0	<-
	6 gamma-BHC (Lindane)	4802764	5482160	0.010	14 1	15.0	
	10 Heptachlor	3544250	3918560	0.010	10.6	15.0	
	15 Endosulfan I	3572092	3930240	0.010	10.0	15.0	
	17 Dieldrin	3698984	4064240	0.010	9.9	15 0	
	20 Endrin	3024414	3207920	0 010	6 1	15 0	
	21 4,4'-DDD	2907118	2927760	0.010	0.7	15.0	
	23 4,4'-DDT	2754536	2752200	0.010	-0.1	15 0	
	25 Methoxychlor	1182283	1112120	0.010	-5.9	15.0	
$	30 Decachlorobiphenyl	1926234	2089880	0 010	8.5	15.0	

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7301.d
Report Date: 18-Oct-2000 14:11

STL - Pittsburgh

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7301.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 18-OCT-2000 13:24
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
11 Aldrin	3461370	3956840	0.010	14 3	15.0	
7 beta-BHC	2631970	2978520	0.010	13.2	15.0	
8 delta-BHC	4232094	4393080	0.010	3.8	15.0	
12 Heptachlor epoxide	3738808	4131200	0.010	10 5	15.0	
13 gamma-Chlordane	3857462	4240720	0.010	9.9	15.0	
14 alpha-Chlordane	3845634	4189520	0.010	8 9	15.0	
16 4,4'-DDE	3781798	4048960	0.010	7.1	15.0	
22 Endosulfan II	3251480	3387520	0.010	4.2	15.0	
24 Endrin aldehyde	2419560	2530720	0 010	4 6	15.0	
26 Endosulfan sulfate	2471146	2061880	0.010	-16.6	15.0	<-
27 Endrin ketone	2624536	2757520	0.010	5.1	15.0	

AVE=8.8 8.8
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Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7322.d
Report Date: 19-Oct-2000 13:18

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7322.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 18-OCT-2000 23:36
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$ 1 Tetrachloro-m-xylene	4228674	4789880	0.000	13.3	15.0
5 alpha-BHC	5189102	5901800	0.010	13.7	15.0
6 gamma-BHC (Lindane)	4802764	5435160	0 010	13.2	15.0
10 Heptachlor	3544250	3904320	0.010	10.2	15.0
15 Endosulfan I	3572092	3798440	0.010	6.3	15.0
17 Dieldrin	3698984	3989080	0 010	7.8	15 0
20 Endrin	3024414	3316040	0.010	9 6	15.0
21 4,4'-DDD	2907118	3073720	0 010	5.7	15.0
23 4,4'-DDT	2754536	2749840	0.010	-0.2	15.0
25 Methoxychlor	1182283	1206380	0.010	2.0	15.0
$ 30 Decachlorobiphenyl	1926234	2058160	0.010	6.8	15.0

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7323.d
Report Date: 19-Oct-2000 13:18

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-A7323.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m

Injection Date: 19-OCT-2000 00:03
Init. Cal. Date(s): 02-OCT-2000 02-OCT-2000
Init. Cal. Times: 14:07 19:13
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
11 Aldrin	3461370	3805960	0.010	10.0	15.0
7 beta-BHC	2631970	2931040	0.010	11.4	15.0
8 delta-BHC	4232094	4520160	0.010	6.8	15.0
12 Heptachlor epoxide	3738808	4014840	0.010	7.4	15.0
13 gamma-Chlordane	3857462	4131600	0 010	7.1	15.0
14 alpha-Chlordane	3845634	4088120	0.010	6.3	15.0
16 4,4'-DDE	3781798	4072440	0.010	7.7	15.0
22 Endosulfan II	3251480	3397720	0.010	4.5	15.0
24 Endrin aldehyde	2419560	2533680	0 010	4.7	15.0
26 Endosulfan sulfate	2471146	2363120	0 010	-4.4	15 0
27 Endrin ketone	2624536	2760880	0.010	5.2	15.0

673-1433

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 10/02/00 10/02/00

Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.23 DCB: 20.92

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	10/02/00	1339	5.26	21.01*
02		MEDTOX	10/02/00	1407	5.26	21.00*
03		MEDCHLOR	10/02/00	1435	5.26	21.00*
04		LOWA	10/02/00	1502	5.26	21.00*
05		MLOWA	10/02/00	1530	5.26	21.00*
06		MEDA	10/02/00	1558	5.27	21.00*
07		MHIGHA	10/02/00	1626	5.27	21.00*
08		HIGHA	10/02/00	1654	5.26	21.00*
09		LOWB	10/02/00	1722		
10		MLOWB	10/02/00	1749		
11		MEDB	10/02/00	1817		
12		MHIGHB	10/02/00	1845		
13		HIGHB	10/02/00	1913		
14		2ND A	10/02/00	1940	5.26	21.00*
15		2ND B	10/02/00	2008		
16		EVALB	10/02/00	2036	5.26	21.00*
17		EVALB	10/18/00	1133	5.23	20.92
18		MEDTOX	10/18/00	1201	5.23	20.92
19		MEDCHLOR	10/18/00	1229	5.23	20.92
20		MEDA	10/18/00	1257	5.23	20.92
21		MEDB	10/18/00	1324		
22	DF/S1/0287/T	DM6501AE	10/18/00	1734	5.23	20.91
23	DF/S1/0287/T	DM6501CE	10/18/00	1802	5.22	20.91
24	DF/S1/0287/T	DM6501CF	10/18/00	1830	5.22	20.91
25	PBLK	DM8PW1AA	10/18/00	1858	5.22	20.92
26	LCS	DM8PW1AC	10/18/00	1926	5.22	20.92
27		MEDA	10/18/00	2336	5.22	20.91
28		MEDB	10/19/00	0003		
29		EVALB	10/19/00	0031	5.22	20.91
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.

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7020-G.SEQ
Created by : DE11/02/98 on : 10/3/00 13:13
Edited by : LM10/02/00 on : 10/4/00 13:32
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

673 1434

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7020G.PDF

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 153
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm factor
1	Std Check	EVALB,7020-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,7020-G b	190-98-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWA,7020-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal.Replace	MLOWA,7020-G b,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal Replace	MHIGHA,7020-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal Replace	HIGHA,7020-G.b,	190-100-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal Replace	LOWB,7020-G.b,,	190-100-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB,7020-G.b,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB,7020-G b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal Replace	HIGHB,7020-G.b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A,7020-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,7020-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,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DL2Q2104,7020-G	260208-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DL2RC104,7020-G	260208-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DL2RF104,7020-G	260208-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DL2RG104,7020-G	260208-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DL2RK104,7020-G	260208-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DL2RM104,7020-G	260208-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DL2RN108,7020-G	260208-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DL2RN109,7020-G	260208-7S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DL2RN10A,7020-G	260208-7D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DL2RP104,7020-G	260208-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DL2RC104,7020-G	260208-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	~~DL41Q104,7020-G~~	~~270130-1~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DL429104,7020-G	270130-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DL42C104,7020-G	270130-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	~~DL42F104,7020-G~~	~~270130-4~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DL42K108,7020-G	270130-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DL42M104,7020-G	270130-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DL1MH103,7020-G	260101001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DL85E101,7020-G	260208BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DL85E102,7020-G	260208LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA,7020-G b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB,7020-G b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DL1ML107,7020-G	260101002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DL1ML108,7020-G	260101002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DL1ML109,7020-G	260101002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DL1MM103,7020-G	260101003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DL1MP103,7020-G	260101004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DL1MQ103,7020-G	260101005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DL3MM103,7020-G	270101001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DL3MN103,7020-G	270101002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DL3MP103,7020-G	270101003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DL3MQ103,7020-G	270101004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DL3MR103,7020-G	270101005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DL3MT103,7020-G	270101006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DL59K103,7020-G	270264001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DL66Q103,7020-G	280101001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DL66X103,7020-G	280101002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DL670103,7020-G	280101003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DL671103,7020-G	280101004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DL672103,7020-G	280101005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DLC4M101,7020-G	260101BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DLC4M102,7020-G	260101LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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60	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DL673103,7020-G	280201006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DL4_Q104;7020-G	270130-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DL42F104,7020-G	270130-4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DL45K104,7020-G	270146001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	DL46E104,7020-G	270146002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DL46G104,7020-G	270146003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Sample	DL46J104,7020-G	270146004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DL46J109,7020-G	2701460045	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
71	Sample	DL46J10A,7020-G	270146004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
72	Sample	DL46W104,7020-G	270146005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Sample	DL474104,7020-G	270146006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Sample	DL47E104,7020-G	270146007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
75	Sample	DL47G104,7020-G	270146008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
76	Sample	DL47J104,7020-G	270146009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	DL47L104,7020-G	270146010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
78	Sample	DL47Q104,7020-G	270146011	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
79	Sample	DL47T104,7020-G	270146012	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	DL788104,7020-G	280200001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DLC2F101,7020-G	270146BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DLC2F102,7020-G	270146LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	DL79N104,7020-G	280200002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Sample	DL79Q104,7020-G	280200003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
88	Sample	DL7A2104,7020-G	280200004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Sample	DL7A6104,7020-G	280200005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Sample	DL7A9104,7020-G	280200006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91	Sample	DL7AD104,7020-G	280200007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
92	Sample	DL7AT104,7020-G	280200008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
93	Sample	DKWE0114,7020-G	220289001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
94	Sample	DKWE011A,7020-G	220289001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
95	Sample	DKWE011C,7020-G	220289001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
96	Sample	DKWE6114,7020-G	220289002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Sample	DKRKG10N,7020-G	210229001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
98	Sample	DL1HM101,7020-G	220289BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DL1HM102,7020-G	220289LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DKRKG102,7020-G	210229001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
101	Sample	DKRKG11M,7020-G	210229001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
102	Sample	DKRKG11N,7020-G	210229001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	D4VTQ102,7020-G	220233001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
104	Sample	DLGN9101,7020-G	210229BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
105	Sample	DLGN9102,7020-G	210229LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
106	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DL6LV104,7020-G	280138-1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
110	Sample	DL6M0104,7020-G	280138-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
111	Sample	DL7XC105,7020-G	280265001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
112	Sample	DL9GT105,7020-G	290146001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
113	Sample	DLCQF104,7020-G	300132001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
114	Sample	DLCQH104,7020-G	300132002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	Sample	DLCQJ10A,7020-G	300132003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
116	Sample	DLCQJ10C,7020-G	300132003S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
117	Sample	DLCQJ10D,7020-G	300132003D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
118	Sample	DLCQK104,7020-G	300132004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
119	Sample	DLCQM104,7020-G	300132005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Sample	DLCQN104,7020-G	300132006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	DLCQP104,7020-G	300132007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DLCQQ104,7020-G	300132008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
123	Sample	DLCQT104,7020-G	300132010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DLGN4101,7020-G	300132BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DLGN4102,7020-G	300132LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
126	Sample	DLDDE101,7020-G	280206BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
127	Sample	DLDDE102,7020-G	280206LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
128	Sample	DLDDE103,7020-G	280206LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
129	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Std Check	EVALB,7020-G b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DL79W103,7020-G	280206001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
133	Sample	DL7A3103,7020-G	280206002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
134	Sample	DL7E0103,7020-G	280219001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
135	Sample	DL7E8103,7020-G	280219002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
136	Sample	DL7E9103,7020-G	280219003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
137	Sample	DL7EC103,7020-G	280219004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
138	Sample	DLA4K104,7020-G	290257001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
139	Sample	DLA4W104,7020-G	290257002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
140	Sample	DLA51104,7020-G	290257003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
141	Sample	DLA54104,7020-G	290257004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
142	Sample	DLA56104,7020-G	290257005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
143	Sample	DLA5C104,7020-G	290257006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
144	Sample	DL8XK101,7020-G	290138001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
145	Sample	DLEHE101,7020-G	290138BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
146	Sample	DLEHE102,7020-G	290138LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

148	Sample	DKWED102,7020-G	220289004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
149	Sample	DL1KX101,7020-G	220289BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
150	Sample	DL1KX102,7020-G	220289LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
151	Sample	DL1KX103,7020-G	220289LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
152	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
153	Std Check	MEDB,7020-G b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7011	D-A7011		D-A7011	-	-	-	LPT1,
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7012	D-A7012		D-A7012	N	MED	N	LPT1 ,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7013	D-A7013		D-A7013	N	MED	N	LPT1.,LP
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A7014	D-A7014		D-A7014	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A7015	D-A7015		D-A7015	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7016	D-A7016		D-A7016	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A7017	D-A7017		D-A7017	N	MLOW	N	LPT1
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A7018	D-A7018		D-A7018	N	MLOW	N	LPT1
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A7019	D-A7019		D-A7019	N	LOW	N	LPT1
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A7020	D-A7020		D-A7020	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7021	D-A7021		D-A7021	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A7022	D-A7022		D-A7022	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A7023	D-A7023		D-A7023	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A7024	D-A7024		D-A7024	-	-	-	LPT1
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A7025	D-A7025		D-A7025	-	-	-	LPT1,
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7026	D-A7026		D-A7026	-	-	-	LPT1:
17	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7027	D-A7027		D-A7027	-	-	-	LPT1:,LP
18	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7028	D-A7028		D-A7028	-	-	-	LPT1:,LP
19	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7029	D-A7029		D-A7029	-	-	-	LPT1.,LP
20	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7030	D-A7030		D-A7030	-	-	-	LPT1.,LP
21	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7031	D-A7031		D-A7031	-	-	-	LPT1:,LP
22	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7032	D-A7032		D-A7032	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7033	D-A7033		D-A7033	-	-	-	LPT1:,LP
24	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7034	D-A7034		D-A7034	-	-	-	LPT1:,LP
25	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7035	D-A7035		D-A7035	-	-	-	LPT1:,LP
26	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7036	D-A7036		D-A7036	-	-	-	LPT1:,LP
27	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7037	D-A7037		D-A7037	-	-	-	LPT1.,LP
28	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7038	D-A7038		D-A7038	-	-	-	LPT1:,LP
29	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7039	D-A7039		D-A7039	-	-	-	LPT1:,LP
30	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7040	D-A7040		D-A7040	-	-	-	LPT1:,LP
31	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7041	D-A7041		D-A7041	-	-	-	LPT1:,LP
32	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7042	D-A7042		D-A7042	-	-	-	LPT1 ,LP
33	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7043	D-A7043		D-A7043	-	-	-	LPT1 ,LP
34	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7044	D-A7044		D-A7044	-	-	-	LPT1:,LP
35	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7045	D-A7045		D-A7045	-	-	-	LPT1:,LP
36	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7046	D-A7046		D-A7046	-	-	-	LPT1 ,LP
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7047	D-A7047		D-A7047	-	-	-	LPT1
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7048	D-A7048		D-A7048	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7049	D-A7049		D-A7049	-	-	-	LPT1
40	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7050	D-A7050		D-A7050	-	-	-	LPT1 ,LP
41	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7051	D-A7051		D-A7051	-	-	-	LPT1 ,LP
42	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7052	D-A7052		D-A7052	-	-	-	LPT1 ,LP
43	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7053	D-A7053		D-A7053	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7054	D-A7054		D-A7054	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7055	D-A7055		D-A7055	-	-	-	LPT1:,LP
46	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7056	D-A7056		D-A7056	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7057	D-A7057		D-A7057	-	-	-	LPT1:,LP
48	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7058	D-A7058		D-A7058	-	-	-	LPT1 ,LP
49	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7059	D-A7059		D-A7059	-	-	-	LPT1:,LP
50	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7060	D-A7060		D-A7060	-	-	-	LPT1 ,LP
51	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7061	D-A7061		D-A7061	-	-	-	LPT1.,LP
52	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7062	D-A7062		D-A7062	-	-	-	LPT1.,LP
53	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7063	D-A7063		D-A7063	-	-	-	LPT1:,LP
54	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7064	D-A7064		D-A7064	-	-	-	LPT1 ,LP
55	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7065	D-A7065		D-A7065	-	-	-	LPT1:,LP
56	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7066	D-A7066		D-A7066	-	-	-	LPT1:,LP
57	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7067	D-A7067		D-A7067	-	-	-	LPT1.,LP
58	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7068	D-A7068		D-A7068	-	-	-	LPT1:,LP
59	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7069	D-A7069		D-A7069	-	-	-	LPT1:,LP
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7070	D-A7070		D-A7070	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7071	D-A7071		D-A7071	-	-	-	LPT1.
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7072	D-A7072		D-A7072	-	-	-	LPT1
63	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7073	D-A7073		D-A7073	-	-	-	LPT1 ,LP
64	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7074	D-A7074		D-A7074	-	-	-	LPT1.,LP
65	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7075	D-A7075		D-A7075	-	-	-	LPT1:,LP
66	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7076	D-A7076		D-A7076	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7077	D-A7077		D-A7077	-	-	-	LPT1:,LP
68	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7078	D-A7078		D-A7078	-	-	-	LPT1 ,LP
69	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7079	D-A7079		D-A7079	-	-	-	LPT1.,LP
70	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7080	D-A7080		D-A7080	-	-	-	LPT1:,LP
71	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7081	D-A7081		D-A7081	-	-	-	LPT1:,LP
72	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7082	D-A7082		D-A7082	-	-	-	LPT1 ,LP
73	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7083	D-A7083		D-A7083	-	-	-	LPT1 ,LP

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[illegible]	-	[illegible]	2	GEN4C	GEN4A	122190A	TOX	D-A7084	D-A7084	D-A7084	-	-	-	LPT1 ,LP
75	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7085	D-A7085	D-A7085	-	-	-	LPT1.,LP
76	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7086	D-A7086	D-A7086	-	-	-	LPT1:,LP
77	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7087	D-A7087	D-A7087	-	-	-	LPT1:,LP
78	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7088	D-A7088	D-A7088	-	-	-	LPT1:,LP
79	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7089	D-A7089	D-A7089	-	-	-	LPT1:,LP
80	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7090	D-A7090	D-A7090	-	-	-	LPT1:,LP
81	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7091	D-A7091	D-A7091	-	-	-	LPT1:,LP
82	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7092	D-A7092	D-A7092	-	-	-	LPT1 ,LP
83	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7093	D-A7093	D-A7093	-	-	-	LPT1
84	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7094	D-A7094	D-A7094	-	-	-	LPT1
85	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7095	D-A7095	D-A7095	-	-	-	LPT1:
86	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7096	D-A7096	D-A7096	-	-	-	LPT1:,LP
87	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7097	D-A7097	D-A7097	-	-	-	LPT1:,LP
88	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7098	D-A7098	D-A7098	-	-	-	LPT1 ,LP
89	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7099	D-A7099	D-A7099	-	-	-	LPT1 ,LP
90	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7100	D-A7100	D-A7100	-	-	-	LPT1.,LP
91	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7101	D-A7101	D-A7101	-	-	-	LPT1.,LP
92	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7102	D-A7102	D-A7102	-	-	-	LPT1:,LP
93	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7103	D-A7103	D-A7103	-	-	-	LPT1:,LP
94	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7104	D-A7104	D-A7104	-	-	-	LPT1 ,LP
95	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7105	D-A7105	D-A7105	-	-	-	LPT1 ,LP
96	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7106	D-A7106	D-A7106	-	-	-	LPT1.,LP
97	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7107	D-A7107	D-A7107	-	-	-	LPT1:,LP
98	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7108	D-A7108	D-A7108	-	-	-	LPT1:,LP
99	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7109	D-A7109	D-A7109	-	-	-	LPT1:,LP
100	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7110	D-A7110	D-A7110	-	-	-	LPT1:,LP
101	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7111	D-A7111	D-A7111	-	-	-	LPT1 ,LP
102	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7112	D-A7112	D-A7112	-	-	-	LPT1.,LP
103	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7113	D-A7113	D-A7113	-	-	-	LPT1:,LP
104	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7114	D-A7114	D-A7114	-	-	-	LPT1:,LP
105	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7115	D-A7115	D-A7115	-	-	-	LPT1:,LP
106	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7116	D-A7116	D-A7116	-	-	-	LPT1.
107	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7117	D-A7117	D-A7117	-	-	-	LPT1.
108	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7118	D-A7118	D-A7118	-	-	-	LPT1:
109	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7119	D-A7119	D-A7119	-	-	-	LPT1:,LP
110	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7120	D-A7120	D-A7120	-	-	-	LPT1 ,LP
111	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7121	D-A7121	D-A7121	-	-	-	LPT1 ,LP
112	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7122	D-A7122	D-A7122	-	-	-	LPT1:,LP
113	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7123	D-A7123	D-A7123	-	-	-	LPT1:,LP
114	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7124	D-A7124	D-A7124	-	-	-	LPT1 ,LP
115	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7125	D-A7125	D-A7125	-	-	-	LPT1.,LP
116	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7126	D-A7126	D-A7126	-	-	-	LPT1 ,LP
117	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7127	D-A7127	D-A7127	-	-	-	LPT1:,LP
118	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7128	D-A7128	D-A7128	-	-	-	LPT1 ,LP
119	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7129	D-A7129	D-A7129	-	-	-	LPT1 ,LP
120	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7130	D-A7130	D-A7130	-	-	-	LPT1 ,LP
121	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7131	D-A7131	D-A7131	-	-	-	LPT1.,LP
122	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7132	D-A7132	D-A7132	-	-	-	LPT1:,LP
123	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7133	D-A7133	D-A7133	-	-	-	LPT1:,LP
124	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7134	D-A7134	D-A7134	-	-	-	LPT1:,LP
125	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7135	D-A7135	D-A7135	-	-	-	LPT1.,LP
126	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7136	D-A7136	D-A7136	-	-	-	LPT1.,LP
127	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7137	D-A7137	D-A7137	-	-	-	LPT1:,LP
128	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7138	D-A7138	D-A7138	-	-	-	LPT1:,LP
129	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7139	D-A7139	D-A7139	-	-	-	LPT1:
130	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7140	D-A7140	D-A7140	-	-	-	LPT1
131	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7141	D-A7141	D-A7141	-	-	-	LPT1
132	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7142	D-A7142	D-A7142	-	-	-	LPT1 ,LP
133	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7143	D-A7143	D-A7143	-	-	-	LPT1:,LP
134	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7144	D-A7144	D-A7144	-	-	-	LPT1:,LP
135	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7145	D-A7145	D-A7145	-	-	-	LPT1:,LP
136	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7146	D-A7146	D-A7146	-	-	-	LPT1:,LP
137	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7147	D-A7147	D-A7147	-	-	-	LPT1 ,LP
138	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7148	D-A7148	D-A7148	-	-	-	LPT1:,LP
139	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7149	D-A7149	D-A7149	-	-	-	LPT1:,LP
140	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7150	D-A7150	D-A7150	-	-	-	LPT1 ,LP
141	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7151	D-A7151	D-A7151	-	-	-	LPT1:,LP
142	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7152	D-A7152	D-A7152	-	-	-	LPT1:,LP
143	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7153	D-A7153	D-A7153	-	-	-	LPT1 ,LP
144	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7154	D-A7154	D-A7154	-	-	-	LPT1 ,LP
145	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7155	D-A7155	D-A7155	-	-	-	LPT1:,LP
146	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7156	D-A7156	D-A7156	-	-	-	LPT1:,LP
147	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7157	D-A7157	D-A7157	-	-	-	LPT1:,LP
148	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7158	D-A7158	D-A7158	-	-	-	LPT1:,LP
149	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7159	D-A7159	D-A7159	-	-	-	LPT1 ,LP
150	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7160	D-A7160	D-A7160	-	-	-	LPT1 ,LP
151	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7161	D-A7161	D-A7161	-	-	-	LPT1 ,LP
152	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7162	D-A7162	D-A7162	-	-	-	LPT1
153	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7163	D-A7163	D-A7163	-	-	-	LPT1:

673 1438

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7011.d
Lab Smp Id: EVALB
Inj Date : 02-OCT-2000 13:39
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5 260	5.266	-0.006	83836	0 01983	0 01982(R)
16 4,4'-DDE	14.120	14.113	0.007	975	<0 0	0 0002578
20 Endrin	14.826	14.826	0.000	75159	0.02485	0 02485
21 4,4'-DDD	14.980	14 980	0.000	4671	0.00161	0 001607
23 4,4 -DDT	15.453	15 453	0 000	69394	0 02519	0.02519
24 Endrin aldehyde	15 640	15.640	0.000	5098	0 00211	0.002107
27 Endrin ketone	17 480	17 480	0.000	3959	0 00151	0.001508
$ 30 Decachlorobiphenyl	21.006	21.000	0.006	38783	0.02013	0.02013(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

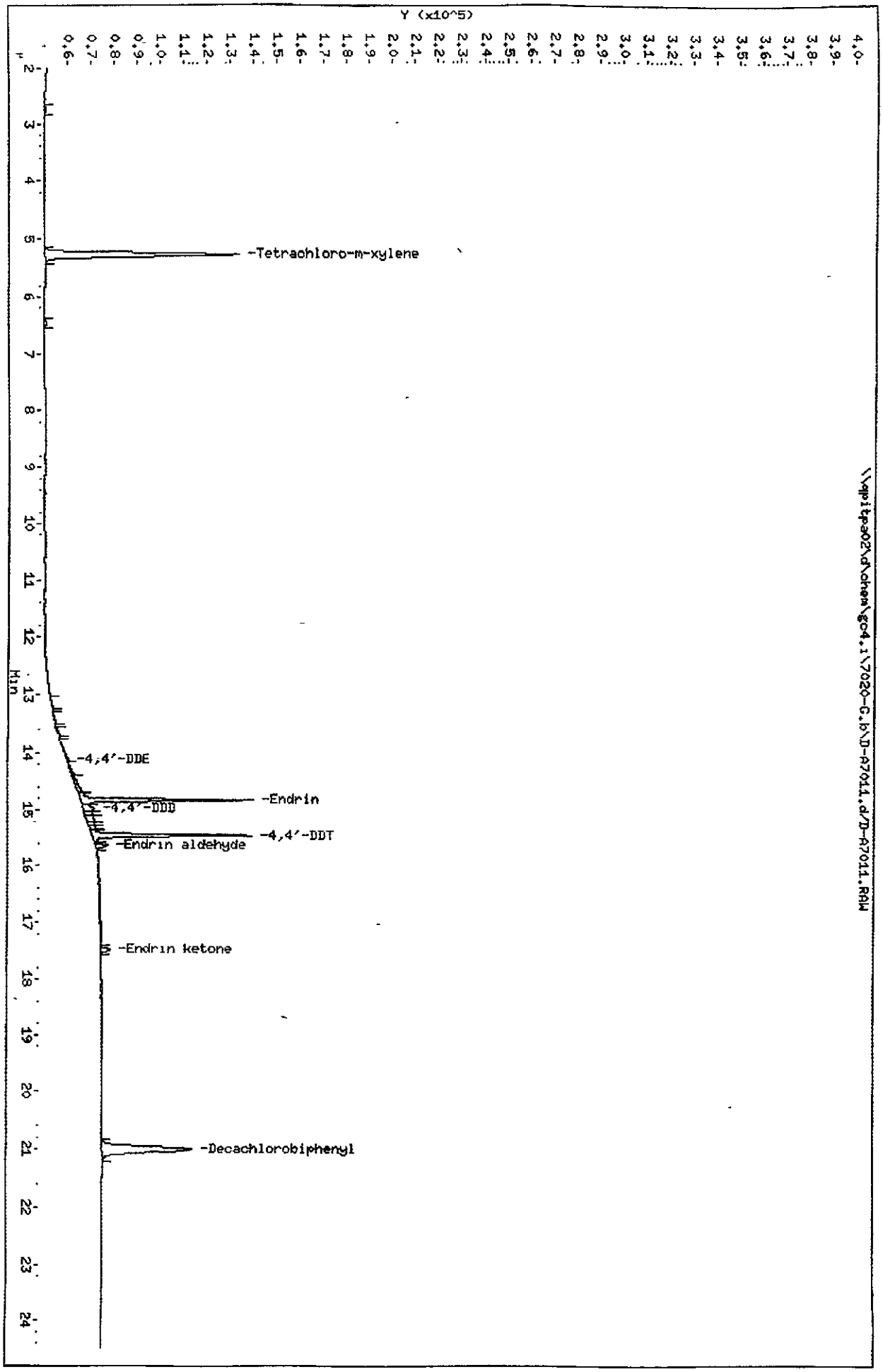
DDT = 7.5
Endrin = 10.8

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7011.d
Date : 02-OCT-2000 13:39
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Column phase: DB608

Operator: 1891
Column diameter: 0.53



673 1440

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7012.d
Lab Smp Id: MEDTOX
Inj Date : 02-OCT-2000 14:07
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,7020-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 14:07 Cal File: D-A7012.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Toxaphene	14 993	14 993	0.000	40687	1.00000	1.000
$ 1 Tetrachloro-m-xylene	5 260	5.266	-0.006	100620	0.02500	0 02500
$ 30 Decachlorobiphenyl	21 000	21 000	0.000	46948	0 02500	0 02500

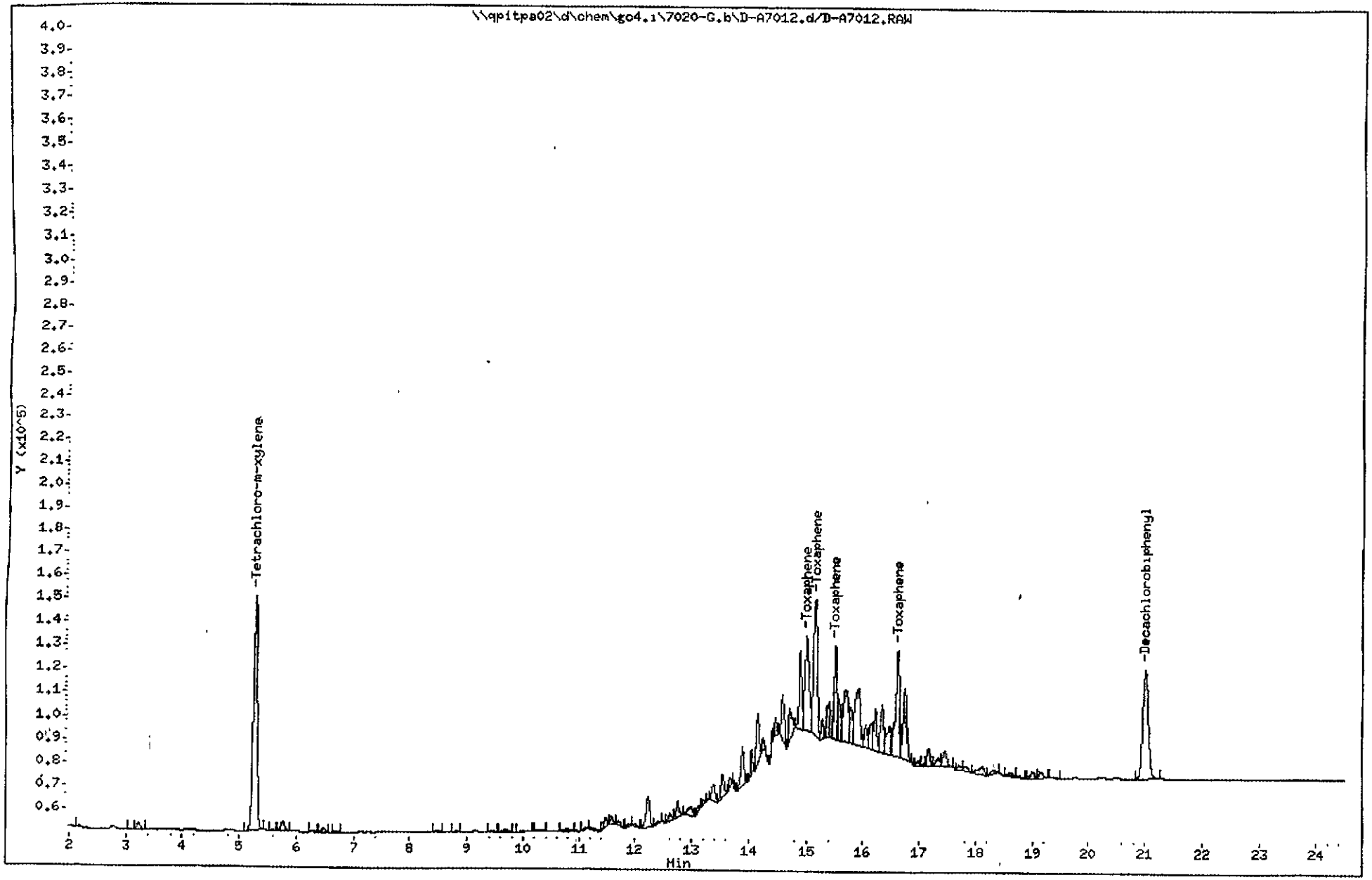
6731441

Data File: \\qpitpa02\d\chem\go4.1\7020-G.b\D-A7012.d
Date : 02-OCT-2000 14:07
Client ID:
Sample Info: MEDTOX,7020-G.b,,1-TOX.sub,,1,3

Instrument: go4.1

Operator: 1891
Column diameter: 0.53

Column phase: DB608



3107

STL Pittsburgh

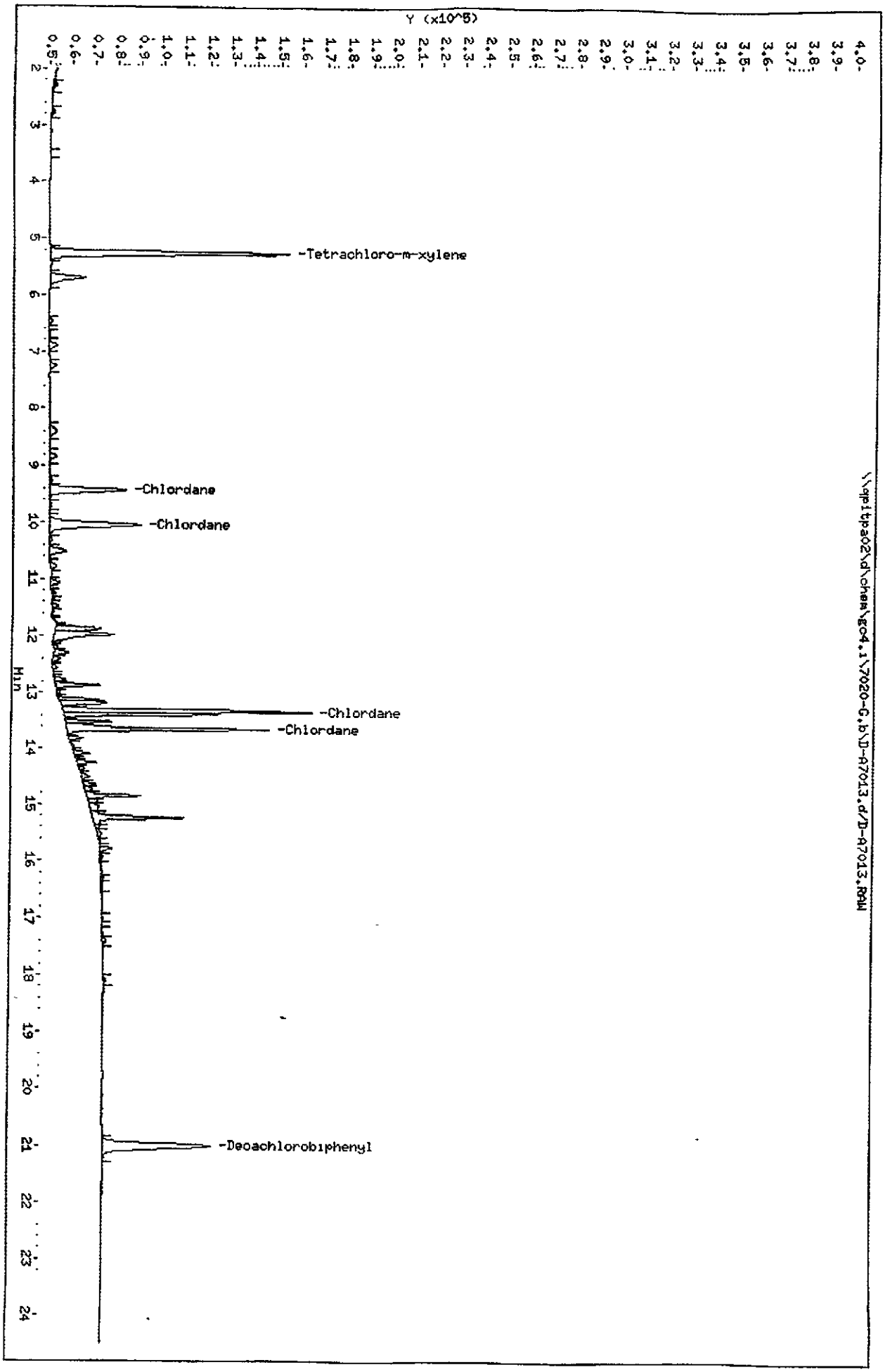
673 1442

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7013.d
Lab Smp Id: MEDCHLOR
Inj Date : 02-OCT-2000 14:35
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,7020-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-90-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 14:35 Cal File: D-A7013.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
9 Chlordane	9 433	9.433	0.000	33445	0.25000	0.2500
$ 1 Tetrachloro-m-xylene	5 260	5 266	-0.006	102569	0.02500	0 02500
$ 30 Decachlorobiphenyl	21.000	21.000	0.000	46912	0.02500	0.02500

6731443


Data File: \\qpitpa02\d\chem\gc4.i\7020-G,b\D-A7013,d
Date : 02-OCT-2000 14:35
Client ID:
Sample Info: MEDCHLOR,7020-G,b,,2-CHLD,sub,,1,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-Chlordane
-Chlordane
-Decachlorobiphenyl
\\qpitpa02\d\chem\gc4.i\7020-G,b\D-A7013.d\D-A7013.RAW

673 1444

STL - Pittsburgh

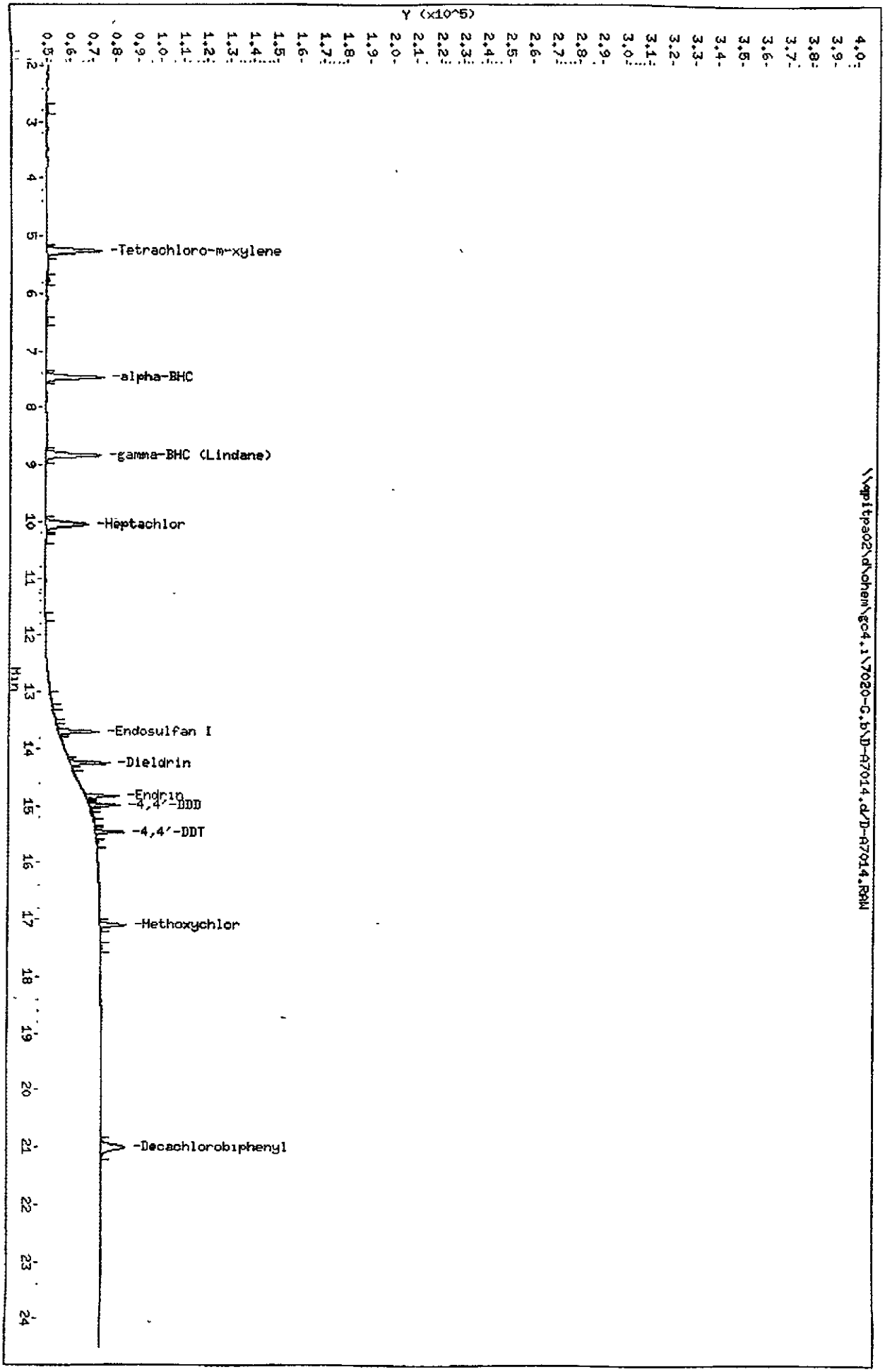
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7014.d
Lab Smp Id: LOWA
Inj Date : 02-OCT-2000 15:02
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWA,7020-G.b,,3-INDA.sub,,1,1
Misc Info : 190-100-6
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.260	5 266	-0.006	23981	0 00500	0 005382
5 alpha-BHC	7 466	7.466	0 000	25229	0 00500	0.004916
6 gamma-BHC (Lindane)	8.833	8 833	0 000	23983	0 00500	0.004997
10 Heptachlor	10.046	10 046	0.000	18298	0.00500	0.005135
15 Endosulfan I	13 686	13.693	-0.007	17671	0.00500	0.004994
17 Dieldrin	14.240	14 246	-0.006	17272	0.00500	0.004829
20 Endrin	14.820	14 826	-0 006	14082	0.00500	0 004861
21 4,4'-DDD	14.980	14.980	0.000	13822	0.00500	0 004898
23 4,4'-DDT	15 453	15.453	0.000	12574	0.00500	0 004791
25 Methoxychlor	17.093	17.093	0.000	11460	0.01000	0.009877
$ 30 Decachlorobiphenyl	21.000	21.000	0.000	10109	0 00500	0.005125

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7014.d
Date : 02-OCT-2000 15:02
Client ID:
Sample Info: LCWA,7020-G.b,3-INDA.sub,1,1

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

Column phase: DB608



673 1446

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7015.d
Lab Smp Id: MLOWA
Inj Date : 02-OCT-2000 15:30
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWA,7020-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5.260	5.266	-0 006	46890	0.01000	0 01034
5	alpha-BHC	7 466	7.466	0 000	52355	0 01000	0.01013
6	gamma-BHC (Lindane)	8.833	8.833	0 000	49526	0 01000	0.01021
10	Heptachlor	10 046	10 046	0.000	36835	0.01000	0.01022
15	Endosulfan I	13 693	13 693	0.000	36106	0.01000	0 01013
17	Dieldrin	14.240	14 246	-0.006	36081	0.01000	0.01006
20	Endrin	14.820	14 826	-0 006	29422	0.01000	0 01010
21	4,4'-DDD	14 980	14 980	0 000	28334	0.01000	0 01003
23	4,4'-DDT	15.453	15 453	0 000	26696	0.01000	0 01011
25	Methoxychlor	17 100	17 093	0 007	23932	0.02000	0.02041
$ 30	Decachlorobiphenyl	21.000	21 000	0 000	20479	0 01000	0 01025

6731447

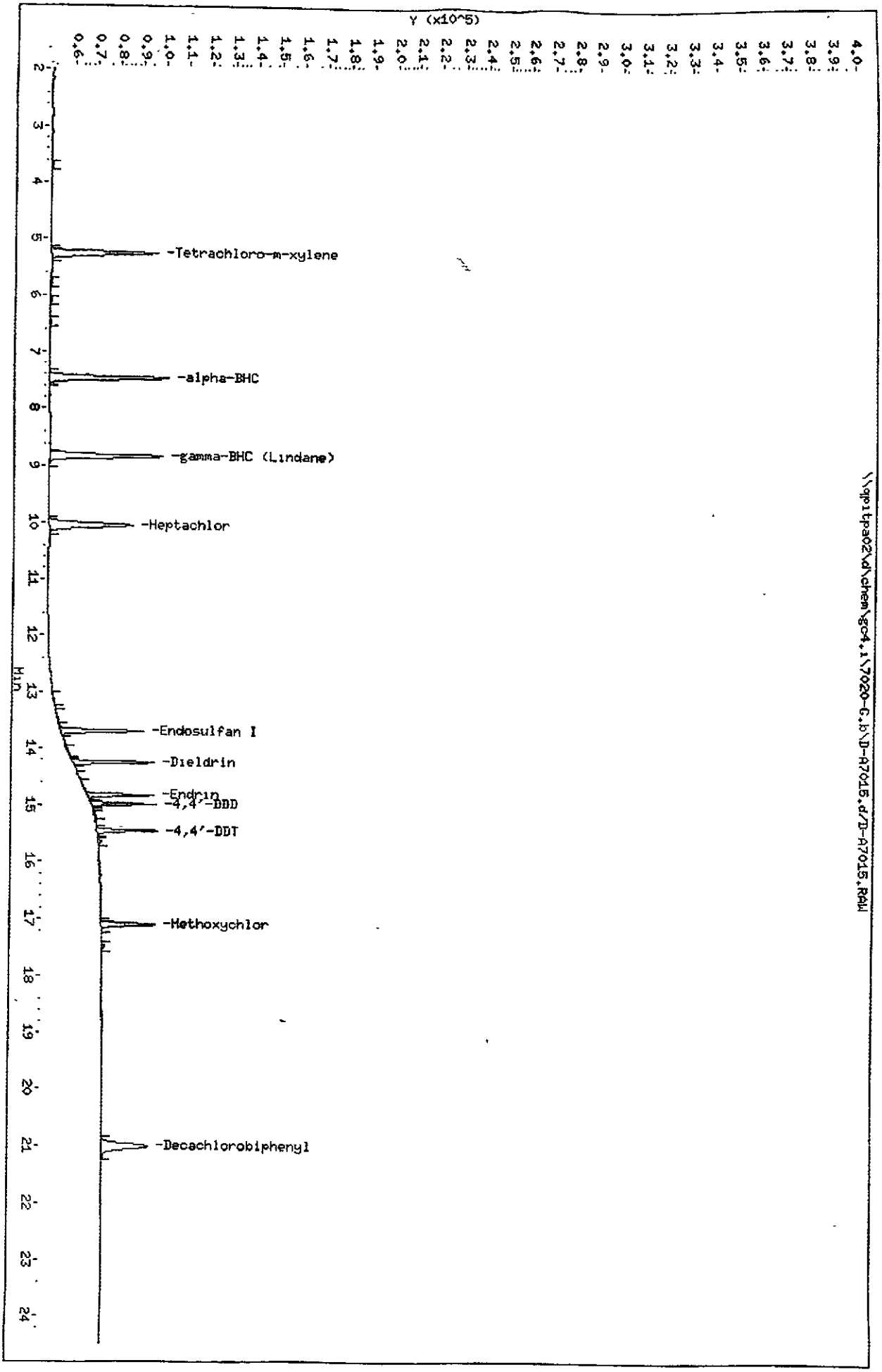
Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7015.d
Date : 02-OCT-2000 15:30
Client ID:
Sample Info: ML.DWA,7020-G.b,.3-INDA.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



673 1448

STL - Pittsburgh

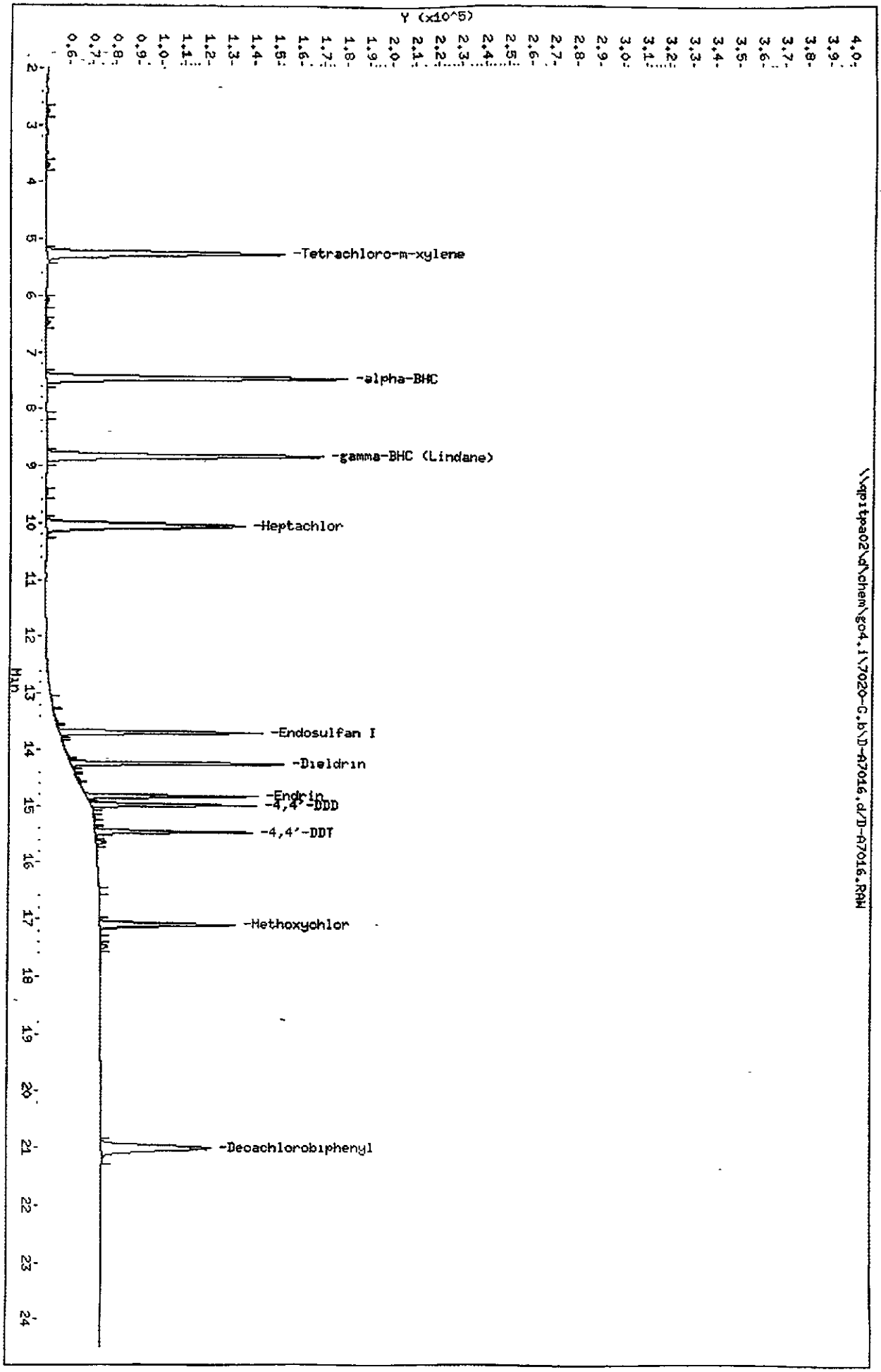
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7016.d
Lab Smp Id: MEDA
Inj Date : 02-OCT-2000 15:58
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 15:58 Cal File: D-A7016.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.266	5.266	0.000	102882	0.02500	0 02500
5 alpha-BHC	7.466	7 466	0 000	130465	0.02500	0.02500
6 gamma-BHC (Lindane)	8 833	8.833	0.000	120055	0 02500	0.02500
10 Heptachlor	10 046	10 046	0 000	86675	0 02500	0.02500
15 Endosulfan I	13.693	13 693	0.000	88573	0.02500	0 02500
17 Dieldrin	14 246	14.246	0 000	92478	0.02500	0 02500
20 Endrin	14 826	14.826	0 000	74432	0.02500	0 02500
21 4,4'-DDD	14.980	14.980	0.000	71986	0 02500	0.02500
23 4,4'-DDT	15.453	15.453	0 000	68350	0.02500	0.02500
25 Methoxychlor	17 093	17.093	0.000	58728	0 05000	0.05000
$ 30 Decachlorobiphenyl	21.000	21.000	0 000	48070	0 02500	0 02500

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7016.d
Date : 02-OCT-2000 15:58
Client ID:
Sample Info: MEDA,7020-G.b,J-INDA,sub,,1,3

Column phase: DB608

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



Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7017.d
Report Date: 03-Oct-2000 14:46

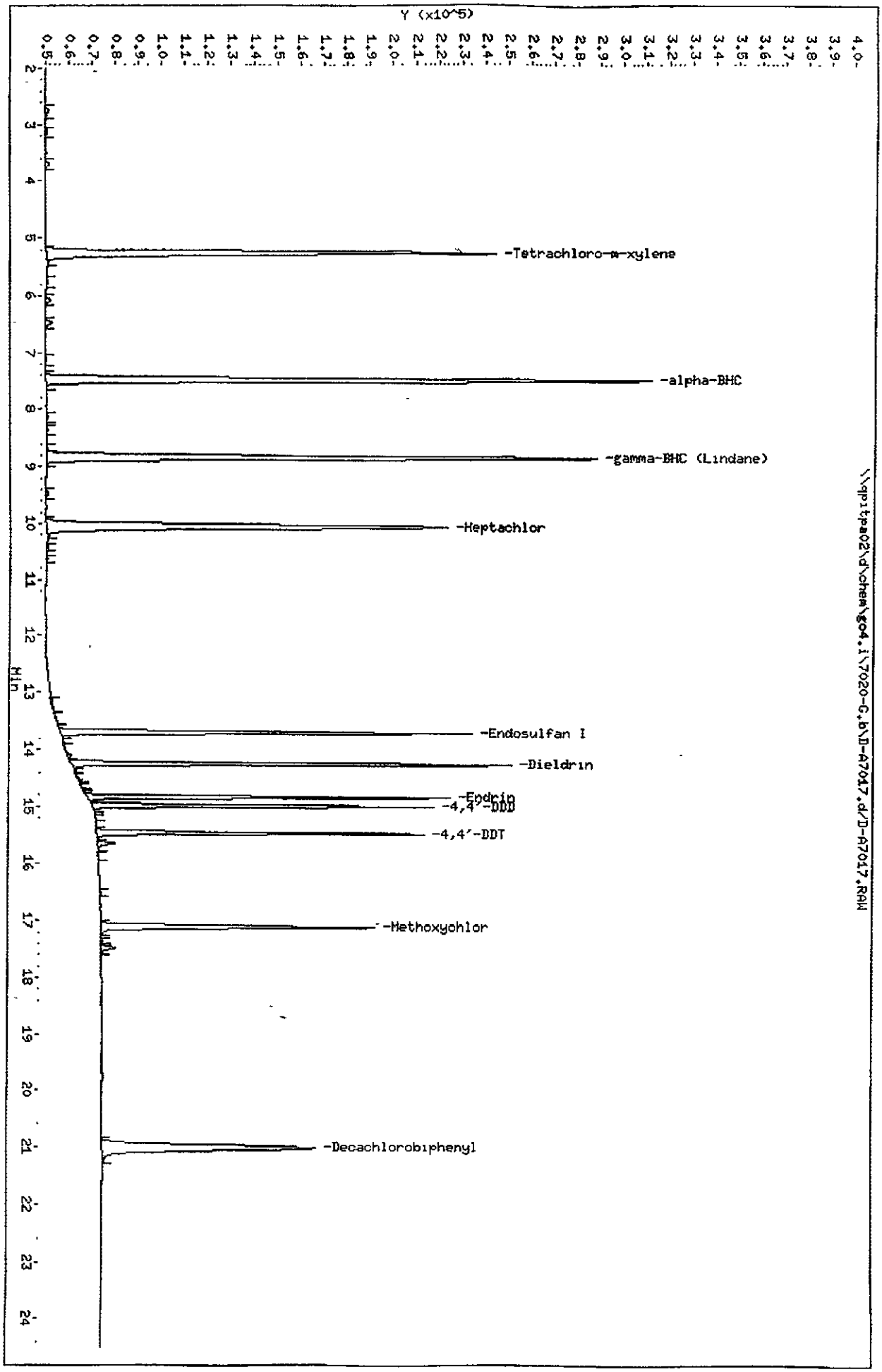
673 1450

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7017.d
Lab Smp Id: MHIGHA
Inj Date : 02-OCT-2000 16:26
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHA,7020-G.b,,3-INDA.sub,,1,4
Misc Info : 190-100-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5 266	5 266	0.000	194470	0 05000	0.04448
5 alpha-BHC	7 473	7 466	0.007	262501	0 05000	0 05060
6 gamma-BHC (Lindane)	8 833	8 833	0.000	238630	0 05000	0 04940
10 Heptachlor	10 046	10.046	0.000	173573	0.05000	0 04861
15 Endosulfan I	13.693	13.693	0 000	178967	0 05000	0 05018
17 Dieldrin	14.246	14.246	0 000	190716	0 05000	0.05234
20 Endrin	14.826	14 826	0.000	156928	0 05000	0.05286
21 4,4'-DDD	14 980	14.980	0.000	147825	0.05000	0.05172
23 4,4'-DDT	15 453	15.453	0.000	141909	0.05000	0 05277
25 Methoxychlor	17 100	17 093	0.007	118839	0 10000	0 1010
$ 30 Decachlorobiphenyl	21 000	21 000	0 000	92326	0 05000	0.04711

6731451


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7017.d
Date : 02-OCT-2000 16:26
Client ID:
Sample Info: HHIGHA,7020-G.b,,3-INDA,sub,,1,4
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7017.d/D-A7017.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

673 1452

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7018.d
Lab Smp Id: HIGHA
Inj Date : 02-OCT-2000 16:54
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHA,7020-G.b,,3-INDA.sub,,1,5
Misc Info : 190-100-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.260	5 266	-0.006	365349	0.10000	0 08640
5 alpha-BHC	7.466	7.466	0 000	519559	0.10000	0 1001(A)
6 gamma-BHC (Lindane)	8.833	8.833	0.000	468982	0 10000	0 09765
10 Heptachlor	10 046	10 046	0.000	343969	0.10000	0 09705
15 Endosulfan I	13.693	13.693	0.000	359340	0.10000	0 1006(A)
17 Dieldrin	14.246	14 246	0.000	391898	0 10000	0 1059(A)
20 Endrin	14.826	14 826	0 000	324763	0 10000	0 1074(A)
21 4,4'-DDD	14.980	14.980	0 000	310185	0.10000	0 1067(A)
23 4,4'-DDT	15.453	15.453	0 000	301610	0 10000	0.1095(A)
25 Methoxychlor	17 100	17.093	0.007	241173	0.20000	0.2040(A)
$ 30 Decachlorobiphenyl	21.000	21.000	0 000	179215	0.10000	0 09304

QC Flag Legend

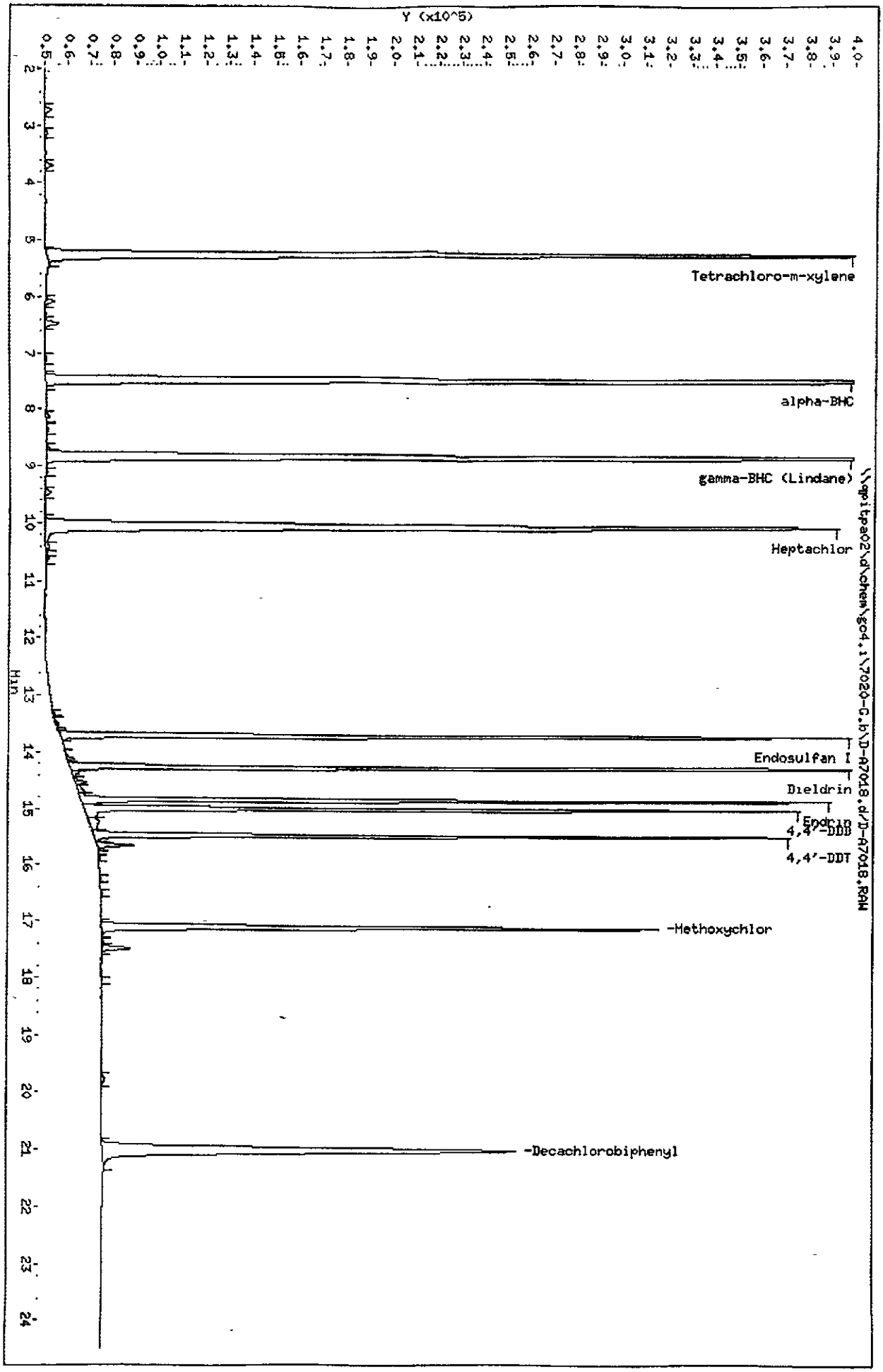
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7018.d
Date : 02-OCT-2000 16:54
Client ID:
Sample Info: HIGHA,7020-G.b,3-INDA,sub,1,5

Column phase: DB608

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53



673 1454

STL - Pittsburgh

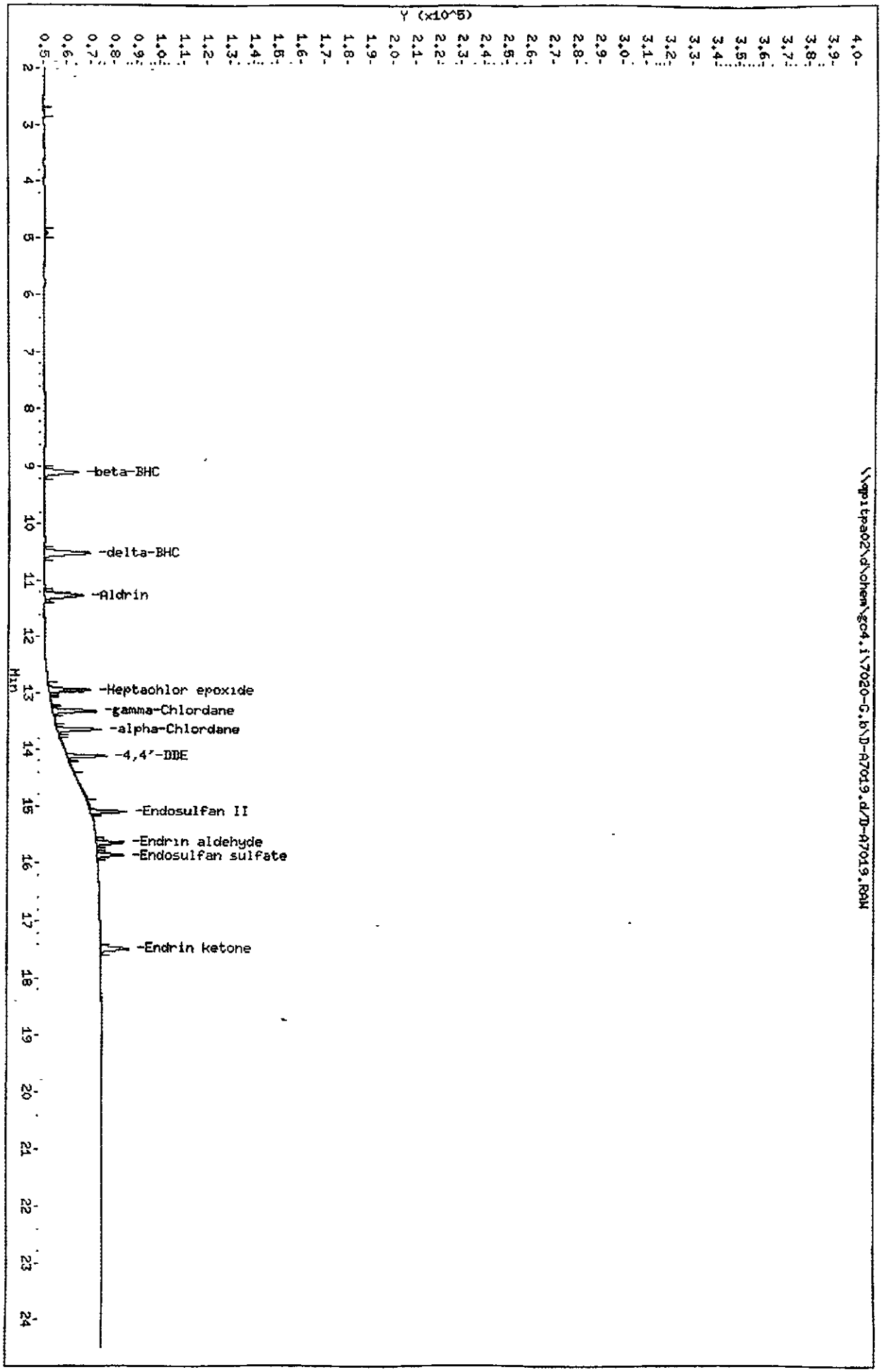
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7019.d
Lab Smp Id: LOWB
Inj Date : 02-OCT-2000 17:22
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWB,7020-G.b,,4-INDB.sub,,1,1
Misc Info : 190-100-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	16785	0.00500	0.004998
7 beta-BHC	9.106	9.106	0 000	14454	0 00500	0 005304
8 delta-BHC	10.520	10.526	-0 006	19573	0 00500	0 004840
12 Heptachlor epoxide	12 946	12.940	0 006	18127	0 00500	0.004989
13 gamma-Chlordane	13 313	13 313	0 000	18630	0 00500	0 004962
14 alpha-Chlordane	13 640	13 640	0.000	18917	0.00500	0 004997
16 4,4'-DDE	14.113	14.113	0 000	17344	0 00500	0 004819
22 Endosulfan II	15.106	15.106	0.000	15507	0 00500	0 004981
24 Endrin aldehyde	15.640	15.640	0 000	11846	0.00500	0 005007
26 Endosulfan sulfate	15 860	15.860	0 000	11406	0.00500	0 004842
27 Endrin ketone	17.480	17.480	0.000	12147	0 00500	0.004835

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7019.d
Date : 02-OCT-2000 17:22
Client ID:
Sample Info: LOWB,7020-G.b,,4-INDB.sub,,1.1

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

Column phase: DB608



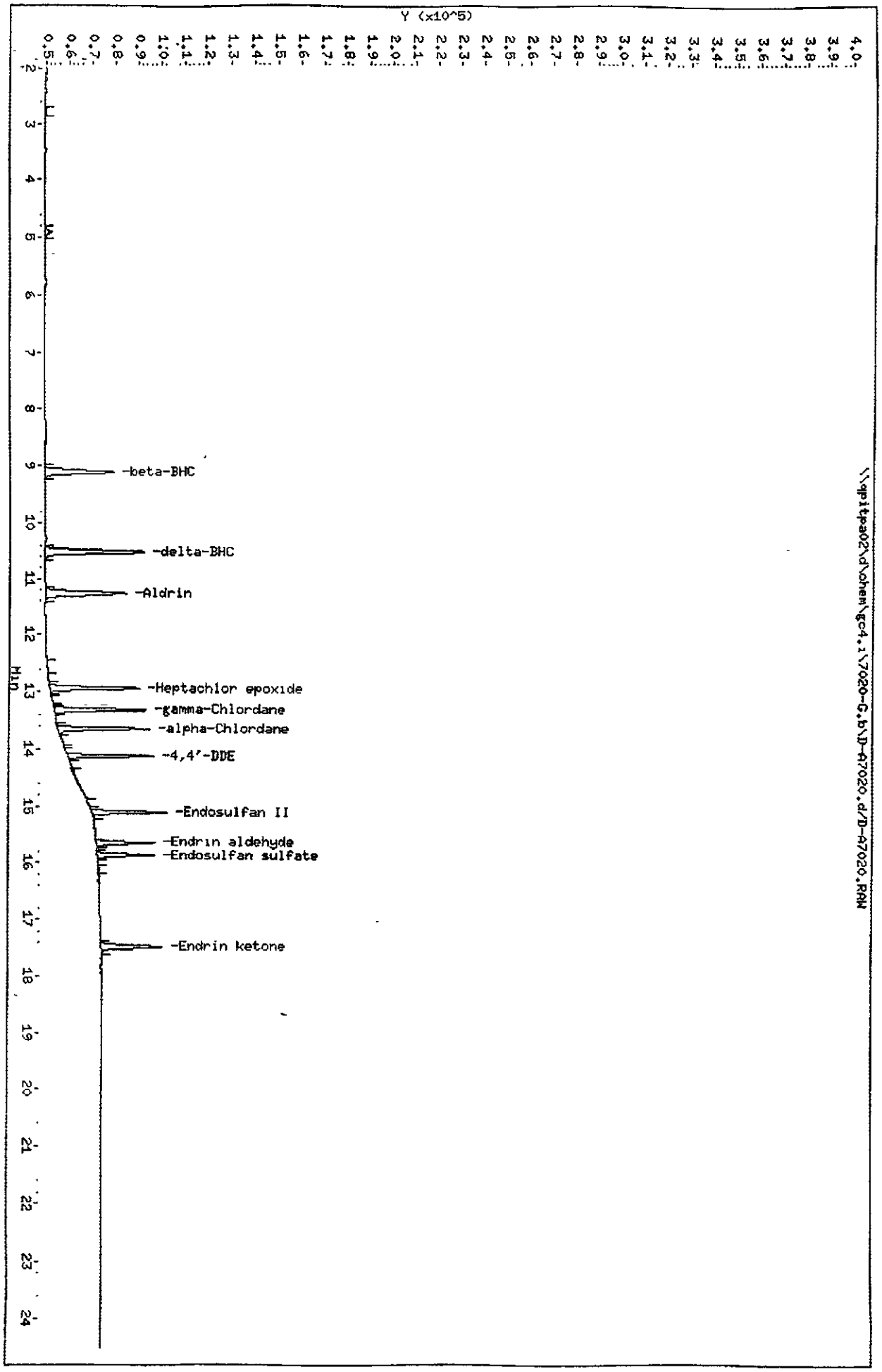
673 1456

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7020.d
Lab Smp Id: MLOWB
Inj Date : 02-OCT-2000 17:49
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWB,7020-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	35409	0 01000	0.01036
7 beta-BHC	9 106	9 106	0.000	29558	0.01000	0.01055
8 delta-BHC	10 520	10 526	-0 006	43489	0.01000	0.01049
12 Heptachlor epoxide	12 940	12.940	0 000	38921	0 01000	0.01046
13 gamma-Chlordane	13 313	13.313	0 000	40284	0.01000	0.01048
14 alpha-Chlordane	13.640	13 640	0 000	40273	0 01000	0 01042
16 4,4'-DDE	14 113	14.113	0 000	37686	0.01000	0 01031
22 Endosulfan II	15 106	15 106	0.000	33128	0.01000	0.01042
24 Endrin aldehyde	15 640	15.640	0.000	25258	0.01000	0 01044
26 Endosulfan sulfate	15 860	15.860	0.000	24821	0 01000	0.01035
27 Endrin ketone	17.480	17.480	0.000	27012	0 01000	0.01049

6731457


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7020.d
Date : 02-OCT-2000 17:49
Client ID:
Sample Info: MLOWB,7020-G.b,,4-INDB.sub,,1,2
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7020.d\D-A7020.RAW
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

673 1458

STL - Pittsburgh

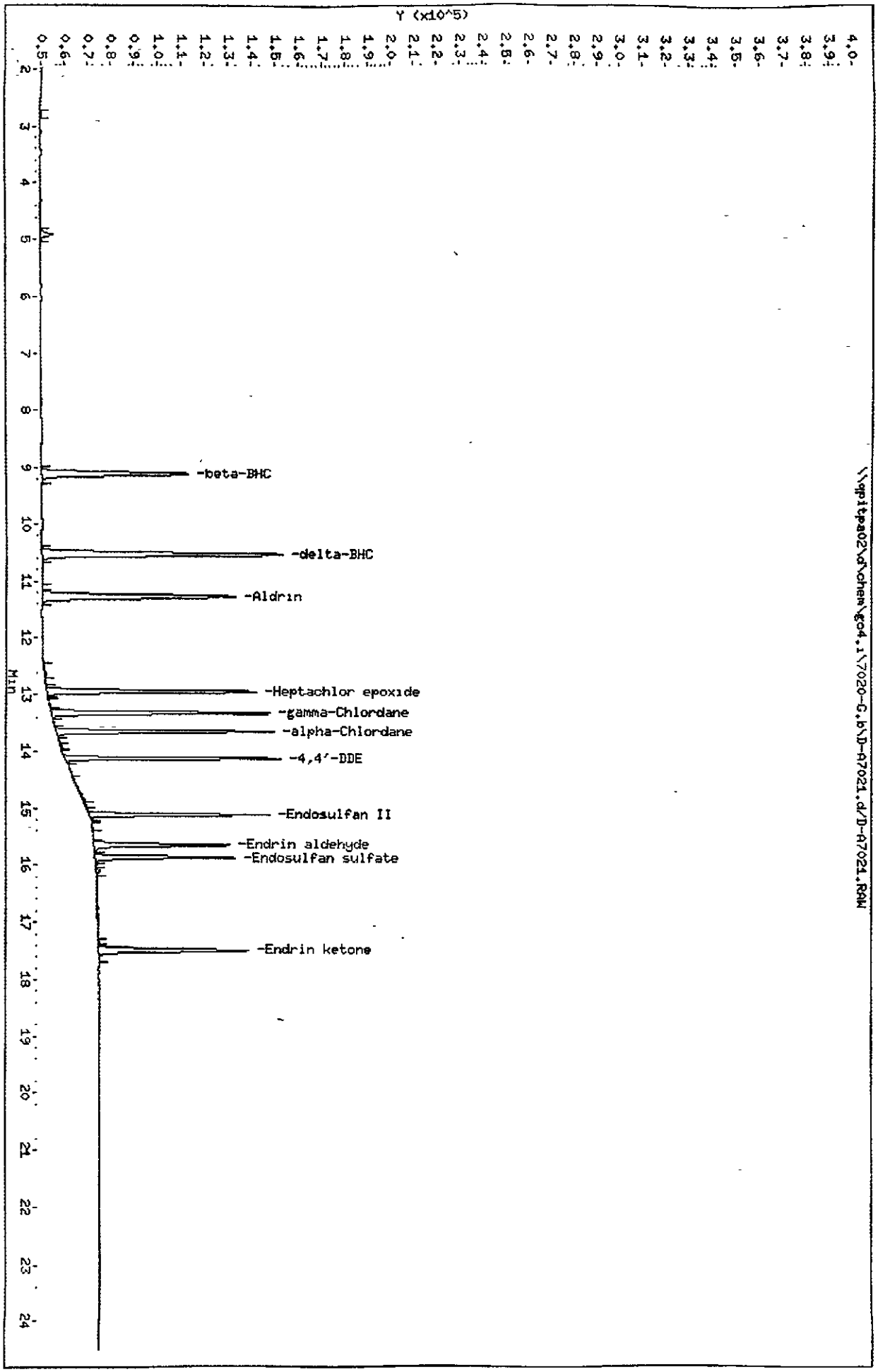
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7021.d
Lab Smp Id: MEDB
Inj Date : 02-OCT-2000 18:17
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:17 Cal File: D-A7021.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	83976	0.02500	0.02500
7 beta-BHC	9.106	9.106	0.000	63977	0.02500	0.02500
8 delta-BHC	10.526	10.526	0.000	104335	0.02500	0.02500
12 Heptachlor epoxide	12.940	12.940	0.000	91018	0.02500	0.02500
13 gamma-Chlordane	13.313	13.313	0.000	94567	0.02500	0.02500
14 alpha-Chlordane	13.640	13.640	0.000	94683	0.02500	0.02500
16 4,4' DDE	14.113	14.113	0.000	93229	0.02500	0.02500
22 Endosulfan II	15.106	15.106	0.000	78114	0.02500	0.02500
24 Endrin aldehyde	15.640	15.640	0.000	59053	0.02500	0.02500
26 Endosulfan sulfate	15.860	15.860	0.000	60757	0.02500	0.02500
27 Endrin ketone	17.480	17.480	0.000	64877	0.02500	0.02500

Data File: \\wpitpa02\d\chem\gc4.i\7020-G.b\D-A7021.d
Date : 02-OCT-2000 18:17
Client ID:
Sample Info: MEDB,7020-G.b,,4-INDB.sub,,1,3

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

Column phase: DB608



673 1460

STL - Pittsburgh

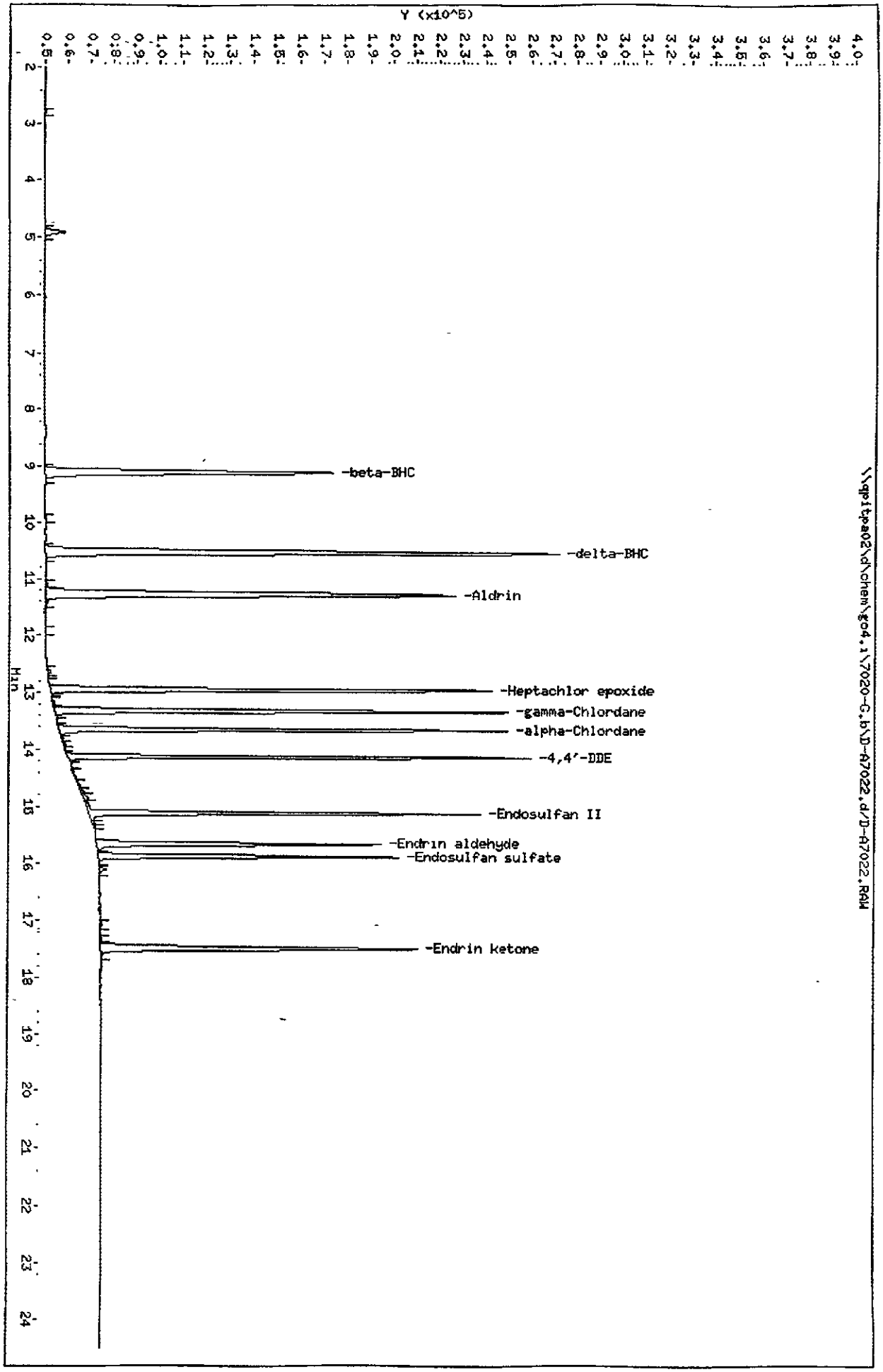
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7022.d
Lab Smp Id: MHIGHB
Inj Date : 02-OCT-2000 18:45
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHB,7020-G.b,,4-INDB.sub,,1,4
Misc Info : 190-101-1
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 18:45 Cal File: D-A7022.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11 266	11 266	0.000	177801	0.05000	0.05149
7 beta-BHC	9.106	9.106	0 000	124512	0 05000	0.04571
8 delta-BHC	10.520	10.526	-0.006	222108	0 05000	0.05264
12 Heptachlor epoxide	12.940	12.940	0 000	191100	0 05000	0.05103
13 gamma-Chlordane	13 313	13.313	0 000	196198	0.05000	0 05076
14 alpha-Chlordane	13.640	13 640	0 000	194164	0.05000	0 05017
16 4,4'-DDE	14.113	14 113	0 000	200298	0.05000	0 05351
22 Endosulfan II	15.106	15 106	0 000	169148	0 05000	0.05236
24 Endrin aldehyde	15.640	15 640	0 000	122692	0.05000	0 05054
26 Endosulfan sulfate	15 860	15 860	0 000	129755	0 05000	0.05302
27 Endrin ketone	17.480	17 480	0 000	136384	0.05000	0 05219

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7022.d
Date : 02-OCT-2000 18:45
Client ID:
Sample Info: MHIGHB,7020-G.b,,4-INDB.sub,,1,4

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

Column phase: DB608



673 1462

STL - Pittsburgh

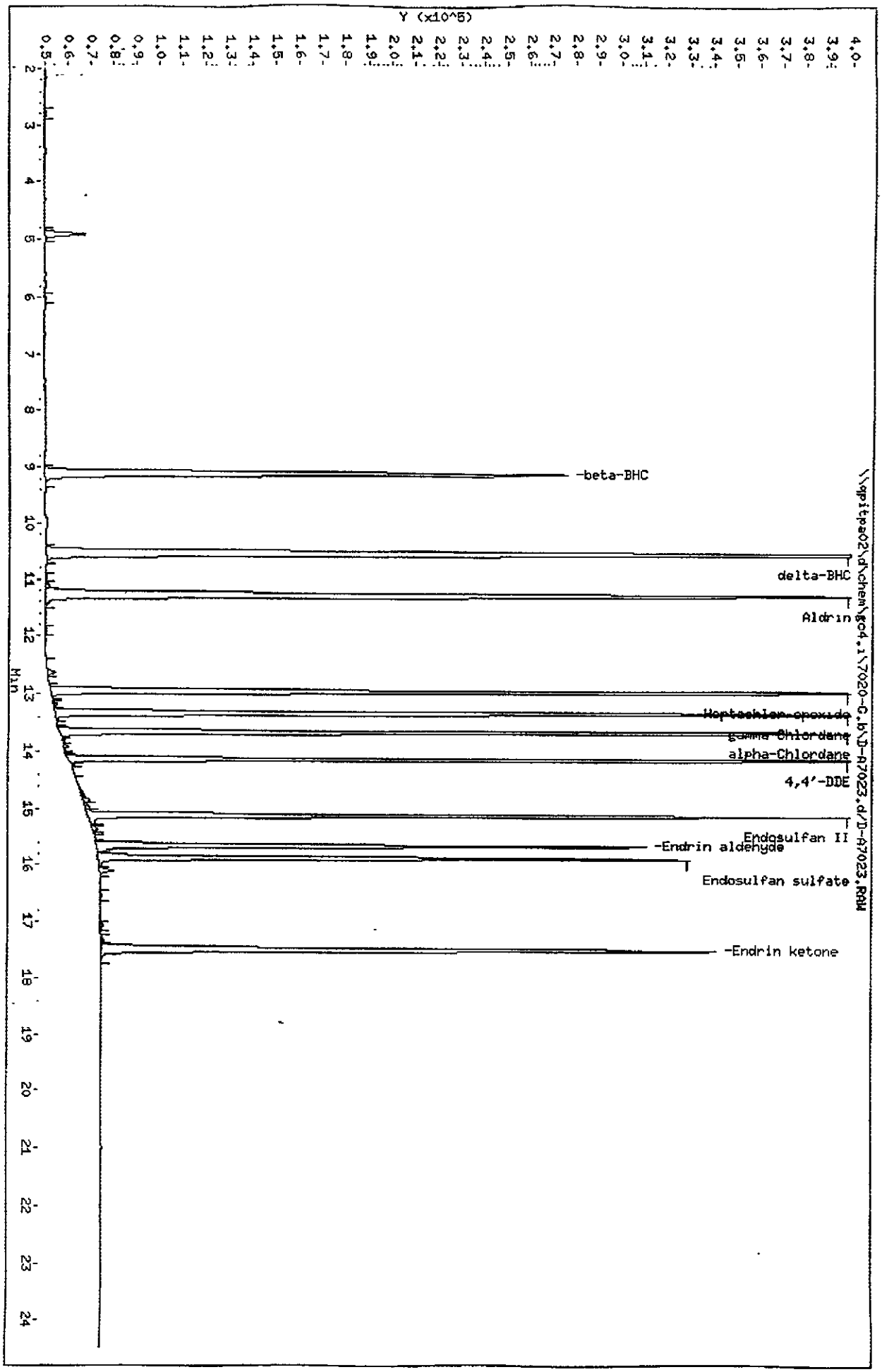
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7023.d
Lab Smp Id: HIGHB
Inj Date : 02-OCT-2000 19:13
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHB,7020-G.b,,4-INDB.sub,,1,5
Misc Info : 190-101-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	349389	0 10000	0 1009(A)
7 beta-BHC	9 106	9 106	0.000	226393	0.10000	0 08602
8 delta-BHC	10 520	10 526	-0.006	428141	0.10000	0 1012(A)
12 Heptachlor epoxide	12.940	12 940	0.000	371382	0 10000	0 09933
13 gamma-Chlordane	13.313	13.313	0 000	382627	0 10000	0 09919
14 alpha-Chlordane	13 640	13 640	0 000	374687	0.10000	0 09743
16 4,4'-DDE	14 113	14.113	0.000	393647	0 10000	0.1041(A)
22 Endosulfan II	15 100	15 106	-0.006	333568	0.10000	0 1026(A)
24 Endrin aldehyde	15 640	15 640	0.000	238684	0.10000	0 09865
26 Endosulfan sulfate	15.860	15 860	0.000	256705	0.10000	0 1039(A)
27 Endrin ketone	17 480	17 480	0.000	266932	0 10000	0.1017(A)

QC Flag Legend

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

6731463


Data File: \\gpitpa02\d\chem\gc4.i\7020-G.b\D-A7023.d
Date : 02-OCT-2000 19:13
Client ID:
Sample Info: HIGHB,7020-G.b,,4-INDB,sub,,1.5
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
-beta-BHC
delta-BHC
Aldrin
Heptachlor epoxide
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan II
-Endrin aldehyde
Endosulfan sulfate
-Endrin ketone
\\gpitpa02\d\chem\gc4.i\7020-G.b\D-A7023.d\D-A7023.RAW

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7024.d
Report Date: 03-Oct-2000 14:47

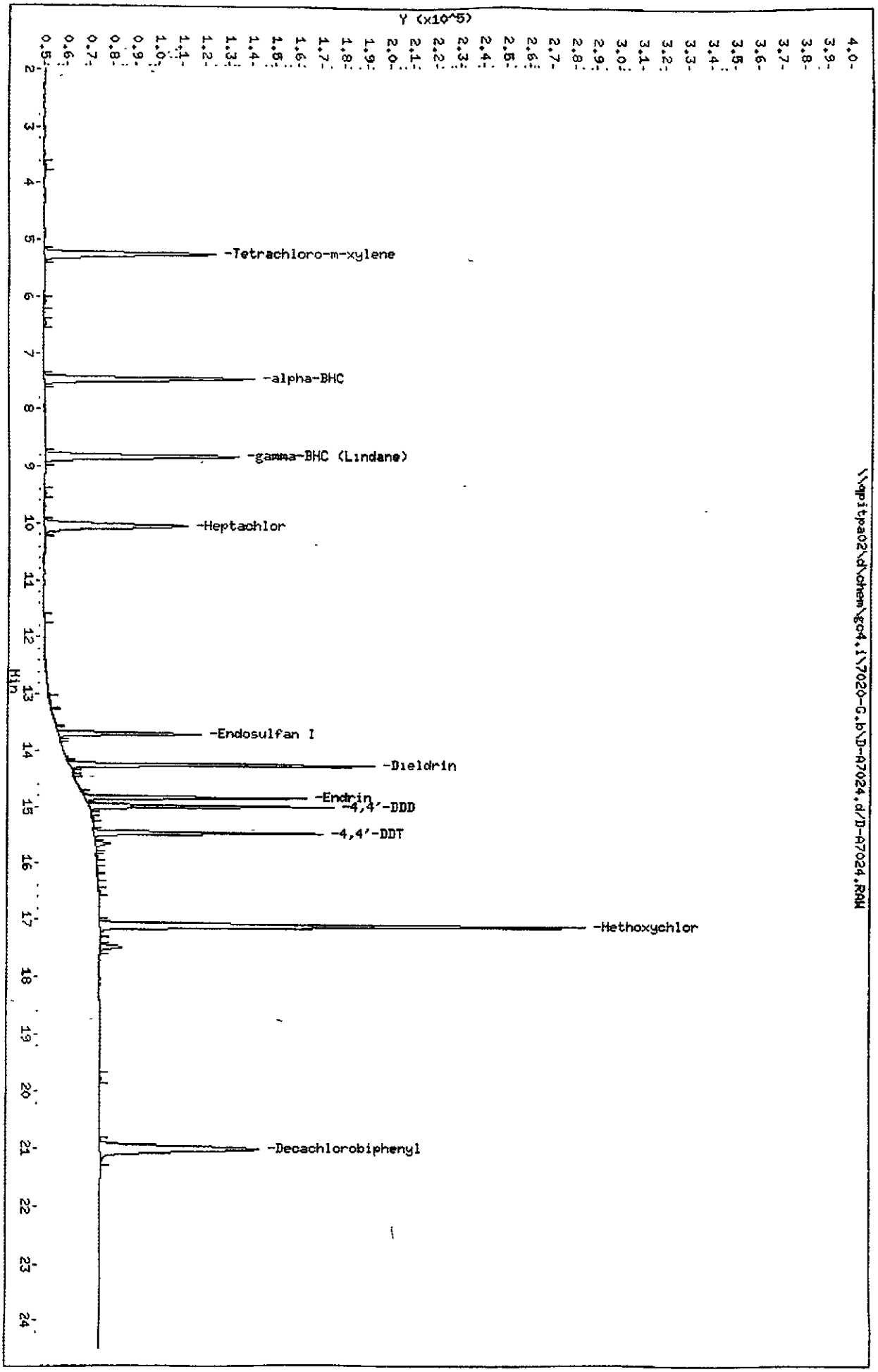
673 1464

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7024.d
Lab Smp Id: 2ND A
Inj Date : 02-OCT-2000 19:40
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND A,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-82-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.260	5.266	-0.006	74260	0 02500	0 01756
5 alpha-BHC	7 466	7 466	0.000	91571	0.02500	0 01765
6 gamma-BHC (Lindane)	8 833	8.833	0 000	84013	0 02500	0 01749
10 Heptachlor	10.046	10.046	0 000	62710	0 02500	0 01769
15 Endosulfan I	13.693	13 693	0 000	62763	0 02500	0.01757
17 Dieldrin	14 240	14 246	-0 006	132571	0 02500	0.03584
20 Endrin	14 820	14 826	-0.006	96300	0.02500	0 03184
21 4,4'-DDD	14.980	14 980	0 000	105829	0.02500	0 03640
23 4,4'-DDT	15.453	15 453	0 000	99260	0.02500	0 03604
25 Methoxychlor	17.093	17.093	0.000	210615	0 05000	0.1781
$ 30 Decachlorobiphenyl	21.000	21.000	0 000	68783	0 02500	0.03571

6731465


Data File: \\qpitpa02\d\chem\gc4.i\7020-C.b\D-A7024.d
Date : 02-OCT-2000 19:40
Client ID:
Sample Info: 2ND A,7020-C.b,,INDA.sub,,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\7020-C.b\D-A7024.d/D-A7024.RAW
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

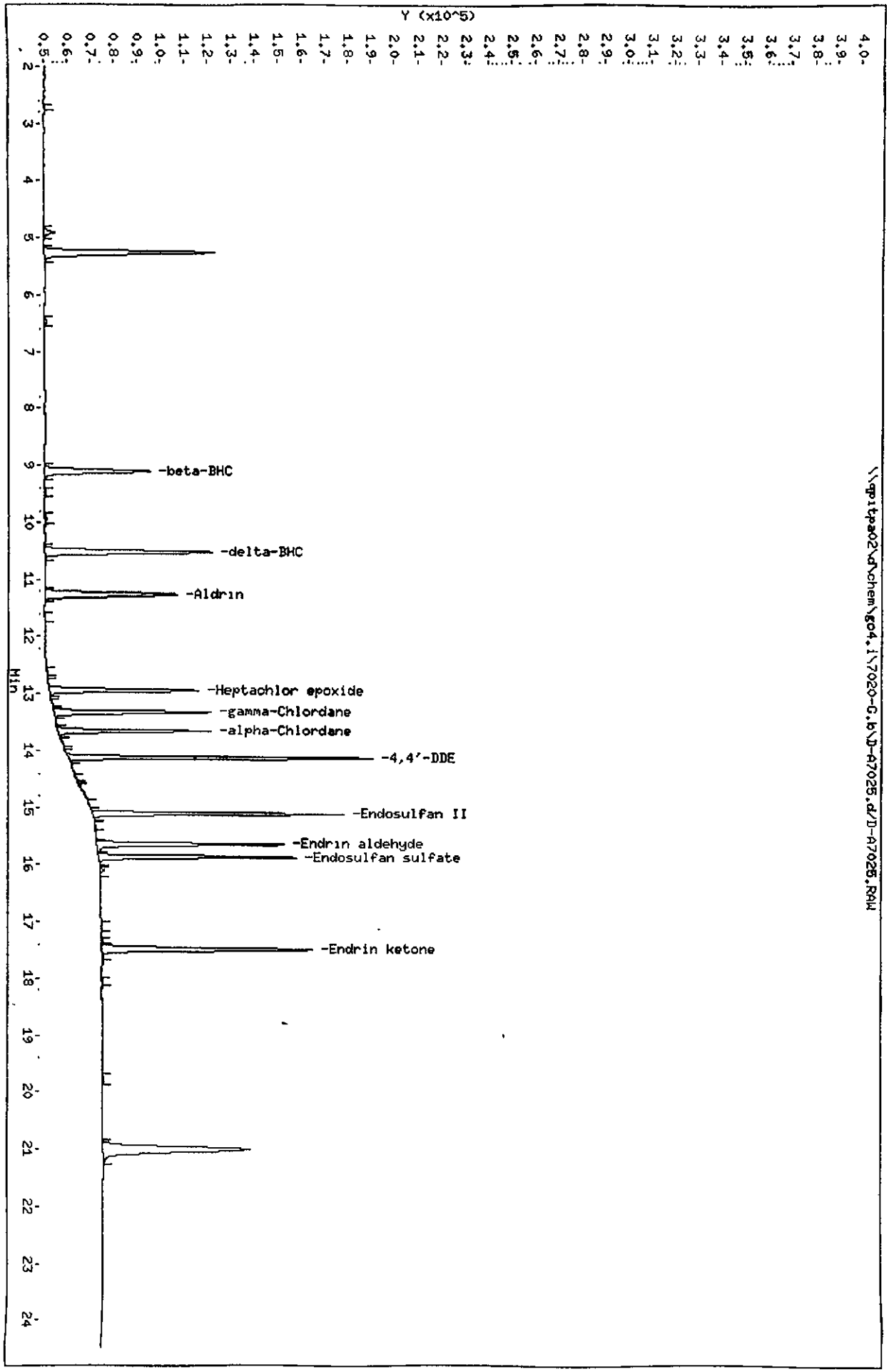
673 1466

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7025.d
Lab Smp Id: 2ND B
Inj Date : 02-OCT-2000 20:08
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND B,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-82-5
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	57191	0 02500	0 01652
7 beta-BHC	9.106	9.106	0 000	45710	0.02500	0 01737
8 delta-BHC	10.520	10.526	-0 006	72127	0.02500	0 01704
12 Heptachlor epoxide	12.940	12.940	0.000	64491	0.02500	0.01725
13 gamma-Chlordane	13 313	13 313	0.000	67491	0 02500	0.01750
14 alpha-Chlordane	13.640	13 640	0.000	65716	0 02500	0.01709
16 4,4'-DDE	14.113	14.113	0.000	131185	0 02500	0 03469
22 Endosulfan II	15.106	15.106	0 000	107931	0 02500	0.03319
24 Endrin aldehyde	15.640	15.640	0 000	80200	0.02500	0 03315
26 Endosulfan sulfate	15.860	15.860	0.000	84640	0.02500	0 03425
27 Endrin ketone	17.480	17.480	0.000	90482	0.02500	0.03448

6731467


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7025.d
Date : 02-OCT-2000 20:08
Client ID:
Sample Info: 2ND B,7020-G.b,,INDB,sub,,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7025.d\D-A7025.RAW
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7026.d
Report Date: 03-Oct-2000 14:47

673 1468

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7026.d
Lab Smp Id: EVALB
Inj Date : 02-OCT-2000 20:36
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 03-Oct-2000 14:30 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

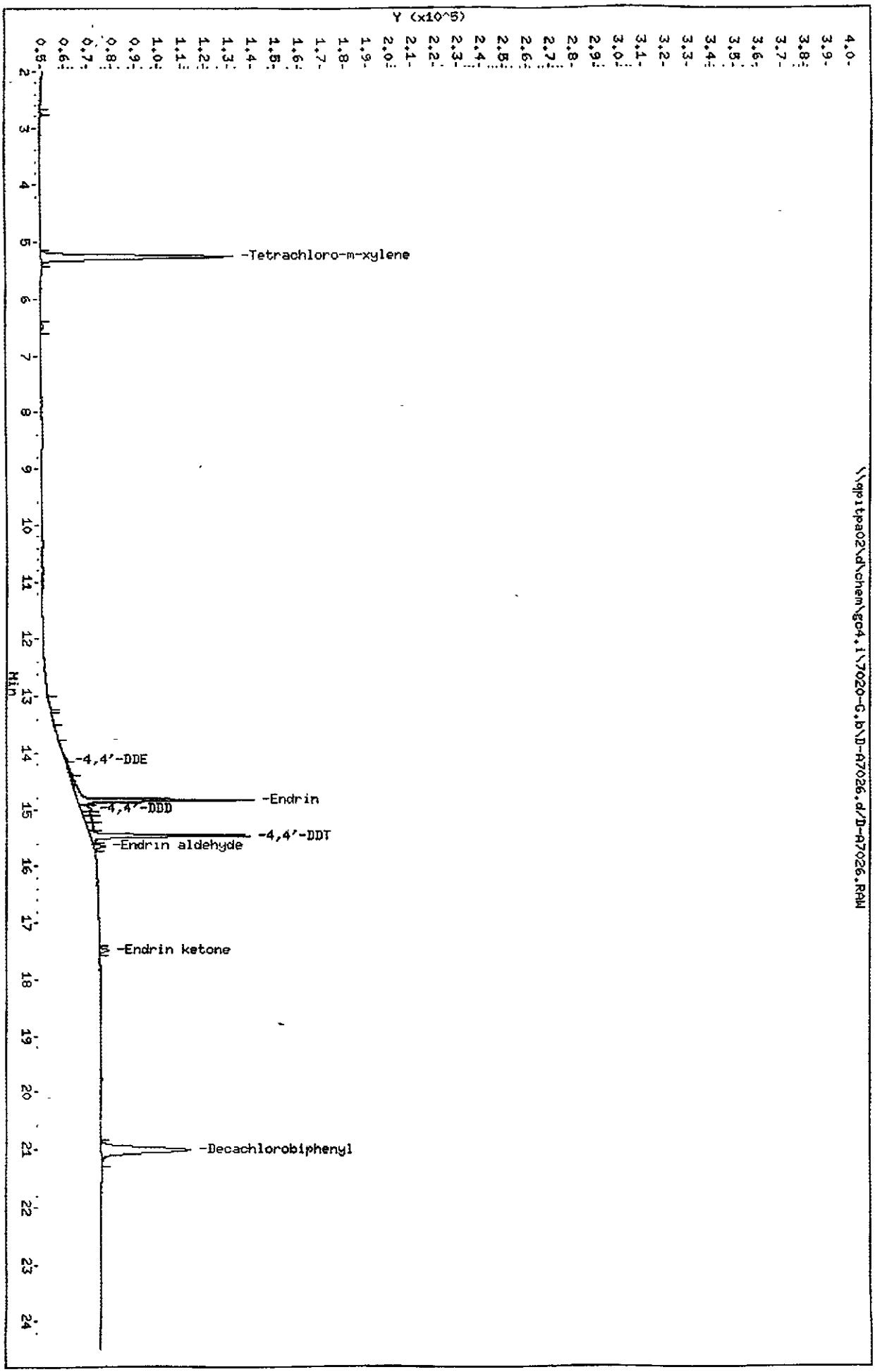
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5.260	5.266	-0.006	82541	0 01952	0.01952(R)
16 4,4'-DDE	14.120	14.113	0 007	985	0 00026	0 0002604
20 Endrin	14.820	14.826	-0.006	76027	0.02514	0 02514
21 4,4'-DDD	14.986	14.980	0.006	4495	0 00155	0 001546
23 4,4'-DDT	15 453	15 453	0.000	69458	0 02522	0 02522
24 Endrin aldehyde	15 640	15 640	0 000	4861	0 00201	0.002009
27 Endrin ketone	17.480	17 480	0 000	3706	0 00141	0 001412
$ 30 Decachlorobiphenyl	21.000	21.000	0 000	38836	0 02016	0 02016(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT= 7.3
ENDRIN= 10.1

6731469


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7026.d
Date : 02-OCT-2000 20:36
Client ID:
Sample Info: EVALB,7020-G.b,.EVALBR.sub,,3,1
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
-Tetrachloro-m-xylene
-4,4'-DDE
-Endrin
-4,4'-DDD
-4,4'-DDT
-Endrin aldehyde
-Endrin ketone
-Decachlorobiphenyl
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7026.d\D-A7026.RAW

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7297.d
Report Date: 19-Oct-2000 13:32

673 1470

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7297.d
Lab Smp Id: EVALB
Inj Date : 18-OCT-2000 11:33
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5.226	5 226	0 000	95371	0.02255	0.02255(R)
16 4,4'-DDE	14.086	14.086	0.000	2493	<0.0	0.0006592
20 Endrin	14.800	14 800	0.000	76973	0.02545	0.02545
21 4,4'-DDD	14.960	14.953	0.007	3648	0 00125	0 001255
23 4,4'-DDT	15.426	15 426	0 000	66323	0 02408	0 02408
24 Endrin aldehyde	15.613	15.606	0.007	5015	0.00207	0.002073
27 Endrin ketone	17.433	17.433	0.000	5539	0.00211	0.002110
$ 30 Decachlorobiphenyl	20.920	20.920	0.000	40844	0 02120	0.02120(R)

QC Flag Legend

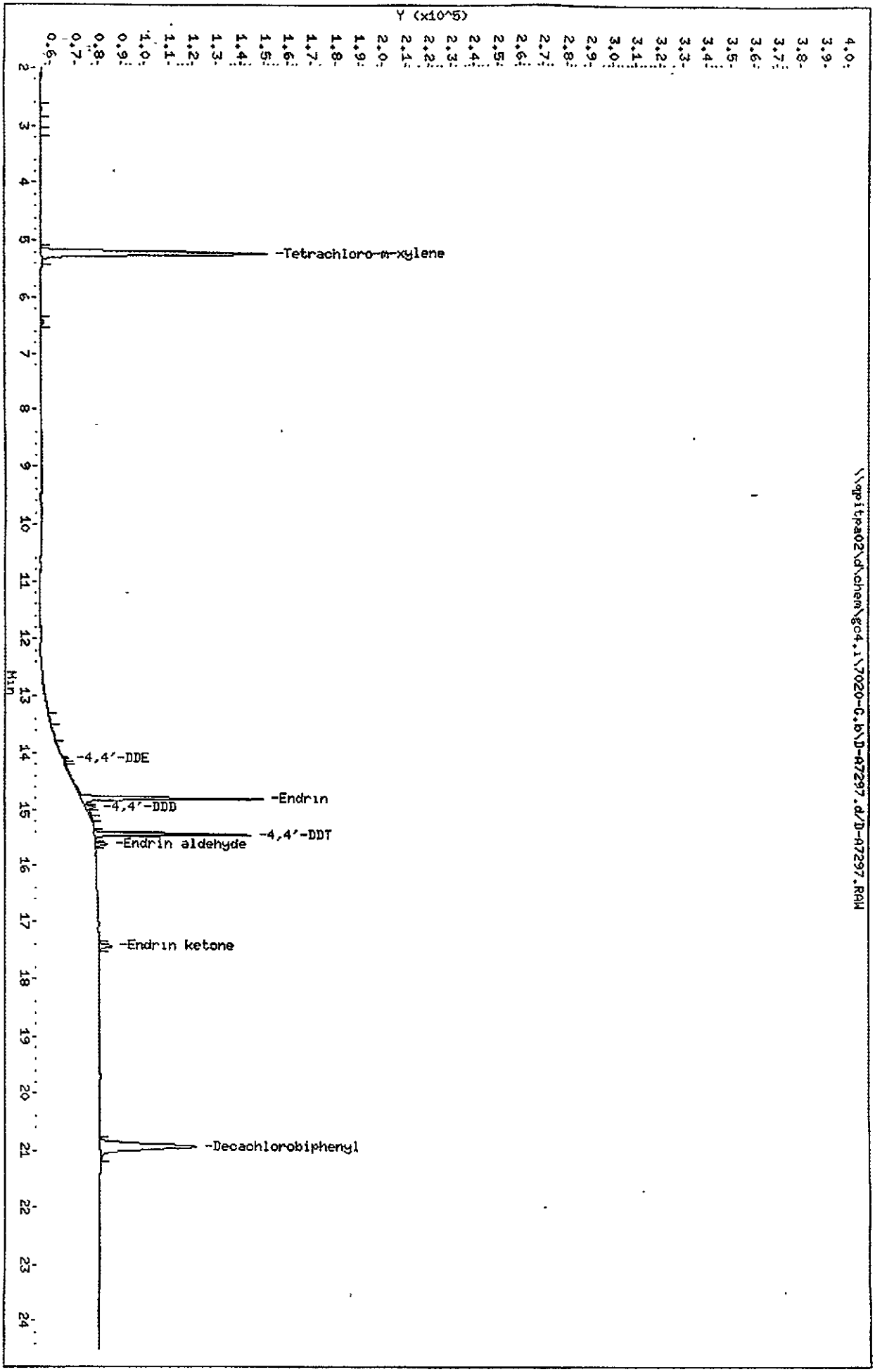
R - Spike/Surrogate failed recovery limits.

Endrin = 12.1
DDT = 9.5

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7297.d
Date : 18-OCT-2000 11:33
Client ID:
Sample Info: EVALB,7020-G.b,,EVALBR.sub,,3.1

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

Column phase: DB608



673 1472

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7298.d
Lab Smp Id: MEDTOX
Inj Date : 18-OCT-2000 12:01
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,7020-G.b,,1-TOX.sub,,2,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Toxaphene	14.966	14.966	0.000	50432	1.00000	1 240(M)
$ 1 Tetrachloro-m-xylene	5.226	5.226	0 000	115749	0.02500	0 02737
$ 30 Decachlorobiphenyl	20 920	20.920	0.000	50605	0 02500	0.02627

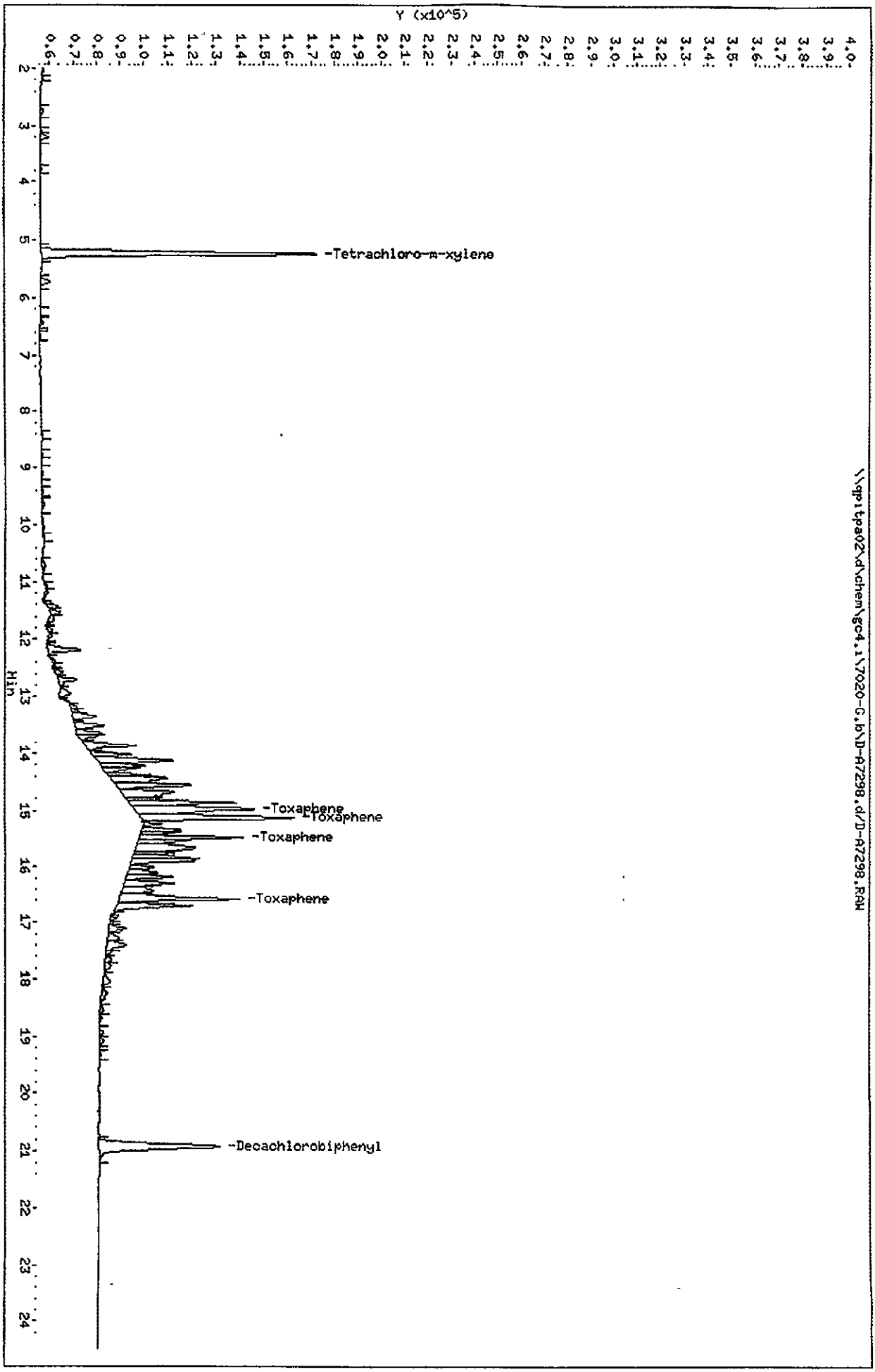
QC Flag Legend

M - Compound response manually integrated.

Data File: \\qp1tpa02\d\chem\gc4.i\7020-G,b\D-A7298.d
Date : 18-OCT-2000 12:01
Client ID:
Sample Info: HEDTOX,7020-G,b,1-TOX,sub,2,3

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

Column phase: DB608

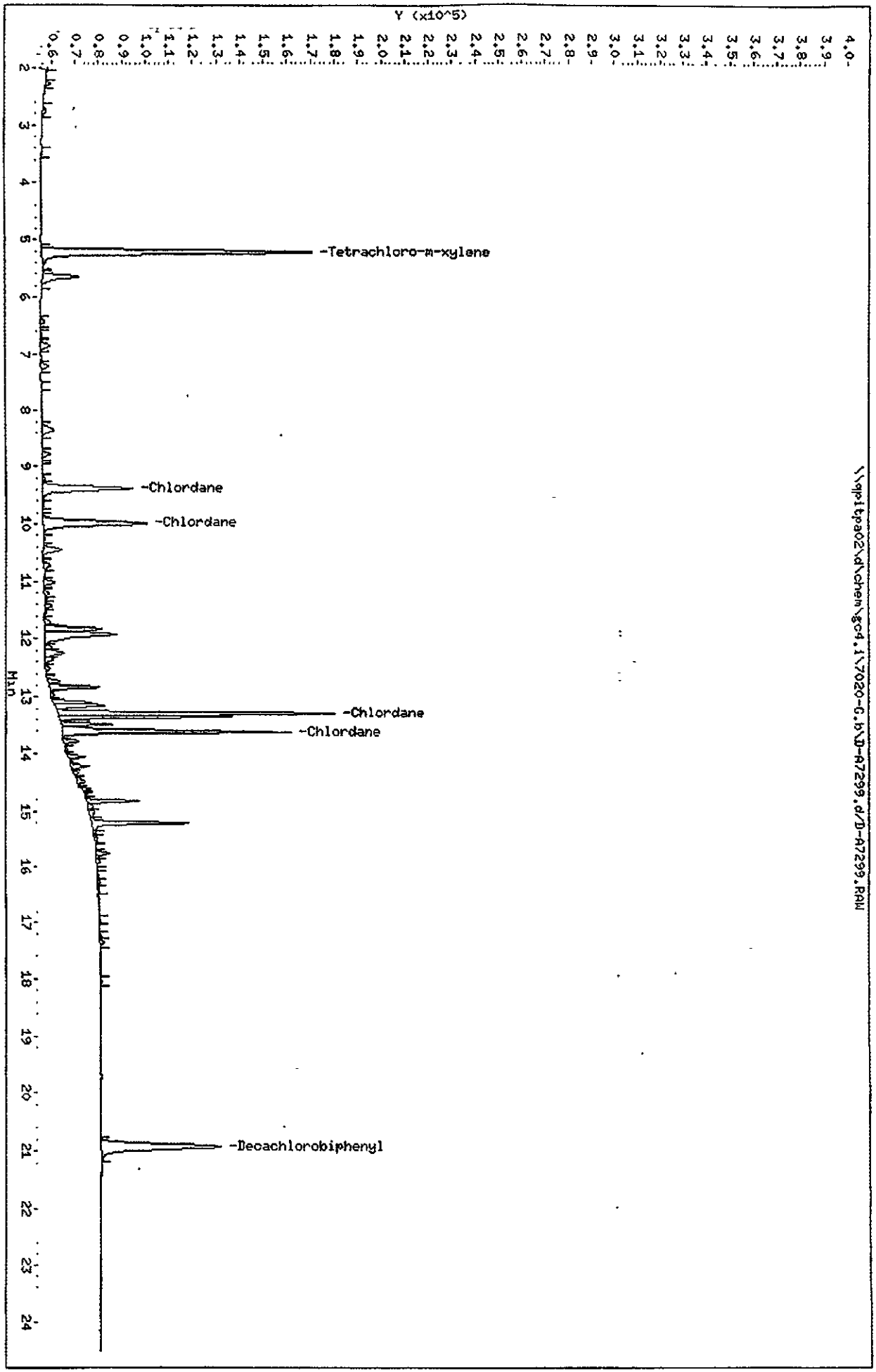


673 1474

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7299.d
Lab Smp Id: MEDCHLOR
Inj Date : 18-OCT-2000 12:29
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,7020-G.b,,2-CHLO.sub,,2,3
Misc Info : 190-90-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Chlordane	9.380	9.380	0.000	38794	0.25000	0.2900
$ 1 Tetrachloro-m-xylene	5.226	5.226	0 000	114826	0.02500	0.02715
$ 30 Decachlorobiphenyl	20.920	20 920	0.000	50584	0 02500	0.02626


Data File: \\spitpa02\d\chem\gc4.i\7020-G.b\D-A7299.d
Date : 18-OCT-2000 12:29
Client ID:
Sample Info: MEDCHLOR,7020-G.b,,2-CHLO.sub,,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\spitpa02\d\chem\gc4.i\7020-G.b\D-A7299.d\D-A7299.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-Chlordane
-Chlordane
-Decachlorobiphenyl

STL - Pittsburgh

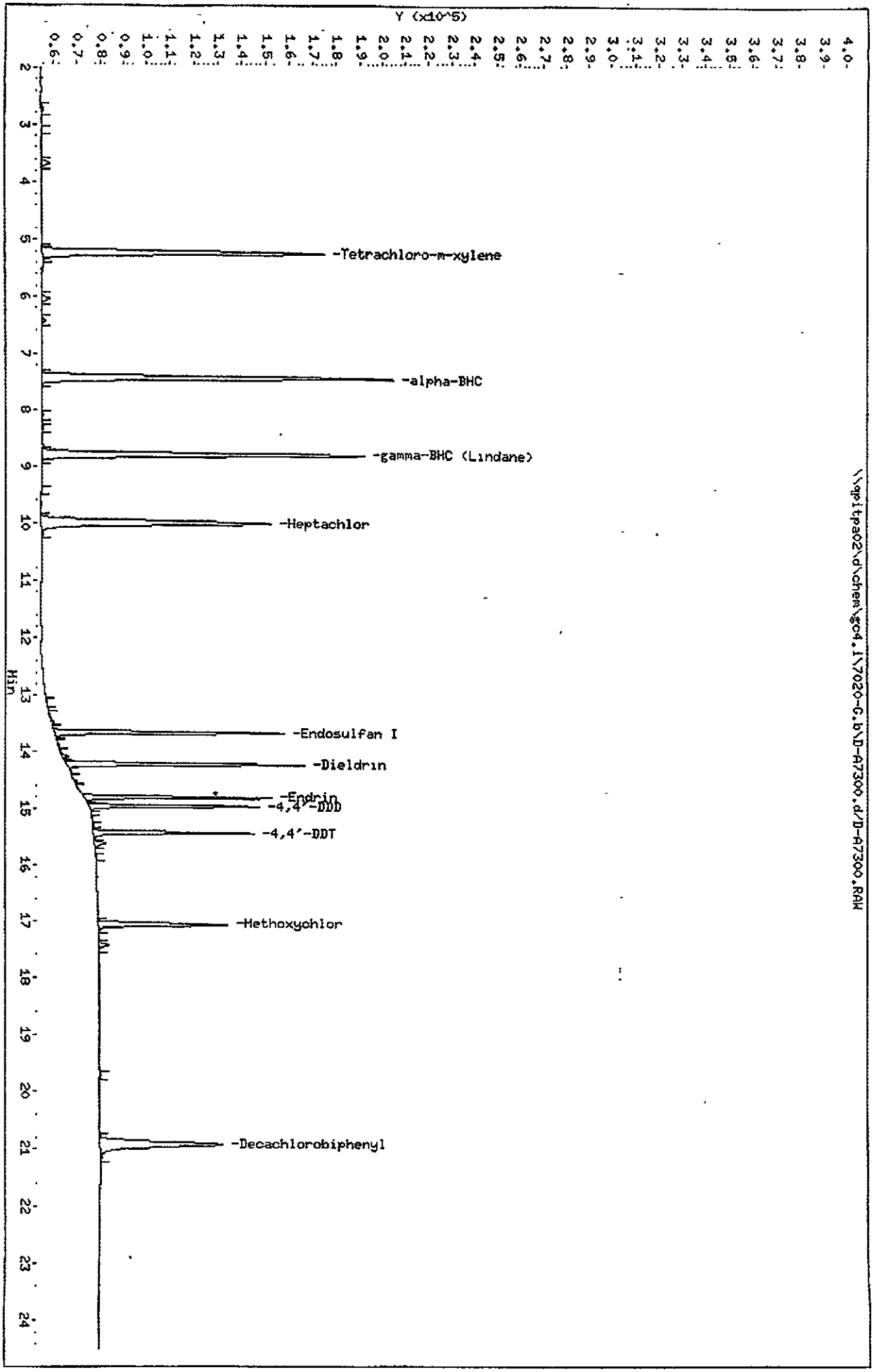
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7300.d
Lab Smp Id: MEDA
Inj Date : 18-OCT-2000 12:57
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.226	5.226	0.000	119727	0.02500	0 02831
5 alpha-BHC	7.426	7.426	0.000	150322	0 02500	0.02897
6 gamma-BHC (Lindane)	8.786	8.786	0.000	137054	0.02500	0 02854
10 Heptachlor	9.993	9.993	0 000	97964	0.02500	0.02764
15 Endosulfan I	13.660	13.660	0.000	98256	0 02500	0 02751
17 Dieldrin	14.213	14.213	0.000	101606	0.02500	0.02747
20 Endrin	14.800	14.800	0.000	80198	0.02500	0.02652
21 4,4'-DDD	14.953	14.953	0 000	73194	0.02500	0 02518
23 4,4'-DDT	15.426	15.426	0 000	68805	0 02500	0.02498
25 Methoxychlor	17.053	17 053	0 000	55606	0.05000	0 04703
$ 30 Decachlorobiphenyl	20.920	20 920	0 000	52247	0.02500	0 02712

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7300.d
Date : 18-OCT-2000 12:57
Client ID:
Sample Info: MEDA,7020-G.b,,INDA.sub,,2,3

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

Column phase: DB608

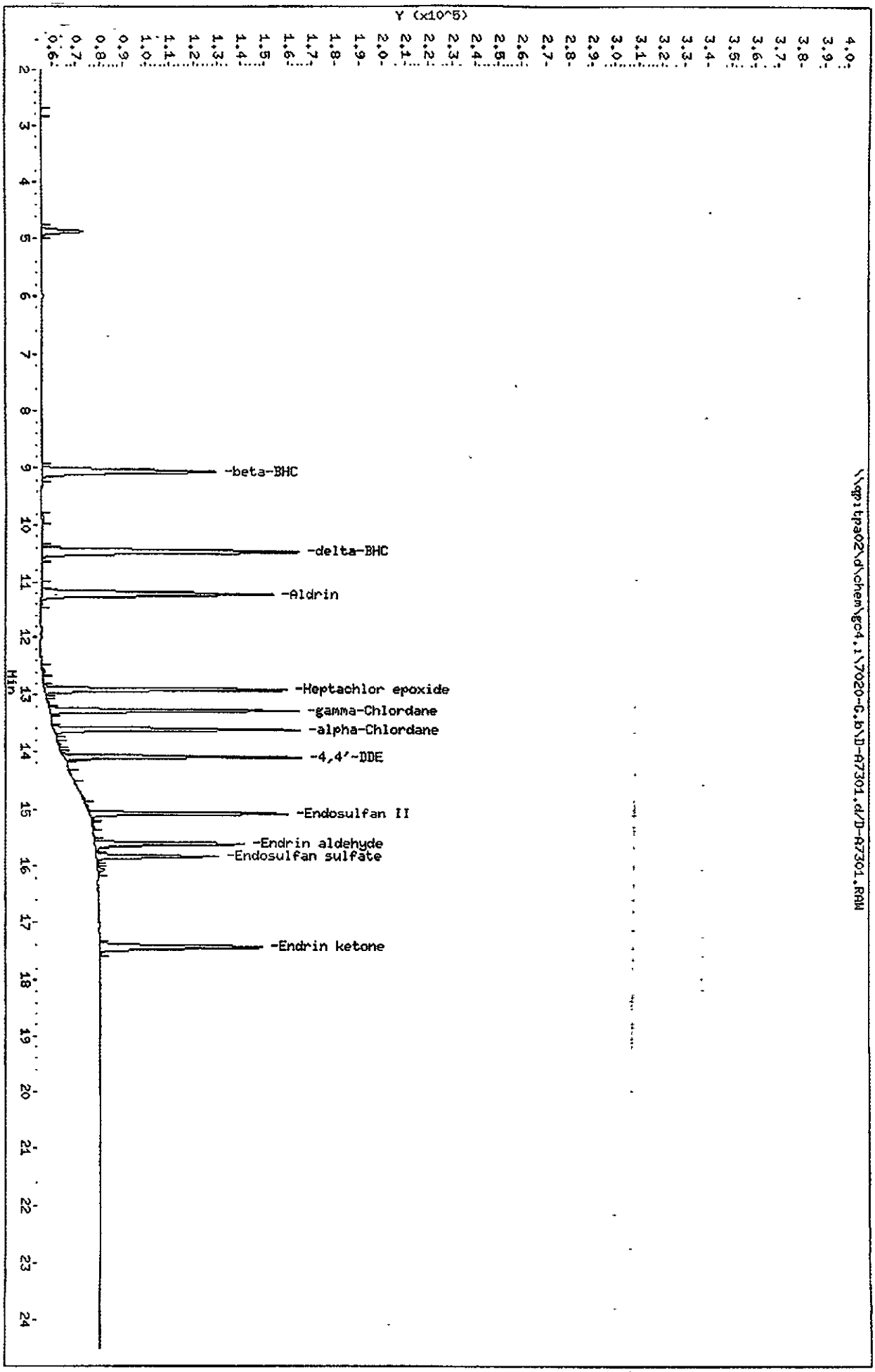


673 1478

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7301.d
Lab Smp Id: MEDB
Inj Date : 18-OCT-2000 13:24
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.213	11 213	0.000	98921	0.02500	0.02858
7 beta-BHC	9.060	9 060	0.000	74463	0.02500	0.02829
8 delta-BHC	10.466	10.466	0.000	109827	0.02500	0.02595
12 Heptachlor epoxide	12.906	12 906	0.000	103280	0.02500	0.02762
13 gamma-Chlordane	13 280	13.280	0.000	106018	0.02500	0.02748
14 alpha-Chlordane	13.613	13.613	0.000	104738	0.02500	0 02724
16 4,4'-DDE	14 086	14 086	0.000	101224	0.02500	0 02677
22 Endosulfan II	15.073	15 073	0.000	84688	0.02500	0 02604
24 Endrin aldehyde	15 606	15.606	0.000	63268	0.02500	0.02615
26 Endosulfan sulfate	15 826	15 826	0.000	51547	0 02500	0 02086
27 Endrin ketone	17 433	17 433	0.000	68938	0 02500	0.02627


Data File: \\qp1tpa02\d\chem\gc4.i\7020-G.b\D-A7301.d
Date : 18-OCT-2000 13:24
Client ID:
Sample Info: MEDB,7020-G.b,,INDB.sub,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qp1tpa02\d\chem\gc4.i\7020-G.b\D-A7301.d\D-A7301.RAW
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7322.d
Report Date: 19-Oct-2000 13:37

673 1480

STL - Pittsburgh

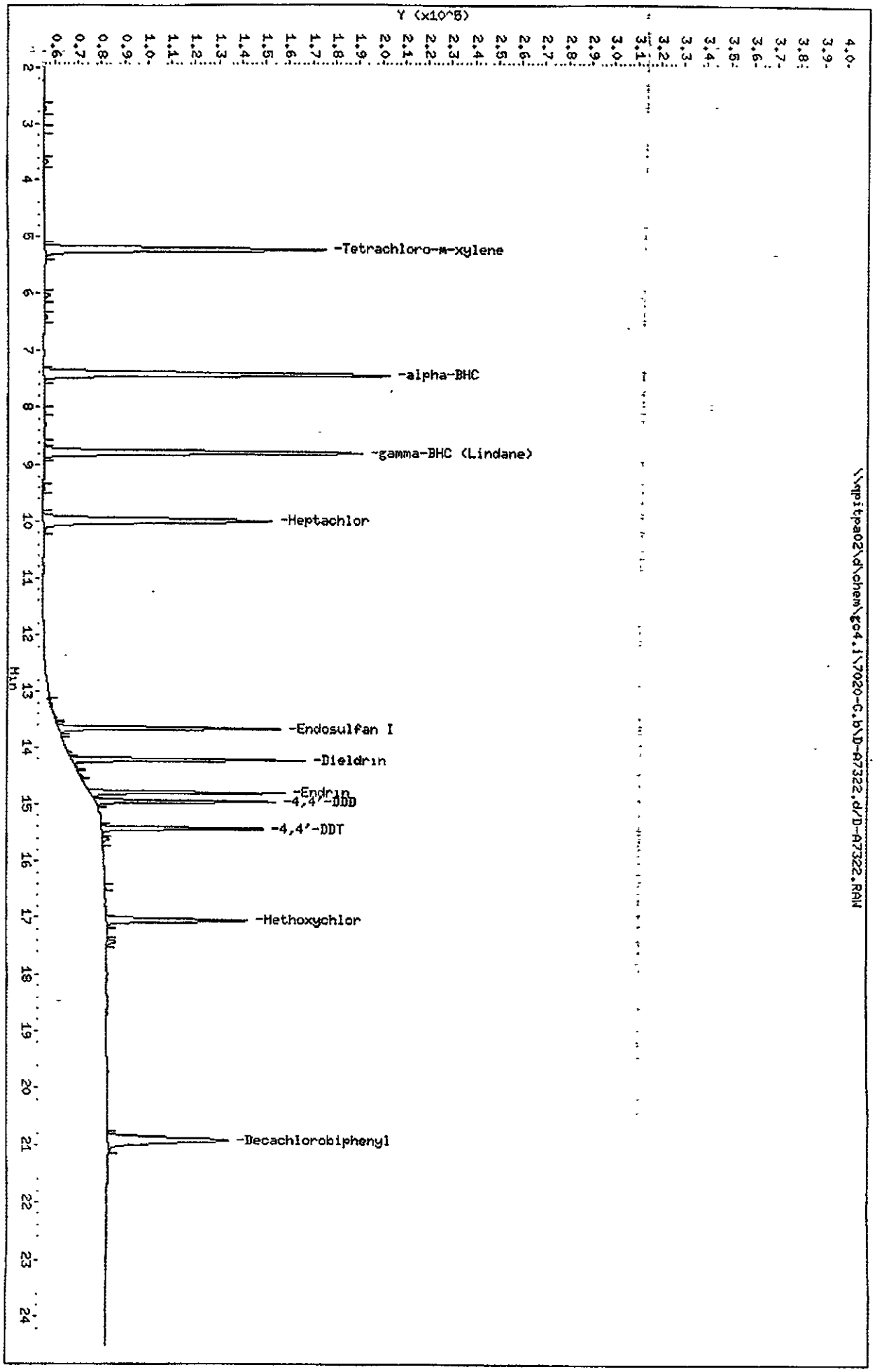
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7322.d
Lab Smp Id: MEDA
Inj Date : 18-OCT-2000 23:36
Operator : 01891 Inst ID: gc4.i
Smp Info : MEDA,7020-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m-xylene	5.220	5.226	-0 006	119747	0.02500	0 02832
5 alpha-BHC	7.420	7.426	-0.006	147545	0.02500	0 02843
6 gamma-BHC (Lindane)	8.780	8 786	-0.006	135879	0.02500	0.02829
10 Heptachlor	9 986	9.993	-0.007	97608	0.02500	0 02754
15 Endosulfan I	13.660	13 660	0 000	94961	0 02500	0 02658
17 Dieldrin	14.213	14.213	0.000	99727	0.02500	0 02696
20 Endrin	14.793	14.800	-0.007	82901	0.02500	0 02741
21 4,4'-DDD	14.953	14.953	0.000	76843	0.02500	0 02643
23 4,4'-DDT	15.426	15.426	0.000	68746	0.02500	0.02496
25 Methoxychlor	17 053	17.053	0.000	60319	0.05000	0 05102
$ 30 Decachlorobiphenyl	20 913	20.920	-0.007	51454	0.02500	0 02671

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7322.d
Date : 18-OCT-2000 23:36
Client ID:
Sample Info: MEDA,7020-G.b,,INDA,sub,,2,3

Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7323.d
Report Date: 19-Oct-2000 13:37

673 1482

STL - Pittsburgh

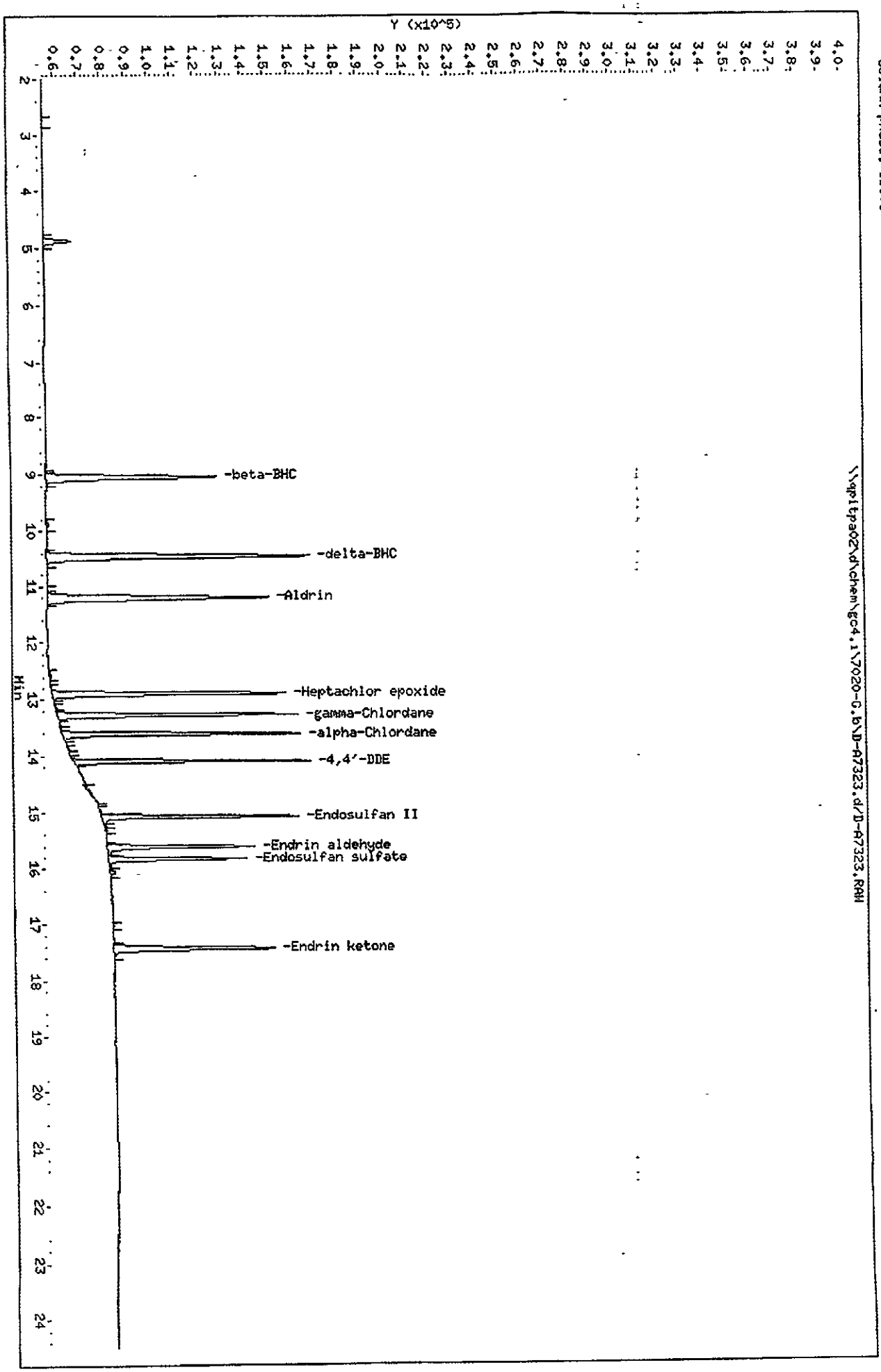
Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7323.d
Lab Smp Id: MEDB
Inj Date : 19-OCT-2000 00:03
Operator : 01891 Inst ID: gc4.i
Smp Info : MEDB,7020-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.206	11.213	-0 007	95149	0.02500	0.02749
7 beta-BHC	9.053	9.060	-0.007	73276	0 02500	0 02784
8 delta-BHC	10.466	10.466	0 000	113004	0.02500	0.02670
12 Heptachlor epoxide	12.906	12.906	0.000	100371	0.02500	0.02684
13 gamma-Chlordane	13.280	13.280	0 000	103290	0 02500	0.02678
14 alpha-Chlordane	13.606	13 613	-0.007	102203	0.02500	0.02658
16 4,4'-DDE	14.086	14 086	0.000	101811	0.02500	0 02692
22 Endosulfan II	15.073	15.073	0.000	84943	0.02500	0.02612
24 Endrin aldehyde	15.606	15.606	0.000	63342	0.02500	0 02618
26 Endosulfan sulfate	15.826	15 826	0.000	59078	0.02500	0 02391
27 Endrin ketone	17.426	17 433	-0.007	69022	0.02500	0.02630

Data File: \\qpltpa02\d\chem\gc4.i\7020-G.b\D-A7323.d
Date : 19-OCT-2000 00:03
Client ID:
Sample Info: HEDB,7020-G.b,,INDB.sub,,2,3

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

Column phase: DB608



Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7324.d
Report Date: 19-Oct-2000 13:37

673 1484

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7324.d
Lab Smp Id: EVALB
Inj Date : 19-OCT-2000 00:31
Operator : 01891 Inst ID: gc4.i
Smp Info : EVALB,7020-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

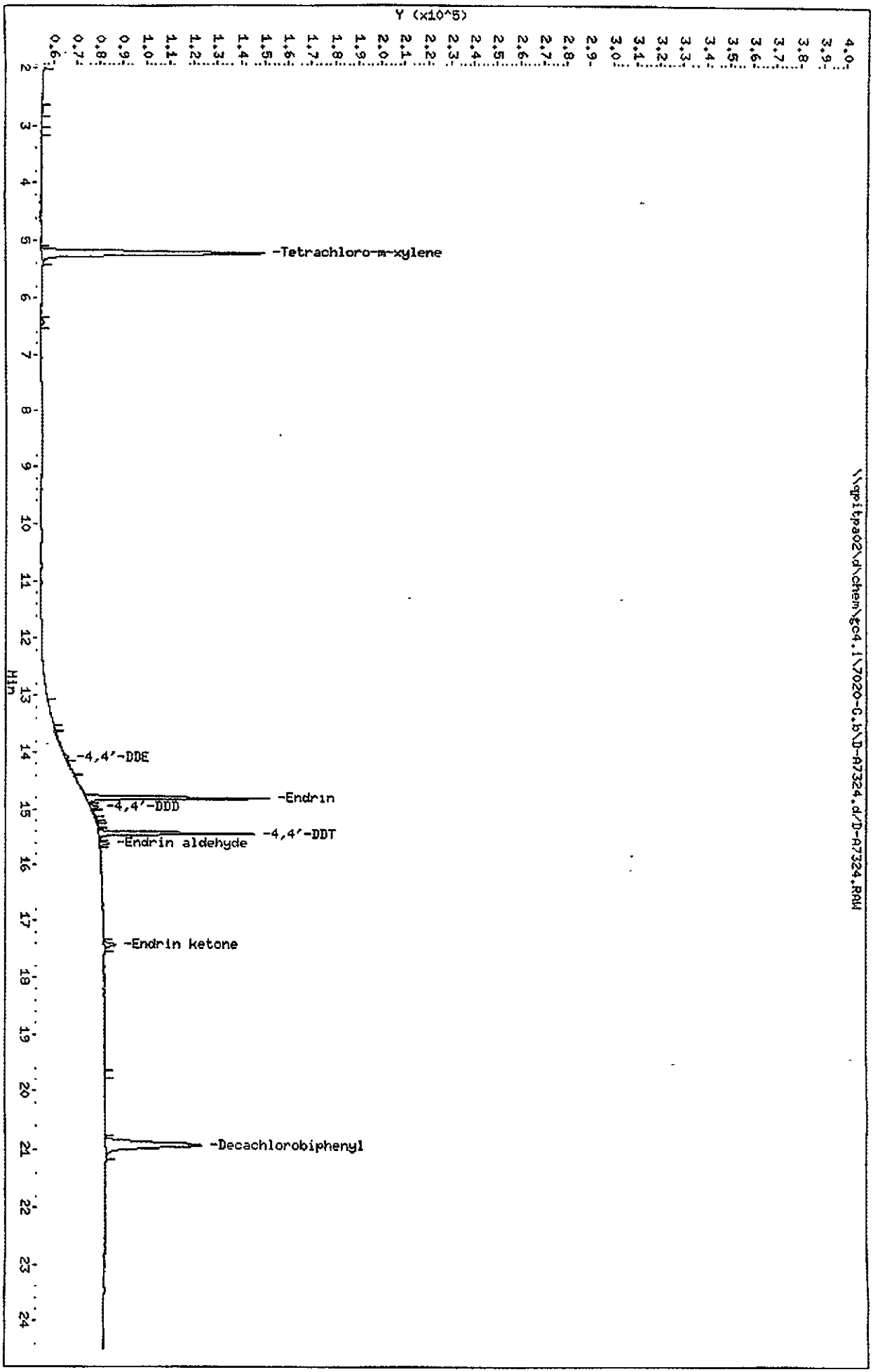
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m-xylene	5.220	5.226	-0.006	94366	0.02232	0.02232(R)
16 4,4'-DDE	14.086	14.086	0.000	1696	<0.0	0.0004485
20 Endrin	14.793	14.800	-0.007	78481	0.02595	0.02595
21 4,4'-DDD	14.960	14.953	0.007	3556	0.00122	0 001223
23 4,4'-DDT	15 426	15.426	0.000	66642	0.02419	0 02419
24 Endrin aldehyde	15.606	15.606	0.000	3837	0.00159	0 001586
27 Endrin ketone	17.426	17.433	-0.007	4849	0 00185	0.001848
$ 30 Decachlorobiphenyl	20.913	20.920	-0.007	40935	0 02125	0.02125(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ENDRIN = 10.0
DDT — 7.3

6731485



Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7324.d
Date : 19-OCT-2000 00:31
Client ID:
Sample Info: EVALB,7020-G.b,EVALBR.sub,,3,1

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

Column phase: DB608

\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7324.d\D-A7324.RAW

PESTICIDE
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID:C0J160000 608

Sample WT/Vol: 30 / g
Work Order: DM8PW1AA
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
72-54-8	4,4'-DDD	1.7	U
72-55-9	4,4'-DDE	1.7	U
50-29-3	4,4'-DDT	1.7	U
60-57-1	Dieldrin	1.7	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	1.7	U
53494-70-5	Endrin ketone	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
72-20-8	Endrin	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
8001-35-2	Toxaphene	67	U
72-43-5	Methoxychlor	17	U

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7312.d
Report Date: 19-Oct-2000 13:40

673 1488

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7312.d
Lab Smp Id: DM8PW1AA Client Smp ID: PBLK
Inj Date : 18-OCT-2000 18:58
Operator : 1891 Inst ID: gc4.i
Smp Info : DM8PW1AA,7020-G.b,,PEST.sub,,3,
Misc Info : 140161BLK
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5.433	5.440	-0.007	61025	0.02035	6.783
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	Compound Not Detected.					
9 Chlordane	Compound Not Detected.					
10 Heptachlor	Compound Not Detected.					
11 Aldrin	Compound Not Detected.					
7 beta-BHC	11.820	11.853	-0.033	2099	0.00110	0.3672(a)
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	Compound Not Detected.					
15 Endosulfan I	Compound Not Detected.					
13 gamma-Chlordane	Compound Not Detected.					
14 alpha-Chlordane	Compound Not Detected.					
16 4,4'-DDE	Compound Not Detected.					
17 Dieldrin	Compound Not Detected					
20 Endrin	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
18 Toxaphene	Compound Not Detected.					
21 4,4'-DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	Compound Not Detected.					
24 Endrin aldehyde	Compound Not Detected					
25 Methoxychlor	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected					
27 Endrin ketone	Compound Not Detected.					
$ 30 Decachlorobiphenyl	19.686	19.686	0 000	44942	0 02069	6.897

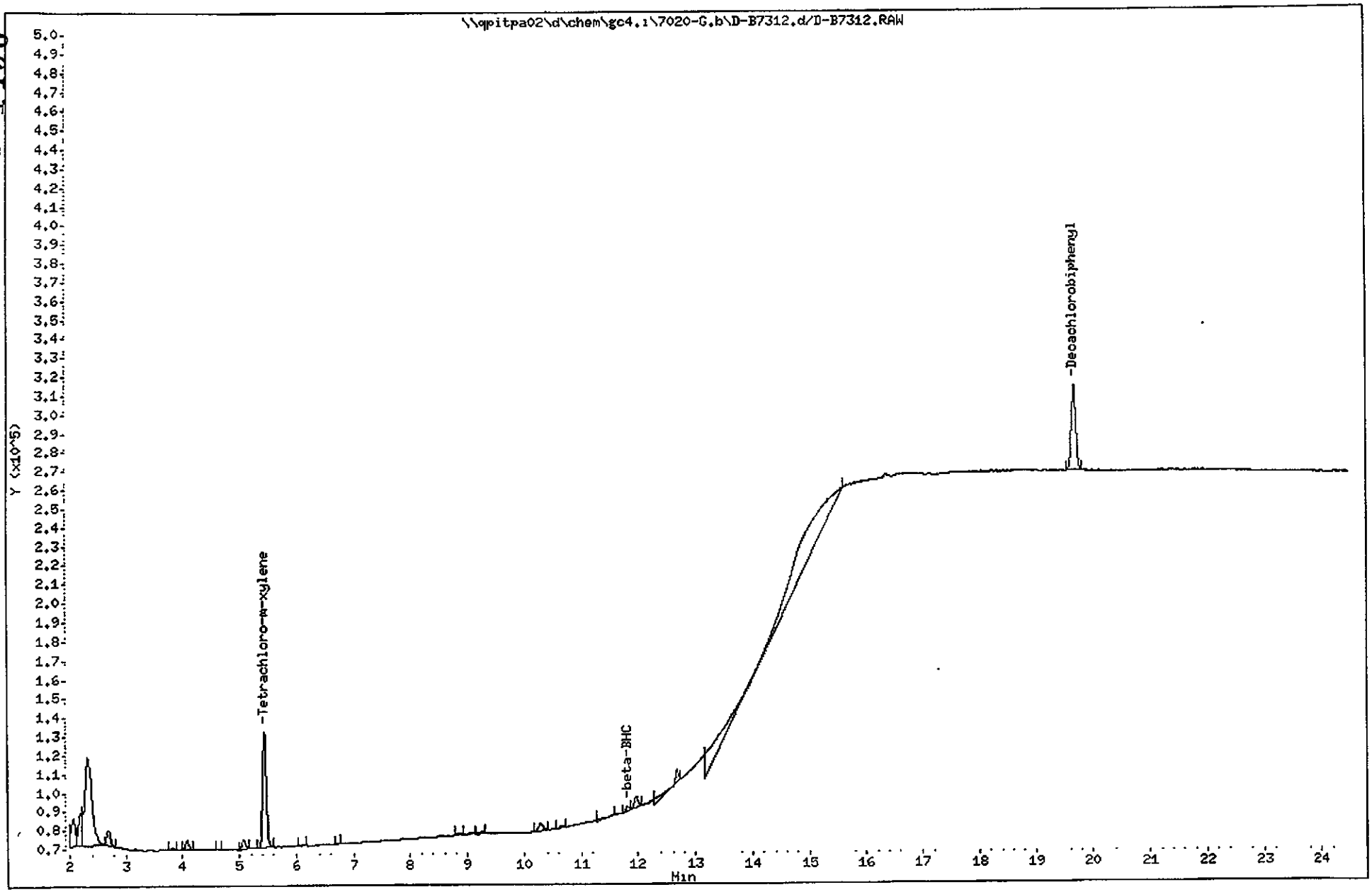
QC Flag Legend

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

Data File: \\qpitpa02\d\chem\gc4.1\7020-G.b\D-B7312.d
Date : 18-OCT-2000 18:58
Client ID: PBLK
Sample Info: DM8PW1AA,7020-G.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

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

673 1490



3156

STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7312.d
Report Date: 19-Oct-2000 13:35

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7312.d
Lab Smp Id: DM8PW1AA Client Smp ID: PBLK
Inj Date : 18-OCT-2000 18:58
Operator : 01891 Inst ID: gc4.i
Smp Info : DM8PW1AA,7020-G.b,,PEST.sub,,3,
Misc Info : 140161BLK
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.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/Vi)*(1/Ws)

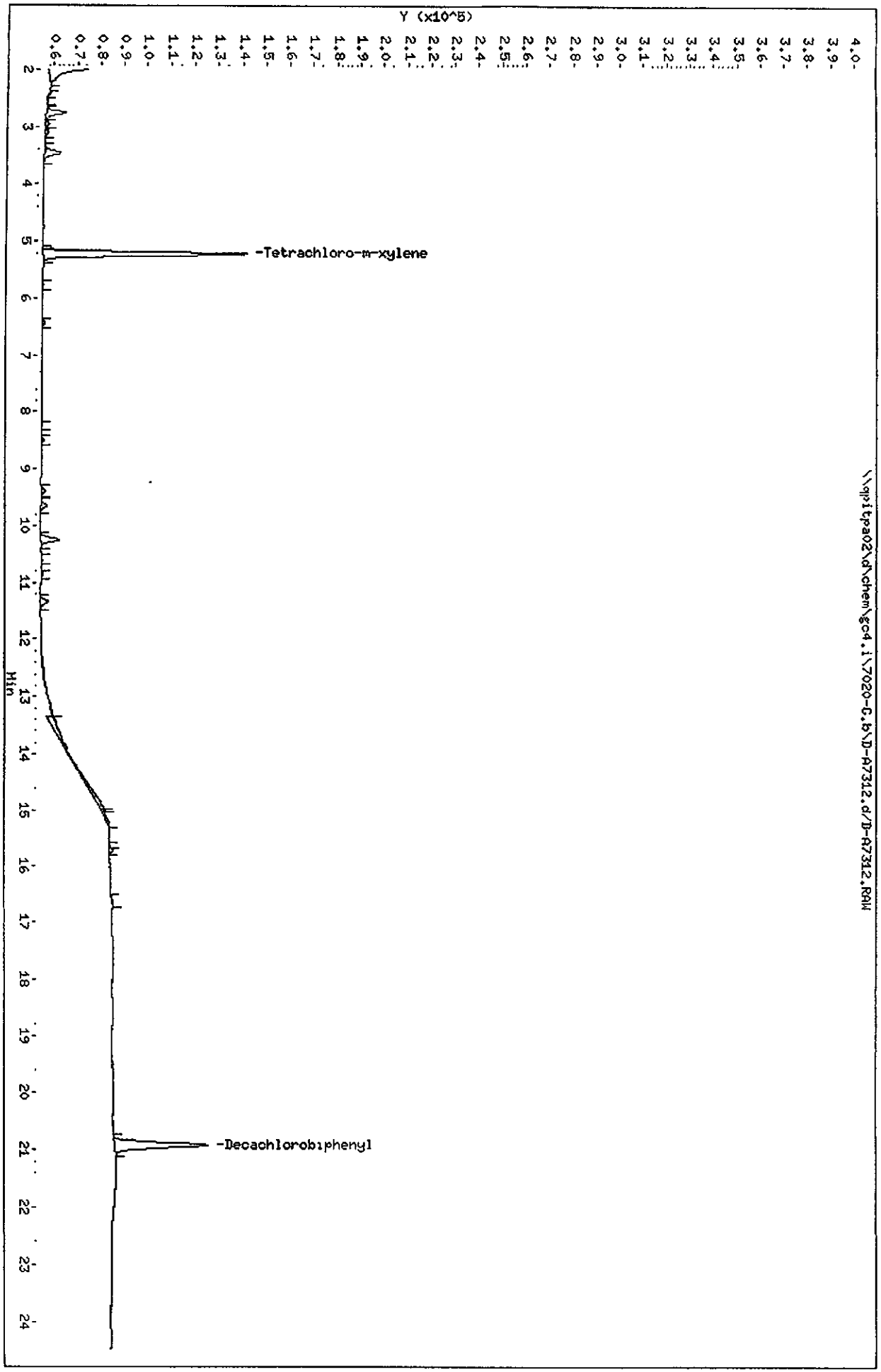
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 1	Tetrachloro-m-xylene	5 220	5.226	-0.006	85917	0 02032	6.772
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.					

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7312.d
Report Date: 19-Oct-2000 13:35

673 1492

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
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	20.920	20.920	0.000	39032	0 02026	6 754


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7312.d
Date : 18-OCT-2000 18:58
Client ID: PELK
Sample Info: DNSPW1AA,7020-G.b,,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53
Y (x10^5)
-Tetrachloro-m-xylene
-Decachlorobiphenyl
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7312.d/D-A7312.RAW

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID:C0J160000 608

Sample WT/Vol: 30 / g
Work Order: DM8PW1AC
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.14	
58-89-9	gamma-BHC (Lindane)	8.14	
50-29-3	4,4'-DDT	16.4	
60-57-1	Dieldrin	16.4	
72-20-8	Endrin	16.8	
76-44-8	Heptachlor	8.15	

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7313.d
Report Date: 19-Oct-2000 13:41

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7313.d
Lab Smp Id: DM8PW1AC Client Smp ID: LCS
Inj Date : 18-OCT-2000 19:26
Operator : 1891 Inst ID: gc4.i
Smp Info : DM8PW1AC,7020-G.b,,PEST.sub,,3,
Misc Info : 140161LCS
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

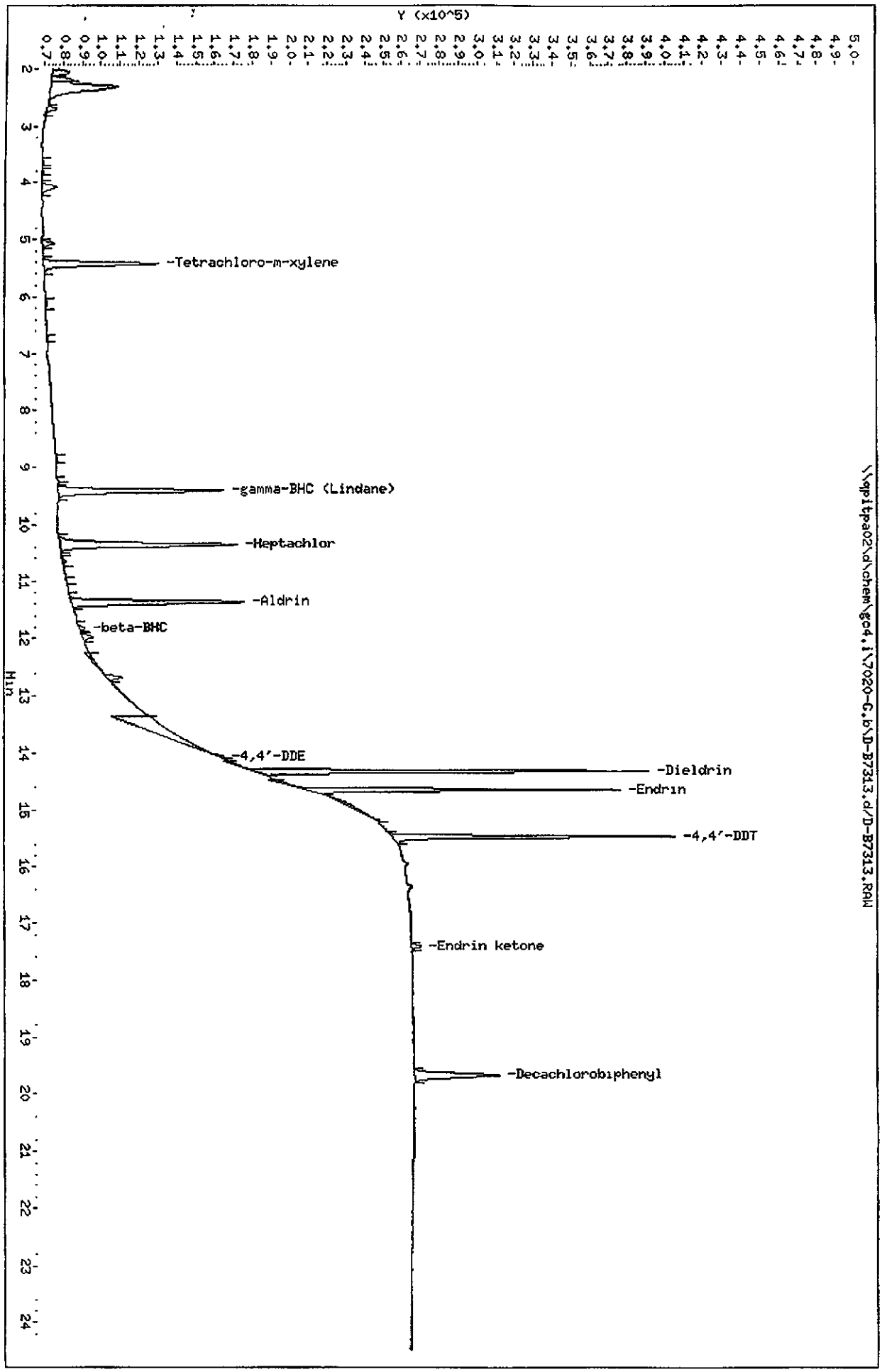
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5.433	5 440	-0.007	60088	0.02004	6.679
5 alpha-BHC	Compound Not Detected					
6 gamma-BHC (Lindane)	9.413	9.420	-0.007	87190	0.02444	8.145
9 Chlordane	Compound Not Detected					
10 Heptachlor	10.366	10.366	0.000	93351	0.02483	8.278
11 Aldrin	11.373	11.373	0.000	90600	0.02465	8.217
7 beta-BHC	11.820	11.853	-0.033	2922	0.00153	0.5112(a)
8 delta-BHC	Compound Not Detected					
12 Heptachlor epoxide	Compound Not Detected.					
15 Endosulfan I	Compound Not Detected.					
13 gamma-Chlordane	Compound Not Detected.					
14 alpha-Chlordane	Compound Not Detected.					
16 4,4'-DDE	14.066	14.060	0.006	2136	<0.0	0.1753(a)
17 Dieldrin	14.333	14.333	0.000	208242	0.04906	16.35
20 Endrin	14.660	14.660	0.000	165218	0.05051	16.84
18 Toxaphene	Compound Not Detected.					

673 1496

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21 4,4'-DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15.480	15.480	0.000	149868	0.04923	16.41
24 Endrin aldehyde	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected.					
27 Endrin ketone	17.420	17.426	-0.006	4875	0.00186	0.6202(a)
$ 30 Decachlorobiphenyl	19.686	19.686	0.000	44697	0.02058	6.859

QC Flag Legend

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


Data File: \\apitpa02\d\chem\gc4.i\7020-G.b\D-B7313.d
Date : 18-OCT-2000 19:26
Client ID: LCS
Sample Info: DW8PM1AC,7020-G.b,,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\apitpa02\d\chem\gc4.i\7020-G.b\D-B7313.d\D-B7313.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Heptachlor
-Aldrin
-beta-BHC
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDT
-Endrin ketone
-Decachlorobiphenyl

673 1498

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7313.d
Lab Smp Id: DM8PW1AC Client Smp ID: LCS
Inj Date : 18-OCT-2000 19:26
Operator : 01891 Inst ID: gc4.i
Smp Info : DM8PW1AC,7020-G.b,,PEST.sub,,3,
Misc Info : 140161LCS
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.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/Vi)*(1/Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

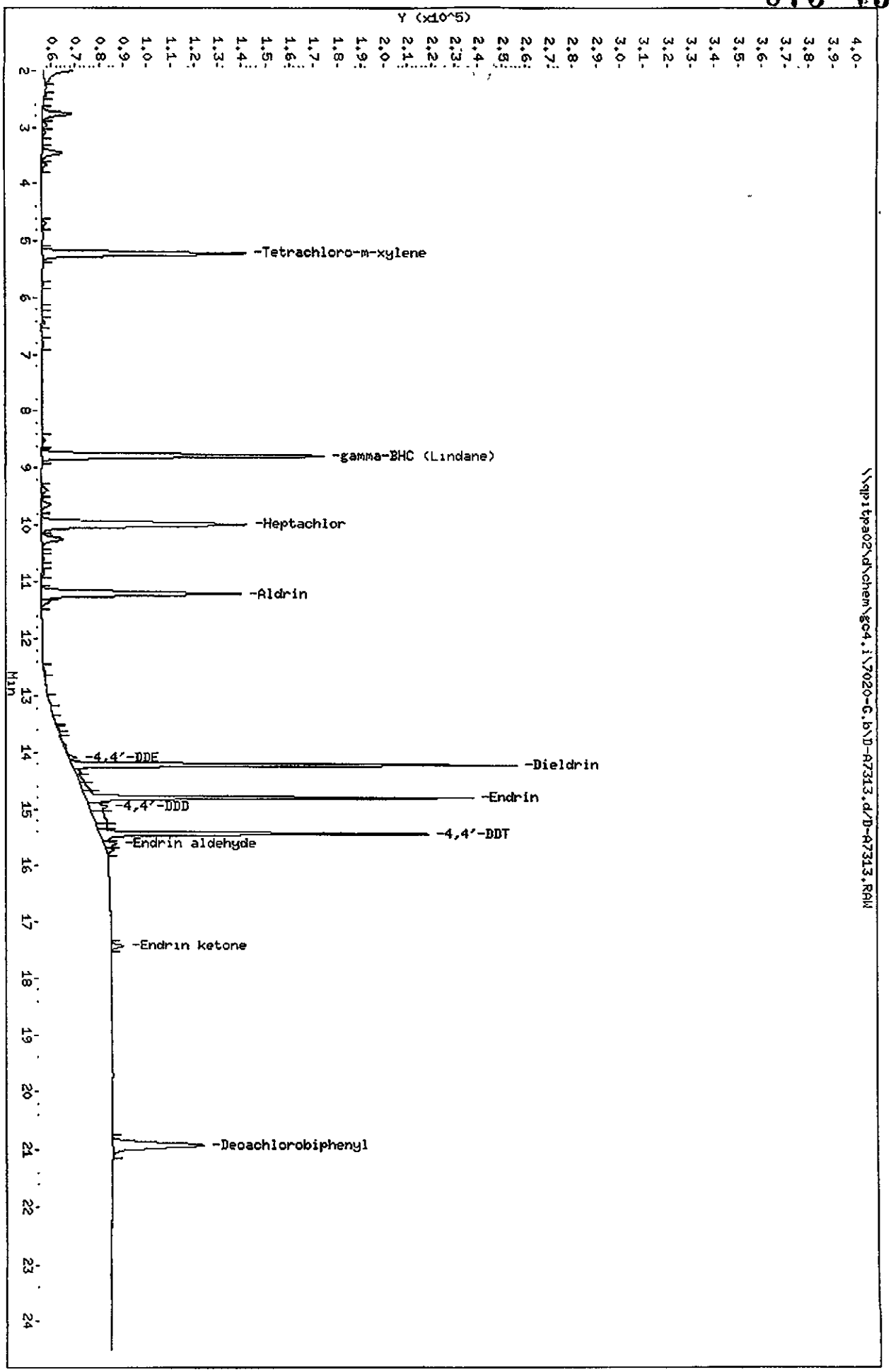
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5.220	5.226	-0.006	85179	0.02014	6 714
5 alpha-BHC	Compound Not Detected					
6 gamma-BHC (Lindane)	8 780	8 786	-0.006	118900	0 02476	8.252
7 beta-BHC	Compound Not Detected.					
9 Chlordane	Compound Not Detected.					
10 Heptachlor	9.986	9.993	-0.007	86668	0 02445	8 151
8 delta-BHC	Compound Not Detected.					
11 Aldrin	11.213	11.213	0.000	84569	0.02443	8.144
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	14.086	14.086	0.000	3011	<0 0	0 2654(a)
17 Dieldrin	14.213	14.213	0.000	187340	0.05065	16.88
20 Endrin	14 793	14.800	-0.007	163624	0.05410	18.03

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7313.d
Report Date: 19-Oct-2000 13:35

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21	4,4'-DDD	14 960	14 953	0.007	7752	0 00267	0 8888(a)
18	Toxaphene	Compound Not Detected.					
22	Endosulfan II	Compound Not Detected.					
23	4,4'-DDT	15 426	15.426	0.000	138471	0.05027	16.76
24	Endrin aldehyde	15.606	15.606	0.000	5293	0 00219	0 7292(a)
26	Endosulfan sulfate	Compound Not Detected.					
25	Methoxychlor	Compound Not Detected.					
27	Endrin ketone	17.433	17.433	0.000	4941	0 00188	0 6275(a)
$ 30	Decachlorobiphenyl	20 920	20.920	0 000	38618	0.02005	6.683

QC Flag Legend

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


Data File: \\qpitpa02\d\chem\gc4.i\7020-C.b\D-A7313.d
Date : 18-OCT-2000 19:26
Client ID: LCS
Sample Info: EM8PWIAC,7020-C.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\7020-C.b\D-A7313.d\D-A7313.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Heptachlor
-Aldrin
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Endrin aldehyde
-Endrin ketone
-Decachlorobiphenyl

673 1501

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM8PW1AC Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.78	8.74	8.84	8.252	
	2	9.41	9.37	9.47	8.145	1.3
Heptachlor	1	9.99	9.94	10.04	8.151	
	2	10.37	10.32	10.42	8.278	1.6
Aldrin	1	11.21	11.16	11.26	8.144	
	2	11.37	11.32	11.42	8.217	0.9
Dieldrin	1	14.21	14.16	14.26	16.88	
	2	14.33	14.28	14.38	16.35	3.2
4,4'-DDE	1	14.09	14.04	14.14	0.2654	
	2	14.07	14.01	14.11	0.1753	51.4
Endrin	1	14.79	14.75	14.85	18.03	
	2	14.66	14.61	14.71	16.84	7.1
4,4'-DDT	1	15.43	15.38	15.48	16.76	
	2	15.48	15.43	15.53	16.41	2.1
Endrin ketone	1	17.43	17.38	17.48	0.6275	
	2	17.42	17.38	17.48	0.6202	1.2

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CE
Dilution factor: 2
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed 10/18/00

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.94	
58-89-9	gamma-BHC (Lindane)	7.94	
50-29-3	4,4'-DDT	60.6	
60-57-1	Dieldrin	44.8	
72-20-8	Endrin	19.0	
76-44-8	Heptachlor	9.05	

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7310.d
Report Date: 19-Oct-2000 13:40

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7310.d
Lab Smp Id: DM6501CE Client Smp ID: DF/S1/0287/TOTALMS
Inj Date : 18-OCT-2000 18:02
Operator : 1891 Inst ID: gc4.i
Smp Info : DM6501CE,7020-G.b,,PEST.sub,2,3,
Misc Info : 140161001S
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5.433	5.440	-0.007	28306	0.00944	6.293
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	9.413	9.420	-0 007	37906	0.01062	7.082
9 Chlordane	Compound Not Detected.					
10 Heptachlor	10.366	10.366	0.000	45513	0.01211	8.071
11 Aldrin	11 373	11.373	0.000	43944	0.01196	7 971
7 beta-BHC	Compound Not Detected.					
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	Compound Not Detected.					
15 Endosulfan I	Compound Not Detected					
13 gamma-Chlordane	13.780	13.780	0.000	5540	0.00131	0 8729(a)
14 alpha-Chlordane	13 886	13 880	0.006	8027	0.00195	1 300(a)
16 4,4'-DDE	14 053	14 060	-0.007	188134	0.04632	30.88
17 Dieldrin	14.333	14.333	0.000	254047	0.05986	39 90(R)
20 Endrin	14.660	14 660	0 000	83212	0.02544	16 96
18 Toxaphene	Compound Not Detected.					

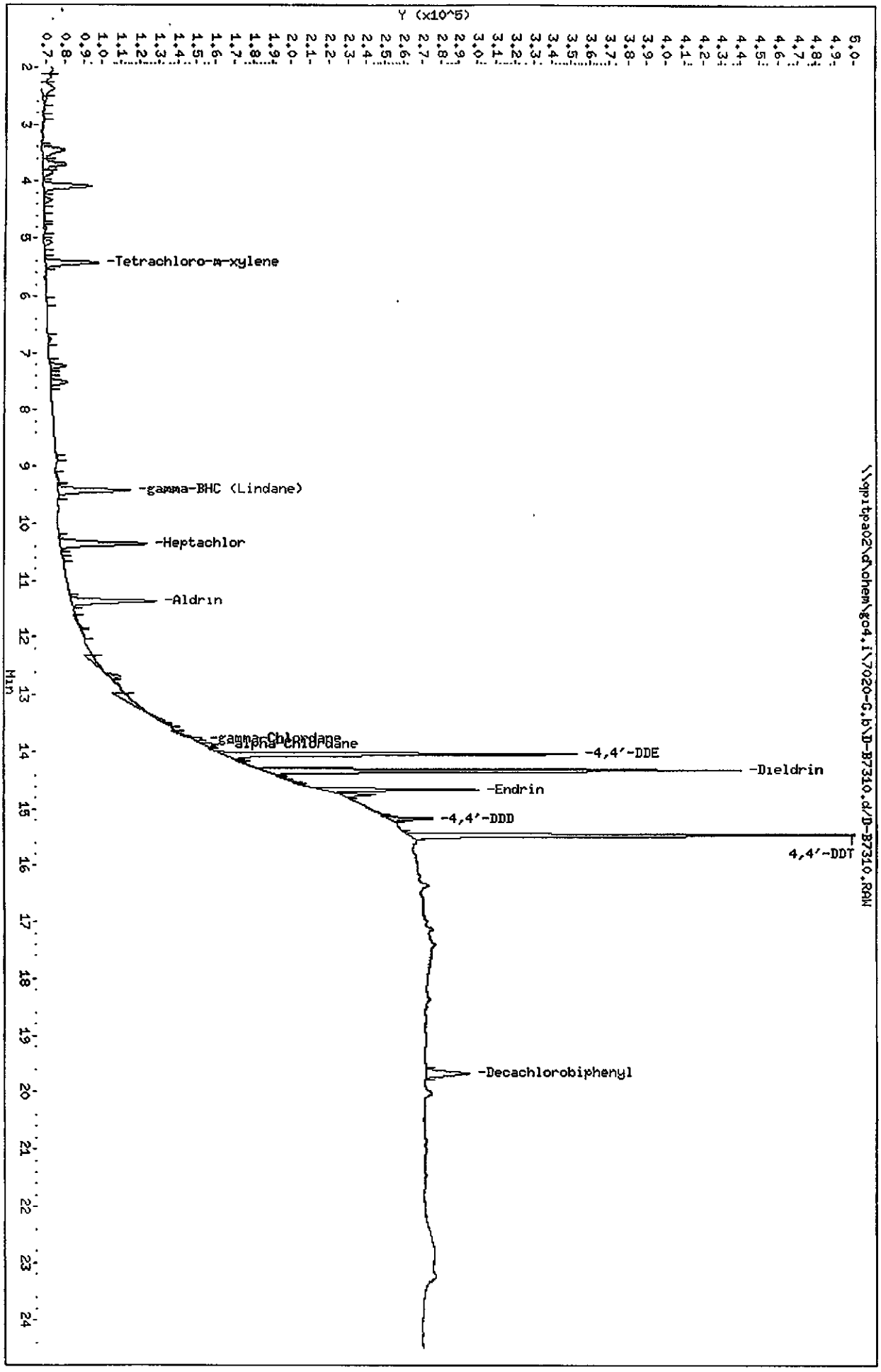
673 1504

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21	4,4'-DDD	15.193	15 193	0.000	22991	0.00798	5.322
22	Endosulfan II	Compound Not Detected					
23	4,4'-DDT	15.473	15.480	-0.007	246665	0.08102	54.01(R)
24	Endrin aldehyde	Compound Not Detected.					
25	Methoxychlor	Compound Not Detected.					
26	Endosulfan sulfate	Compound Not Detected.					
27	Endrin ketone	Compound Not Detected.					
$ 30	Decachlorobiphenyl	19.686	19 686	0.000	23270	0 01071	7.142

QC Flag Legend

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

673 1595


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7310.d
Date : 18-OCT-2000 18:02
Client ID: DF/S1/0287/TOTALHS
Sample Info: DM650ICE,7020-G.b,,PEST.sub,2,3,
Volume Injected (uL): 1.0
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7310.d\D-B7310.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Heptachlor
-Aldrin
-gamma-Chlordane
alpha-Chlordane
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDD
4,4'-DDT
-Decachlorobiphenyl

673 1596

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7310.d
Lab Smp Id: DM6501CE Client Smp ID: DF/S1/0287/TOTALMS
Inj Date : 18-OCT-2000 18:02
Operator : 01891 Inst ID: gc4.i
Smp Info : DM6501CE,7020-G.b,,PEST.sub,2,3,
Misc Info : 140161001S
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

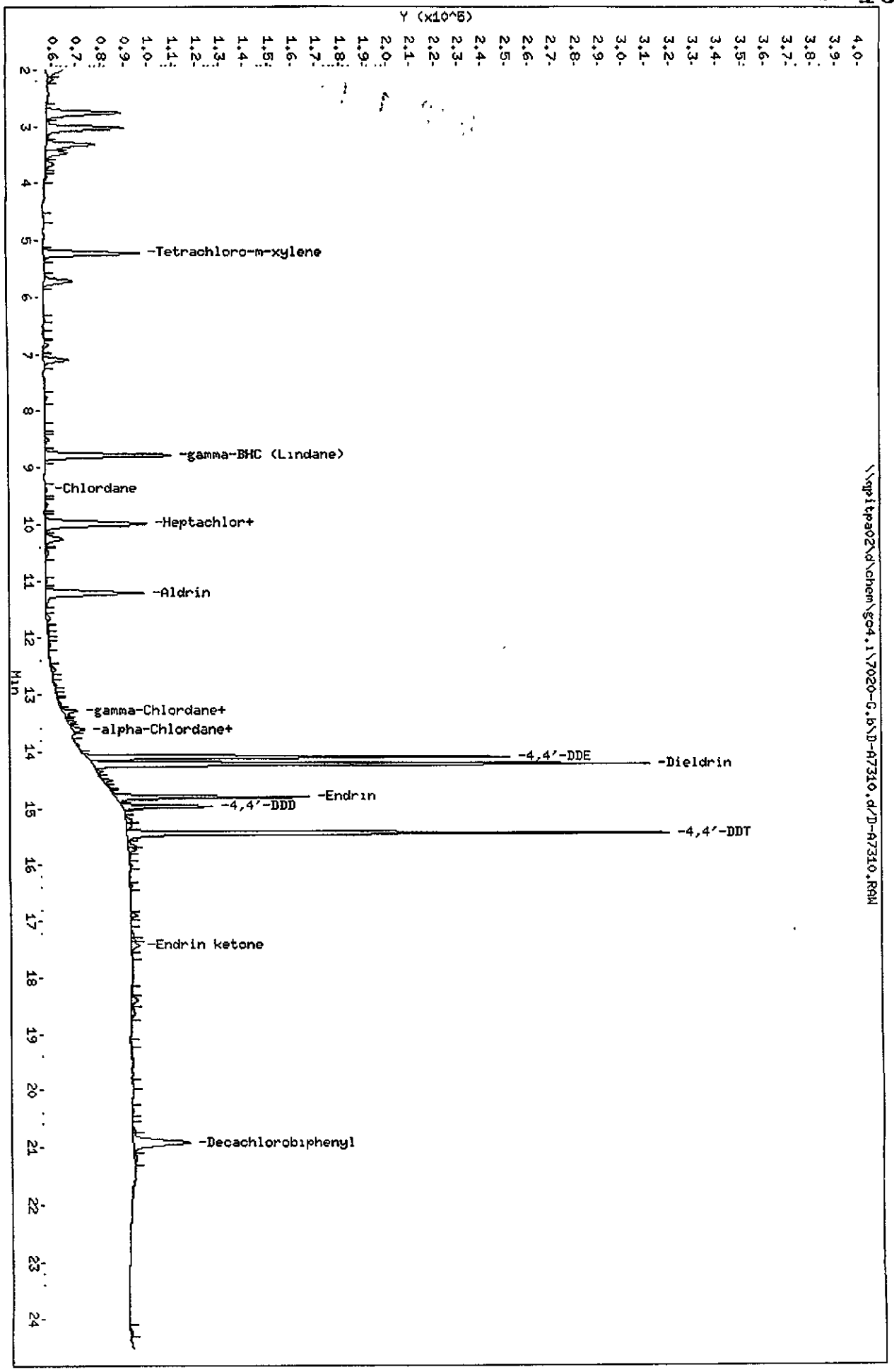
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1	Tetrachloro-m-xylene	5 220	5.226	-0.006	40231	0.00951	6 342
5	alpha-BHC	Compound Not Detected.					
6	gamma-BHC (Lindane)	8.780	8.786	-0.006	53544	0.01115	7 432
7	beta-BHC	Compound Not Detected.					
9	Chlordane	9.386	9 380	0.006	804	0.07607	50.72(a)
10	Heptachlor	9.986	9.993	-0 007	43235	0 01220	8 132
8	delta-BHC	Compound Not Detected.					
11	Aldrin	11.213	11 213	0.000	41639	0.01203	8 020
12	Heptachlor epoxide	Compound Not Detected.					
13	gamma-Chlordane	13.280	13.280	0.000	6226	0 00161	1 076(a)
14	alpha-Chlordane	13.606	13.613	-0.007	5095	0 00132	0 8832(a)
15	Endosulfan I	Compound Not Detected.					
16	4,4'-DDE	14.086	14.086	0.000	178977	0.04733	31.55
17	Dieldrin	14.213	14.213	0.000	235650	0 06371	42 47(R)
20	Endrin	14 793	14 800	-0.007	81510	0 02695	17 97

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7310.d
Report Date: 19-Oct-2000 13:34

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21 4,4'-DDD	14.960	14.953	0 007	38291	0.01317	8 781
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15.426	15.426	0 000	229391	0.08328	55.52(R)
24 Endrin aldehyde	Compound Not Detected					
26 Endosulfan sulfate	Compound Not Detected					
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	17.426	17 433	-0 007	3139	0.00120	0 7973(a)
$ 30 Decachlorobiphenyl	20 913	20.920	-0 007	23576	0.01224	8 160

QC Flag Legend

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


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7310.d
Date : 18-OCT-2000 18:02
Client ID: DF/S1/0287/TOTALMS
Sample Info: DM6501CE,7020-G.b,,PEST.sub,2,3,
Volume Injected (uL): 1.0
Column phase: DB608
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7310.d/D-A7310.RAW
Y (x10^6)
Min
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Chlordane
-Heptachlor+
-Aldrin
-gamma-Chlordane+
-alpha-Chlordane+
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Endrin ketone
-Decachlorobiphenyl

673 1509

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/S1/028
7/TOTALMS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM6501CE Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.78	8.74	8.84	7.432	
	2	9.41	9.37	9.47	7.082	4.9
Heptachlor	1	9.99	9.94	10.04	8.132	
	2	10.37	10.32	10.42	8.071	0.8
Aldrin	1	11.21	11.16	11.26	8.020	
	2	11.37	11.32	11.42	7.971	0.6
Dieldrin	1	14.21	14.16	14.26	42.47	
	2	14.33	14.28	14.38	39.90	6.4
4,4'-DDE	1	14.09	14.04	14.14	31.55	
	2	14.05	14.01	14.11	30.88	2.2
Endrin	1	14.79	14.75	14.85	17.97	
	2	14.66	14.61	14.71	16.96	6.0
4,4'-DDD	1	14.96	14.90	15.00	8.781	
	2	15.19	15.14	15.24	5.322	65.0
4,4'-DDT	1	15.43	15.38	15.48	55.52	
	2	15.47	15.43	15.53	54.01	2.8

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/S1/028
7/TOTALMS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM6501CE Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-Chlordane	1	13.61	13.56	13.66	0.8832	
	2	13.89	13.83	13.93	1.300	47.2
gamma-Chlordane	1	13.28	13.23	13.33	1.076	
	2	13.78	13.73	13.83	0.8729	23.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CF
Dilution factor: 2
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290608

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8.07	
58-89-9	gamma-BHC (Lindane)	6.72	
50-29-3	4,4'-DDT	55.0	a
60-57-1	Dieldrin	40.3	
72-20-8	Endrin	16.8	
76-44-8	Heptachlor	8.18	

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7311.d
Lab Smp Id: DM6501CF Client Smp ID: DF/S1/0287/TOTALMSD
Inj Date : 18-OCT-2000 18:30
Operator : 1891 Inst ID: gc4.i
Smp Info : DM6501CF,7020-G.b,,PEST.sub,2,3,
Misc Info : 140161001D
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTB.m
Meth Date : 19-Oct-2000 13:37 gc Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-B7023.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

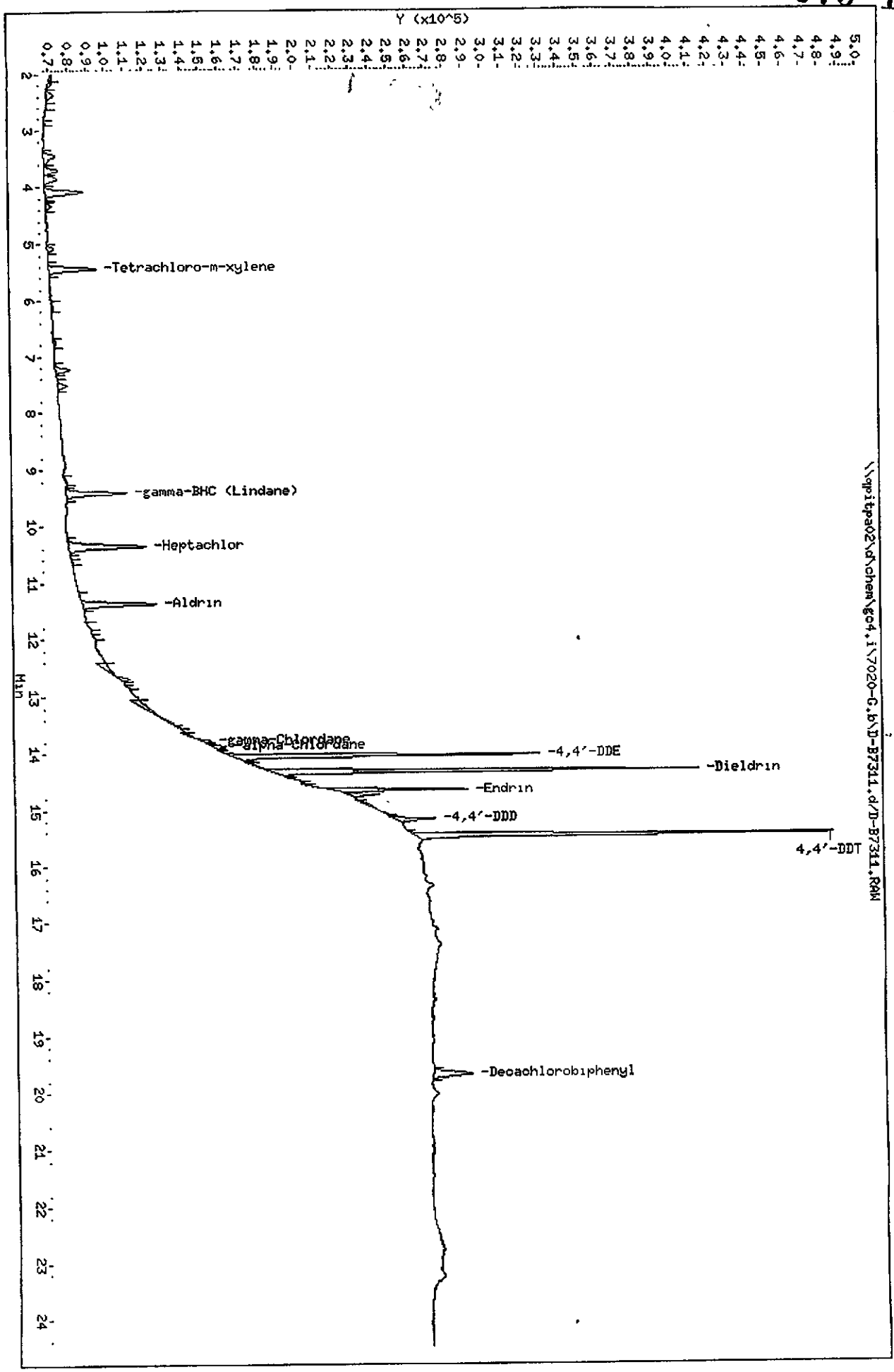
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1 Tetrachloro-m-xylene	5 433	5.440	-0.007	25074	0 00836	5 574
5 alpha-BHC	Compound Not Detected					
6 gamma-BHC (Lindane)	9 413	9.420	-0.007	32063	0.00899	5 991
9 Chlordane	Compound Not Detected.					
10 Heptachlor	10 366	10.366	0.000	41109	0.01094	7 290
11 Aldrin	11.373	11 373	0.000	39678	0.01080	7.197
7 beta-BHC	Compound Not Detected.					
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	Compound Not Detected					
15 Endosulfan I	Compound Not Detected.					
13 gamma-Chlordane	13.780	13 780	0.000	4899	0.00116	0.7719(a)
14 alpha-Chlordane	13.886	13.880	0.006	7309	0.00178	1.184(a)
16 4,4'-DDE	14.053	14.060	-0.007	163456	0.04025	26 83
17 Dieldrin	14 333	14.333	0.000	228417	0.05382	35 88(R)
20 Endrin	14 660	14.660	0.000	73490	0.02247	14.98
18 Toxaphene	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7311.d
Report Date: 19-Oct-2000 13:40

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
21	4,4'-DDD	15.186	15.193	-0.007	21527	0.00747	4.983
22	Endosulfan II	Compound Not Detected.					
23	4,4'-DDT	15.473	15 480	-0.007	223882	0.07354	49 02(R)
24	Endrin aldehyde	Compound Not Detected.					
25	Methoxychlor	Compound Not Detected					
26	Endosulfan sulfate	Compound Not Detected.					
27	Endrin ketone	Compound Not Detected					
$ 30	Decachlorobiphenyl	19.686	19.686	0.000	20908	0.00963	6.417

QC Flag Legend

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


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7311.d
Date : 18-OCT-2000 18:30
Client ID: DF/SA/0287/TOTALMSD
Sample Info: DM6501CF,7020-G.b,,PEST,sub,2,3,
Volume Injected (uL): 1.0
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Heptachlor
-Aldrin
-gamma-Chlordane
alpha-Chlordane
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDD
4,4'-DDT
-Decachlorobiphenyl
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-B7311.d\D-B7311.RAW

Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7311.d
Report Date: 19-Oct-2000 13:35

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7311.d
Lab Smp Id: DM6501CF Client Smp ID: DF/S1/0287/TOTALMSD
Inj Date : 18-OCT-2000 18:30
Operator : 01891 Inst ID: gc4.i
Smp Info : DM6501CF,7020-G.b,,PEST.sub,2,3,
Misc Info : 140161001D
Comment :
Method : \\qpitpa02\d\chem\gc4.i\7020-G.b\PESTA.m
Meth Date : 19-Oct-2000 13:24 matkol Quant Type: ESTD
Cal Date : 02-OCT-2000 19:13 Cal File: D-A7023.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws)

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

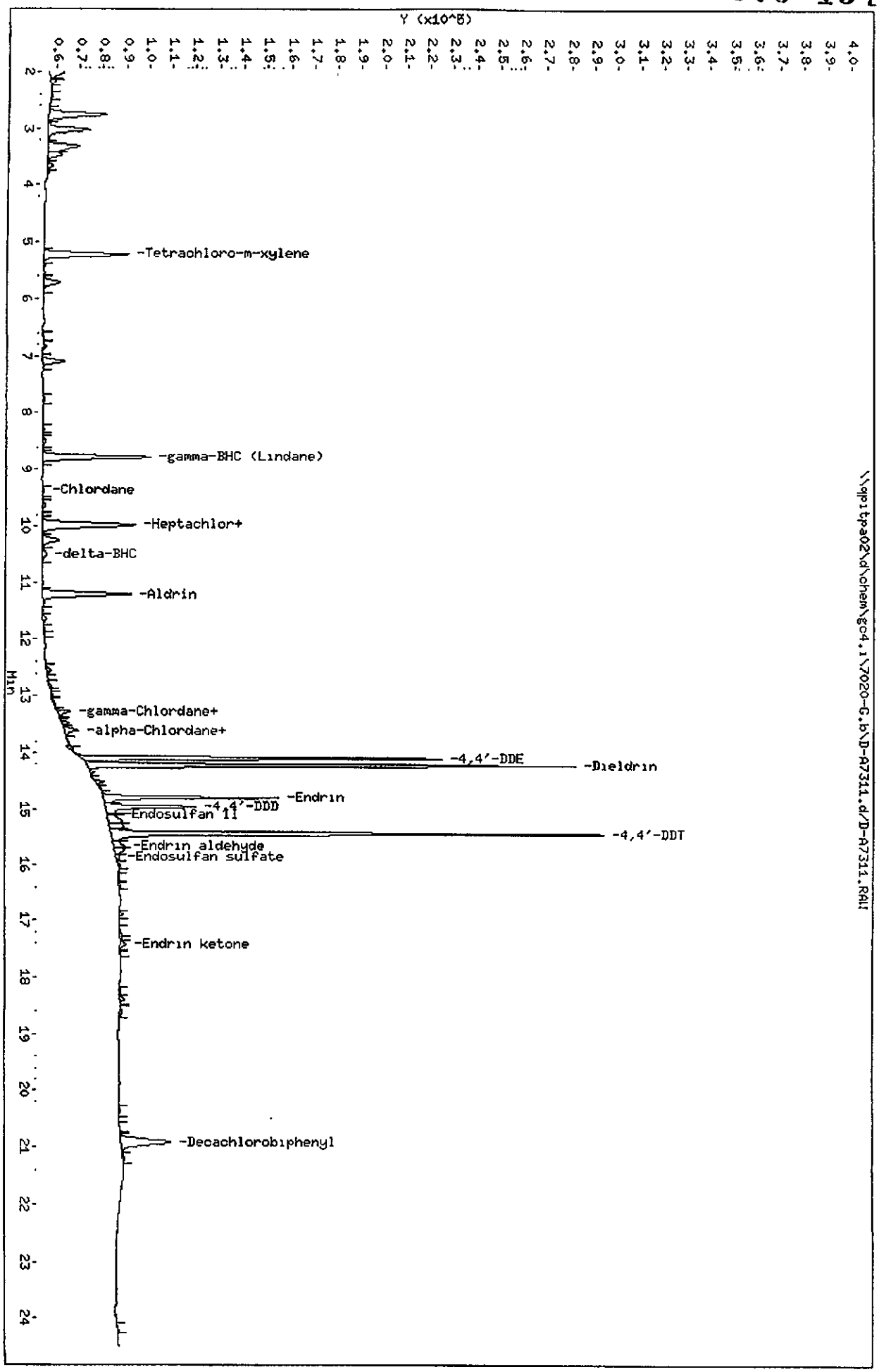
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1	Tetrachloro-m-xylene	5.220	5.226	-0 006	35674	0 00844	5 624
5	alpha-BHC	Compound Not Detected.					
6	gamma-BHC (Lindane)	8.780	8.786	-0 006	45627	0 00950	6.333
7	beta-BHC	Compound Not Detected.					
9	Chlordane	9 386	9.380	0.006	823	0.07017	46 78(a)
10	Heptachlor	9 986	9.993	-0.007	39347	0.01110	7 401
8	delta-BHC	10 500	10.466	0.034	1804	<0.0	0.2842(a)
11	Aldrin	11.213	11.213	0.000	37713	0.01090	7.264
12	Heptachlor epoxide	Compound Not Detected					
13	gamma-Chlordane	13 280	13.280	0 000	5644	0 00146	0.9754(a)
14	alpha-Chlordane	13.606	13.613	-0.007	5735	0.00149	0 9942(a)
15	Endosulfan I	Compound Not Detected					
16	4,4'-DDE	14 086	14.086	0 000	153559	0.04060	27 07
17	Dieldrin	14.213	14.213	0.000	207333	0 05605	37 37(R)
20	Endrin	14.793	14 800	-0.007	74005	0 02447	16 31

673 1516

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
	21 4,4'-DDD	14.960	14 953	0.007	38367	0.01320	8 798
	18 Toxaphene	Compound Not Detected.					
	22 Endosulfan II	15.106	15 073	0.033	3812	0.00117	0 7816(a)
	23 4,4'-DDT	15.426	15 426	0 000	209314	0.07599	50.66(R)
	24 Endrin aldehyde	15.653	15.606	0 047	4527	0.00187	1.247(a)
	26 Endosulfan sulfate	15.846	15 826	0.020	1689	<0 0	0.4556(a)
	25 Methoxychlor	Compound Not Detected.					
	27 Endrin ketone	17.426	17.433	-0.007	2445	<0.0	0 6211(a)
$	30 Decachlorobiphenyl	20 913	20.920	-0 007	21421	0 01112	7.414

QC Flag Legend

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


Data File: \\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7311.d
Date : 18-OCT-2000 18:30
Client ID: DF/SA/0287/TOTALNSD
Sample Info: DN6501CF,7020-G.b,,PEST,sub,2,3,
Volume Injected (uL): 1.0
Column phase: DB608
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53
Y (x10^6)
Min
\\qpitpa02\d\chem\gc4.i\7020-G.b\D-A7311.d/D-A7311.RAW
-Tetrachloro-m-xylene
-gamma-BHC (Lindane)
-Chlordane
-Heptachlor+
-delta-BHC
-Aldrin
-gamma-Chlordane+
-alpha-Chlordane+
-4,4'-DDE
-Dieldrin
-Endrin
-4,4'-DDD
Endosulfan II
-4,4'-DDT
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone
-Decachlorobiphenyl

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/S1/028
7/TOTALMSD

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM6501CF Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	8.78	8.74	8.84	6.333	
	2	9.41	9.37	9.47	5.991	5.7
Heptachlor	1	9.99	9.94	10.04	7.401	
	2	10.37	10.32	10.42	7.290	1.5
Aldrin	1	11.21	11.16	11.26	7.264	
	2	11.37	11.32	11.42	7.197	0.9
Dieldrin	1	14.21	14.16	14.26	37.37	
	2	14.33	14.28	14.38	35.88	4.2
4,4'-DDE	1	14.09	14.04	14.14	27.07	
	2	14.05	14.01	14.11	26.83	0.9
Endrin	1	14.79	14.75	14.85	16.31	
	2	14.66	14.61	14.71	14.98	8.9
4,4'-DDD	1	14.96	14.90	15.00	8.798	
	2	15.19	15.14	15.24	4.983	76.6
4,4'-DDT	1	15.43	15.38	15.48	50.66	
	2	15.47	15.43	15.53	49.02	3.3

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/S1/028
7/TOTALMSD

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

Lab Sample ID: DM6501CF Date(s) Analyzed: 10/18/00 10/18/00

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 FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-Chlordane	1	13.61	13.56	13.66	0.9942	
	2	13.89	13.83	13.93	1.184	19.1
gamma-Chlordane	1	13.28	13.23	13.33	0.9754	
	2	13.78	13.73	13.83	0.7719	26.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

673 1520

PESTICIDE
MISCELLANEOUS

FLORISIL/TBA CLEANUP
JD 10/18/00

673 1521

STL - Pittsburgh Pest B#0290608 PCB B#0290610 Pest/PCB Sonication Extraction Worksheet

Loghook ID: OP4

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
10-16-00	10-18-00	8081A/8082	3550B	MeCl/Acetone	T23272/T24596	Baker/Mallinckrodt	NA

	Lot Number	Sample ID	Client ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	C0J140161	BLK	NA	30.0g	10.0	190-103-7	1.0ml	NA	NA	NA
2.		LCS		30.0g				190-98-4	0.5ml	
3		001MS		30.0g						
4.		001MSD		30.0g						
5.		LCS		30.0g				190-103-4	1.0ml	
6		001MS		30.0g						
7		001MSD		30.0g						
8.		001		30.0g	10.0			NA	NA	
9.										
10.										
11.										
12.										
13										
14										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
Analyst	B.P.	B.P.	B.P	B.P.	KG	B.P	B.P.	B.P.	B.P.	B.P.

B.P. 10-16-00

Extract(s) (record line # from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	10-16-00	2030	Brian A. Pierce	Org. Prep	10-16-00	2040	Brian A. Pierce	REFIGEXT
All Above	10.18.00	0400	Ken Dubay	Ref 12 Ext	10.18.00	0800	Ken Dubay	Ref 1-GC
ALL ABOVE	10/18/00	0915	J. DERUBEIS	RF 1GC	10/18/00	0930	J. DERUBEIS	RF 1GC

Sodium Sulfate Mfg/Lot Number: Baker/T24596

Reviewed by: Ken Dubay

Date: 10.18.00

673 1522

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7020-G.SEQ
Created by : DE11/02/98 on : 10/3/00 13:13
Edited by : LM10/02/00 on : 10/4/00 13:32
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

G
7020G.PDF

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 153
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,7020-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,7020-G.b	190-98-12		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWA,7020-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA,7020-G.b,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1 000	1.000	1.000	0 000	100.000
7	Cal.Replace	MHIGHA,7020-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA,7020-G.b,	190-100-10		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB,7020-G.b,,	190-100-12		1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
10	Cal:Replace	MLOWB,7020-G.b,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB,7020-G.b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB,7020-G.b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A,7020-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,7020-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,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DL2Q2104,7020-G	260208-1		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
18	Sample	DL2RC104,7020-G	260208-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DL2RF104,7020-G	260208-3		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DL2RG104,7020-G	260208-4		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DL2RK104,7020-G	260208-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DL2RM104,7020-G	260208-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DL2RN108,7020-G	260208-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DL2RN109,7020-G	260208-7S		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
25	Sample	DL2RN10A,7020-G	260208-7D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DL2RP104,7020-G	260208-8		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DL2RT104,7020-G	260208-9		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	~~DL41Q104,7020-G~~	~~270130-1~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DL429104,7020-G	270130-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DL42C104,7020-G	270130-3		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
31	Sample	~~DL42F104,7020-G~~	~~270130-4~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DL42K108,7020-G	270130-5		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DL42M104,7020-G	270130-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DL1MH103,7020-G	260101001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DL85E101,7020-G	260208BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DL85E102,7020-G	260208LCS		1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
37	Std Check	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
38	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB,7020-G.b,	190-88-8		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DL1ML107,7020-G	260101002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DL1ML108,7020-G	260101002S		1 000	1 000	1.000	1 000	1.000	1.000	0 000	100.000
42	Sample	DL1ML109,7020-G	260101002D		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
43	Sample	DL1MM103,7020-G	260101003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DL1MP103,7020-G	260101004		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
45	Sample	DL1MQ103,7020-G	260101005		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
46	Sample	DL3MM103,7020-G	270101001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DL3MN103,7020-G	270101002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
48	Sample	DL3MP103,7020-G	270101003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DL3MQ103,7020-G	270101004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DL3MR103,7020-G	270101005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DL3MT103,7020-G	270101006		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
52	Sample	DL59K103,7020-G	270264001		1.000	1 000	1.000	1.000	1.000	1 000	0.000	100.000
53	Sample	DL66Q103,7020-G	280101001		1.000	1.000	1.000	1.000	1.000	1 000	0 000	100 000
54	Sample	DL66X103,7020-G	280101002		1 000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
55	Sample	DL670103,7020-G	280101003		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
56	Sample	DL671103,7020-G	280101004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
57	Sample	DL672103,7020-G	280101005		1 000	1.000	1 000	1.000	1.000	1.000	0 000	100.000
58	Sample	DLC4M101,7020-G	260101BLK		1.000	1 000	1.000	1.000	1.000	1 000	0.000	100.000
59	Sample	DLC4M102,7020-G	260101LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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60	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1 000	0 000	100.000
61	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB,7020-G.b,	190-88-8	1 000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
63	Sample	DL673103,7020-G	280101006	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
64	Sample	DL41Q104,7020-G	270130-1	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DL42F104,7020-G	270130-4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DL45K104,7020-G	270146001	1.000	1.000	1 000	1.000	1 000	1.000	0.000	100 000
67	Sample	DL46E104,7020-G	270146002	1.000	1 000	1.000	1.000	1 000	1.000	0 000	100 000
68	Sample	DL46G104,7020-G	270146003	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
69	Sample	DL46J108,7020-G	270146004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DL46J109,7020-G	270146004S	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
71	Sample	DL46J10A,7020-G	270146004D	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
72	Sample	DL46W104,7020-G	270146005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Sample	DL474104,7020-G	270146006	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Sample	DL47E104,7020-G	270146007	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
75	Sample	DL47G104,7020-G	270146008	1.000	1.000	1.000	1 000	1.000	1 000	0.000	100.000
76	Sample	DL47J104,7020-G	270146009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	DL47L104,7020-G	270146010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
78	Sample	DL47Q104,7020-G	270146011	1.000	1 000	1.000	1.000	1.000	1 000	0.000	100 000
79	Sample	DL47T104,7020-G	270146012	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	DL788104,7020-G	280200001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DLC2F101,7020-G	270146BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DLC2F102,7020-G	270146LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
85	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
86	Sample	DL79N104,7020-G	280200002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Sample	DL79Q104,7020-G	280200003	1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
88	Sample	DL7A2104,7020-G	280200004	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Sample	DL7A6104,7020-G	280200005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Sample	DL7A9104,7020-G	280200006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91	Sample	DL7AD104,7020-G	280200007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
92	Sample	DL7AT104,7020-G	280200008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
93	Sample	DKWE0114,7020-G	220289001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
94	Sample	DKWE011A,7020-G	220289001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
95	Sample	DKWE011C,7020-G	220289001D	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
96	Sample	DKWE6114,7020-G	220289002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Sample	DKRKG10N,7020-G	210229001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
98	Sample	DL1HM101,7020-G	220289BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DL1HM102,7020-G	220289LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DKRKG102,7020-G	210229001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
101	Sample	DKRKG11M,7020-G	210229001S	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
102	Sample	DKRKG11N,7020-G	210229001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	DKVTQ102,7020-G	220233001	1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
104	Sample	DLGN9101,7020-G	210229BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
105	Sample	DLGN9102,7020-G	210229LCS	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
106	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DL6LV104,7020-G	280138-1	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
110	Sample	DL6M0104,7020-G	280138-2	1 000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
111	Sample	DL7XC105,7020-G	280265001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
112	Sample	DL90T105,7020-G	290146001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
113	Sample	DLCQF104,7020-G	300132001	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
114	Sample	DLCQH104,7020-G	300132002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	Sample	DLCQJ10A,7020-G	300132003	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
116	Sample	DLCQJ10C,7020-G	300132003S	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
117	Sample	DLCQJ10D,7020-G	300132003D	1.000	1 000	1.000	1 000	1.000	1.000	0.000	100.000
118	Sample	DLCQK104,7020-G	300132004	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100 000
119	Sample	DLCQM104,7020-G	300132005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Sample	DLCQN104,7020-G	300132006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	DLCQP104,7020-G	300132007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DLCQQ104,7020-G	300132008	1.000	1.000	1.000	1 000	1.000	1 000	0.000	100.000
123	Sample	DLCQT104,7020-G	300132010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DLGN4101,7020-G	300132BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DLGN4102,7020-G	300132LCS	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100 000
126	Sample	DLDDE101,7020-G	280206BLK	1.000	1 000	1.000	1.000	1 000	1.000	0 000	100.000
127	Sample	DLDDE102,7020-G	280206LCS	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
128	Sample	DLDDE103,7020-G	280206LCD	1 000	1 000	1 000	1.000	1.000	1.000	0 000	100.000
129	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
130	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DL79W103,7020-G	280206001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
133	Sample	DL7A3103,7020-G	280206002	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100 000
134	Sample	DL7E0103,7020-G	280219001	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100 000
135	Sample	DL7E8103,7020-G	280219002	1.000	1 000	1.000	1 000	1.000	1.000	0.000	100.000
136	Sample	DL7E9103,7020-G	280219003	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100 000
137	Sample	DL7EC103,7020-G	280219004	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
138	Sample	DLA4K104,7020-G	290257001	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
139	Sample	DLA4W104,7020-G	290257002	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
140	Sample	DLA51104,7020-G	290257003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
141	Sample	DLA54104,7020-G	290257004	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
142	Sample	DLA56104,7020-G	290257005	1.000	1 000	1 000	1.000	1.000	1.000	0.000	100.000
143	Sample	DLA5C104,7020-G	290257006	1.000	1.000	1 000	1 000	1 000	1 000	0.000	100.000
144	Sample	DL8XK101,7020-G	290138001	1.000	1 000	1 000	1.000	1.000	1.000	0.000	100.000
145	Sample	DLEHE101,7020-G	290138BLK	1.000	1.000	1.000	1 000	1.000	1.000	0 000	100.000
146	Sample	DLEHE102,7020-G	290138LCS	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000

147	Sample	DLEHE103,7020-G	290138LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
148	Sample	DKWED102,7020-G	220289004	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
149	Sample	DL1KX101,7020-G	220289BLK	1.000	1 000	1.000	1 000	1.000	1.000	0.000	100.000
150	Sample	DL1KX102,7020-G	220289LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
151	Sample	DL1KX103,7020-G	220289LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
152	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
153	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7011	D-A7011		D-A7011	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7012	D-A7012		D-A7012	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7013	D-A7013		D-A7013	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A7014	D-A7014		D-A7014	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A7015	D-A7015		D-A7015	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7016	D-A7016		D-A7016	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A7017	D-A7017		D-A7017	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A7018	D-A7018		D-A7018	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A7019	D-A7019		D-A7019	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A7020	D-A7020		D-A7020	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7021	D-A7021		D-A7021	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A7022	D-A7022		D-A7022	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A7023	D-A7023		D-A7023	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A7024	D-A7024		D-A7024	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A7025	D-A7025		D-A7025	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7026	D-A7026		D-A7026	-	-	-	LPT1:
17	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7027	D-A7027		D-A7027	-	-	-	LPT1:,LP
18	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7028	D-A7028		D-A7028	-	-	-	LPT1:,LP
19	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7029	D-A7029		D-A7029	-	-	-	LPT1:,LP
20	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7030	D-A7030		D-A7030	-	-	-	LPT1:,LP
21	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7031	D-A7031		D-A7031	-	-	-	LPT1:,LP
22	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7032	D-A7032		D-A7032	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7033	D-A7033		D-A7033	-	-	-	LPT1:,LP
24	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7034	D-A7034		D-A7034	-	-	-	LPT1:,LP
25	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7035	D-A7035		D-A7035	-	-	-	LPT1:,LP
26	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7036	D-A7036		D-A7036	-	-	-	LPT1:,LP
27	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7037	D-A7037		D-A7037	-	-	-	LPT1:,LP
28	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7038	D-A7038		D-A7038	-	-	-	LPT1:,LP
29	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7039	D-A7039		D-A7039	-	-	-	LPT1:,LP
30	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7040	D-A7040		D-A7040	-	-	-	LPT1:,LP
31	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7041	D-A7041		D-A7041	-	-	-	LPT1:,LP
32	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7042	D-A7042		D-A7042	-	-	-	LPT1:,LP
33	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7043	D-A7043		D-A7043	-	-	-	LPT1:,LP
34	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7044	D-A7044		D-A7044	-	-	-	LPT1:,LP
35	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7045	D-A7045		D-A7045	-	-	-	LPT1:,LP
36	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7046	D-A7046		D-A7046	-	-	-	LPT1:,LP
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7047	D-A7047		D-A7047	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7048	D-A7048		D-A7048	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7049	D-A7049		D-A7049	-	-	-	LPT1:
40	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7050	D-A7050		D-A7050	-	-	-	LPT1:,LP
41	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7051	D-A7051		D-A7051	-	-	-	LPT1:,LP
42	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7052	D-A7052		D-A7052	-	-	-	LPT1:,LP
43	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7053	D-A7053		D-A7053	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7054	D-A7054		D-A7054	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7055	D-A7055		D-A7055	-	-	-	LPT1:,LP
46	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7056	D-A7056		D-A7056	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7057	D-A7057		D-A7057	-	-	-	LPT1:,LP
48	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7058	D-A7058		D-A7058	-	-	-	LPT1:,LP
49	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7059	D-A7059		D-A7059	-	-	-	LPT1:,LP
50	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7060	D-A7060		D-A7060	-	-	-	LPT1:,LP
51	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7061	D-A7061		D-A7061	-	-	-	LPT1:,LP
52	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7062	D-A7062		D-A7062	-	-	-	LPT1:,LP
53	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7063	D-A7063		D-A7063	-	-	-	LPT1:,LP
54	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7064	D-A7064		D-A7064	-	-	-	LPT1:,LP
55	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7065	D-A7065		D-A7065	-	-	-	LPT1:,LP
56	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7066	D-A7066		D-A7066	-	-	-	LPT1:,LP
57	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7067	D-A7067		D-A7067	-	-	-	LPT1:,LP
58	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7068	D-A7068		D-A7068	-	-	-	LPT1:,LP
59	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7069	D-A7069		D-A7069	-	-	-	LPT1:,LP
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7070	D-A7070		D-A7070	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7071	D-A7071		D-A7071	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7072	D-A7072		D-A7072	-	-	-	LPT1:
63	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7073	D-A7073		D-A7073	-	-	-	LPT1:,LP
64	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7074	D-A7074		D-A7074	-	-	-	LPT1:,LP
65	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7075	D-A7075		D-A7075	-	-	-	LPT1:,LP
66	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7076	D-A7076		D-A7076	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7077	D-A7077		D-A7077	-	-	-	LPT1:,LP
68	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7078	D-A7078		D-A7078	-	-	-	LPT1:,LP
69	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7079	D-A7079		D-A7079	-	-	-	LPT1:,LP
70	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7080	D-A7080		D-A7080	-	-	-	LPT1:,LP
71	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7081	D-A7081		D-A7081	-	-	-	LPT1:,LP
72	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7082	D-A7082		D-A7082	-	-	-	LPT1:,LP
73	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7083	D-A7083		D-A7083	-	-	-	LPT1:,LP

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74	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7084	D-A7084	D-A7084	-	-	-	LPT1:,LP
75	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7085	D-A7085	D-A7085	-	-	-	LPT1:,LP
76	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7086	D-A7086	D-A7086	-	-	-	LPT1:,LP
77	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7087	D-A7087	D-A7087	-	-	-	LPT1:,LP
78	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7088	D-A7088	D-A7088	-	-	-	LPT1:,LP
79	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7089	D-A7089	D-A7089	-	-	-	LPT1:,LP
80	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7090	D-A7090	D-A7090	-	-	-	LPT1:,LP
81	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7091	D-A7091	D-A7091	-	-	-	LPT1:,LP
82	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7092	D-A7092	D-A7092	-	-	-	LPT1:,LP
83	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7093	D-A7093	D-A7093	-	-	-	LPT1:
84	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7094	D-A7094	D-A7094	-	-	-	LPT1:
85	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7095	D-A7095	D-A7095	-	-	-	LPT1:
86	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7096	D-A7096	D-A7096	-	-	-	LPT1:,LP
87	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7097	D-A7097	D-A7097	-	-	-	LPT1:,LP
88	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7098	D-A7098	D-A7098	-	-	-	LPT1:,LP
89	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7099	D-A7099	D-A7099	-	-	-	LPT1:,LP
90	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7100	D-A7100	D-A7100	-	-	-	LPT1:,LP
91	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7101	D-A7101	D-A7101	-	-	-	LPT1:,LP
92	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7102	D-A7102	D-A7102	-	-	-	LPT1:,LP
93	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7103	D-A7103	D-A7103	-	-	-	LPT1:,LP
94	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7104	D-A7104	D-A7104	-	-	-	LPT1:,LP
95	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7105	D-A7105	D-A7105	-	-	-	LPT1:,LP
96	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7106	D-A7106	D-A7106	-	-	-	LPT1:,LP
97	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7107	D-A7107	D-A7107	-	-	-	LPT1:,LP
98	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7108	D-A7108	D-A7108	-	-	-	LPT1:,LP
99	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7109	D-A7109	D-A7109	-	-	-	LPT1:,LP
100	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7110	D-A7110	D-A7110	-	-	-	LPT1:,LP
101	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7111	D-A7111	D-A7111	-	-	-	LPT1:,LP
102	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7112	D-A7112	D-A7112	-	-	-	LPT1:,LP
103	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7113	D-A7113	D-A7113	-	-	-	LPT1:,LP
104	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7114	D-A7114	D-A7114	-	-	-	LPT1:,LP
105	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7115	D-A7115	D-A7115	-	-	-	LPT1:,LP
106	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7116	D-A7116	D-A7116	-	-	-	LPT1:
107	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7117	D-A7117	D-A7117	-	-	-	LPT1:
108	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7118	D-A7118	D-A7118	-	-	-	LPT1:
109	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7119	D-A7119	D-A7119	-	-	-	LPT1:,LP
110	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7120	D-A7120	D-A7120	-	-	-	LPT1:,LP
111	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7121	D-A7121	D-A7121	-	-	-	LPT1:,LP
112	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7122	D-A7122	D-A7122	-	-	-	LPT1:,LP
113	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7123	D-A7123	D-A7123	-	-	-	LPT1:,LP
114	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7124	D-A7124	D-A7124	-	-	-	LPT1:,LP
115	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7125	D-A7125	D-A7125	-	-	-	LPT1:,LP
116	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7126	D-A7126	D-A7126	-	-	-	LPT1:,LP
117	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7127	D-A7127	D-A7127	-	-	-	LPT1:,LP
118	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7128	D-A7128	D-A7128	-	-	-	LPT1:,LP
119	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7129	D-A7129	D-A7129	-	-	-	LPT1:,LP
120	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7130	D-A7130	D-A7130	-	-	-	LPT1:,LP
121	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7131	D-A7131	D-A7131	-	-	-	LPT1:,LP
122	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7132	D-A7132	D-A7132	-	-	-	LPT1:,LP
123	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7133	D-A7133	D-A7133	-	-	-	LPT1:,LP
124	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7134	D-A7134	D-A7134	-	-	-	LPT1:,LP
125	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7135	D-A7135	D-A7135	-	-	-	LPT1:,LP
126	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7136	D-A7136	D-A7136	-	-	-	LPT1:,LP
127	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7137	D-A7137	D-A7137	-	-	-	LPT1:,LP
128	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7138	D-A7138	D-A7138	-	-	-	LPT1:,LP
129	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7139	D-A7139	D-A7139	-	-	-	LPT1:
130	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7140	D-A7140	D-A7140	-	-	-	LPT1:
131	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7141	D-A7141	D-A7141	-	-	-	LPT1:
132	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7142	D-A7142	D-A7142	-	-	-	LPT1:,LP
133	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7143	D-A7143	D-A7143	-	-	-	LPT1:,LP
134	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7144	D-A7144	D-A7144	-	-	-	LPT1:,LP
135	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7145	D-A7145	D-A7145	-	-	-	LPT1 ,LP
136	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7146	D-A7146	D-A7146	-	-	-	LPT1:,LP
137	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7147	D-A7147	D-A7147	-	-	-	LPT1 ,LP
138	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7148	D-A7148	D-A7148	-	-	-	LPT1:,LP
139	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7149	D-A7149	D-A7149	-	-	-	LPT1 ,LP
140	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7150	D-A7150	D-A7150	-	-	-	LPT1:,LP
141	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7151	D-A7151	D-A7151	-	-	-	LPT1:,LP
142	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7152	D-A7152	D-A7152	-	-	-	LPT1:,LP
143	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7153	D-A7153	D-A7153	-	-	-	LPT1:,LP
144	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7154	D-A7154	D-A7154	-	-	-	LPT1:,LP
145	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7155	D-A7155	D-A7155	-	-	-	LPT1:,LP
146	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7156	D-A7156	D-A7156	-	-	-	LPT1:,LP
147	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7157	D-A7157	D-A7157	-	-	-	LPT1:,LP
148	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7158	D-A7158	D-A7158	-	-	-	LPT1:,LP
149	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7159	D-A7159	D-A7159	-	-	-	LPT1:,LP
150	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7160	D-A7160	D-A7160	-	-	-	LPT1:,LP
151	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7161	D-A7161	D-A7161	-	-	-	LPT1:,LP
152	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7162	D-A7162	D-A7162	-	-	-	LPT1:
153	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7163	D-A7163	D-A7163	-	-	-	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7180-G.SEQ
Created by : DE11/02/98 on : 10/18/00 12:16
Edited by : LM10/18/00 on : 10/19/00 12:03
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

673 1596

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Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 70
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,7020-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,7020-G.b	190-98-12		1.000	1.000	1.000	1.000	1.000	1 000	0.000	100 000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
4	Std Check	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DL7AE104,7020-G	280208001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DL7AJ104,7020-G	280208002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DL7AK104,7020-G	280208003		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
9	Sample	DL7AN104,7020-G	280208004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DL7CW104,7020-G	280215001		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	DL7CW10X,7020-G	280215001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	DL7CW110,7020-G	280215001D		1 000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
13	Sample	DM6501AE,7020-G	140161001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DM6501CE,7020-G	140161001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DM6501CF,7020-G	140161001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DM8PW1AA,7020-G	1401.1BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DM8PW1AC,7020-G	140161LCS		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
18	Sample	DLH89106,7020-G	040145002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DLH8912A,7020-G	040145002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
20	Sample	DLH8912C,7020-G	040145002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DNATA1AA,7020-G	040145BLK		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
22	Sample	DNATA1AC,7020-G	040145LCS		1 000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
23	Sample	DLF9K104,7020-G	030135001		1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
24	Sample	DLW3A101,7020-G	030135BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DLW3A102,7020-G	030135LCS		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
26	Std Check	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
27	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DLF9P104,7020-G	030135002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DLF9Q104,7020-G	030135003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
31	Sample	DLF9V108,7020-G	030135004		1.000	1.000	1.000	1.000	1 000	1 000	0.000	100.000
32	Sample	DLF9V109,7020-G	030135004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DLF9V10A,7020-G	030135004D		1 000	1.000	1 000	1.000	1.000	1 000	0.000	100.000
34	Sample	DLHJ1104,7020-G	040185001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DLHJA104,7020-G	040185002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DLKRA104,7020-G	050202001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DLKRF104,7020-G	050202002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DLKRG104,7020-G	050202003		1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DLKRJ104,7020-G	050202004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
40	Sample	DLKRM104,7020-G	050202005		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
41	Sample	DLKRP104,7020-G	050202006		1.000	1.000	1.000	1.000	1 000	1 000	0 000	100.000
42	Sample	DLKRP116,7020-G	050202006S		1.000	1.000	1 000	1 000	1.000	1 000	0 000	100.000
43	Sample	DLKRP117,7020-G	050202006D		1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
44	Sample	DLP6E104,7020-G	060292001		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100 000
45	Sample	DLP7C104,7020-G	060292002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DLP7G104,7020-G	060292003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DLP7H104,7020-G	060 2004		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
48	Sample	DLP7K104,7020-G	060292005		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
49	Std Check	MEDA,7020-G.b,,	190-100-8		1 000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
50	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1 000	1 000	1.000	0.000	100.000
51	Std Check	EVALB,7020-G.b,	190-88-8		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DM8RE1AD,7020-G	160198001		1.000	1 000	1.000	1.000	1.000	1.000	0 000	100.000
53	Sample	DM8RF1AP,7020-G	160198002		1.000	1 000	1.000	1.000	1 000	1.000	0.000	100.000
54	Sample	DNAP01AA,7020-G	160198BLK		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
55	Sample	DNAP01AC,7020-G	160198LCS		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
56	Sample	DNAP01AD,7020-G	160198LCD		1.000	1.000	1 000	1 000	1.000	1.000	0.000	100.000
57	Sample	DM079103,7020-G	110267001		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
58	Sample	DM2801AA,7020-G	110267BLK		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
59	Sample	DM2801AC,7020-G	110267LCS		1 000	1.000	1.000	1 000	1.000	1.000	0.000	100.000

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60	Sample	DM2801AD,7020-G	110267LCD	1 000	1 000	1.000	1 000	1 000	1.000	0.000	100 000
61	Sample	DLVDN11A,7020-G	100195-1S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	DLVDN11C,7020-G	100195-1D	1.000	1.000	1.000	1.000	1 000	1.000	0 000	100.000
63	Sample	DLVDN105,7020-G	100195-1	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DLVDP105,7020-G	100195-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DLVDQ105,7020-G	100195-3	1 000	1.000	1.000	1 000	1.000	1 000	0.000	100.000
66	Sample	DM25F1AF,7020-G	120276001	1.000	1.000	1 000	1 000	1.000	1.000	0.000	100.000
67	Sample	DND2J1AA,7020-G	100195-BLK	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DND2J1AC,7020-G	100195-LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7297	D-A7297		D-A7297	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7298	D-A7298		D-A7298	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7299	D-A7299		D-A7299	N	MED	N	LPT1:,LP
4	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7300	D-A7300		D-A7300	-	-	-	LPT1:
5	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7301	D-A7301		D-A7301	-	-	-	LPT1:
6	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7302	D-A7302		D-A7302	-	-	-	LPT1:,LP
7	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7303	D-A7303		D-A7303	-	-	-	LPT1:,LP
8	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7304	D-A7304		D-A7304	-	-	-	LPT1:,LP
9	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7305	D-A7305		D-A7305	-	-	-	LPT1:,LP
10	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7306	D-A7306		D-A7306	-	-	-	LPT1:,LP
11	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7307	D-A7307		D-A7307	-	-	-	LPT1:,LP
12	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7308	D-A7308		D-A7308	-	-	-	LPT1:,LP
13	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7309	D-A7309		D-A7309	-	-	-	LPT1:,LP
14	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7310	D-A7310		D-A7310	-	-	-	LPT1:,LP
15	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7311	D-A7311		D-A7311	-	-	-	LPT1:,LP
16	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7312	D-A7312		D-A7312	-	-	-	LPT1:,LP
17	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7313	D-A7313		D-A7313	-	-	-	LPT1:,LP
18	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7314	D-A7314		D-A7314	-	-	-	LPT1:,LP
19	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7315	D-A7315		D-A7315	-	-	-	LPT1:,LP
20	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7316	D-A7316		D-A7316	-	-	-	LPT1:,LP
21	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7317	D-A7317		D-A7317	-	-	-	LPT1.,LP
22	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7318	D-A7318		D-A7318	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7319	D-A7319		D-A7319	-	-	-	LPT1:,LP
24	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7320	D-A7320		D-A7320	-	-	-	LPT1:,LP
25	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7321	D-A7321		D-A7321	-	-	-	LPT1:,LP
26	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7322	D-A7322		D-A7322	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7323	D-A7323		D-A7323	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7324	D-A7324		D-A7324	-	-	-	LPT1:
29	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7325	D-A7325		D-A7325	-	-	-	LPT1:,LP
30	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7326	D-A7326		D-A7326	-	-	-	LPT1:,LP
31	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7327	D-A7327		D-A7327	-	-	-	LPT1:,LP
32	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7328	D-A7328		D-A7328	-	-	-	LPT1 ,LP
33	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7329	D-A7329		D-A7329	-	-	-	LPT1:,LP
34	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7330	D-A7330		D-A7330	-	-	-	LPT1:,LP
35	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7331	D-A7331		D-A7331	-	-	-	LPT1:,LP
36	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7332	D-A7332		D-A7332	-	-	-	LPT1:,LP
37	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7333	D-A7333		D-A7333	-	-	-	LPT1:,LP
38	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7334	D-A7334		D-A7334	-	-	-	LPT1:,LP
39	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7335	D-A7335		D-A7335	-	-	-	LPT1:,LP
40	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7336	D-A7336		D-A7336	-	-	-	LPT1.,LP
41	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7337	D-A7337		D-A7337	-	-	-	LPT1:,LP
42	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7338	D-A7338		D-A7338	-	-	-	LPT1:,LP
43	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7339	D-A7339		D-A7339	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7340	D-A7340		D-A7340	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7341	D-A7341		D-A7341	-	-	-	LPT1.,LP
46	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7342	D-A7342		D-A7342	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7343	D-A7343		D-A7343	-	-	-	LPT1:,LP
48	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7344	D-A7344		D-A7344	-	-	-	LPT1:,LP
49	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7345	D-A7345		D-A7345	-	-	-	LPT1:
50	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A7346	D-A7346		D-A7346	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A7347	D-A7347		D-A7347	-	-	-	LPT1:
52	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7348	D-A7348		D-A7348	-	-	-	LPT1:,LP
53	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7349	D-A7349		D-A7349	-	-	-	LPT1:,LP
54	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7350	D-A7350		D-A7350	-	-	-	LPT1:,LP
55	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7351	D-A7351		D-A7351	-	-	-	LPT1:,LP
56	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7352	D-A7352		D-A7352	-	-	-	LPT1:,LP
57	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7353	D-A7353		D-A7353	-	-	-	LPT1:,LP
58	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7354	D-A7354		D-A7354	-	-	-	LPT1.,LP
59	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7355	D-A7355		D-A7355	-	-	-	LPT1:,LP
60	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7356	D-A7356		D-A7356	-	-	-	LPT1:,LP
61	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7357	D-A7357		D-A7357	-	-	-	LPT1:,LP
62	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7358	D-A7358		D-A7358	-	-	-	LPT1:,LP
63	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7359	D-A7359		D-A7359	-	-	-	LPT1:,LP
64	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7360	D-A7360		D-A7360	-	-	-	LPT1:,LP
65	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7361	D-A7361		D-A7361	-	-	-	LPT1 ,LP
66	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7362	D-A7362		D-A7362	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7363	D-A7363		D-A7363	-	-	-	LPT1:,LP
68	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A7364	D-A7364		D-A7364	-	-	-	LPT1:,LP
69	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A7365	D-A7365		D-A7365	-	-	-	LPT1:

70 - 1 11 GEN4C GEN4A 122190A INDA D-A7366 D-A7366 D-A7366 - - - LPT1:

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Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7020-G.SEQ
Created by : DE11/02/98 on : 10/3/00 13:13
Edited by : LM10/02/00 on : 10/4/00 13:32
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

4

Number of Times Edited : 5

7020H.PDF

Sequence File Header Information:

Number of Rows : 153
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,7020-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,7020-G.b	190-98-12		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWA,7020-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA,7020-G.b,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA,7020-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal.Replace	HIGHA,7020-G.b,	190-100-10		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB,7020-G b,,	190-100-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal.Replace	MLOWB,7020-G.b,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB,7020-G.b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB,7020-G.b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A,7020-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,7020-G.b,	190-[illegible]-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DL2Q2104,7020-G	260208-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
18	Sample	DL2RC104,7020-G	260208-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
19	Sample	DL2RF104,7020-G	260208-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
20	Sample	DL2RG104,7020-G	260208-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
21	Sample	DL2RK104,7020-G	260208-5		1 000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
22	Sample	DL2RM104,7020-G	260208-6		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
23	Sample	DL2RN108,7020-G	260208-7		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
24	Sample	DL2RN109,7020-G	260208-7S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
25	Sample	DL2RN10A,7020-G	260208-7D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
26	Sample	DL2RP104,7020-G	260208-8		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
27	Sample	DL2RT104,7020-G	260208-9		1.000	1.000	1 000	1.000	333.000	1.000	0.000	100.000
28	Sample	~~DL1Q104,7020-G~~	~~270130-1~~		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
29	Sample	DL429104,7020-G	270130-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
30	Sample	DL42C104,7020-G	270130-3		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
31	Sample	~~DL42P104,7020-G~~	~~270130-4~~		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
32	Sample	DL42K108,7020-G	270130-5		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
33	Sample	DL42M104,7020-G	270130-6		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
34	Sample	DL1MH103,7020-G	260101001		1 000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
35	Sample	DL85E101,7020-G	260208BLK		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
36	Sample	DL85E102,7020-G	260208LCS		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
37	Std Check	MEDA,7020-G b,,	190-100-8		1.000	1 000	1.000	1.000	1 000	1.000	0.000	100.000
38	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB,7020-G.b,	190-88-8		1 000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DL1ML107,7020-G	260101002		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
41	Sample	DL1ML108,7020-G	260101002S		1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
42	Sample	DL1ML109,7020-G	260101002D		1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
43	Sample	DL1MM103,7020-G	260101003		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
44	Sample	DL1MP103,7020-G	260101004		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
45	Sample	DL1MQ103,7020-G	260101005		1 000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
46	Sample	DL3MM103,7020-G	270[illegible]001		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
47	Sample	DL3MN103,7020-G	270.01002		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
48	Sample	DL3MP103,7020-G	270101003		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
49	Sample	DL3MQ103,7020-G	270101004		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
50	Sample	DL3MR103,7020-G	270101005		1.000	1 000	1.000	1.000	333.000	1.000	0 000	100.000
51	Sample	DL3MT103,7020-G	270101006		1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
52	Sample	~~DL39K103,7020-G~~	~~270264001~~		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
53	Sample	DL66Q103,7020-G	280101001		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
54	Sample	DL66X103,7020-G	280101002		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
55	Sample	DL670103,7020-G	280101003		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
56	Sample	DL671103,7020-G	280101004		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
57	Sample	DL672103,7020-G	280101005		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
58	Sample	DLC4M101,7020-G	260101BLK		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
59	Sample	DLC4M102,7020-G	260101LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000

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60	Std Check	MEDA,7020-G b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1 000	1.000	1.000	1 000	0.000	100.000
62	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1 000	1 000	1.000	0 000	100.000
63	Sample	DL673103,7020-G	280101006	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
64	Sample	DL41Q104,7020-G	270130-1	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
65	Sample	DL42F104,7020-G	270130-4	1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
66	Sample	DL45K104,7020-G	270146001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
67	Sample	DL46E104,7020-G	270146002	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
68	Sample	DL46G104,7020-G	270146003	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
69	Sample	DL46J108,7020-G	270146004	1.000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
70	Sample	DL46J109,7020-G	270146004S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
71	Sample	DL46J10A,7020-G	270146004D	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
72	Sample	DL46W104,7020-G	270146005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
73	Sample	DL474104,7020-G	270146006	1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
74	Sample	DL47E104,7020-G	270146007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
75	Sample	DL47G104,7020-G	270146008	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
76	Sample	DL47J104,7020-G	270146009	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
77	Sample	DL47L104,7020-G	270146010	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
78	Sample	DL47Q104,7020-G	270146011	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100 000
79	Sample	DL47T104,7020-G	270146012	1.000	1.000	1 000	1.000	333.000	1.000	0.000	100.000
80	Sample	DL788104,7020-G	280200001	1.000	1.000	1 000	1.000	333.000	1.000	0.000	100.000
81	Sample	DLC2F101,7020-G	270146BLK	1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
82	Sample	DLC2F102,7020-G	270146LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
83	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
85	Std Check	EVALB,7020-G.b,	190 88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
86	Sample	DL79N104,7020-G	280200002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
87	Sample	DL79Q104,7020-G	280200003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
88	Sample	DL7A2104,7020-G	280200004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
89	Sample	DL7A6104,7020-G	280200005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
90	Sample	DL7A9104,7020-G	280200006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
91	Sample	DL7AD104,7020-G	280200007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
92	Sample	DL7AT104,7020-G	280200008	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
93	Sample	DKWE0114,7020-G	220289001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
94	Sample	DKWE011A,7020-G	220289001S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
95	Sample	DKWE011C,7020-G	220289001D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
96	Sample	DKWE6114,7020-G	220289002	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
97	Sample	DKRKG10N,7020-G	210229001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
98	Sample	DL1HM101,7020-G	220289BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
99	Sample	DL1HM102,7020-G	220289LCS	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
100	Sample	DKRKG102,7020-G	210229001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
101	Sample	DKRKG11M,7020-G	210229001S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
102	Sample	DKRKG11N,7020-G	210229001D	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
103	Sample	DKVTQ102,7020-G	220233001	1 000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
104	Sample	DLGN9101,7020-G	210229BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
105	Sample	DLGN9102,7020-G	210229LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
106	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DL6LV104,7020-G	280138-1	1 000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
110	Sample	DL6M0104,7020-G	280138-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
111	Sample	DL7XC105,7020-G	280265001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
112	Sample	DL90T105,7020-G	290146001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
113	Sample	DLCQF104,7020-G	300132001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
114	Sample	DLCQH104,7020-G	300132002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
115	Sample	DLCQJ10A,7020-G	300132003	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100 000
116	Sample	DLCQJ10C,7020-G	300132003S	1.000	1.000	1 000	1.000	333.000	1.000	0.000	100.000
117	Sample	DLCQJ10D,7020-G	300132003D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
118	Sample	DLCQK104,7020-G	300132004	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
119	Sample	DLCQM104,7020-G	300132005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
120	Sample	DLCQN104,7020-G	300132006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
121	Sample	DLCQP104,7020-G	300132007	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
122	Sample	DLCQQ104,7020-G	300132008	1.000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
123	Sample	DLCQT104,7020-G	300132010	1.000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
124	Sample	DLGN4101,7020-G	300132BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
125	Sample	DLGN4102,7020-G	300132LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
126	Sample	DLDDE101,7020-G	280206BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
127	Sample	DLDDE102,7020-G	280206LCS	1.000	1.000	1.000	1.000	333.000	1 000	0 000	100.000
128	Sample	DLDDE103,7020-G	280206LCD	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
129	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
130	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Std Check	EVALB,7020-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
132	Sample	DL79W103,7020-G	280206001	1 000	1.000	1.000	1.000	333.000	1.000	0.000	100 000
133	Sample	DL7A3103,7020-G	280206002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
134	Sample	DL7E0103,7020-G	280219001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
135	Sample	DL7E8103,7020-G	280219002	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
136	Sample	DL7E9103,7020-G	280219003	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
137	Sample	DL7EC103,7020-G	280219004	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
138	Sample	DLA4K104,7020-G	290257001	1.000	1.000	1.000	1.000	333.000	1.000	0 000	100 000
139	Sample	DLA4W104,7020-G	290257002	1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
140	Sample	DLA51104,7020-G	290257003	1 000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
141	Sample	DLA54104,7020-G	290257004	1 000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
142	Sample	DLA56104,7020-G	290257005	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
143	Sample	DLA5C104,7020-G	290257006	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
144	Sample	DL8XR101,7020-G	290138001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
145	Sample	DLEHE101,7020-G	290138BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
146	Sample	DLEHE102,7020-G	290138LCS	1.000	1.000	1.000	1.000	333 000	1.000	0.000	100.000

~~147~~	~~Sample~~	~~DLEHE103,7020-G~~	~~290138LCD~~	1.000	1.000	1 000	1.000	333 000	1.000	0 000	100.000
148	Sample	DKWED102,7020-G	220289004	1 000	1.000	1.000	1.000	333 000	1.000	0.000	100.000
149	Sample	DL1KX101,7020-G	220289BLK	1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
150	Sample	DL1KX102,7020-G	220289LCS	1.000	1 000	1.000	1 000	333.000	1.000	0.000	100.000
151	Sample	DL1KX103,7020-G	220289LCD	1.000	1.000	1.000	1.000	333.000	1.000	0 000	100 000
152	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
153	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7011	D-B7011		D-B7011	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7012	D-B7012		D-B7012	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7013	D-B7013		D-B7013	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B7014	D-B7014		D-B7014	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B7015	D-B7015		D-B7015	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7016	D-B7016		D-B7016	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B7017	D-B7017		D-B7017	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B7018	D-B7018		D-B7018	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B7019	D-B7019		D-B7019	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B7020	D-B7020		D-B7020	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7021	D-B7021		D-B7021	N	MLOW	N	LPT1.
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B7022	D-B7022		D-B7022	N	MLOW	N	LPT1.
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B7023	D-B7023		D-B7023	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B7024	D-B7024		D-B7024	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B7025	D-B7025		D-B7025	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7026	D-B7026		D-B7026	-	-	-	LPT1:
17	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7027	D-B7027		D-B7027	-	-	-	LPT1:,LP
18	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7028	D-B7028		D-B7028	-	-	-	LPT1:,LP
19	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7029	D-B7029		D-B7029	-	-	-	LPT1:,LP
20	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7030	D-B7030		D-B7030	-	-	-	LPT1:,LP
21	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7031	D-B7031		D-B7031	-	-	-	LPT1:,LP
22	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7032	D-B7032		D-B7032	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7033	D-B7033		D-B7033	-	-	-	LPT1:,LP
24	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7034	D-B7034		D-B7034	-	-	-	LPT1:,LP
25	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7035	D-B7035		D-B7035	-	-	-	LPT1:,LP
26	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7036	D-B7036		D-B7036	-	-	-	LPT1:,LP
27	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7037	D-B7037		D-B7037	-	-	-	LPT1:,LP
28	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7038	D-B7038		D-B7038	-	-	-	LPT1:,LP
29	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7039	D-B7039		D-B7039	-	-	-	LPT1:,LP
30	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7040	D-B7040		D-B7040	-	-	-	LPT1:,LP
31	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7041	D-B7041		D-B7041	-	-	-	LPT1:,LP
32	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7042	D-B7042		D-B7042	-	-	-	LPT1:,LP
33	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7043	D-B7043		D-B7043	-	-	-	LPT1:,LP
34	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7044	D-B7044		D-B7044	-	-	-	LPT1:,LP
35	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7045	D-B7045		D-B7045	-	-	-	LPT1:,LP
36	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7046	D-B7046		D-B7046	-	-	-	LPT1:,LP
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7047	D-B7047		D-B7047	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7048	D-B7048		D-B7048	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7049	D-B7049		D-B7049	-	-	-	LPT1:
40	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7050	D-B7050		D-B7050	-	-	-	LPT1:,LP
41	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7051	D-B7051		D-B7051	-	-	-	LPT1:,LP
42	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7052	D-B7052		D-B7052	-	-	-	LPT1:,LP
43	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7053	D-B7053		D-B7053	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7054	D-B7054		D-B7054	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7055	D-B7055		D-B7055	-	-	-	LPT1:,LP
46	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7056	D-B7056		D-B7056	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7057	D-B7057		D-B7057	-	-	-	LPT1:,LP
48	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7058	D-B7058		D-B7058	-	-	-	LPT1:,LP
49	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7059	D-B7059		D-B7059	-	-	-	LPT1.,LP
50	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7060	D-B7060		D-B7060	-	-	-	LPT1:,LP
51	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7061	D-B7061		D-B7061	-	-	-	LPT1:,LP
52	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7062	D-B7062		D-B7062	-	-	-	LPT1:,LP
53	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7063	D-B7063		D-B7063	-	-	-	LPT1:,LP
54	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7064	D-B7064		D-B7064	-	-	-	LPT1:,LP
55	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7065	D-B7065		D-B7065	-	-	-	LPT1:,LP
56	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7066	D-B7066		D-B7066	-	-	-	LPT1:,LP
57	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7067	D-B7067		D-B7067	-	-	-	LPT1:,LP
58	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7068	D-B7068		D-B7068	-	-	-	LPT1:,LP
59	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7069	D-B7069		D-B7069	-	-	-	LPT1:,LP
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7070	D-B7070		D-B7070	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7071	D-B7071		D-B7071	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7072	D-B7072		D-B7072	-	-	-	LPT1:
63	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7073	D-B7073		D-B7073	-	-	-	LPT1:,LP
64	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7074	D-B7074		D-B7074	-	-	-	LPT1:,LP
65	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7075	D-B7075		D-B7075	-	-	-	LPT1:,LP
66	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7076	D-B7076		D-B7076	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7077	D-B7077		D-B7077	-	-	-	LPT1:,LP
68	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7078	D-B7078		D-B7078	-	-	-	LPT1:,LP
69	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7079	D-B7079		D-B7079	-	-	-	LPT1:,LP
70	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7080	D-B7080		D-B7080	-	-	-	LPT1:,LP
71	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7081	D-B7081		D-B7081	-	-	-	LPT1:,LP
72	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7082	D-B7082		D-B7082	-	-	-	LPT1:,LP
73	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7083	D-B7083		D-B7083	-	-	-	LPT1:,LP

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74	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7084	D-B7084	D-B7084	-	-	-	LPT1.,LP
75	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7085	D-B7085	D-B7085	-	-	-	LPT1:,LP
76	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7086	D-B7086	D-B7086	-	-	-	LPT1 ,LP
77	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7087	D-B7087	D-B7087	-	-	-	LPT1.,LP
78	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7088	D-B7088	D-B7088	-	-	-	LPT1',LP
79	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7089	D-B7089	D-B7089	-	-	-	LPT1:,LP
80	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7090	D-B7090	D-B7090	-	-	-	LPT1:,LP
81	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7091	D-B7091	D-B7091	-	-	-	LPT1',LP
82	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7092	D-B7092	D-B7092	-	-	-	LPT1:,LP
83	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7093	D-B7093	D-B7093	-	-	-	LPT1:
84	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7094	D-B7094	D-B7094	-	-	-	LPT1'
85	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7095	D-B7095	D-B7095	-	-	-	LPT1:
86	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7096	D-B7096	D-B7096	-	-	-	LPT1:,LP
87	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7097	D-B7097	D-B7097	-	-	-	LPT1:,LP
88	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7098	D-B7098	D-B7098	-	-	-	LPT1:,LP
89	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7099	D-B7099	D-B7099	-	-	-	LPT1.,LP
90	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7100	D-B7100	D-B7100	-	-	-	LPT1:,LP
91	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7101	D-B7101	D-B7101	-	-	-	LPT1:,LP
92	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7102	D-B7102	D-B7102	-	-	-	LPT1:,LP
93	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7103	D-B7103	D-B7103	-	-	-	LPT1:,LP
94	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7104	D-B7104	D-B7104	-	-	-	LPT1:,LP
95	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7105	D-B7105	D-B7105	-	-	-	LPT1:,LP
96	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7106	D-B7106	D-B7106	-	-	-	LPT1:,LP
97	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7107	D-B7107	D-B7107	-	-	-	LPT1:,LP
98	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7108	D-B7108	D-B7108	-	-	-	LPT1:,LP
99	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7109	D-B7109	D-B7109	-	-	-	LPT1:,LP
100	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7110	D-B7110	D-B7110	-	-	-	LPT1:,LP
101	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7111	D-B7111	D-B7111	-	-	-	LPT1:,LP
102	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7112	D-B7112	D-B7112	-	-	-	LPT1:,LP
103	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7113	D-B7113	D-B7113	-	-	-	LPT1:,LP
104	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7114	D-B7114	D-B7114	-	-	-	LPT1:,LP
105	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7115	D-B7115	D-B7115	-	-	-	LPT1:,LP
106	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7116	D-B7116	D-B7116	-	-	-	LPT1:
107	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7117	D-B7117	D-B7117	-	-	-	LPT1:
108	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7118	D-B7118	D-B7118	-	-	-	LPT1:
109	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7119	D-B7119	D-B7119	-	-	-	LPT1:,LP
110	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7120	D-B7120	D-B7120	-	-	-	LPT1:,LP
111	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7121	D-B7121	D-B7121	-	-	-	LPT1:,LP
112	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7122	D-B7122	D-B7122	-	-	-	LPT1:,LP
113	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7123	D-B7123	D-B7123	-	-	-	LPT1:,LP
114	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7124	D-B7124	D-B7124	-	-	-	LPT1',LP
115	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7125	D-B7125	D-B7125	-	-	-	LPT1.,LP
116	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7126	D-B7126	D-B7126	-	-	-	LPT1',LP
117	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7127	D-B7127	D-B7127	-	-	-	LPT1 ,LP
118	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7128	D-B7128	D-B7128	-	-	-	LPT1:,LP
119	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7129	D-B7129	D-B7129	-	-	-	LPT1:,LP
120	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7130	D-B7130	D-B7130	-	-	-	LPT1:,LP
121	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7131	D-B7131	D-B7131	-	-	-	LPT1:,LP
122	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7132	D-B7132	D-B7132	-	-	-	LPT1:,LP
123	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7133	D-B7133	D-B7133	-	-	-	LPT1:,LP
124	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7134	D-B7134	D-B7134	-	-	-	LPT1:,LP
125	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7135	D-B7135	D-B7135	-	-	-	LPT1:,LP
126	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7136	D-B7136	D-B7136	-	-	-	LPT1:,LP
127	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7137	D-B7137	D-B7137	-	-	-	LPT1:,LP
128	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7138	D-B7138	D-B7138	-	-	-	LPT1:,LP
129	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7139	D-B7139	D-B7139	-	-	-	LPT1:
130	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7140	D-B7140	D-B7140	-	-	-	LPT1:
131	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7141	D-B7141	D-B7141	-	-	-	LPT1:
132	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7142	D-B7142	D-B7142	-	-	-	LPT1:,LP
133	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7143	D-B7143	D-B7143	-	-	-	LPT1:,LP
134	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7144	D-B7144	D-B7144	-	-	-	LPT1:,LP
135	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7145	D-B7145	D-B7145	-	-	-	LPT1:,LP
136	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7146	D-B7146	D-B7146	-	-	-	LPT1:,LP
137	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7147	D-B7147	D-B7147	-	-	-	LPT1.,LP
138	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7148	D-B7148	D-B7148	-	-	-	LPT1:,LP
139	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7149	D-B7149	D-B7149	-	-	-	LPT1:,LP
140	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7150	D-B7150	D-B7150	-	-	-	LPT1:,LP
141	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7151	D-B7151	D-B7151	-	-	-	LPT1:,LP
142	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7152	D-B7152	D-B7152	-	-	-	LPT1:,LP
143	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7153	D-B7153	D-B7153	-	-	-	LPT1',LP
144	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7154	D-B7154	D-B7154	-	-	-	LPT1:,LP
145	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7155	D-B7155	D-B7155	-	-	-	LPT1:,LP
146	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7156	D-B7156	D-B7156	-	-	-	LPT1:,LP
147	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7157	D-B7157	D-B7157	-	-	-	LPT1:,LP
148	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7158	D-B7158	D-B7158	-	-	-	LPT1:,LP
149	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7159	D-B7159	D-B7159	-	-	-	LPT1:,LP
150	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7160	D-B7160	D-B7160	-	-	-	LPT1:,LP
151	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7161	D-B7161	D-B7161	-	-	-	LPT1:,LP
152	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7162	D-B7162	D-B7162	-	-	-	LPT1:
153	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7163	D-B7163	D-B7163	-	-	-	LPT1:

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Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\7180-G.SEQ
Created by : DE11/02/98 on : 10/18/00 12:16
Edited by : LM10/18/00 on : 10/19/00 12:03
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 70
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,7020-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,7020-G b	190-88-12		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR,7020-G	190-90-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Std Check	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DL7AE104,7020-G	280208001		1.000	1 000	1.000	1.000	333.000	1.000	0.000	100.000
7	Sample	DL7AJ104,7020-G	280208002		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
8	Sample	DL7AK104,7020-G	280208003		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
9	Sample	DL7AN104,7020-G	280208004		1 000	1.000	1.000	1.000	333.000	1.000	0.000	100 000
10	Sample	DL7CW104,7020-G	280215001		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
11	Sample	DL7CW10X,7020-G	280215001S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
12	Sample	DL7CW110,7020-G	280215001D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
13	Sample	DM6501AE,7020-G	140161001		1.000	1.000	1.000	1 000	333.000	1.000	0.000	100.000
14	Sample	DM6501CE,7020-G	140161001S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
15	Sample	DM6501CF,7020-G	140161001D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
16	Sample	DM8PW1AA,7020-G	140161BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100 000
17	Sample	DM8PW1AC,7020-G	140161LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
18	Sample	DLH8912C,7020-G	040145002		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
19	Sample	DLH8912A,7020-G	040145002S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
20	Sample	DLH8912C,7020-G	040145002D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
21	Sample	DNATA1AA,7020-G	040145BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
22	Sample	DNATA1AC,7020-G	040145LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
23	Sample	DLF9K104,7020-G	030135001		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
24	Sample	DLW3A101,7020-G	030135BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
25	Sample	DLW3A102,7020-G	030135LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
26	Std Check	MEDA,7020-G b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
27	Std Check	MEDB,7020-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DLF9P104,7020-G	030135002		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
30	Sample	DLF9Q104,7020-G	030135003		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
31	Sample	DLF9V108,7020-G	030135004		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
32	Sample	DLF9V109,7020-G	030135004S		1 000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
33	Sample	DLF9V10A,7020-G	030135004D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
34	Sample	DLHJ1104,7020-G	040185001		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
35	Sample	DLHJA104,7020-G	040185002		1 000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
36	Sample	DLKRA104,7020-G	050202001		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
37	Sample	DLKRF104,7020-G	050202002		1.000	1.000	1.000	1.000	333 000	1.000	0.000	100 000
38	Sample	DLKRG104,7020-G	050202003		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
39	Sample	DLKRJ104,7020-G	050202004		1 000	1.000	1.000	1.000	333 000	1 000	0.000	100.000
40	Sample	DLKRM104,7020-G	050202005		1 000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
41	Sample	DLKRP104,7020-G	050202006		1 000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
42	Sample	DLKRP116,7020-G	050202006S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
43	Sample	DLKRP117,7020-G	050202006D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
44	Sample	DLP6E104,7020-G	060292001		1.000	1.000	1.000	1.000	333.000	1.000	0 000	100.000
45	Sample	DLP7C104,7020-G	060292002		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
46	Sample	DLP7G104,7020-G	060292003		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100 000
47	Sample	DLP7H104,7020-G	060292004		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
48	Sample	DLP7K104,7020-G	060292005		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
49	Std Check	MEDA,7020-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Std Check	MEDB,7020-G.b,,	190-100-14		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Std Check	EVALB,7020-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DM8RE1AD,7020-G	160198001		1 000	1.000	1.000	1.000	333.000	1 000	0.000	100 000
53	Sample	DM8RF1AP,7020-G	160198002		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
54	Sample	DNAP01AA,7020-G	160198BLK		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
55	Sample	DNAP01AC,7020-G	160198LCS		1 000	1.000	1.000	1.000	333 000	1.000	0.000	100 000
56	Sample	DNAP01AD,7020-G	160198LCD		1 000	1 000	1 000	1.000	333.000	1 000	0.000	100.000
57	Sample	DM2801AA,7020-G	110267BLK		1.000	1.000	1.000	1.000	333.000	1 000	0.000	100.000
58	Sample	DM2801AC,7020-G	110267LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
59	Sample	DM2801AD,7020-G	110267LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000

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60	[redacted]	DM280IAD,7020-G	110[redacted]	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
61	Sample	DLVDN11A,7020-G	[redacted]195-1S	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
62	Sample	DLVDN11C,7020-G	100195-1D	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
63	Sample	DLVDN1[redacted],7020-G	100195-1	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
64	Sample	DLVDP105,7020-G	100195-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
65	Sample	DLVDQ105,7020-G	100195-3	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
66	Sample	DM25F1AF,7020-G	120276001	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
67	Sample	DND2J1AA,7020-G	100195-BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
68	[redacted]	[redacted],7020-G	[redacted]195-LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
69	Std Check	MEDA,7020-G.b,,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Std Check	MEDB,7020-G.b,,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7297	D-B7297		D-B7297	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7298	D-B7298		D-B7298	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7299	D-B7299		D-B7299	N	MED	N	LPT1:,LP
4	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7300	D-B7300		D-B7300	-	-	-	LPT1:
5	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7301	D-B7301		D-B7301	-	-	-	LPT1:
6	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7302	D-B7302		D-B7302	-	-	-	LPT1:,LP
7	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7303	D-B7303		D-B7303	-	-	-	LPT1:,LP
8	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7304	D-B7304		D-B7304	-	-	-	LPT1:,LP
9	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7305	D-B7305		D-B7305	-	-	-	LPT1:,LP
10	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7306	D-B7306		D-B7306	-	-	-	LPT1:,LP
11	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7307	D-B7307		D-B7307	-	-	-	LPT1:,LP
12	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7308	D-B7308		D-B7308	-	-	-	LPT1:,LP
13	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7309	D-B7309		D-B7309	-	-	-	LPT1:,LP
14	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7310	D-B7310		D-B7310	-	-	-	LPT1:,LP
15	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7311	D-B7311		D-B7311	-	-	-	LPT1:,LP
16	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7312	D-B7312		D-B7312	-	-	-	LPT1:,LP
17	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7313	D-B7313		D-B7313	-	-	-	LPT1:,LP
18	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7314	D-B7314		D-B7314	-	-	-	LPT1:,LP
19	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7315	D-B7315		D-B7315	-	-	-	LPT1:,LP
20	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7316	D-B7316		D-B7316	-	-	-	LPT1:,LP
21	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7317	D-B7317		D-B7317	-	-	-	LPT1:,LP
22	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7318	D-B7318		D-B7318	-	-	-	LPT1:,LP
23	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7319	D-B7319		D-B7319	-	-	-	LPT1:,LP
24	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7320	D-B7320		D-B7320	-	-	-	LPT1:,LP
25	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7321	D-B7321		D-B7321	-	-	-	LPT1:,LP
26	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7322	D-B7322		D-B7322	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7323	D-B7323		D-B7323	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7324	D-B7324		D-B7324	-	-	-	LPT1:
29	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7325	D-B7325		D-B7325	-	-	-	LPT1:,LP
30	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7326	D-B7326		D-B7326	-	-	-	LPT1:,LP
31	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7327	D-B7327		D-B7327	-	-	-	LPT1:,LP
32	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7328	D-B7328		D-B7328	-	-	-	LPT1:,LP
33	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7329	D-B7329		D-B7329	-	-	-	LPT1:,LP
34	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7330	D-B7330		D-B7330	-	-	-	LPT1:,LP
35	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7331	D-B7331		D-B7331	-	-	-	LPT1:,LP
36	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7332	D-B7332		D-B7332	-	-	-	LPT1:,LP
37	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7333	D-B7333		D-B7333	-	-	-	LPT1:,LP
38	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7334	D-B7334		D-B7334	-	-	-	LPT1:,LP
39	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7335	D-B7335		D-B7335	-	-	-	LPT1:,LP
40	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7336	D-B7336		D-B7336	-	-	-	LPT1:,LP
41	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7337	D-B7337		D-B7337	-	-	-	LPT1:,LP
42	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7338	D-B7338		D-B7338	-	-	-	LPT1:,LP
43	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7339	D-B7339		D-B7339	-	-	-	LPT1:,LP
44	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7340	D-B7340		D-B7340	-	-	-	LPT1:,LP
45	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7341	D-B7341		D-B7341	-	-	-	LPT1:,LP
46	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7342	D-B7342		D-B7342	-	-	-	LPT1:,LP
47	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7343	D-B7343		D-B7343	-	-	-	LPT1:,LP
48	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7344	D-B7344		D-B7344	-	-	-	LPT1:,LP
49	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7345	D-B7345		D-B7345	-	-	-	LPT1:
50	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B7346	D-B7346		D-B7346	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B7347	D-B7347		D-B7347	-	-	-	LPT1:
52	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7348	D-B7348		D-B7348	-	-	-	LPT1:,LP
53	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7349	D-B7349		D-B7349	-	-	-	LPT1:,LP
54	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7350	D-B7350		D-B7350	-	-	-	LPT1:,LP
55	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7351	D-B7351		D-B7351	-	-	-	LPT1:,LP
56	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7352	D-B7352		D-B7352	-	-	-	LPT1:,LP
57	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7353	D-B7353		D-B7353	-	-	-	LPT1:,LP
58	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7354	D-B7354		D-B7354	-	-	-	LPT1:,LP
59	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7355	D-B7355		D-B7355	-	-	-	LPT1:,LP
60	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7356	D-B7356		D-B7356	-	-	-	LPT1:,LP
61	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7357	D-B7357		D-B7357	-	-	-	LPT1:,LP
62	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7358	D-B7358		D-B7358	-	-	-	LPT1:,LP
63	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7359	D-B7359		D-B7359	-	-	-	LPT1:,LP
64	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7360	D-B7360		D-B7360	-	-	-	LPT1:,LP
65	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7361	D-B7361		D-B7361	-	-	-	LPT1:,LP
66	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7362	D-B7362		D-B7362	-	-	-	LPT1:,LP
67	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7363	D-B7363		D-B7363	-	-	-	LPT1:,LP
68	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B7364	D-B7364		D-B7364	-	-	-	LPT1:,LP
69	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B7365	D-B7365		D-B7365	-	-	-	LPT1:

70 - 1 11 GEN4C GEN4B 122190A INDA D-B7366 D-B7366 D-B7366 - - - LPT1·

673 1535

REQUESTED BY: PINOB

673 1536

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5E	DM650-1-AE	___ ___ ___	273717	399411	A-13-QJ	COJ140161	001	QC	SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Brian A. Pino	Brian A. Pino	10-16-00 1345
Brian A. Pino	Brian A. Pino	10-16-00 1900

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

PCB DATA

673 1538

PCB
QC SUMMARY

SW846 8082 SURROGATE RECOVERY

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

Lab Code: QESPIT QESSDG:

Lot #: C0J140161

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	DF/S1/0287/TOTAL/001	78	95	00
02	METHOD BLK. DM8P01AA	95	90	00
03	LCS DM8P01AC	90	84	00
04	DF/S1/0287/TOTAL/001 D	89	115	00
05	DF/S1/0287/TOTAL/001 S	90	115	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(31-127)
SRG02	= Decachlorobiphenyl	(23-141)

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

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

673 1540

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

Lab Code: QESPIT SDG No:

Lot #: C0J160000 WO #: DM8P01AC
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	333	256	77	49 - 122	
Aroclor 1260	333	290	87	51 - 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

673 1541

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: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CG
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	374	ND	300	80	26 - 144	
Aroclor 1260	374	ND	349	93	37 - 138	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

673 1542

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

Lab Code: QESPIT SDG No:

Matrix Spike ID: DF/S1/0287/TOTAL/001 Level:(low/med) LOW

Lot #: C0J140161 WO #: DM6501CH
BATCH: 0290610

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	374	298	80	0.41	39	26 - 144	
Aroclor 1260	374	345	92	0.95	33	37 - 138	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

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

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

COMMENTS:

FORM III

673 1543

BLANK WORKORDER NO.

DM8P01AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: H-A70848.

Lot Number: C0J140161

Matrix: SOLID

Extraction Method: 3550

Date Extracted: 10/16/00

Date Analyzed(1): 10/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 14:29

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A ID: N/A GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	DF/S1/0287/TOTAL/001	DM6501AF	10/18/00	N/A
02	DF/S1/0287/TOTAL/001	DM6501CG S	10/18/00	N/A
03	DF/S1/0287/TOTAL/001	DM6501CH D	10/18/00	N/A
04	CHECK SAMPLE	DM8P01AC C	10/18/00	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

PCB
SAMPLE DATA

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J140161 001
Method: SW846 8082
PCBs (8082)

Sample WT/Vol: 30 / g Date Received: 10/14/00
Work Order: DM6501AF Date Extracted:10/16/00
Dilution factor: 1 Date Analyzed: 10/18/00
Moisture %:11

QC Batch: 0290610

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	37	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	37	U
11096-82-5	Aroclor 1260	37	U

673 1546

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70845.D
Lab Smp Id: DM6501AF Client Smp ID: DF/S1/0287/TOTAL/00
Inj Date : 18-OCT-2000 13:30
Operator : 010139 Inst ID: gc8.i
Smp Info : DM6501AF,6190.b
Misc Info : 140161001
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 11:35 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: PITPC061

Concentration Formula: Amt * DF * Vt*Vi/Ws

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.682	1.670	(0.012)	109495	0 01564	5.2125		
8 Aroclor-1221					CAS #: 11104-28-2		
Operator disabled compound identification.							
14 Aroclor-1232					CAS # 11141-16-5		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1242					CAS #: 53469-21-9		

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

---

20 Aroclor-1016					CAS #: 12674-11-2		

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		
10 630	10 618	(0 012)	54987	0.01908	6.3612		

---

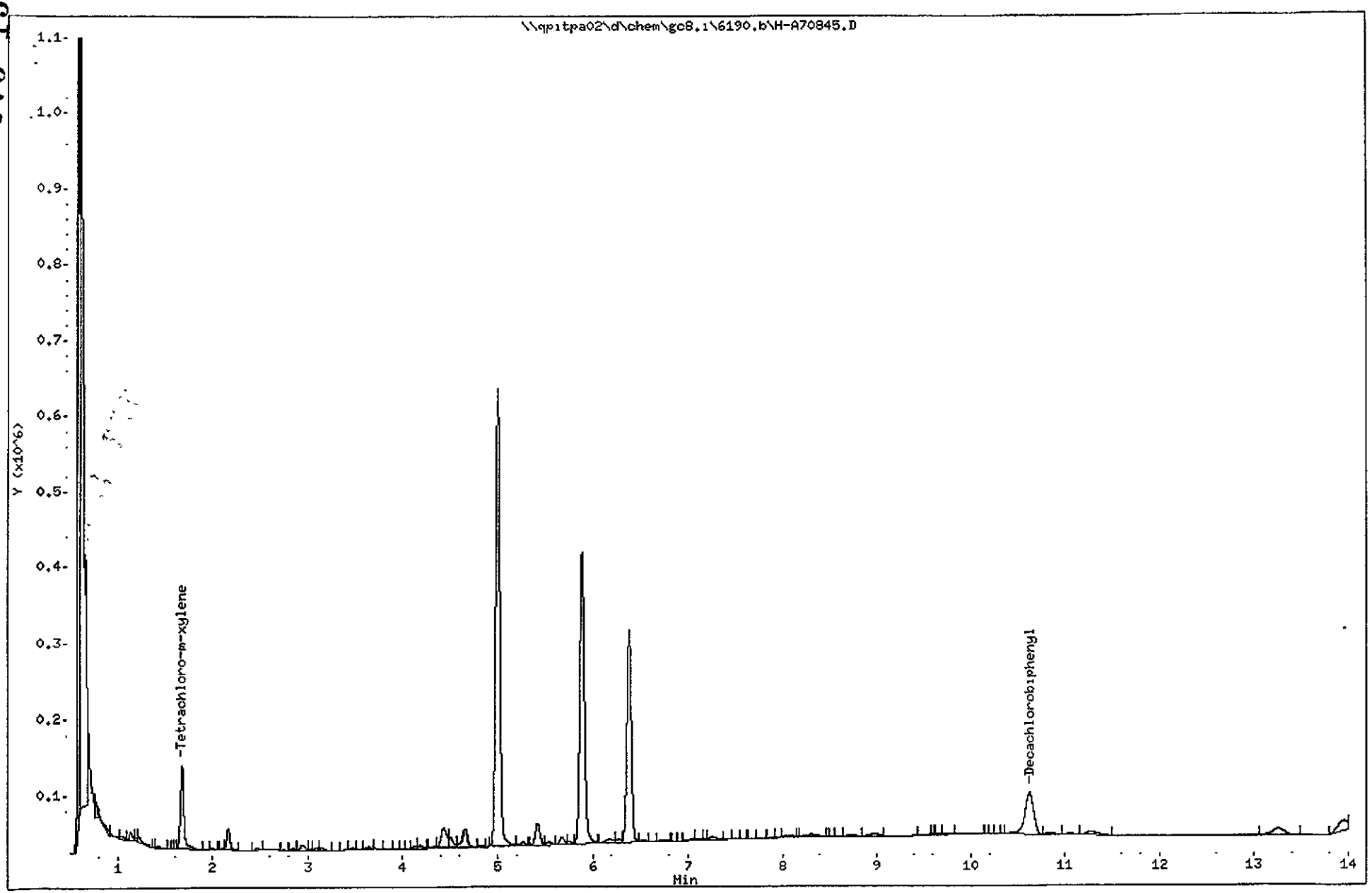
36 Aroclor-1260					CAS # 11096-82-5		

Operator disabled compound identification.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70845.D
Date : 13-OCT-2000 13:30
Client ID: DF/S1/0287/TOTAL/00
Sample Info: DM6501AF,6190.b
Volume Injected (uL): 1.0
Column phase: DB608

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

673 1548



STL Pittsburgh

673 1549

PCB
CALIBRATION DATA

GE
HP6890 8M
DB608

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-2000 09:55
End Cal Date : 19-SEP-2000 12:33
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Cal Date : 19-Sep-2000 13:48 eppingerd
Curve Type : Average

Calibration File Names:
Level 1: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60382.D
Level 2: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60383.D
Level 3: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60384.D
Level 4: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60385.D
Level 5: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60386.D

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD	
51 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Aroclor-1221(1)	+++++	+++++	51210	+++++	+++++	51210	0.000	
(2)	+++++	+++++	76070	+++++	+++++	76070	0.000	
(3)	+++++	+++++	148608	+++++	+++++	148608	0.000	
14 Aroclor-1232(1)	+++++	+++++	103666	+++++	+++++	103666	0.000	
(2)	+++++	+++++	96424	+++++	+++++	96424	0.000	
(3)	+++++	+++++	147110	+++++	+++++	147110	0.000	
(4)	+++++	+++++	98254	+++++	+++++	98254	0.000	
15 Aroclor-1242(1)	+++++	+++++	283406	+++++	+++++	283406	0.000	
(2)	+++++	+++++	173866	+++++	+++++	173866	0.000	
(3)	+++++	+++++	122358	+++++	+++++	122358	0.000	
(4)	+++++	+++++	133114	+++++	+++++	133114	0.000	
(5)	+++++	+++++	125732	+++++	+++++	125732	0.000	
20 Aroclor-1016(1)	122730	139025	112914	108336	100189	116639	12.801	
(2)	239060	266190	219592	208413	194229	225497	12.434	
(3)	387070	434170	368258	357203	336242	376589	9.845	
(4)	235830	263835	223110	215175	204955	228581	9.936	
(5)	151350	168405	141208	136232	128648	145169	10.597	
21 Aroclor-1248(1)	+++++	+++++	189060	+++++	+++++	189060	0.000	
(2)	+++++	+++++	174574	+++++	+++++	174574	0.000	
(3)	+++++	+++++	216908	+++++	+++++	216908	0.000	
(4)	+++++	+++++	202720	+++++	+++++	202720	0.000	
(5)	+++++	+++++	216984	+++++	+++++	216984	0.000	

GC
HP6890SM
DB608

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-2000 09:55
End Cal Date : 19-SEP-2000 12:33
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Cal Date : 19-Sep-2000 13:48 eppingerd
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
33 Aroclor-1254(1)	+++++	+++++	198378	+++++	+++++	198378	0.000
(2)	+++++	+++++	238982	+++++	+++++	238982	0.000
(3)	+++++	+++++	360306	+++++	+++++	360306	0.000
(4)	+++++	+++++	243560	+++++	+++++	243560	0.000
(5)	+++++	+++++	189160	+++++	+++++	189160	0.000
36 Aroclor-1260(1)	288400	305720	280968	272304	255679	280614	6.624
(2)	299610	323490	298636	287347	275050	296827	6.041
(3)	294870	321530	304712	292438	285950	299900	4.616
(4)	434490	484140	462424	455965	444587	456321	4.137
(5)	228610	250775	235640	234120	229699	235769	3.770
$ 1 Tetrachloro-m-xylene	7978800	7299700	6633120	6790600	6307950	7002034	9.325
$ 34 Decachlorobiphenyl	3333200	2982600	2816040	2697020	2577940	2881360	10.188

FE HP6890SM DB608

673 1552

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: H-A70733.D
Analysis Type:
Lab Sample ID: M1660
Method: \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m

Injection Date: 16-OCT-2000 10:36
Init. Cal. Date(s): 19-SEP-2000 11-OCT-2000
Init. Cal. Times: 09:55 15:45
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
20 Aroclor-1016(1)	116639	112788	0 010	-3 3	15.0
(2)	225497	206864	0 010	-8.3	15 0
(3)	376589	346340	0.010	-8 0	15 0
(4)	228581	214592	0 010	-6.1	15.0
(5)	145169	136904	0.010	-5.7	15.0
$ 1 Tetrachloro-m-xylene	7002034	7320600	0.000	4 5	15.0
$ 34 Decachlorobiphenyl	2881360	2668920	0.010	-7.4	15 0
36 Aroclor-1260(1)	280614	273946	0.010	-2 4	15.0
(2)	296827	288166	0.010	-2 9	15.0
(3)	299900	291352	0.010	-2.9	15.0
(4)	456321	456722	0.010	0.1	15.0
(5)	235769	235782	0.010	0.0	15 0

673 1553

FE HP6890SM
D3608

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70837.D

Report Date: 18-Oct-2000 11:36

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: H-A70837.D
Analysis Type:
Lab Sample ID: M1660
Method: \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m

Injection Date: 18-OCT-2000 10:52
Init. Cal. Date(s): 19-SEP-2000 11-OCT-2000
Init. Cal. Times: 09:55 15:45
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
	20 Aroclor-1016(1)	116639	107234	0.010	-8.1	15.0
	(2)	225497	200580	0.010	-11 0	15.0
	(3)	376589	340356	0 010	-9 6	15 0
	(4)	228581	206234	0.010	-9 8	15.0
	(5)	145169	130990	0.010	-9.8	15.0
$	1 Tetrachloro-m-xylene	7002034	6980000	0.000	-0 3	15.0
$	34 Decachlorobiphenyl	2881360	2591680	0.010	-10.1	15.0
	36 Aroclor-1260(1)	280614	262378	0.010	-6 5	15 0
	(2)	296827	285158	0 010	-3 9	15 0
	(3)	299900	286964	0.010	-4.3	15 0
	(4)	456321	451754	0 010	-1.0	15 0
	(5)	235769	231390	0 010	-1 9	15 0

FC HP6890/5M
D3608

STL - Pittsburgh

673 1554

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: H-A70850.D
Analysis Type:
Lab Sample ID: M1660
Method: \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m

Injection Date: 18-OCT-2000 15:09
Init. Cal. Date(s): 19-SEP-2000 11-OCT-2000
Init. Cal. Times: 09:55 15:45
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
	20 Aroclor-1016(1)	116639	117680	0.010	0 9	15 0
	(2)	225497	221268	0 010	-1 9	15 0
	(3)	376589	369494	0 010	-1 9	15.0
	(4)	228581	226116	0.010	-1 1	15.0
	(5)	145169	143558	0 010	-1.1	15.0
$	1 Tetrachloro-m-xylene	7002034	7860720	0.000	12 3	15.0
$	34 Decachlorobiphenyl	2881360	2734960	0 010	-5.1	15 0
	36 Aroclor-1260(1)	280614	283006	0 010	0 9	15.0
	(2)	296827	299280	0 010	0.8	15 0
	(3)	299900	302330	0.010	0.8	15 0
	(4)	456321	478874	0 010	4.9	15.0
	(5)	235769	244436	0.010	3.7	15 0

673 1555

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0J140161

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 09/19/00 10/11/00

Instrument ID: GC8

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 1.67 DCB: 10.62

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		M2154	09/19/00	0955	1.67	10.62
02		M1232	09/19/00	1015		
03		M1242	09/19/00	1034		
04		M1248	09/19/00	1054		
05		L1660	09/19/00	1114	1.67	10.62
06		ML1660	09/19/00	1134	1.67	10.62
07		M1660	09/19/00	1154	1.67	10.62
08		MH1660	09/19/00	1213	1.67	10.62
09		H1660	09/19/00	1233	1.67	10.62
10		2ND2154	09/19/00	1253	1.67	
11		2ND1232	09/19/00	1313		
12		2ND1242	09/19/00	1332		
13		2ND1248	09/19/00	1352		
14		2ND1660	09/19/00	1412	1.72	
15		M1254	10/16/00	0917	1.68	10.61
16		M1232	10/16/00	0937		
17		M1242	10/16/00	0957		
18		M1248	10/16/00	1017		
19		M1660	10/16/00	1036	1.68	10.62
20		M1660	10/18/00	1052	1.68	10.62
21	DF/S1/0287/T	DM6501AF	10/18/00	1330	1.68	10.63
22	DF/S1/0287/T	DM6501CG	10/18/00	1350	1.68	10.63
23	DF/S1/0287/T	DM6501CH	10/18/00	1409	1.68	10.63
24	PBLK	DM8P01AA	10/18/00	1429	1.68	10.63
25	LCS	DM8P01AC	10/18/00	1449	1.68	10.63
26		M1660	10/18/00	1509	1.68	10.63
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.

673 1556

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60378.D
Lab Smp Id: M2154
Inj Date : 19-SEP-2000 09:55
Operator : 010139 Inst ID: gc8.i
Smp Info : M2154,6190.b
Misc Info : 190-98-13
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:45 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 09:55 Cal File: H-A60378.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-2154.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
8 Aroclor-1221					CAS #: 11104-28-2			
1.460	1.460	(0.000)	25605	0.50000	0.50000	0.00- 0 00	0.00	(M)
1 984	1.984	(0.000)	38035	0 50000	0 50000	116.57- 156.57	0 00	
2 184	2.184	(0.000)	74304	0.50000	0 50000	66 04- 106 04	0 00	
Average of Peak Amounts =					0.5			
$ 1 Tetrachloro-m-xylene					CAS #. 877-09-8			
1.671	1.670	(0.001)	168227	0.02500	0.025000			(M)
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
10 618	10 618	(0 000)	66368	0 02500	0 025000			(M)
33 Aroclor-1254					CAS #: 11097-69-1			
4 382	4.382	(0.000)	99189	0.50000	0.50000	0.00- 0.00	0.00	(M)
4.454	4.454	(0.000)	119491	0.50000	0.50000	92 23- 132.23	0 00	
5 257	5 257	(0 000)	180153	0.50000	0.50000	77 40- 117.40	0.00	
5 429	5 429	(0 000)	121780	0.50000	0.50000	51.09- 91.09	0.00	
5.648	5.648	(0.000)	94580	0.50000	0.50000	65.01- 105.01	0.00	
Average of Peak Amounts =					0 5			

QC Flag Legend

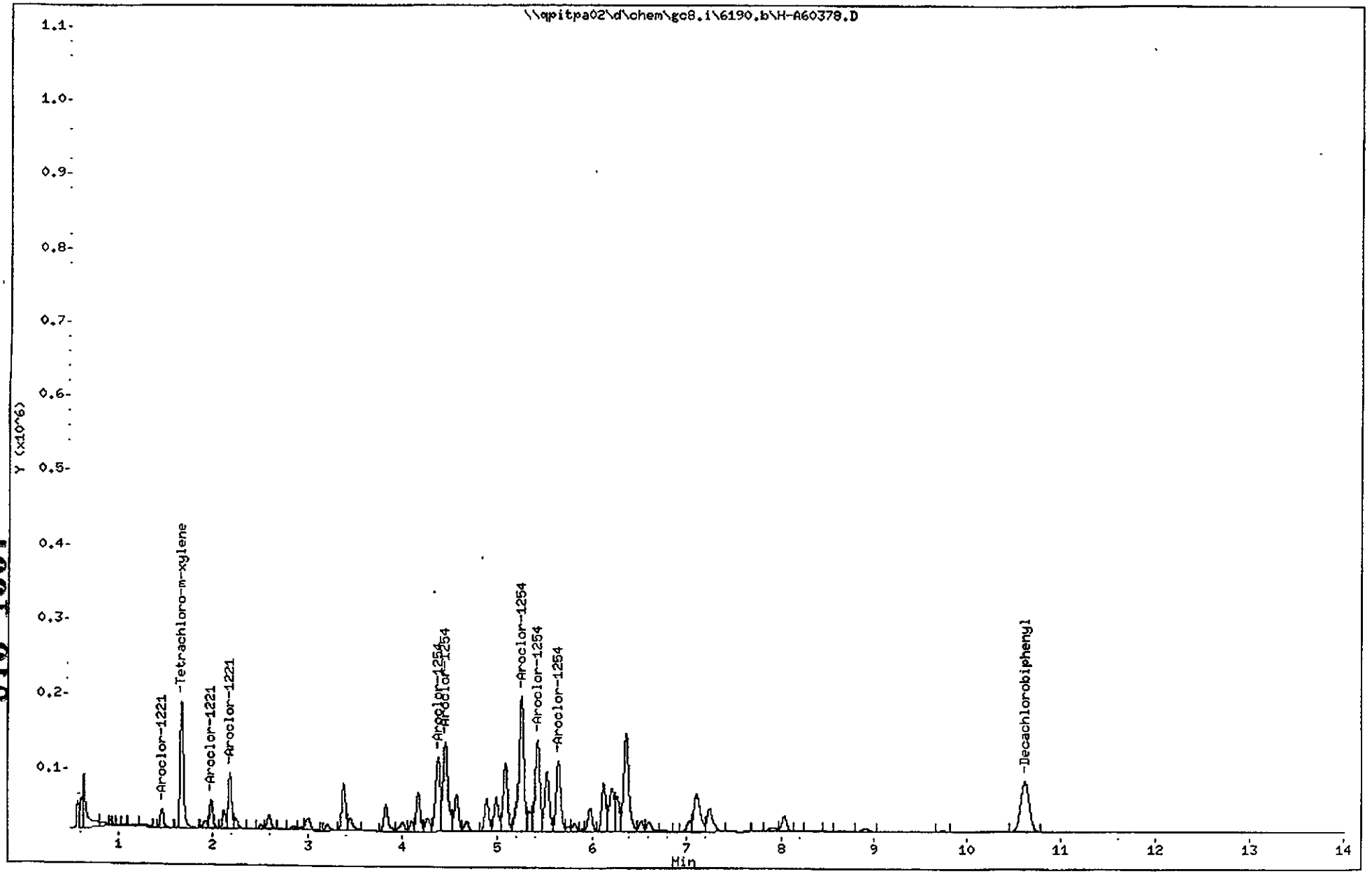
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60378.D
Date : 19-SEP-2000 09:55
Client ID:
Sample Info: M2154,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1557

673 1553

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60379.D
Lab Smp Id: M1232
Inj Date : 19-SEP-2000 10:15
Operator : 010139 Inst ID: gc8.i
Smp Info : M1232,6190.b
Misc Info : 190-98-14
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:45 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 10:15 Cal File: H-A60379.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-1232.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 Aroclor-1232					CAS # 11141-16-5		
2.185	2.185	(0 000)	51833	0.50000	0.50000	0.00- 0.00	0.00(M)
2.598	2.598	(0.000)	48212	0.50000	0.50000	146.26- 186.26	0.00
3 007	3 007	(0.000)	73555	0 50000	0 50000	65 99- 105 99	0 00
3 379	3 379	(0.000)	49127	0.50000	0 50000	74.18- 114.18	0.00
Average of Peak Amounts =					0.5		

QC Flag Legend

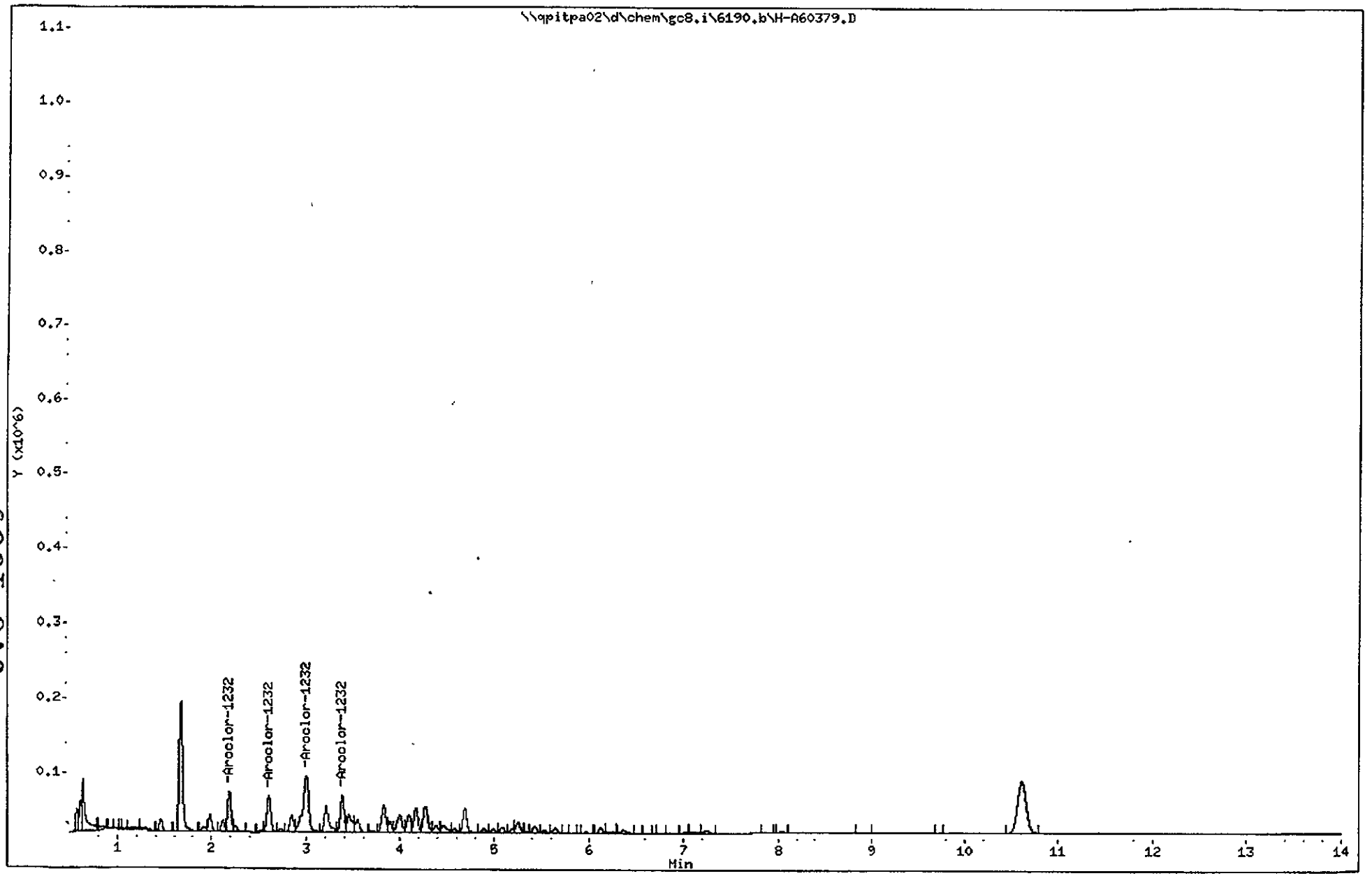
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60379.D
Date : 19-SEP-2000 10:15
Client ID:
Sample Info: M1232,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1559

4023

STL Pittsburgh

673 1560

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60380.D
Lab Smp Id: M1242
Inj Date : 19-SEP-2000 10:34
Operator : 010139 Inst ID: gc8.i
Smp Info : M1242,6190.b
Misc Info : 190-99-1
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:45 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 10:34 Cal File: H-A60380.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-1242.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
15 Aroclor-1242						CAS # 53469-21-9		
3.008	3.008	(0.000)	141703	0.50000	0.50000	0.00-	0.00	0.00(M)
3.379	3.379	(0.000)	86933	0.50000	0.50000	310.13-	350.13	0.00
3.821	3.821	(0.000)	61179	0.50000	0.50000	749.70-	789.70	0.00
4.268	4.268	(0.000)	66557	0.50000	0.50000	512.48-	552.48	0.00
4.685	4.685	(0.000)	62866	0.50000	0.50000	314.30-	354.30	0.00
Average of Peak Amounts =					0.5			

QC Flag Legend

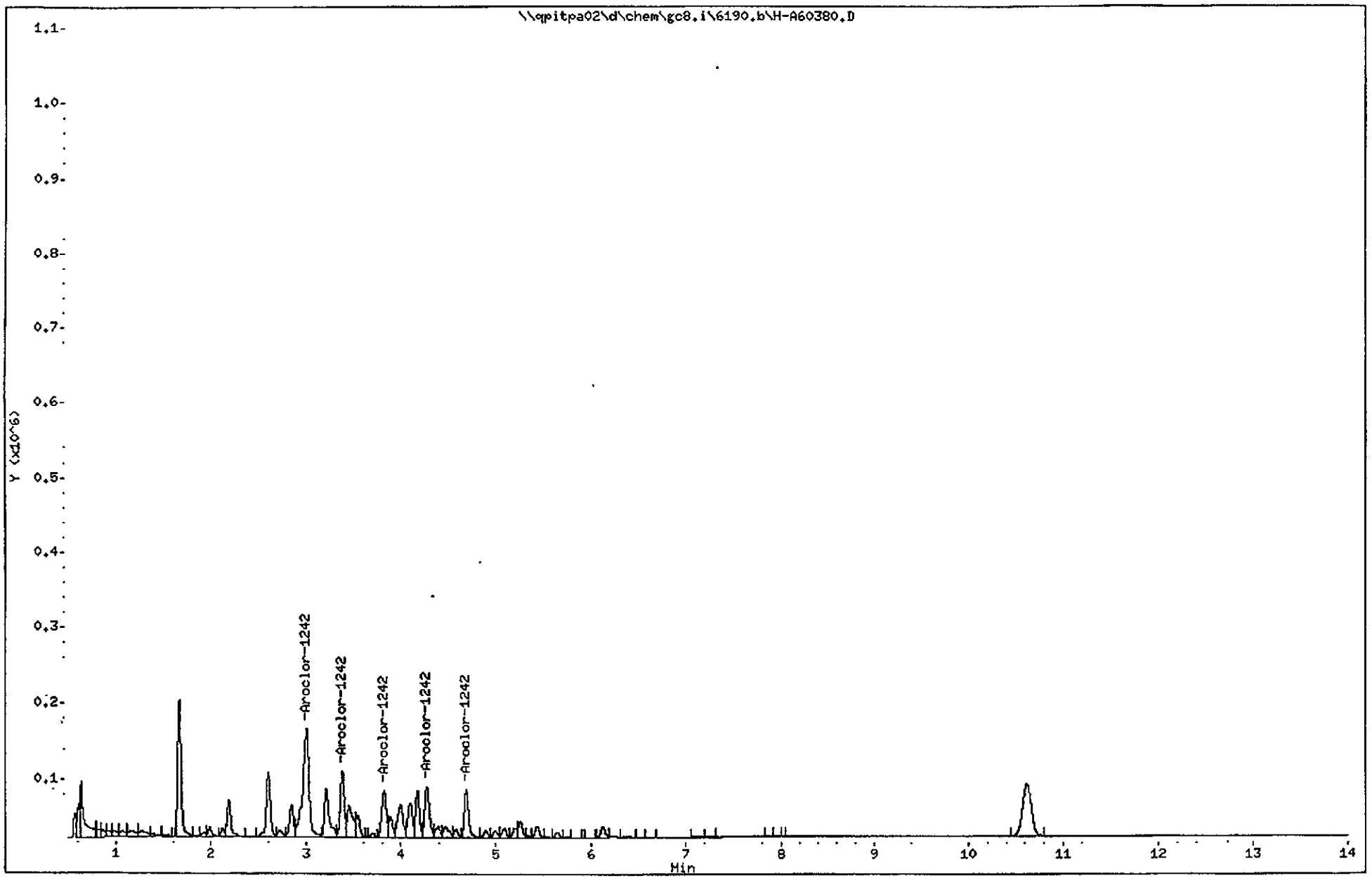
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60380.D
Date : 19-SEP-2000 10:34
Client ID:
Sample Info: M1242,6190.b

Column phase: DB608

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53



673 1561

4025

STL Pittsburgh

673 1562

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60381.D
Lab Smp Id: M1248
Inj Date : 19-SEP-2000 10:54
Operator : 010139 Inst ID: gc8.i
Smp Info : M1248,6190.b
Misc Info : 190-99-2
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:46 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 10:54 Cal File: H-A60381.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 5-1248.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
21 Aroclor-1248						CAS #: 12672-29-6		
3.381	3.381	(0.000)	94530	0.50000	0.50000	0.00-	0.00	0.00(M)
3 825	3.825	(0.000)	87287	0.50000	0.50000	114.57-	154.57	0.00
4.171	4 171	(0.000)	108454	0 50000	0.50000	63.67-	103 67	0.00
4.269	4 269	(0.000)	101360	0.50000	0 50000	43 86-	83 86	0.00
4.686	4.686	(0 000)	108492	0 50000	0.50000	128 08-	168 08	0.00
Average of Peak Amounts =					0.5			

QC Flag Legend

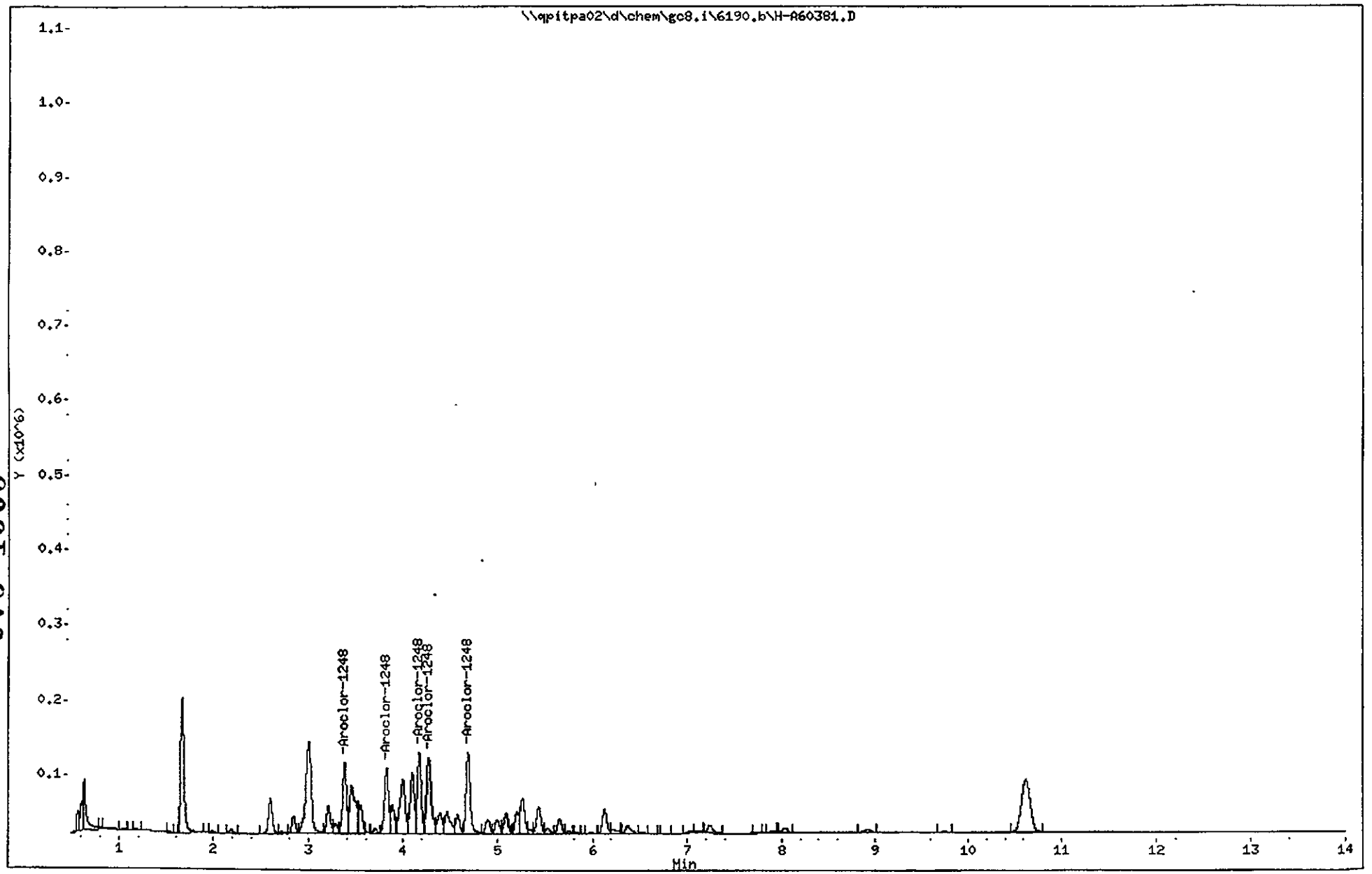
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60381.D
Date : 19-SEP-2000 10:54
Client ID:
Sample Info: H1248,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1563

4027

STL Pittsburgh

673 1564

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60382.D
Lab Smp Id: L1660
Inj Date : 19-SEP-2000 11:14
Operator : 010139 Inst ID: gc8.i
Smp Info : L1660,6190.b
Misc Info : 190-99-3
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:46 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 11:14 Cal File: H-A60382.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2.184	2.184	(0.000)	12273	0.10000	0.10000	0.00- 0.00	0.00
2.600	2.600	(0.000)	23906	0.10000	0.10000	80.00- 120.00	0.00
3 004	3 006	(-0.002)	38707	0.10000	0.10000	416.04- 456 04	0.00
3 380	3.378	(0.002)	23583	0.10000	0 10000	203.51- 243 51	0.00
3 824	3.820	(0.004)	15135	0 10000	0 10000	297.56- 337.56	0.00
Average of Peak Amounts =					0 1		
$ 1 Tetrachloro-m-xylene					CAS #· 877-09-8		
1.672	1.670	(0.002)	39894	0.00500	0.0054248		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.621	10.618	(0 003)	16666	0.00500	0.0055665		
36 Aroclor-1260					CAS # 11096-82-5		
5 531	5 530	(0 001)	28840	0 10000	0 10000	0 00- 0 00	0.00(M)
5.652	5.651	(0.001)	29961	0.10000	0.10000	95 86- 135.86	0.00
6 369	6.371	(-0 002)	29487	0.10000	0.10000	116.91- 156.91	0.00
7 244	7 244	(0 000)	43449	0.10000	0 10000	120.00- 160.00	0.00
8.040	8 038	(0.002)	22861	0.10000	0 10000	108.33- 148 33	0.00
Average of Peak Amounts =					0 1		

QC Flag Legend

M - Compound response manually integrated.

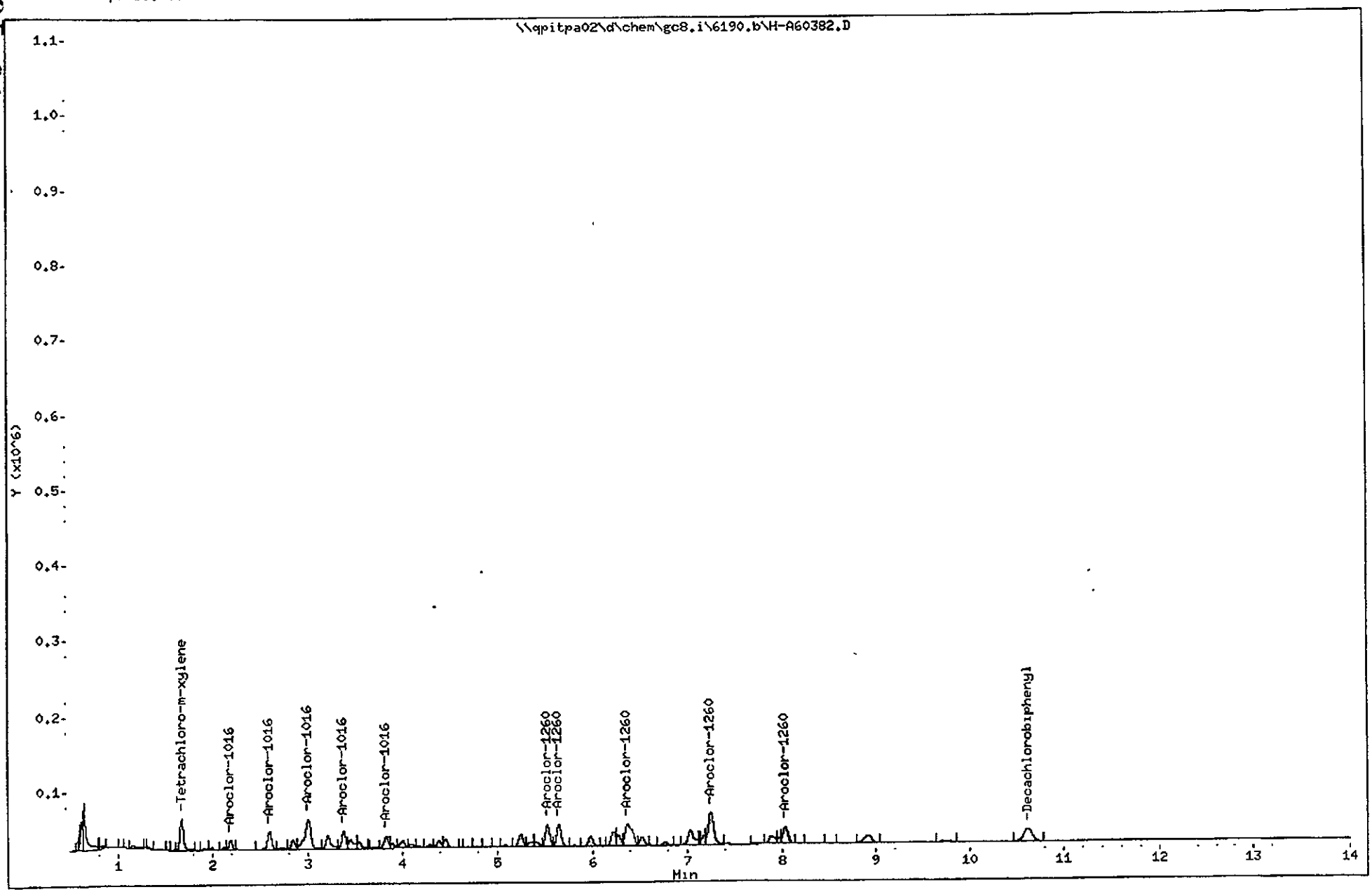
Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60382.D
Date : 19-SEP-2000 11:14
Client ID:
Sample Info: L1660,6190,b

Column phase: DB608

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

673 1566



4030
STL Pittsburgh

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60383.D
Lab Smp Id: ML1660
Inj Date : 19-SEP-2000 11:34
Operator : 010139 Inst ID: gc8.i
Smp Info : ML1660,6190.b
Misc Info : 190-99-4
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:47 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 11:34 Cal File: H-A60383.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS # 12674-11-2		
2.186	2 184	(0 002)	27805 0 20000	0.21245	0 00- 0.00		0.00
2 599	2.600	(-0.001)	53238 0 20000	0.21074	80.00- 120.00		0 00
3 007	3.006	(0.001)	86834 0 20000	0 21147	416.04- 456 04		0 00
3 379	3 378	(0.001)	52767 0.20000	0.21121	203.51- 243 51		0 00
3 823	3 820	(0.003)	33681 0 20000	0 21067	297 56- 337 56		0 00
Average of Peak Amounts =				0.21131			
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1.671	1.670	(0.001)	72997 0 01000	0.0099507			
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 618	10.618	(0.000)	29826 0 01000	0.0099747			
36 Aroclor-1260					CAS #: 11096-82-5		
5.530	5 530	(0.000)	61144 0.20000	0.20583	0 00- 0 00		0.00
5 653	5 651	(0 002)	64698 0.20000	0 20766	95 86- 135 86		0 00
6 368	6 371	(-0.003)	64306 0.20000	0.20865	116.91- 156.91		0.00
7 243	7 244	(-0 001)	96828 0 20000	0 21081	120 00- 160 00		0.00
8.038	8 038	(0 000)	50155 0.20000	0.20925	108 33- 148 33		0.00
Average of Peak Amounts =				0 20844			

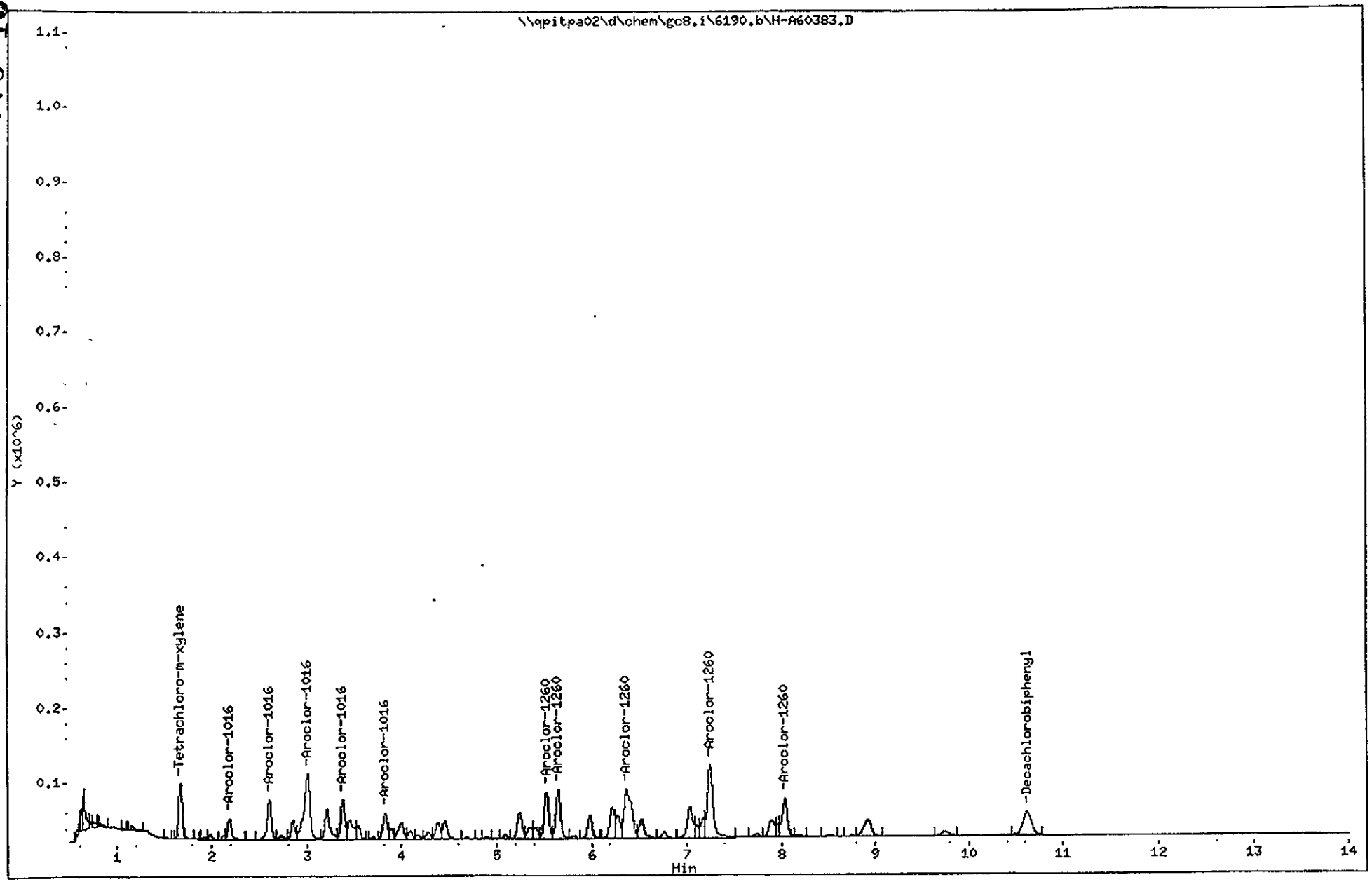
Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60383.D
Date : 19-SEP-2000 11:34
Client ID:
Sample Info: ML1660,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608

673 1568



STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60384.D
Lab Smp Id: M1660
Inj Date : 19-SEP-2000 11:54
Operator : 010139 Inst ID: gc8.1
Smp Info : M1660,6190.b
Misc Info : 190-99-5
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:47 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 11:54 Cal File: H-A60384.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS # 12674-11-2		
2.184	2.184	(0.000)	56457	0 50000	0.45206	0.00- 0.00	0.00(M)
2 600	2 600	(0 000)	109796	0 50000	0.45443	80 00- 120 00	0.00
3.006	3.006	(0.000)	184129	0 50000	0.46439	416 04- 456 04	0.00
3 378	3 378	(0 000)	111555	0.50000	0.46303	203.51- 243.51	0.00
3.820	3.820	(0.000)	70604	0 50000	0.45950	297 56- 337.56	0.00
		Average of Peak Amounts =			0.45868		
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1.670	1.670	(0.000)	165828	0 02500	0.022704		(M)
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.618	10.618	(0 000)	70401	0.02500	0.023128		(M)
36 Aroclor-1260					CAS #: 11096-82-5		
5.530	5 530	(0 000)	140484	0.50000	0.48161	0 00- 0.00	0.00(M)
5 651	5 651	(0.000)	149318	0.50000	0.48599	95 86- 135.86	0.00
6 371	6 371	(0 000)	152356	0 50000	0 49621	116 91- 156.91	0.00
7.244	7 244	(0 000)	231212	0 50000	0.50225	120 00- 160.00	0.00
8 038	8 038	(0.000)	117820	0 50000	0.49433	108.33- 148.33	0 00
		Average of Peak Amounts =			0.49208		

673 1570

QC Flag Legend

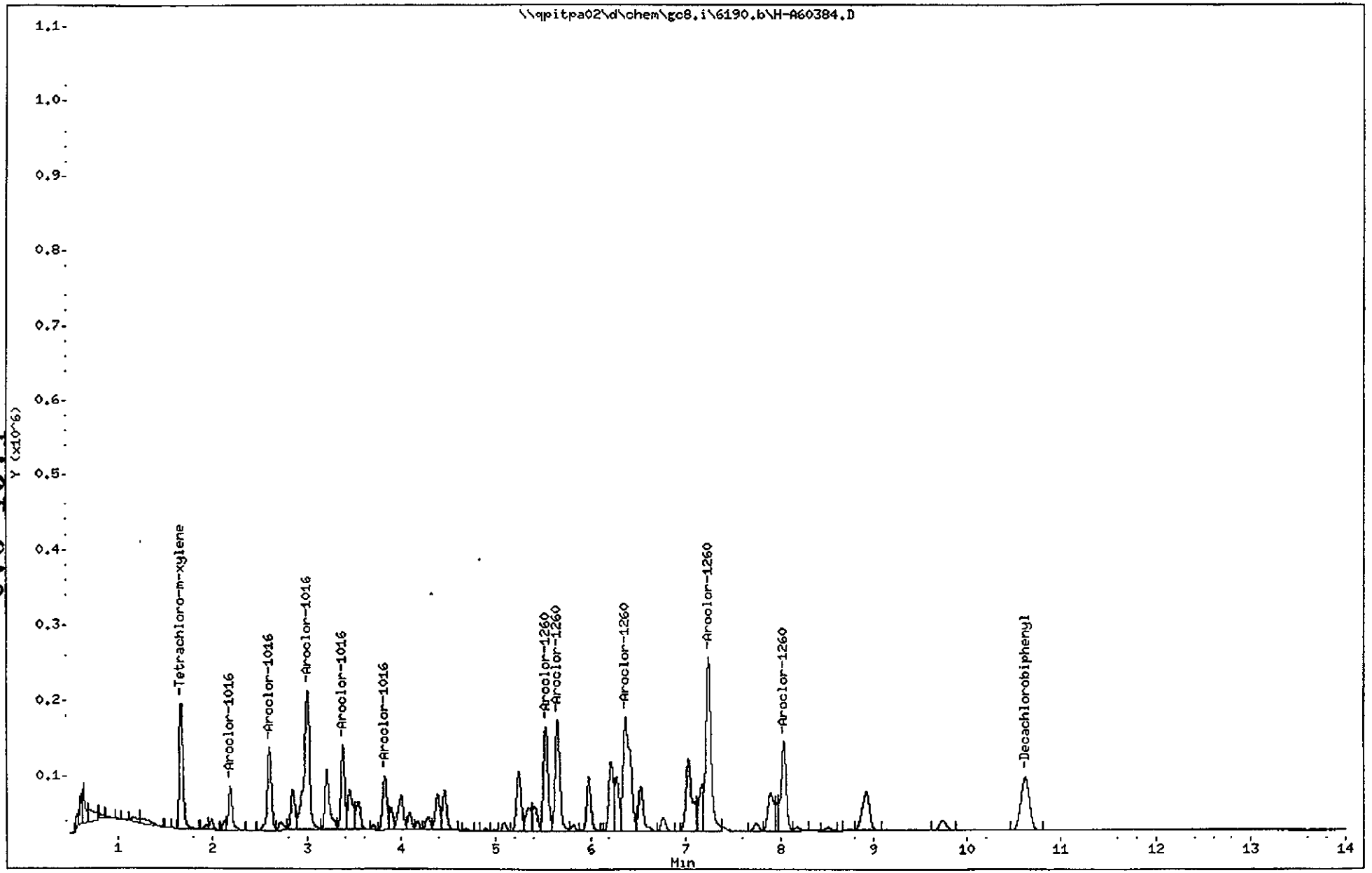
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60384.D
Date : 19-SEP-2000 11:54
Client ID:
Sample Info: M1660,6190.b

Column phase: DB608

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53



673 1571

STL Pittsburgh

673 1572

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60385.D
Lab Smp Id: MH1660
Inj Date : 19-SEP-2000 12:13
Operator : 010139 Inst ID: gc8.i
Smp Info : MH1660,6190.b
Misc Info : 190-99-6
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:47 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:13 Cal File: H-A60385.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

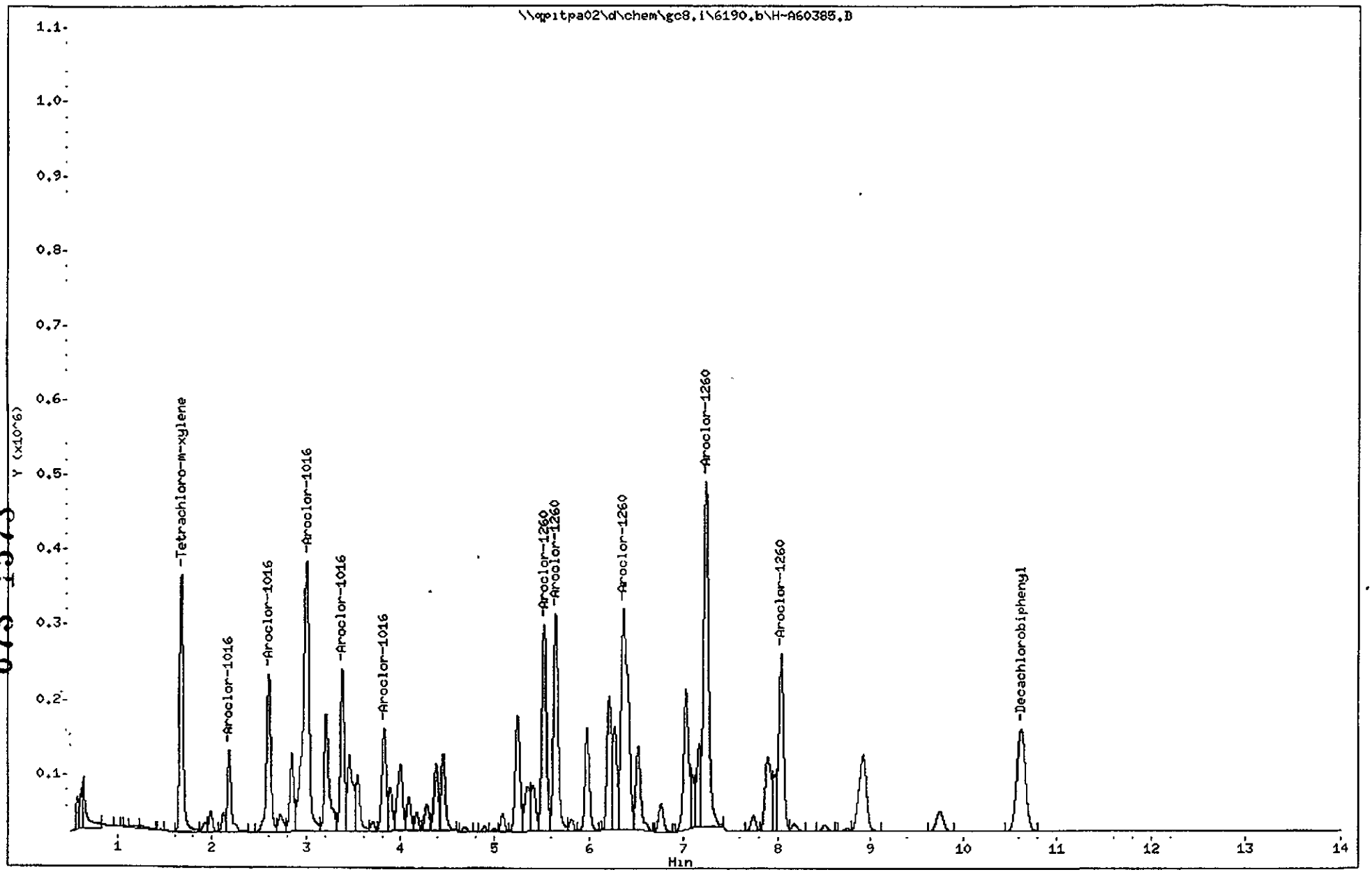
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2.186	2 184	(0 002)	108336	1 00000	0 89718	0.00- 0.00	0 00
2.601	2.600	(0 001)	208413	1.00000	0.89327	80.00- 120.00	0.00
3 009	3.006	(0 003)	357203	1.00000	0.92378	416.04- 456.04	0 00
3 380	3.378	(0 002)	215175	1.00000	0 91764	203.51- 243.51	0.00
3 825	3.820	(0.005)	136232	1.00000	0.91248	297 56- 337.56	0 00
Average of Peak Amounts =					0.90887		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.674	1 670	(0.004)	339530	0.05000	0.047318		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 619	10.618	(0 001)	134851	0.05000	0 045601		
36 Aroclor-1260					CAS #. 11096-82-5		
5 530	5.530	(0 000)	272304	1.00000	0 94930	0.00- 0.00	0.00
5 652	5.651	(0.001)	287347	1.00000	0.95063	95.86- 135.86	0.00
6 372	6 371	(0 001)	292438	1 00000	0.96391	116.91- 156.91	0.00
7 243	7.244	(-0 001)	455965	1 00000	0.99284	120.00- 160 00	0 00
8 040	8 038	(0 002)	234120	1 00000	0.98666	108.33- 148.33	0 00
Average of Peak Amounts =					0.96867		

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60385.D
Date : 19-SEP-2000 12:13
Client ID:
Sample Info: MH1660,6190,b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1573

4037

STL Pittsburgh

673 1574

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60386.D
Lab Smp Id: H1660
Inj Date : 19-SEP-2000 12:33
Operator : 010139 Inst ID: gc8.i
Smp Info : H1660,6190.b
Misc Info : 190-99-7
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 13:48 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

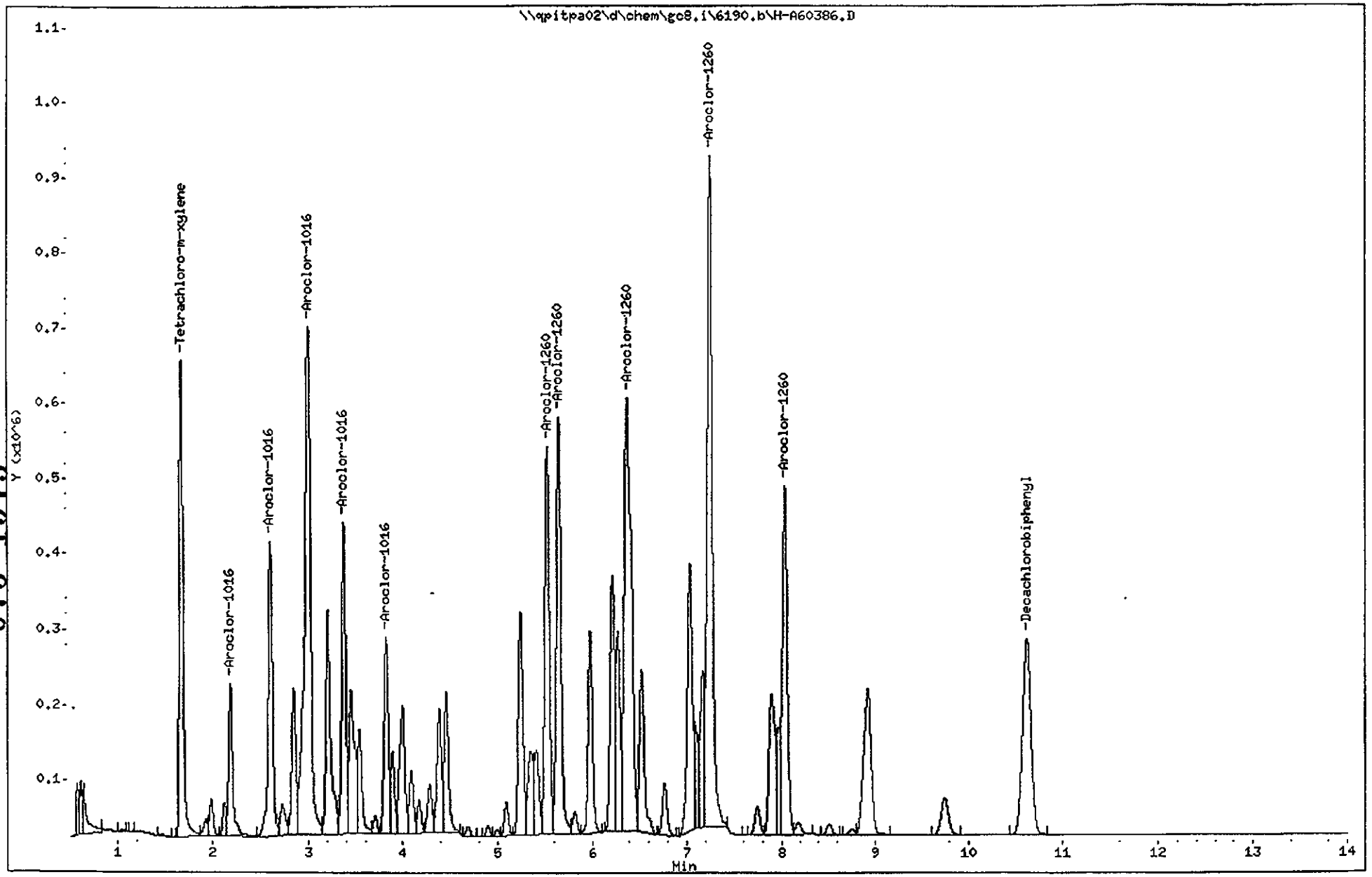
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2.186	2.184	(0.002)	200377	2.00000	1.7179	0.00- 0.00	0.00
2.601	2 600	(0.001)	388457	2.00000	1.7227	80 00- 120 00	0 00
3 004	3 006	(-0 002)	672484	2.00000	1 7857	416 04- 456.04	0 00
3.380	3 378	(0 002)	409909	2.00000	1.7933	203 51- 243.51	0 00
3 823	3.820	(0.003)	257295	2.00000	1.7724	297.56- 337.56	0.00
Average of Peak Amounts =					1.7584		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1 672	1.670	(0.002)	630795	0 10000	0.090087		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.619	10.618	(0.001)	257794	0 10000	0.089470		
36 Aroclor-1260					CAS #: 11096-82-5		
5.532	5 530	(0.002)	511357	2 00000	1.8223	0.00- 0.00	0.00
5.651	5.651	(0 000)	550099	2 00000	1 8533	95.86- 135.86	0.00
6.374	6.371	(0.003)	571900	2.00000	1 9070	116.91- 156.91	0.00
7 243	7.244	(-0 001)	889174	2.00000	1.9486	120 00- 160 00	0.00
8.039	8.038	(0 001)	459397	2.00000	1.9485	108.33- 148.33	0 00
Average of Peak Amounts =					1.8959		

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60386.D
Date : 19-SEP-2000 12:33
Client ID:
Sample Info: H1660,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1575

STL Pittsburgh

673 1576

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60387.D
Lab Smp Id: 2ND2154
Inj Date : 19-SEP-2000 12:53
Operator : 010139 Inst ID: gc8.i
Smp Info : 2ND2154,6190.b
Misc Info : 190-92-1
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 15:14 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2154.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
8 Aroclor-1221					CAS #: 11104-28-2		
1.461	1 460	(0.001)	25573	0.50000	0.49938	0 00- 0.00	0.00
1.984	1 984	(0.000)	35520	0 50000	0.46694	116 57- 156.57	0.00
2 185	2 184	(0.001)	72808	0 50000	0 48993	66 04- 106.04	0 00
Average of Peak Amounts =					0.48542	2.97-D	
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.669	1.670	(-0.001)	9354	0.02500	0.0013359		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							
33 Aroclor-1254					CAS #: 11097-69-1		
4.387	4 382	(0.005)	94728	0.50000	0.47751	0.00- 0.00	0.00
4 459	4.454	(0.005)	116259	0.50000	0.48648	92.23- 132.23	0.00
5 261	5.257	(0.004)	170360	0.50000	0 47282	77 40- 117 40	0.00
5 434	5.429	(0.005)	121978	0 50000	0.50081	51.09- 91.09	0.00
5.649	5.648	(0.001)	93274	0.50000	0 49310	65 01- 105.01	0.00
Average of Peak Amounts =					0 48614	2.89-D	

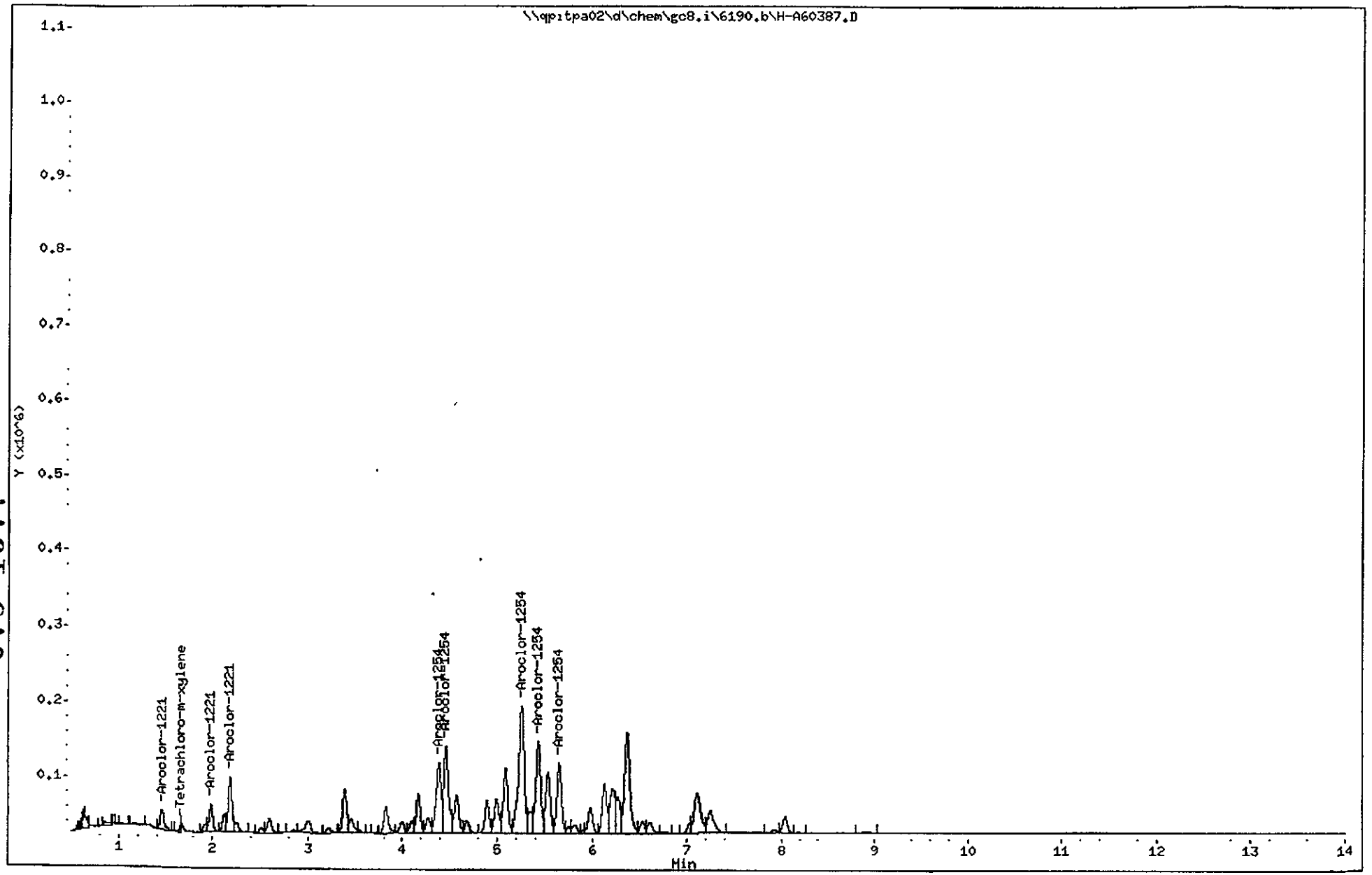
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Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60387.D
Date : 19-SEP-2000 12:53
Client ID:
Sample Info: 2ND2154,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1577

STL Pittsburgh

673 1578

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60388.D
Lab Smp Id: 2ND1232
Inj Date : 19-SEP-2000 13:13
Operator : 010139 Inst ID: gc8.i
Smp Info : 2ND1232,6190.b
Misc Info : 190-92-2
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 15:14 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 Aroclor-1232					CAS #: 11141-16-5		
2 185	2.185	(0.000)	72388	0.50000	0.69828	0.00- 0 00	0.00
2 599	2 598	(0 001)	53926	0.50000	0.55926	146.26- 186 26	0.00
3 008	3 007	(0 001)	79238	0.50000	0.53863	65.99- 105.99	0.00
3 380	3 379	(0 001)	48408	0.50000	0.49268	74.18- 114 18	0 00
		Average of Peak Amounts =			0.57221		

14.47-D

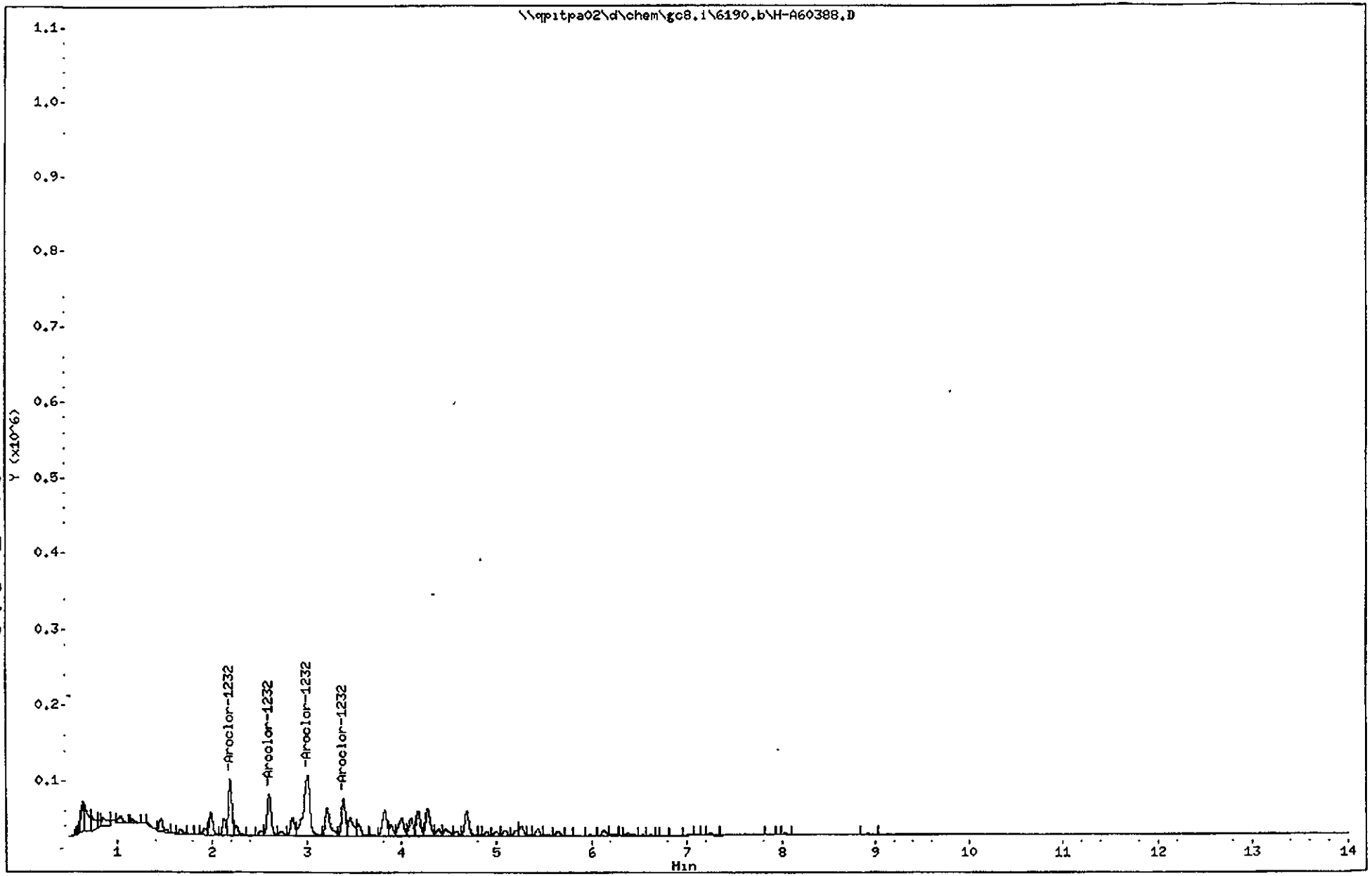
2nd SOURCE

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60388.D
Date : 19-SEP-2000 13:13
Client ID:
Sample Info: 2ND1232,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1579

4043

STL Pittsburgh

673 1580

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60389.D
Lab Smp Id: 2ND1242
Inj Date : 19-SEP-2000 13:32
Operator : 010139 Inst ID: gc8.i
Smp Info : 2ND1242,6190.b
Misc Info : 190-92-3
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 15:14 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Aroclor-1242					CAS #: 53469-21-9		
3.007	3.008	(-0 001)	150899	0.50000	0.53245	0 00- 0.00	0.00
3 381	3.379	(0.002)	93899	0.50000	0.54006	310 13- 350 13	0.00
3 821	3.821	(0.000)	65094	0 50000	0 53200	749.70- 789 70	0 00
4.271	4.268	(0.003)	67128	0.50000	0 50429	512 48- 552 48	0.00
4.686	4.685	(0.001)	60895	0.50000	0.48432	314 30- 354.30	0.00
		Average of Peak Amounts =			0 51862		

3.79.D

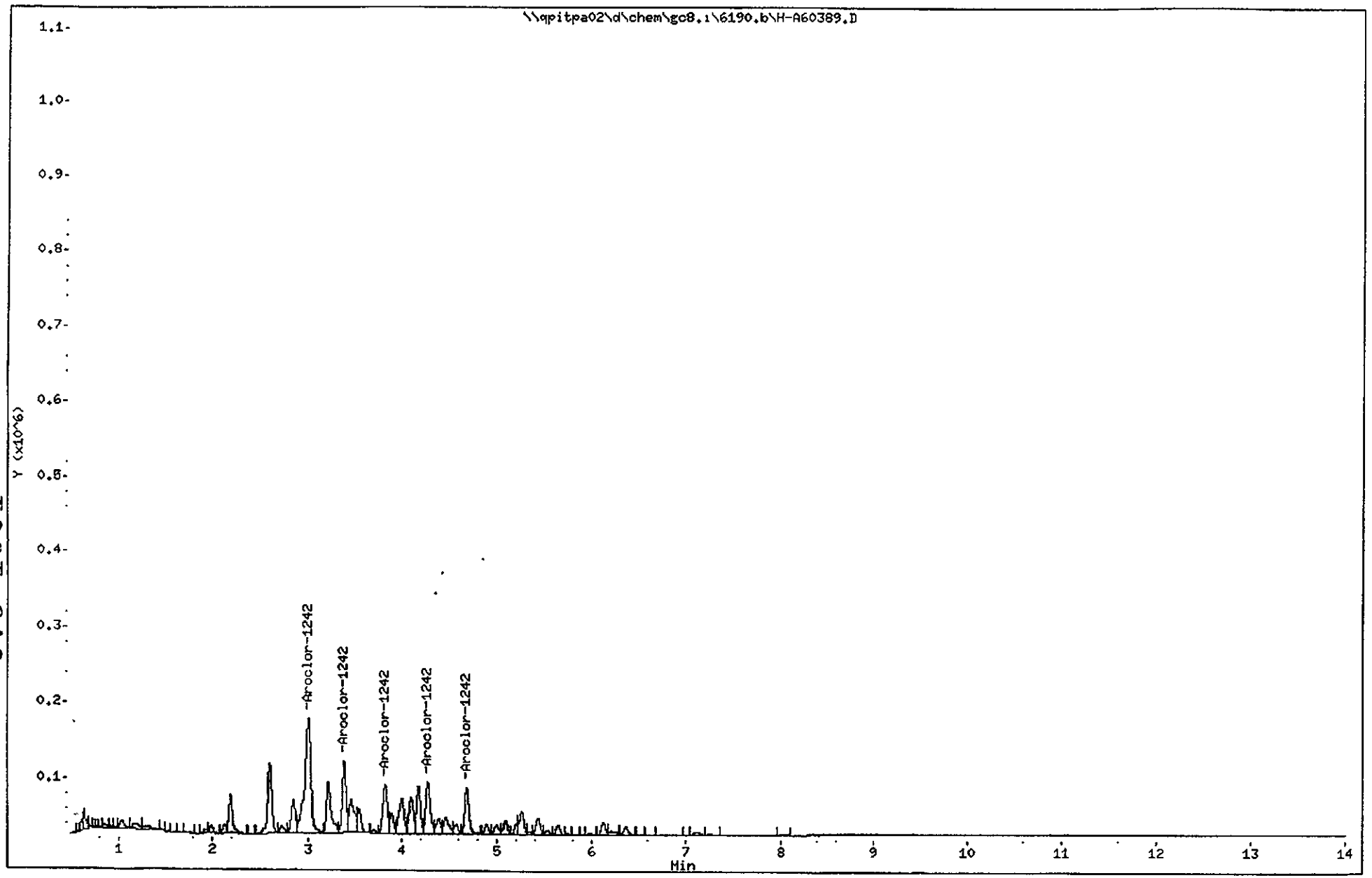
2nd source

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60389.D
Date : 19-SEP-2000 13:32
Client ID:
Sample Info: 2ND1242,6190.b

Instrument: gc8.1

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1581

4045

STL Pittsburgh

673 1582

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60390.D
Lab Smp Id: 2ND1248
Inj Date : 19-SEP-2000 13:52
Operator : 010139 Inst ID: gc8.i
Smp Info : 2ND1248,6190.b
Misc Info : 190-92-4
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 15:14 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1248.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
21 Aroclor-1248					CAS #: 12672-29-6		
3.381	3.381	(0.000)	98248	0.50000	0.51966	0.00- 0.00	0.00
3.825	3.825	(0.000)	92824	0.50000	0.53172	114.57- 154.57	0.00
4.171	4.171	(0.000)	105236	0.50000	0.48516	63.67- 103.67	0.00
4.268	4.269	(-0.001)	102705	0.50000	0.50663	43.86- 83.86	0.00
4.686	4.686	(0.000)	93180	0.50000	0.42943	128.08- 168.08	0.00
		Average of Peak Amounts =			0.49452		

1.19.D

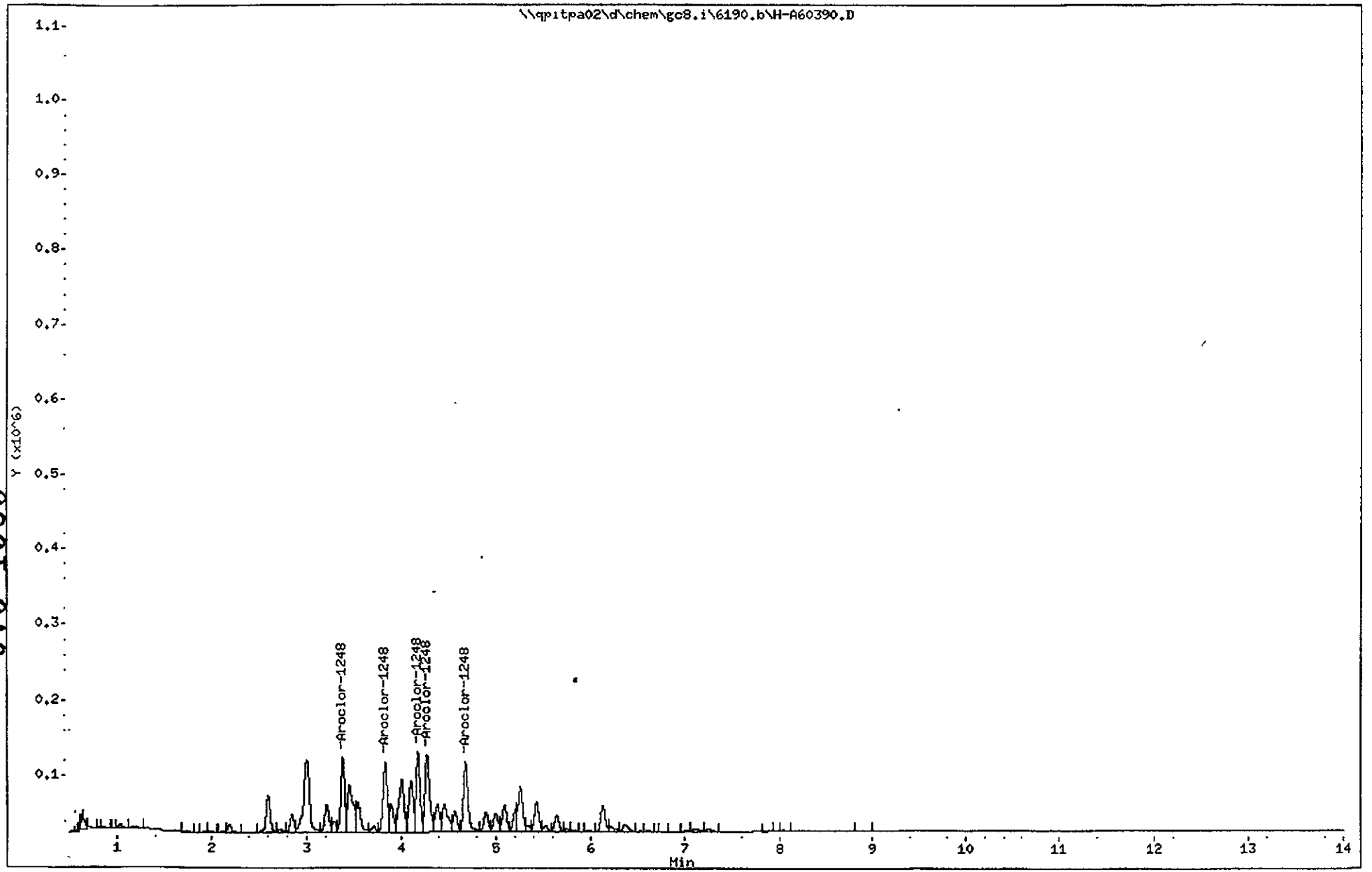
2nd SOURCE

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60390.D
Date : 19-SEP-2000 13:52
Client ID:
Sample Info: 2ND1248,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



673 1583

4047

STL Pittsburgh

673 1584

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A60391.D
Lab Smp Id: 2ND1660
Inj Date : 19-SEP-2000 14:12
Operator : 010139 Inst ID: gc8.i
Smp Info : 2ND1660,6190.b
Misc Info : 190-92-5
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 19-Sep-2000 15:14 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 12:33 Cal File: H-A60386.D
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 186	2.184	(0.002)	57210	0 50000	0 49049	0 00- 0 00	0 00
2.601	2.600	(0.001)	104347	0.50000	0.46274	80.00- 120.00	0.00
3 006	3.006	(0.000)	175753	0 50000	0 46670	416 04- 456.04	0 00
3 380	3 378	(0.002)	105749	0.50000	0 46263	203 51- 243.51	0 00
3.823	3.820	(0.003)	70109	0 50000	0 48295	297 56- 337 56	0 00
Average of Peak Amounts =					0.4731	5.49%D	
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1 716	1.670	(0.046)	2134	0 02500	0.00030477		
$ 34 Decachlorobiphenyl					CAS # 2051-24-3		
Compound Not Detected							
36 Aroclor-1260					CAS #: 11096-82-5		
5.531	5 530	(0 001)	136673	0 50000	0.48705	0.00- 0.00	0.00(M)
5.651	5 651	(0 000)	148076	0.50000	0.49886	95.86- 135.86	0.00
6.373	6.371	(0.002)	139254	0.50000	0.46433	116.91- 156.91	0.00
7.244	7.244	(0.000)	264871	0.50000	0.58045	120.00- 160.00	0.00
8 037	8 038	(-0 001)	127558	0 50000	0 54103	108 33- 148 33	0 00
Average of Peak Amounts =					0.51435	2.97%D	

2nd SOURCE

QC Flag Legend

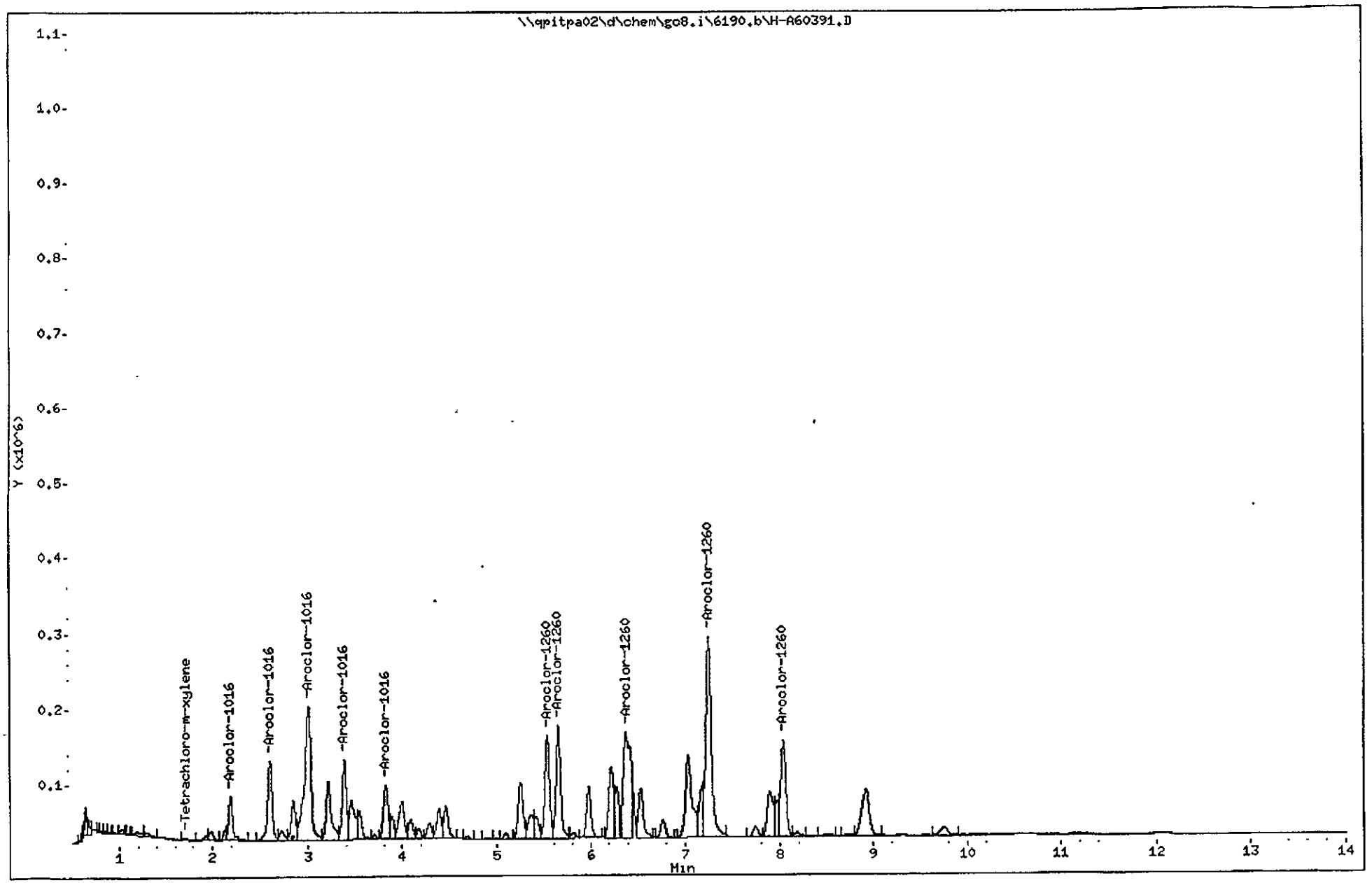
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A60391.D
Date : 19-SEP-2000 14:12
Client ID:
Sample Info: 2ND1660,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608



STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70729.D
Lab Smp Id: M1254
Inj Date : 16-OCT-2000 09:17
Operator : 010139 Inst ID: gc8.i
Smp Info : M1254,6190.b
Misc Info : 190-98-13
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 16-Oct-2000 10:09 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2154.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
8 Aroclor-1221					CAS # 11104-28-2		
1.464	1 460	(0 004)	26415	0.50000	0 51582	0.00- 0.00	0.00
1 989	1.984	(0 005)	35878	0.50000	0.47164	116 57- 156 57	0 00
2.189	2.184	(0 005)	69309	0.50000	0 46639	66 04- 106 04	0.00
Average of Peak Amounts =					0.48462	3.19-D	
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1.677	1 670	(0 007)	167732	0.02500	0.023955		
$ 34 Decachlorobiphenyl					CAS #. 2051-24-3		
10.613	10.618	(-0.005)	62210	0 02500	0 021590		
33 Aroclor-1254					CAS # 11097-69-1		
4.383	4.382	(0.001)	90406	0 50000	0.45572	0.00- 0 00	0.00
4 458	4 454	(0 004)	110287	0.50000	0.46149	92.23- 132 23	0.00
5.259	5.257	(0.002)	166021	0.50000	0.46078	77.40- 117 40	0.00
5.434	5.429	(0.005)	111780	0.50000	0.45894	51 09- 91 09	0.00
5.650	5.648	(0 002)	88646	0.50000	0.46863	65.01- 105 01	0.00
Average of Peak Amounts =					0.46111	1.89-D	

CCAL

Data File: \\qp1tpa02\d\chem\gc8.1\6190.b\H-A70729.D
Date : 16-OCT-2000 09:17
Client ID:
Sample Info: M1254,6190.b

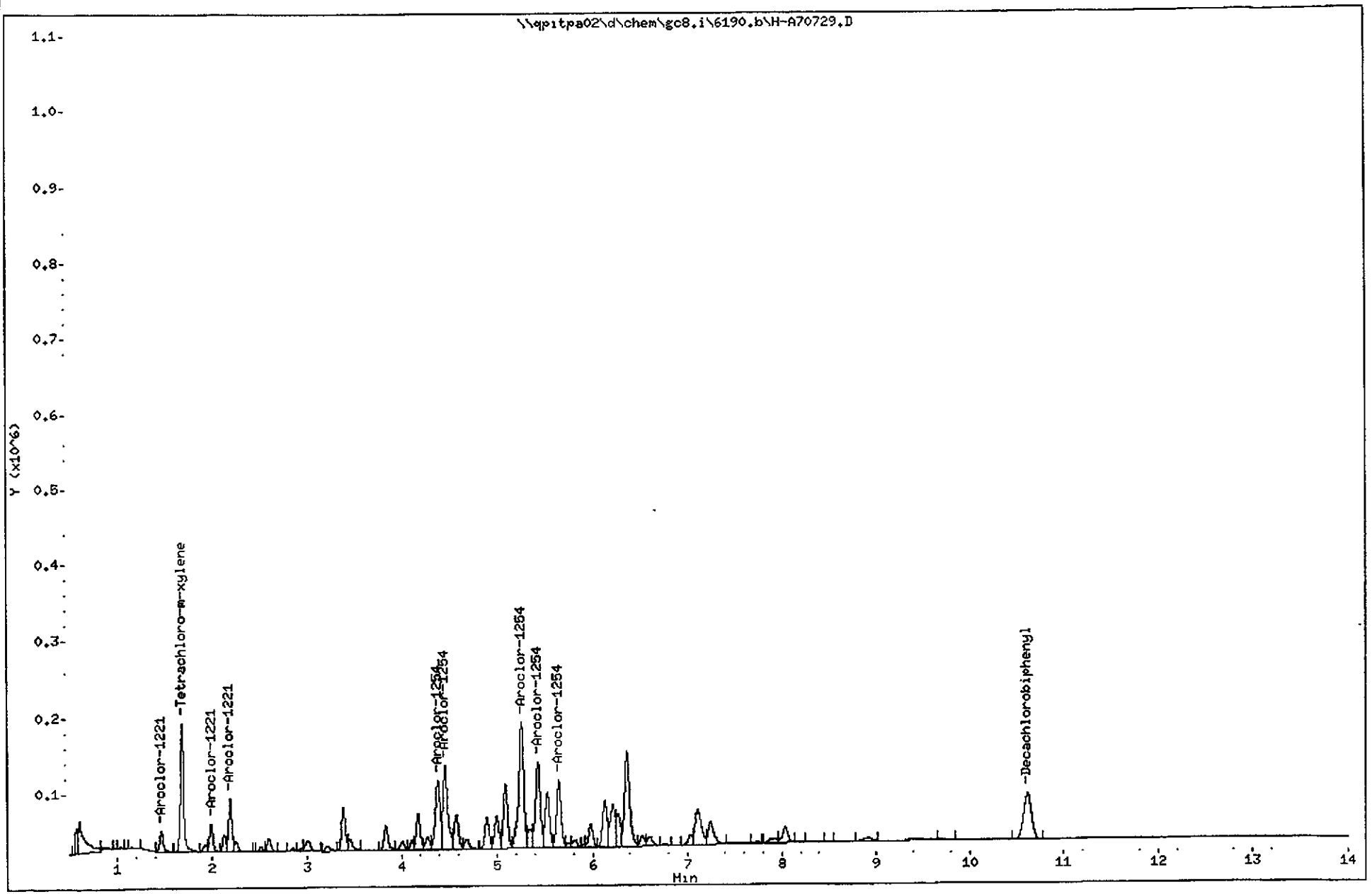
Column phase: DB608

Instrument: gc8.1

Operator: 010139
Column diameter: 0.53

673 1588

4052



STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70730.D
Report Date: 16-Oct-2000 10:10

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70730.D
Lab Smp Id: M1232
Inj Date : 16-OCT-2000 09:37
Operator : 010139 Inst ID: gc8.i
Smp Info : M1232,6190.b
Misc Info : 190-98-14
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 16-Oct-2000 10:09 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 Aroclor-1232					CAS #. 11141-16-5		
2 190	2.185	(0 005)	49193	0.50000	0.47453	0 00- 0.00	0.00
2 603	2.598	(0.005)	44809	0 50000	0.46471	146.26- 186 26	0 00
3.013	3.007	(0.006)	67659	0.50000	0 45992	65 99- 105.99	0 00
3.383	3.379	(0.004)	44814	0.50000	0 45610	74.18- 114 18	0 00
		Average of Peak Amounts =			0.46382	7.7-D	

CCAL

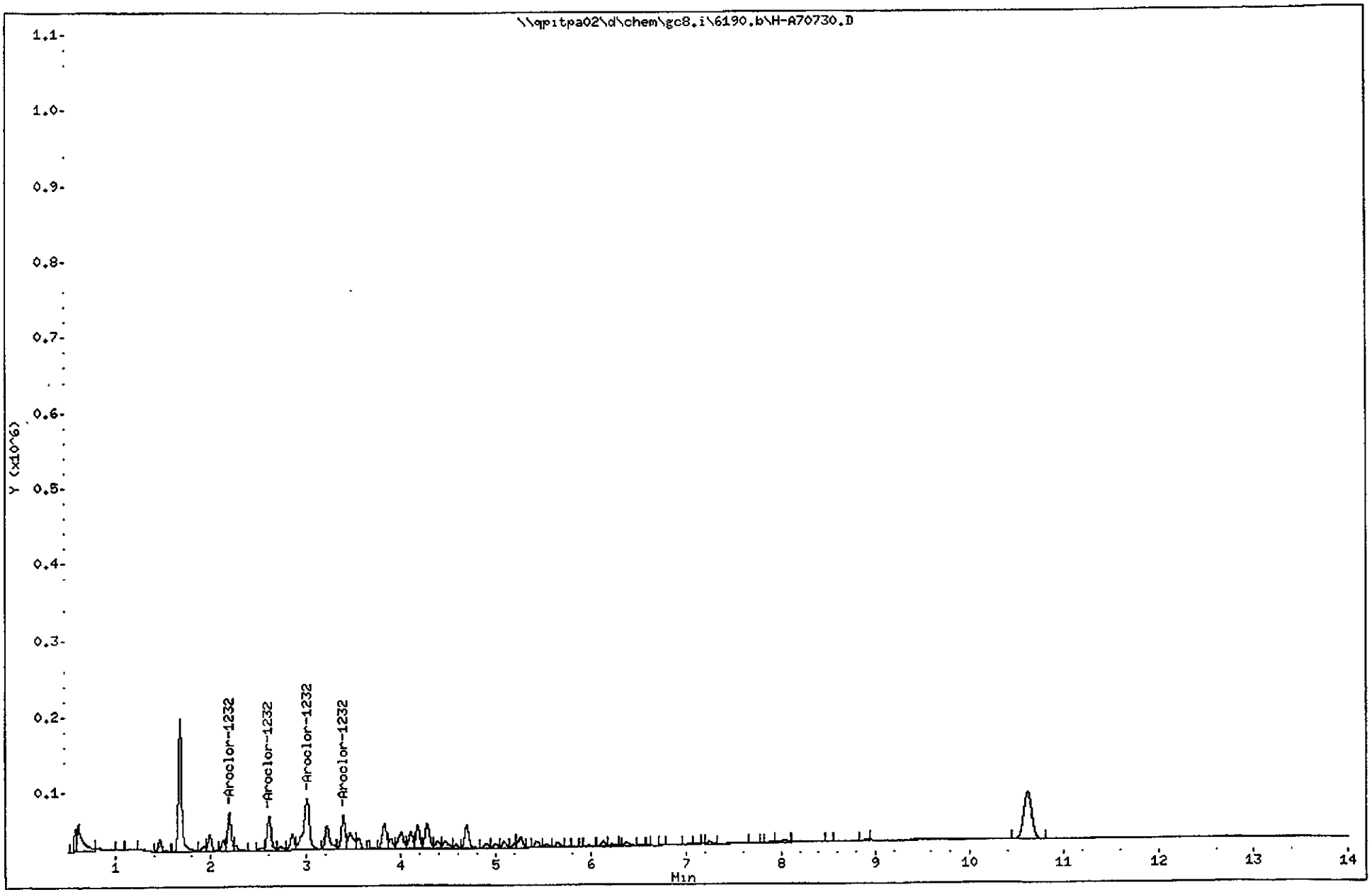
673 1590

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70730.D
Date : 16-OCT-2000 09:37
Client ID:
Sample Info: M1232,6190.b

Column phase: DB608

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53



4054

STL Pittsburgh

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70731.D
Lab Smp Id: M1242
Inj Date : 16-OCT-2000 09:57
Operator : 010139 Inst ID: gc8.i
Smp Info : M1242,6190.b
Misc Info : 190-99-1
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 16-Oct-2000 10:50 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Aroclor-1242					CAS #: 53469-21-9		
3 012	3.008	(0 004)	133970	0 50000	0.47271	0.00- 0 00	0.00
3 385	3.379	(0 006)	83357	0 50000	0.47943	310.13- 350.13	0.00
3.826	3 821	(0.005)	59831	0.50000	0 48898	749.70- 789.70	0 00
4 275	4 268	(0 007)	65707	0 50000	0.49361	512 48- 552 48	0.00
4.690	4.685	(0 005)	60328	0.50000	0 47981	314 30- 354.30	0 00
Average of Peak Amounts =					0.48291		

3.49.D

CCAL

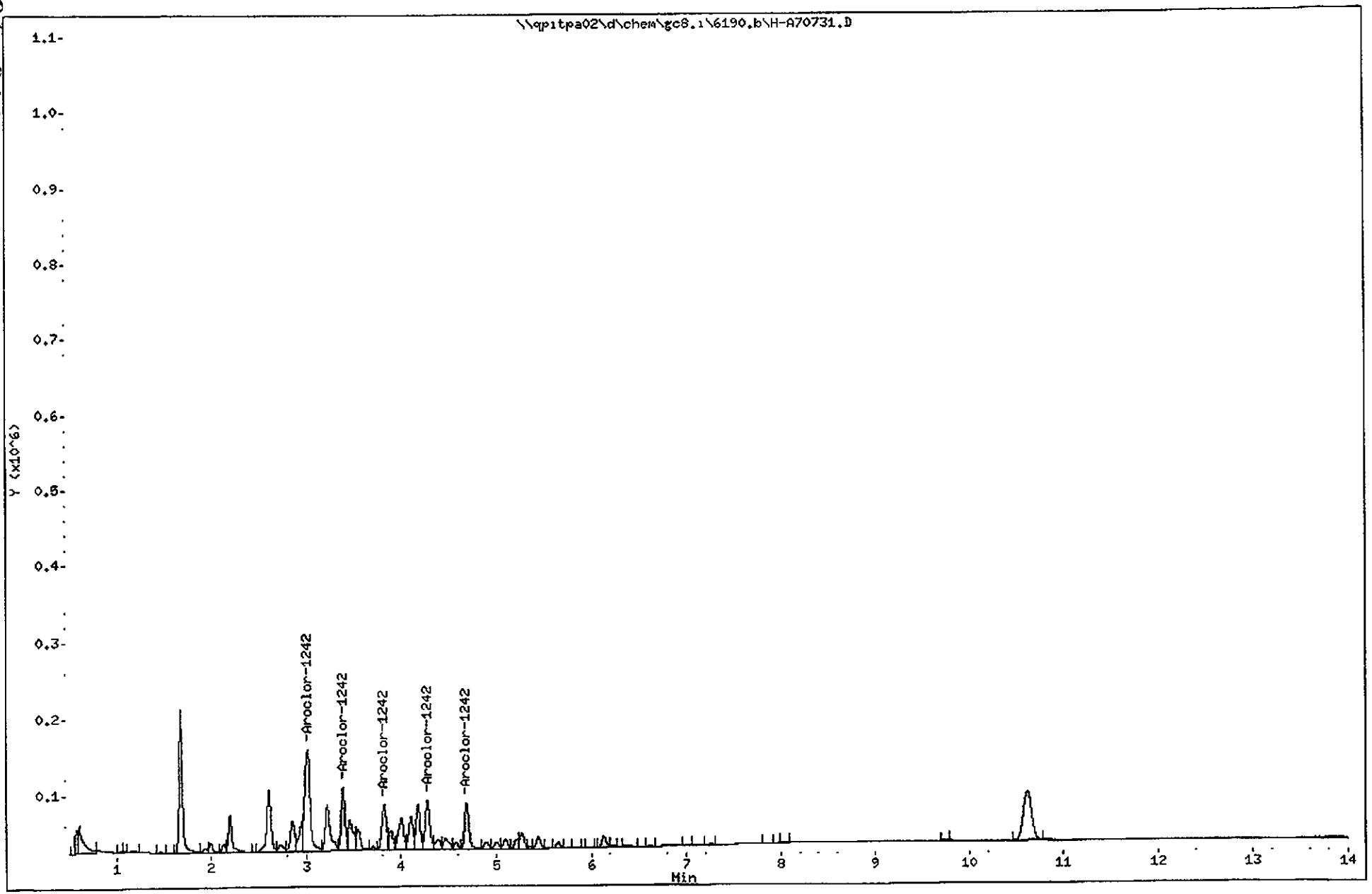
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Date : 16-OCT-2000 09:57
Client ID:
Sample Info: H1242,6190.b

Column phase: DB608

Instrument: gc8.1

Operator: 010139
Column diameter: 0.53

673 1592



4056

STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70732.D
Report Date: 16-Oct-2000 10:50

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70732.D
Lab Smp Id: M1248
Inj Date : 16-OCT-2000 10:17
Operator : 010139 Inst ID: gc8.i
Smp Info : M1248,6190.b
Misc Info : 190-99-2
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 16-Oct-2000 10:50 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1248.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
21 Aroclor-1248					CAS #: 12672-29-6		
3.386	3.381	(0 005)	86568	0.50000	0.45789	0 00- 0 00	0 00
3 827	3 825	(0 002)	81178	0 50000	0.46501	114.57- 154.57	0 00
4 176	4.171	(0.005)	101246	0.50000	0.46677	63.67- 103.67	0 00
4 275	4.269	(0 006)	94166	0.50000	0.46451	43.86- 83.86	0 00
4 691	4 686	(0.005)	102437	0 50000	0.47209	128 08- 168.08	0.00
		Average of Peak Amounts =			0.46525		

7.09.D

CCAL

4058

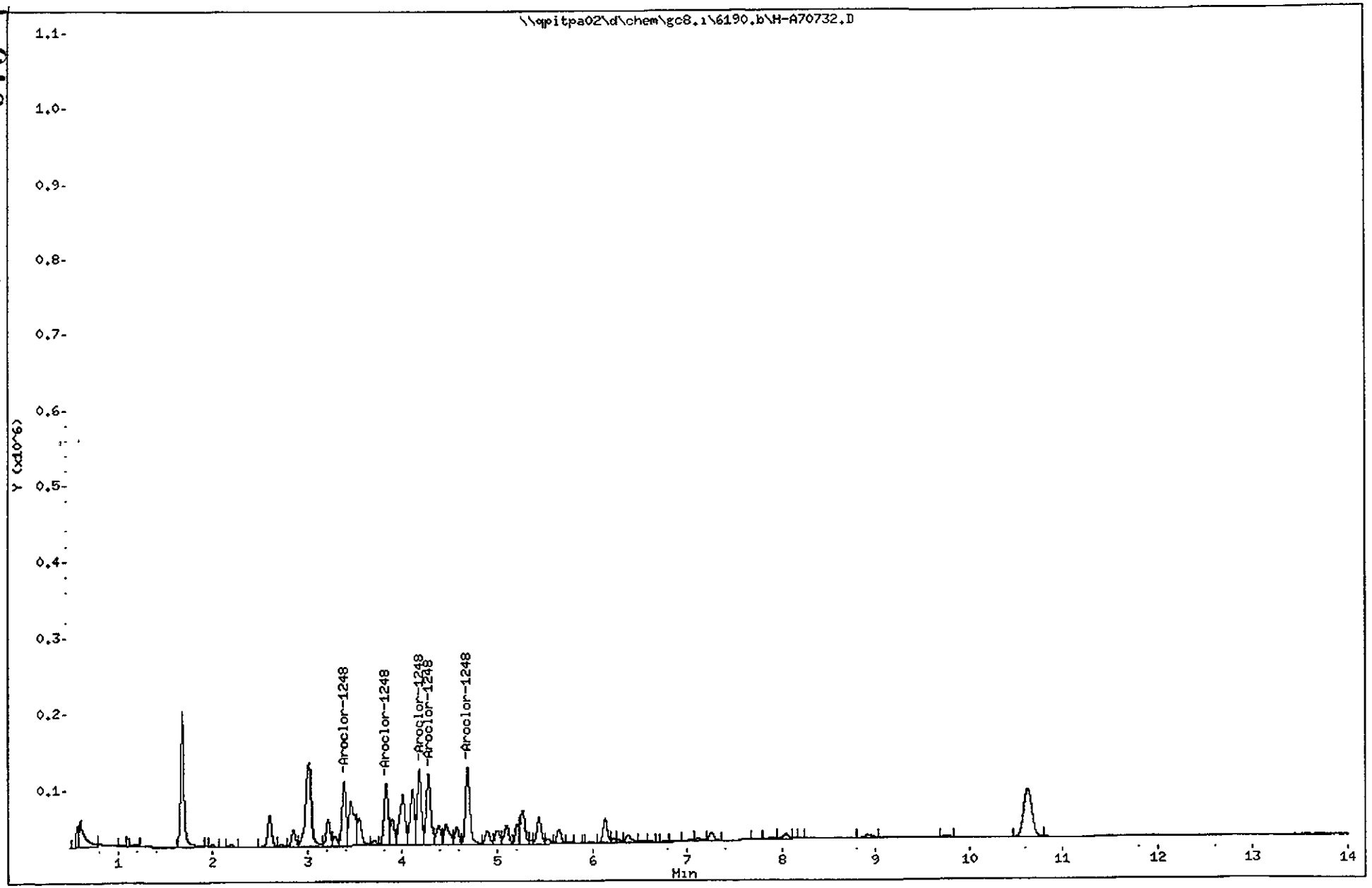
Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70732.D
Date : 16-OCT-2000 10:17
Client ID:
Sample Info: H1248,6190.b

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

Column phase: DB608

673 1594



STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70733.D
Report Date: 16-Oct-2000 10:54

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70733.D
Lab Smp Id: M1660
Inj Date : 16-OCT-2000 10:36
Operator : 010139 Inst ID: gc8.i
Smp Info : M1660,6190.b
Misc Info : 190-99-5
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 16-Oct-2000 10:53 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

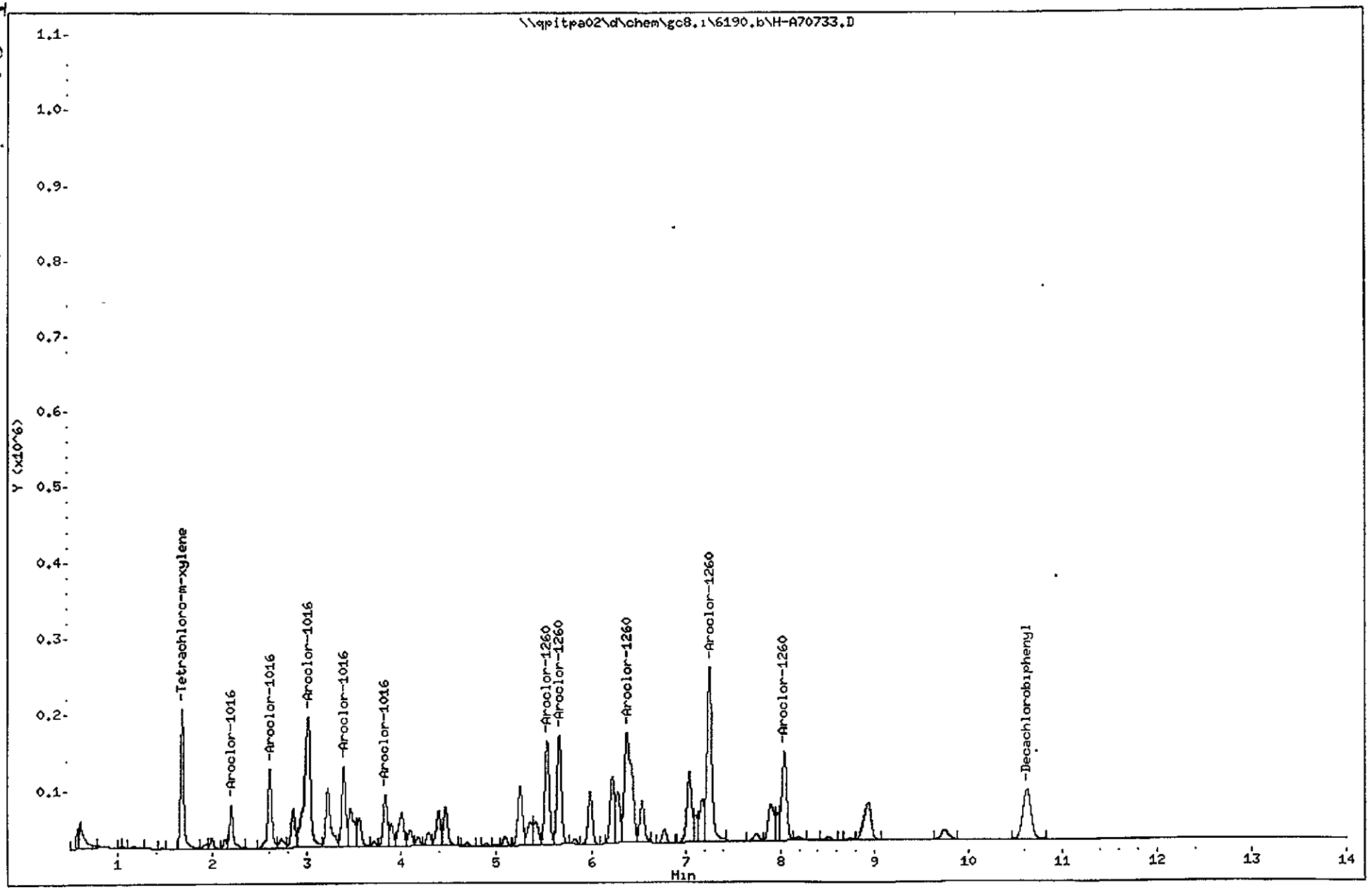
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS # 12674-11-2		
2.192	2.184	(0.008)	56394	0.50000	0.48349	0.00- 0.00	0.00
2.606	2.600	(0.006)	103432	0.50000	0.45868	80.00- 120.00	0.00
3.012	3.006	(0.006)	173170	0.50000	0.45984	416.04- 456.04	0.00
3.385	3.378	(0.007)	107296	0.50000	0.46940	203.51- 243.51	0.00
3.827	3.820	(0.007)	68452	0.50000	0.47153	297.56- 337.56	0.00
Average of Peak Amounts =					0.46859		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.679	1.670	(0.009)	183015	0.02500	0.026137		
$ 34 Decachlorobiphenyl					CAS #. 2051-24-3		
10.621	10.618	(0.003)	66723	0.02500	0.023157		
36 Aroclor-1260					CAS # 11096-82-5		
5.535	5.530	(0.005)	136973	0.50000	0.48812	0.00- 0.00	0.00
5.657	5.651	(0.006)	144083	0.50000	0.48541	95.86- 135.86	0.00
6.376	6.371	(0.005)	145676	0.50000	0.48575	116.91- 156.91	0.00
7.250	7.244	(0.006)	228361	0.50000	0.50044	120.00- 160.00	0.00
8.039	8.038	(0.001)	117891	0.50000	0.50003	108.33- 148.33	0.00
Average of Peak Amounts =					0.49195		

Data File: \\qpitpa02\d\chem\gc8.1\6190.b\H-A70733.D
Date : 16-OCT-2000 10:36
Client ID:
Sample Info: M1660,6190.b

Column phase: DB608

Instrument: gc8.1

Operator: 010139
Column diameter: 0.53



673 1596

4060

STL Pittsburgh

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70837.D
Lab Smp Id: M1660
Inj Date : 18-OCT-2000 10:52
Operator : 010139 Inst ID: gc8.i
Smp Info : M1660,6190.b
Misc Info : 190-99-5
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 11:35 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 191	2 184	(0.007)	53617	0.50000	0 45968	0.00- 0.00	0.00
2 605	2.600	(0 005)	100290	0.50000	0.44475	80.00- 120 00	0.00
3 009	3 006	(0 003)	170178	0.50000	0 45189	416 04- 456 04	0.00
3.383	3 378	(0 005)	103117	0.50000	0.45112	203 51- 243.51	0.00
3 825	3.820	(0.005)	65495	0.50000	0.45116	297 56- 337.56	0.00
Average of Peak Amounts =					0.45172		
$ 1 Tetrachloro-m-xylene					CAS #. 877-09-8		
1.679	1.670	(0 009)	174500	0 02500	0 024921		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 620	10.618	(0 002)	64792	0.02500	0.022487		
36 Aroclor-1260					CAS #: 11096-82-5		
5 533	5.530	(0.003)	131189	0.50000	0 46751	0 00- 0 00	0.00
5.655	5 651	(0 004)	142579	0.50000	0 48034	95 86- 135.86	0.00
6 373	6 371	(0.002)	143482	0.50000	0 47843	116.91- 156.91	0.00
7 248	7 244	(0 004)	225877	0.50000	0 49500	120 00- 160.00	0.00
8.040	8 038	(0.002)	115695	0.50000	0.49071	108 33- 148 33	0.00
Average of Peak Amounts =					0.4824		

4062

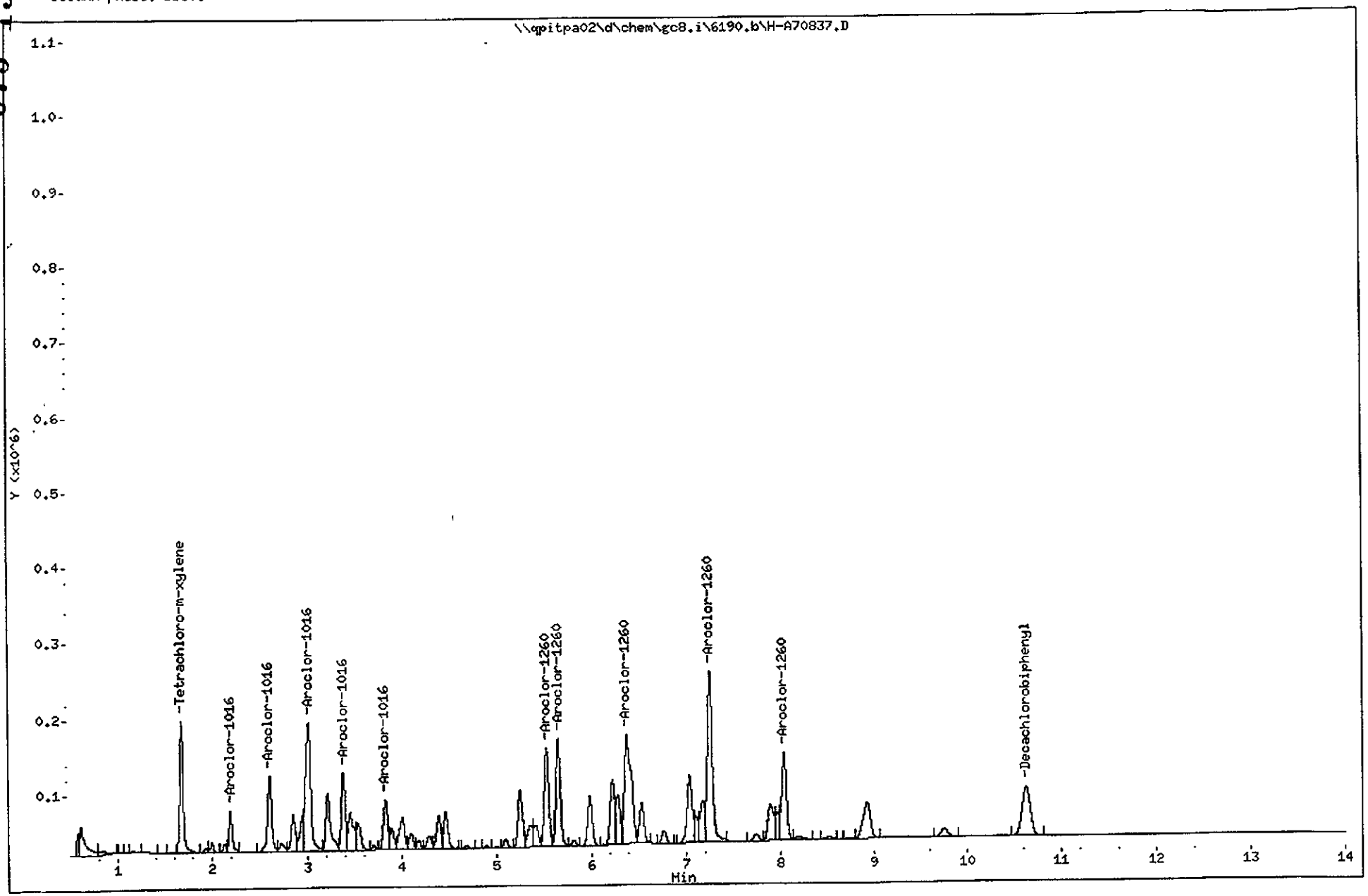
Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70837.D
Date : 18-OCT-2000 10:52
Client ID:
Sample Info: M1660,6190.b

Column phase: DB608

Instrument: gc8.i

Operator: 010139
Column diameter: 0.53

673 1598



STL Pittsburgh

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70850.D
Lab Smp Id: M1660
Inj Date : 18-OCT-2000 15:09
Operator : 010139 Inst ID: gc8.i
Smp Info : M1660,6190.b
Misc Info : 190-99-5
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 15:41 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 195	2.184	(0 011)	58840	0.50000	0.50446	0.00- 0 00	0.00
2 611	2 600	(0 011)	110634	0.50000	0.49062	80.00- 120 00	0.00
3 018	3 006	(0.012)	184747	0.50000	0.49058	416.04- 456 04	0.00
3.389	3.378	(0 011)	113058	0 50000	0.49461	203 51- 243 51	0.00
3.833	3 820	(0.013)	71779	0 50000	0 49445	297.56- 337.56	0.00
Average of Peak Amounts =					0.49495		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.682	1 670	(0.012)	196518	0 02500	0.028066		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 626	10 618	(0 008)	68374	0 02500	0.023730		
36 Aroclor-1260					CAS # 11096-82-5		
5 540	5.530	(0 010)	141503	0.50000	0.50426	0 00- 0 00	0 00
5.661	5 651	(0.010)	149640	0.50000	0.50413	95.86- 135.86	0.00
6.380	6 371	(0 009)	151165	0.50000	0.50405	116.91- 156 91	0.00
7 252	7 244	(0 008)	239437	0 50000	0.52471	120 00- 160 00	0.00
8 046	8.038	(0 008)	122218	0.50000	0.51838	108.33- 148.33	0.00
Average of Peak Amounts =					0.51111		

Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70850.D
Date : 18-OCT-2000 15:09
Client ID:
Sample Info: M1660,6190.b

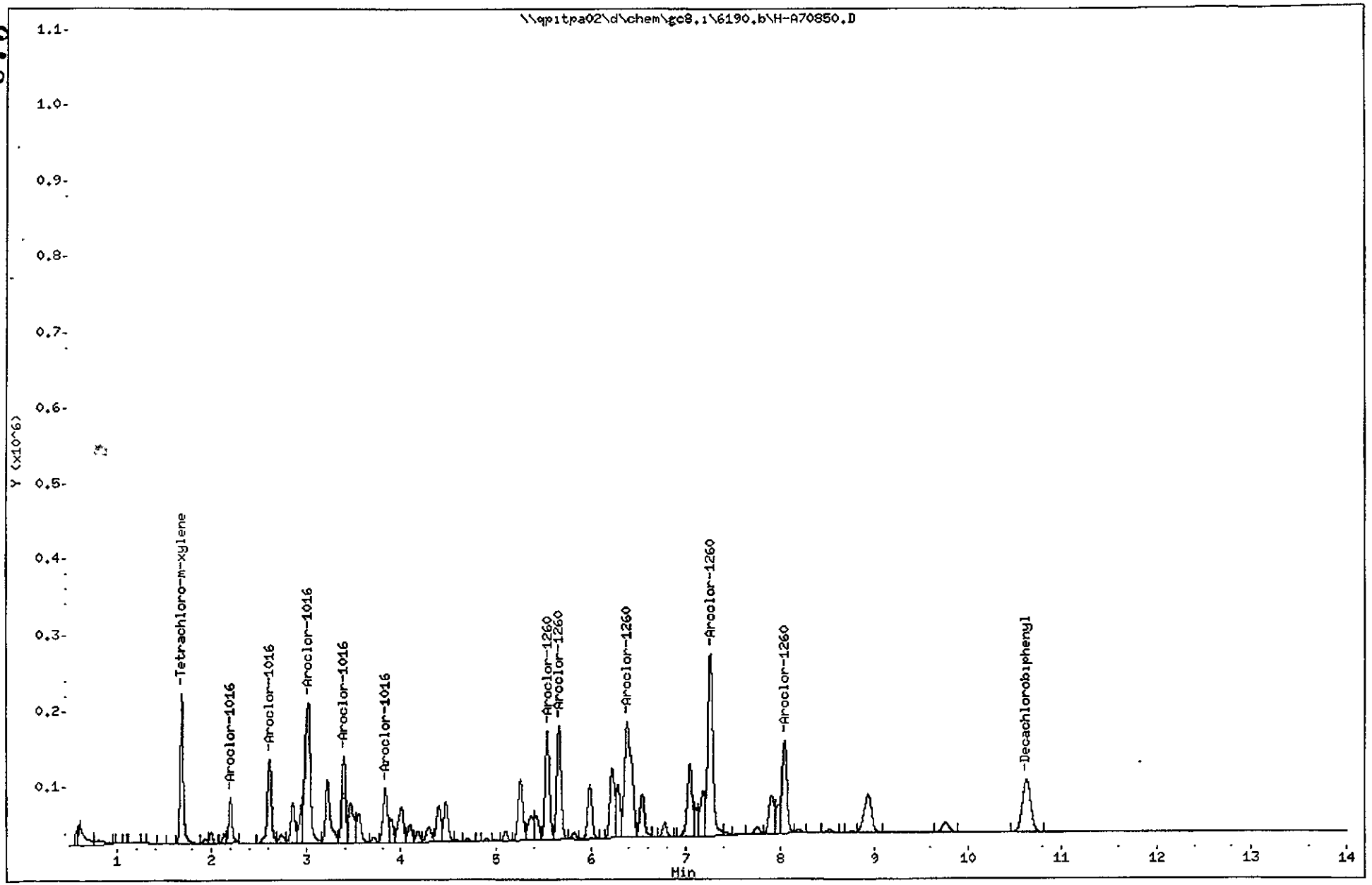
Column phase: DB608

Instrument: gc8.1

Operator: 010139
Column diameter: 0.53

673 1600

4064



STL Pittsburgh

673 1601

PCB
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID:C0J160000 610

Sample WT/Vol: 30 / g
Work Order: DM8P01AA
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	33	U
11104-28-2	Aroclor 1221	33	U
11141-16-5	Aroclor 1232	33	U
53469-21-9	Aroclor 1242	33	U
12672-29-6	Aroclor 1248	33	U
11097-69-1	Aroclor 1254	33	U
11096-82-5	Aroclor 1260	33	U

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70848.D
Lab Smp Id: DM8P01AA Client Smp ID: PBLK
Inj Date : 18-OCT-2000 14:29
Operator : 010139 Inst ID: gc8.i
Smp Info : DM8P01AA,6190.b
Misc Info : 140161BLK
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 11:35 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: PITPC061

Concentration Formula: Amt * DF * Vt*Vi/Ws

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1.681	1.670	(0.011)	133557	0 01907	6 3580		
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).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1242					CAS # 53469-21-9		

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

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20 Aroclor-1016					CAS #: 12674-11-2		

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

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21 Aroclor-1248					CAS # 12672-29-6		

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

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33 Aroclor-1254					CAS # 11097-69-1		

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

$ 34 Decachlorobiphenyl					CAS # 2051-24-3		
10.633	10.618	(0.015)	51604	0.01791	5	9699	

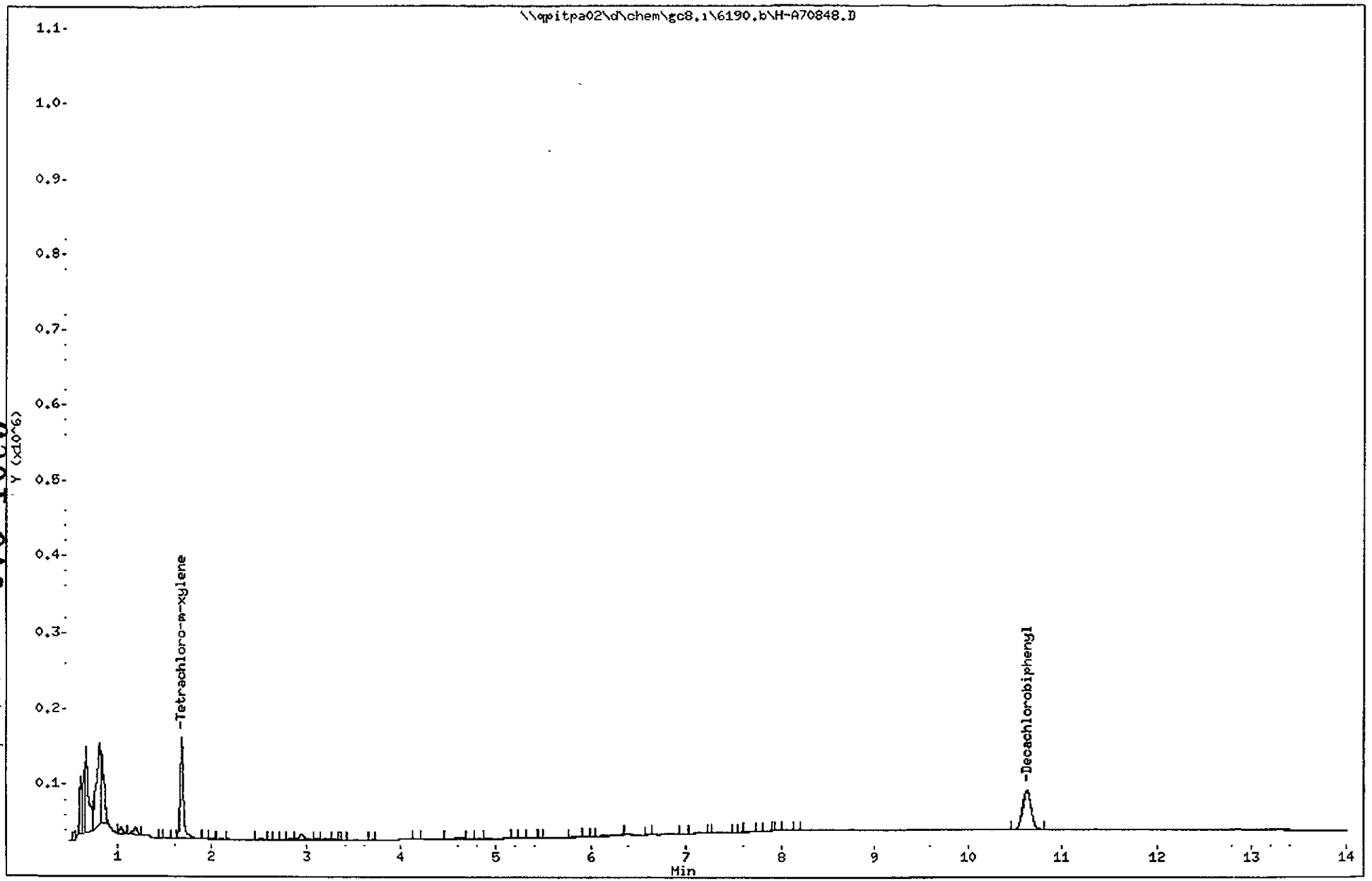
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36 Aroclor-1260					CAS # 11096-82-5		

Peaks not detected for Quant or Qual signal(s)

Data File: \\qpitpa02\d\chem\gc8.1\6190.b\H-A70848.D
Date : 18-OCT-2000 14:29
Client ID: PBLK
Sample Info: DM8P01AA,6190.b
Volume Injected (uL): 1.0
Column phase: DB608

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



673 1665

STL Pittsburgh

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID:C0J160000 610

Sample WT/Vol: 30 / g
Work Order: DM8P01AC
Dilution factor: 1
Moisture %:NA

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	256	
11096-82-5	Aroclor 1260	290	

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70849.D
Lab Smp Id: DM8P01AC Client Smp ID: LCS
Inj Date : 18-OCT-2000 14:49
Operator : 010139 Inst ID: gc8.i
Smp Info : DM8P01AC,6190.b
Misc Info : 140161LCS
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 15:41 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: PITPC061

Concentration Formula: Amt * DF * Vt*Vi/Ws

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 194	2.184	(0 010)	93362	0.80044	266 81	0.00- 0.00	0.00(M)
2 609	2.600	(0 009)	168030	0.74516	248 38	80.00- 120.00	0.00
3 016	3.006	(0 010)	291111	0 77302	257 67	416 04- 456 04	0.00
3.387	3.378	(0.009)	173038	0.75701	252.34	203.51- 243.51	0.00
3 830	3.820	(0 010)	111159	0.76572	255 24	297.56- 337 56	0.00
Average of Peak Concentrations =					256.09		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1 681	1 670	(0.011)	126210	0.01802	6.0082		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.632	10.618	(0.014)	48319	0.01677	5.5898		

673 1608

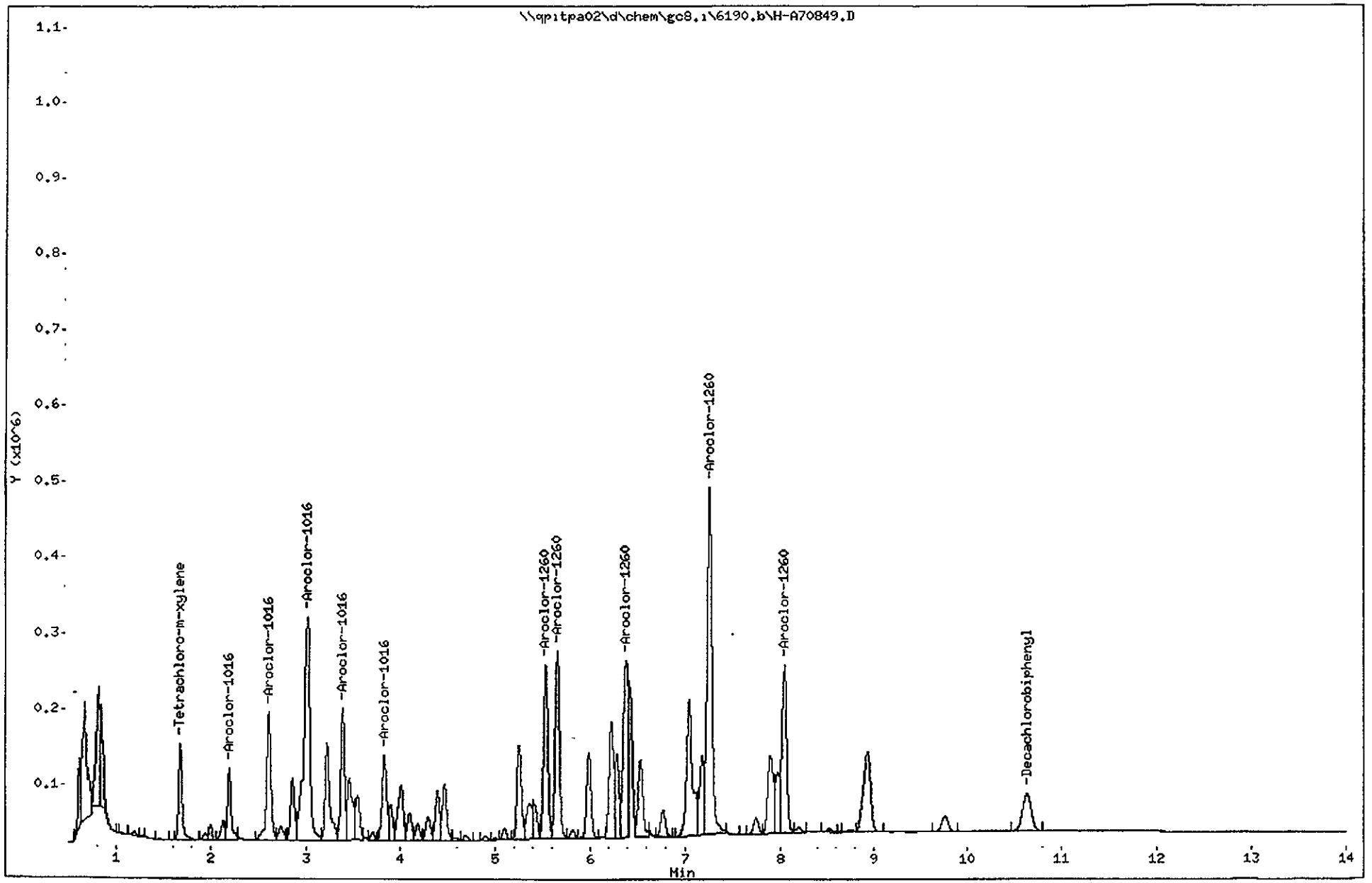
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
36 Aroclor-1260					CAS #: 11096-82-5		
5.538	5 530	(0 008)	227904	0.81216	270.72	0 00- 0 00	0 00(M)
5.660	5.651	(0.009)	245340	0.82654	275.51	95.86- 135 86	0 00
6.382	6 371	(0.011)	232593	0 77557	258.52	116 91- 156 91	0.00
7 251	7 244	(0 007)	454352	0.99568	331.89	120 00- 160 00	0.00
8.046	8 038	(0.008)	220379	0.93473	311.58	108 33- 148 33	0 00
		Average of Peak Concentrations =			289.64		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc8.1\6190.b\H-A70849.D
Date : 18-OCT-2000 14:49
Client ID: LCS
Sample Info: DM8P01AC,6190.b
Volume Injected (uL): 1.0
Column phase: DB608

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



673 1609

4073

STL Pittsburgh

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

673 1610

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CG
Dilution factor: 1
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	300	
11096-82-5	Aroclor 1260	349	

FORM I

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70846.D
Lab Smp Id: DM6501CG Client Smp ID: DF/S1/0287/TOTAL/MS
Inj Date : 18-OCT-2000 13:50
Operator : 010139 Inst ID: gc8.i
Smp Info : DM6501CG,6190.b
Misc Info : 140161001S
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 11:35 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: PITPC061

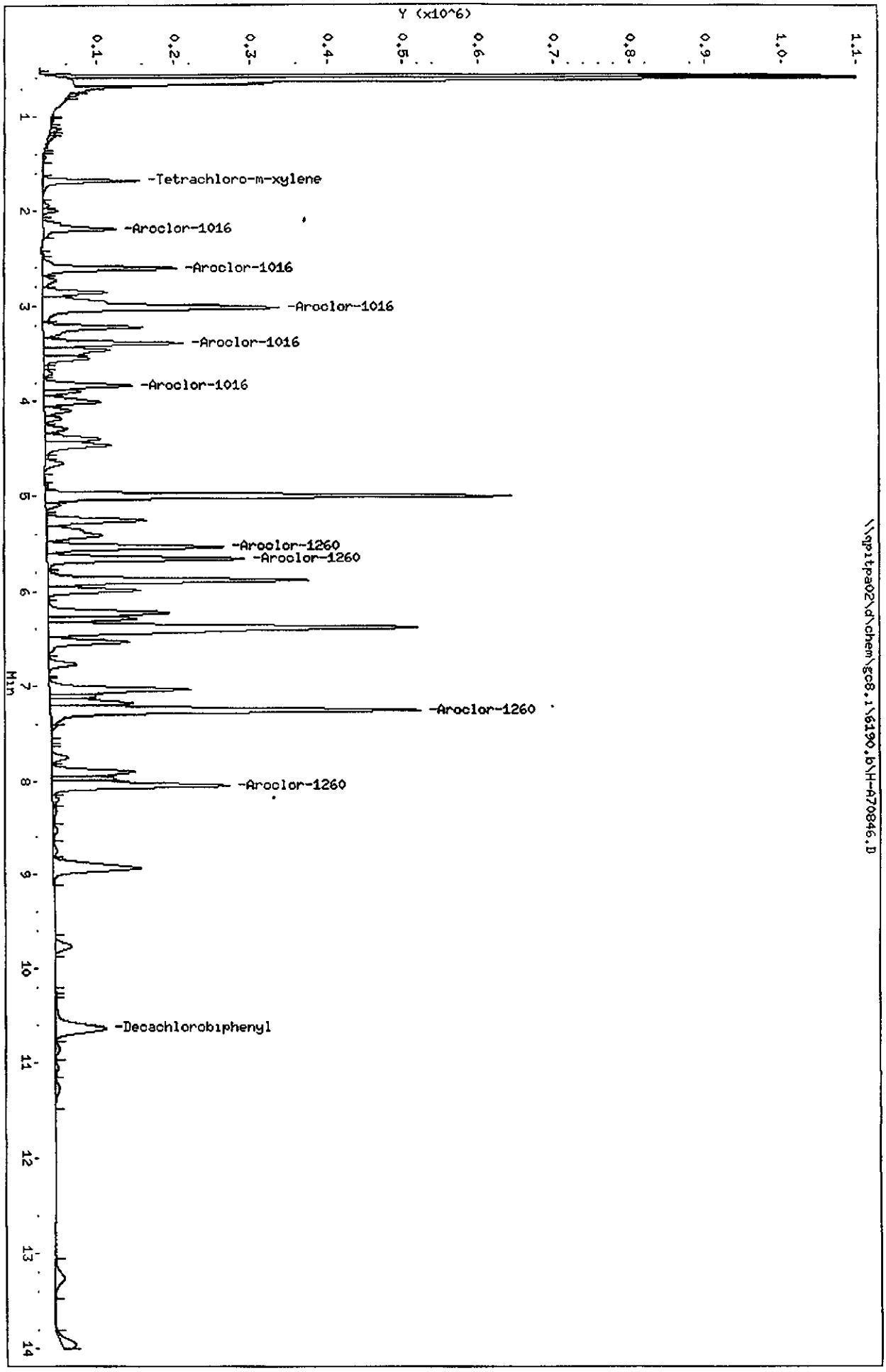
Concentration Formula: Amt * DF * Vt*Vi/Ws

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 194	2.184	(0 010)	95902	0.82221	274.07	0.00- 0.00	0 00
2.609	2.600	(0 009)	174974	0.77595	258 65	80 00- 120.00	0.00
3 018	3 006	(0 012)	307864	0.81751	272 50	416.04- 456.04	0 00
3 389	3 378	(0 011)	183487	0 80272	267 57	203.51- 243.51	0 00
3 832	3 820	(0 012)	114417	0.78817	262.72	297 56- 337.56	0.00
Average of Peak Concentrations =					267.10		
$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1 682	1.670	(0.012)	125834	0.01797	5.9904		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.626	10 618	(0.008)	66034	0.02292	7.6392		

673 1612

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
36 Aroclor-1260					CAS #: 11096-82-5		
5.536	5 530	(0.006)	229473	0.81775	272.58	0.00- 0.00	0.00
5.662	5.651	(0 011)	257536	0 86763	289 21	95 86- 135.86	0.00
6 371	6 371	(0 000)	0			116.91- 156 91	0.00
7 253	7.244	(0 009)	484656	1 06209	354.03	120.00- 160.00	0 00
8 047	8 038	(0 009)	231717	0.98281	327.60	108.33- 148.33	0 00
		Average of Peak Concentrations =			310 86		



Data File: \\apitpa02\d\chem\gc8.i\6190.b\H-A70846.D
Date : 18-OCT-2000 13:50
Client ID: BF/S1/0287/TOTAL/MS
Sample Info: DM6501CC,6190.b
Volume Injected (uL): 1.0
Column phase: DB608

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

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

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

Lab Sample ID:C0J140161 001

Sample WT/Vol: 30 / g
Work Order: DM6501CH
Dilution factor: 1
Moisture %:11

Date Received: 10/14/00
Date Extracted:10/16/00
Date Analyzed: 10/18/00

QC Batch: 0290610

Client Sample Id: DF/S1/0287/TOTAL/001

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor 1016	298	
11096-82-5	Aroclor 1260	345	

FORM I

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\6190.b\H-A70847.D
Lab Smp Id: DM6501CH Client Smp ID: DF/S1/0287/TOTAL/MD
Inj Date : 18-OCT-2000 14:09
Operator : 010139 Inst ID: gc8.i
Smp Info : DM6501CH,6190.b
Misc Info : 140161001D
Comment :
Method : \\qpitpa02\d\chem\gc8.i\6190.b\PCBA.m
Meth Date : 18-Oct-2000 11:35 eppingerd Quant Type: ESTD
Cal Date : 11-OCT-2000 15:45 Cal File: H-A70611.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: PITPC061

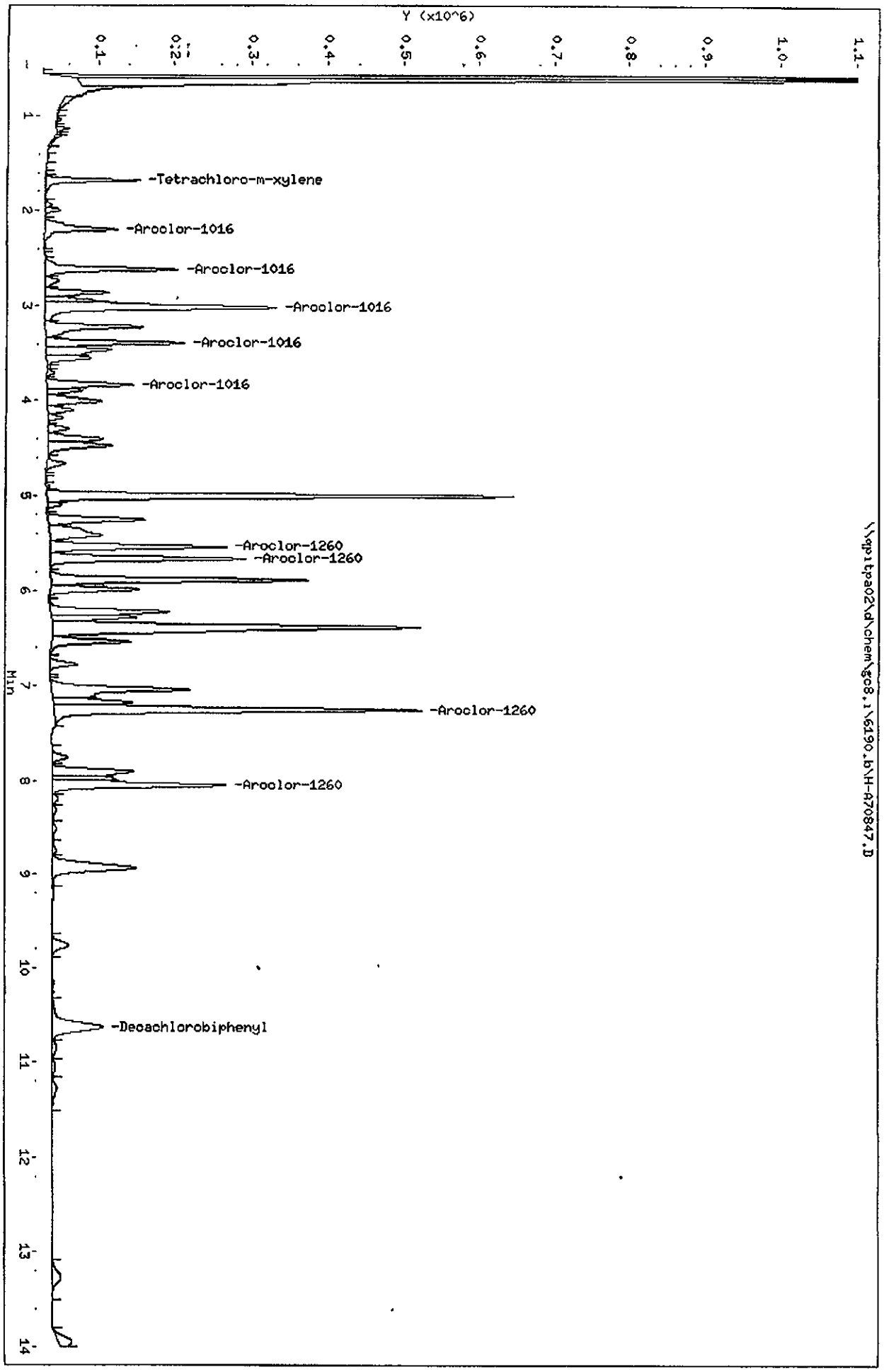
Concentration Formula: Amt * DF * Vt*Vi/Ws

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Aroclor-1016					CAS #: 12674-11-2		
2 194	2 184	(0 010)	96918	0.83092	276 97	0 00- 0 00	0 00
2 609	2.600	(0 009)	175209	0 77699	259 00	80.00- 120.00	0 00
3 018	3.006	(0 012)	302056	0 80208	267 36	416.04- 456.04	0 00
3.389	3 378	(0 011)	180830	0 79110	263.70	203.51- 243 51	0 00
3.830	3.820	(0 010)	114500	0.78874	262 91	297.56- 337 56	0 00
Average of Peak Concentrations =					265.99		
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.682	1 670	(0.012)	124040	0 01771	5 9050		
$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 630	10.618	(0.012)	66102	0 02294	7 6471		

673 1616

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
36 Aroclor-1260					CAS #	11096-82-5	
5 539	5.530	(0.009)	230099	0 81998	273 33	0.00- 0.00	0.00
5.661	5 651	(0 010)	254699	0.85807	286 02	95.86- 135.86	0 00
6 371	6.371	(0.000)	0			116.91- 156 91	0 00
7 253	7.244	(0.009)	479842	1.05154	350.51	120.00- 160.00	0 00
8 042	8.038	(0.004)	227638	0.96551	321 84	108 33- 148.33	0.00
		Average of Peak Concentrations =			307.92		



Data File: \\qpitpa02\d\chem\gc8.i\6190.b\H-A70847.D
Date : 18-OCT-2000 14:09
Client ID: DF/S1/0287/TOTAL/MD
Sample Info: DH65016H,6190.b
Volume Injected (uL): 1.0
Column phase: DB608

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

673 1618

PCB
MISCELLANEOUS

STL Pittsburgh

AC10 + TBA DC 10-18-00

STL - Pittsburgh Pest B#0290608 PCB B#0290610 Pest/PCB Sonication Extraction Worksheet

673 1619

Logbook ID: OP4

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
10-16-00	10-18-00	8081A/8082	3550B	Hexane MeCl/Acetone	T03268 T23222/M45 T11465	Baker/Mallinckrodt	NA

	Lot Number	Sample ID	Client ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	COJ140161	BLK	NA	30.0g	10.0	190-103-7	1.0ml	NA	NA	NA
2.		LCS		30.0g				190-98-4	0.5ml	
3.		001MS		30.0g						
4.		001MSD		30.0g						
5.		LCS		30.0g				190-103-4	1.0ml	
6.		001MS		30.0g						
7.		001MSD		30.0g						
8.		001		30.0g	10.0			NA	NA	
9.										
10.										
11.										
12.										
13										
14.										
15										
16.										
17.										
18.				B.P. 10-16-00						
19.										
20.										
21.										
22.										
23.										
Analyst		B.P.	B.P.	B.P.	KG	B.P.	B.P.	B.P.	B.P.	B.P.

Extract(s) (record line # from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	10-16-00	2030	Brian A. Pino	Org. Prep	10-16-00	2040	Brian A. Pino	REFIZEXE.
All Above	10.18.00	0400	Ken Dusky	Ref 12 Ext	10.18.00	0800	Ken Dusky	Ref 1-GC
All Above	10-18-00	1000	[illegible]	Ref-GC	10-18-00	1030	[illegible]	Ref-GC

Sodium Sulfate Mfg/Lot Number: Baker / T24596

Reviewed by: Ken Dusky

Date: 10-18-00

4083

Sequence: C:\HPCHEM\1\SEQUENCE\6190.S

Created: DE 9-19-00

673 1620

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-98-13 378
3	3	190-98-14
4	4	190-99-1 380
5	5	190-99-2
6	6	190-99-3
7	7	190-99-4
8	8	190-99-5
9	9	190-99-6 385
10	10	190-99-7
11	11	190-92-1
12	12	190-92-2
13	13	190-92-3
14	14	190-92-4 390
15	15	190-92-5
16	16	150289001
17	17	150289001S
18	18	150289001D
19	19	150289002 395
20	20	150289003
21	21	180105001
22	22	180105002
23	23	180105003
24	24	150289BLK 400
25	25	150289LCS

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9-20-00

673 1621

Line	Vial	Vial Information
26	26	100110001
27	27	100110002
28	28	100110003
29	29	100110004 405
30	30	100110005
31	31	100110006
32	32	100110007
33	33	100110BLK
34	34	100110LCS 410
35	35	100110LCD
36	36	190-99-5
37	37	120234001
38	38	120234002
39	39	120234003 415
40	40	120234004
41	41	190-99-5

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M2154,6190.b	PCB	1	Sample		
3	3	M1232,6190.b	PCB	1	Sample		
4	4	M1242,6190.b	PCB	1	Sample		
5	5	M1248,6190.b	PCB	1	Sample		
6	6	L1660,6190.b	PCB	1	Sample		
7	7	ML1660,6190.b	PCB	1	Sample		
8	8	M1660,6190.b	PCB	1	Sample		
9	9	MH1660,6190.b	PCB	1	Sample		
10	10	H1660,6190.b	PCB	1	Sample		
11	11	2ND2154,6190.b	PCB	1	Sample		
12	12	2ND1232,6190.b	PCB	1	Sample		
13	13	2ND1242,6190.b	PCB	1	Sample		
14	14	2ND1248,6190.b	PCB	1	Sample		
15	15	2ND1660,6190.b	PCB	1	Sample		
16	16	DKG02102,6190.b	PCB	1	Sample		
17	17	DKG0210H,6190.b	PCB	1	Sample		
18	18	DKG0210J,6190.b	PCB	1	Sample		
19	19	DKG0H102,6190.b	PCB	1	Sample		

673 1622

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
20	20	DKG0L102,6190.b	PCB	1	Sample		
21	21	DKHVG102,6190.b	PCB	1	Sample		
22	22	DKHVK102,6190.b	PCB	1	Sample		
23	23	DKHVL102,6190.b	PCB	1	Sample		
24	24	DKK8V101,6190.b	PCB	1	Sample		
25	25	DKK8V102,6190.b	PCB	1	Sample		
26	26	DK5DM101,6190.b	PCB	1	Sample		
27	27	DK5DN101,6190.b	PCB	1	Sample		
28	28	DK5DP101,6190.b	PCB	1	Sample		
29	29	DK5DQ101,6190.b	PCB	1	Sample		
30	30	DK5DR101,6190.b	PCB	1	Sample		
31	31	DK5DT101,6190.b	PCB	1	Sample		
32	32	DK5DV101,6190.b	PCB	1	Sample		
33	33	DKKC1101,6190.b	PCB	1	Sample		
34	34	DKKC1102,6190.b	PCB	1	Sample		
35	35	DKKC1103,6190.b	PCB	1	Sample		
36	36	M1660,6190.b	PCB	1	Sample		
37	37	DK7X9101,6190.b	PCB	1	Sample		
38	38	DK7XF101,6190.b	PCB	1	Sample		
39	39	DK7XH101,6190.b	PCB	1	Sample		
40	40	DK7XL101,6190.b	PCB	1	Sample		
41	41	M1660,6190.b	PCB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8082 ANALYSIS
2	1	RINSE
3	2	190-98-13
4	3	190-98-14
5	4	190-99-1
6	5	190-99-2
7	6	190-99-3
8	7	190-99-4
9	8	190-99-5
10	9	190-99-6
11	10	190-99-7
12	11	190-92-1
13	12	190-92-2

DE
9-19-00

Sequence: C:\HPCHEM\1\SEQUENCE\7160.S

673 1623

Created: DE 10-16-00

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-98-13 729
3	3	190-98-14
4	4	190-99-1
5	5	190-99-2
6	6	190-99-5
7	7	050281001
8	8	050281002 735
9	9	050281003
10	10	050281004
11	11	050281005
12	12	050281006
13	13	050281007 740
14	14	050281008
15	15	050281009
16	16	050281010
17	17	050281011
18	18	050281012 745
19	19	050281013
20	20	050281014
21	21	050281015
22	22	050281BLK
23	23	050281LCS 750
24	24	050281LCD
25	25	100229BLK

673 1624

Line	Vial	Vial Information
26	26	100229LCS
27	27	190-99-5
28	28	100229LCD 755
29	29	100229001
30	30	100229002
31	31	100229003
32	32	100229004
33	33	100229005 760
34	34	100229006
35	35	100229007
36	36	270146001
37	37	270146002
38	38	270146003 765
39	39	270146004
40	40	270146004S
41	41	270146004D
42	42	270146005
43	43	270146006 770
44	44	270146007
45	45	270146008
46	46	270146BLK
47	47	270146LCS
48	48	190-99-5 775
49	49	270146009
50	50	270146010
51	51	270146011
52	52	270146012
53	53	280200001 780

673 1625

Line	Vial	Vial Information
54	54	280200002
55	55	280200003
56	56	280200004
57	57	280200005
58	58	280200006 785
59	59	280200007
60	60	280200008
61	61	100195001 X10
62	62	100195001S X10
63	63	100195001D X10 790
64	64	100195002 X10
65	65	100195003 X10
66	66	100208005
67	67	100195BLK
68	68	100195LCS 795
69	69	190-99-5
70	70	~~100208006~~
71	71	100208007
72	72	280265001
73	73	RINSE 800
74	74	RINSE
75	1	100208006 X4
76	2	050207001
77	3	060306001
78	4	050207BLK 805
79	5	050207LCS
80	6	050207LCD
81	7	300132001

Sequence: C:\HPCHEM\1\SEQUENCE\7160.S

673 1626

Line	Vial	Vial Information
82	8	300132002
83	9	300132003 810
84	10	300132003S
85	11	300132003D
86	12	300132004
87	13	300132005
88	14	300132BLK 815
89	15	300132LCS
90	16	190-99-5
91	17	300132006
92	18	300132007
93	19	300132008 820
94	20	300132010
95	21	~~120276001 X10~~
96	22	~~120276001S X10~~ run @ 2X
97	23	~~120276001D X10~~
98	24	120276BLK 825
99	25	120276LCS
100	26	110267001
101	27	100208001
102	28	100208002
103	29	100208003 830
104	30	100208004
105	31	110267BLK
106	32	110267LCS
107	33	110267LCD
108	34	190-99-5 835

Method and Injection Info Part:

673 1627

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M1254,6190.b	PCB	1	Sample		
3	3	M1232,6190.b	PCB	1	Sample		
4	4	M1242,6190.b	PCB	1	Sample		
5	5	M1248,6190.b	PCB	1	Sample		
6	6	M1660,6190.b	PCB	1	Sample		
7	7	DLLL6101,6190.b	PCB	1	Sample		
8	8	DLLLC101,6190.b	PCB	1	Sample		
9	9	DLLLG101,6190.b	PCB	1	Sample		
10	10	DLLLH101,6190.b	PCB	1	Sample		
11	11	DLLLK101,6190.b	PCB	1	Sample		
12	12	DLLLJ101,6190.b	PCB	1	Sample		
13	13	DLLLN101,6190.b	PCB	1	Sample		
14	14	DLLLQ101,6190.b	PCB	1	Sample		
15	15	DLLLR101,6190.b	PCB	1	Sample		
16	16	DLLLT101,6190.b	PCB	1	Sample		
17	17	DLLLV101,6190.b	PCB	1	Sample		
18	18	DLLLW101,6190.b	PCB	1	Sample		
19	19	DLLLX101,6190.b	PCB	1	Sample		
20	20	DLLM0101,6190.b	PCB	1	Sample		
21	21	DLLM1101,6190.b	PCB	1	Sample		
22	22	DLMQJ101,6190.b	PCB	1	Sample		
23	23	DLMQJ102,6190.b	PCB	1	Sample		
24	24	DLMGJ103,6190.b	PCB	1	Sample		
25	25	DM69A1AA,6190.b	PCB	1	Sample		
26	26	DM69A1AC,6190.b	PCB	1	Sample		
27	27	M1660,6190.b	PCB	1	Sample		
28	28	DM69A1AD,6190.b	PCB	1	Sample		
29	29	DLVPT101,6190.b	PCB	1	Sample		
30	30	DLVPV101,6190.b	PCB	1	Sample		
31	31	DLVPW101,6190.b	PCB	1	Sample		
32	32	DLVPX101,6190.b	PCB	1	Sample		
33	33	DLVQ0101,6190.b	PCB	1	Sample		
34	34	DLVQ5101,6190.b	PCB	1	Sample		
35	35	DLVQ6101,6190.b	PCB	1	Sample		
36	36	DL45K105,6190.b	PCB	1	Sample		
37	37	DL46E105,6190.b	PCB	1	Sample		
38	38	DL46G105,6190.b	PCB	1	Sample		
39	39	DL46J10C,6190.b	PCB	1	Sample		
40	40	DL46J10D,6190.b	PCB	1	Sample		
41	41	DL46J10E,6190.b	PCB	1	Sample		
42	42	DL46W105,6190.b	PCB	1	Sample		
43	43	DL474105,6190.b	PCB	1	Sample		
44	44	DL47E105,6190.b	PCB	1	Sample		
45	45	DL47G105,6190.b	PCB	1	Sample		
46	46	DLC2Q101,6190.b	PCB	1	Sample		
47	47	DLC2Q102,6190.b	PCB	1	Sample		
48	48	M1660,6190.b	PCB	1	Sample		
49	49	DL47J105,6190.b	PCB	1	Sample		
50	50	DL47L105,6190.b	PCB	1	Sample		
51	51	DL47Q105,6190.b	PCB	1	Sample		
52	52	DL47T105,6190.b	PCB	1	Sample		
53	53	DL788105,6190.b	PCB	1	Sample		
54	54	DL79N105,6190.b	PCB	1	Sample		
55	55	DL79Q105,6190.b	PCB	1	Sample		

673 1628

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
56	56	DL7A2105,6190.b	PCB	1	Sample		
57	57	DL7A6105,6190.b	PCB	1	Sample		
58	58	DL7A9105,6190.b	PCB	1	Sample		
59	59	DL7AD105,6190.b	PCB	1	Sample		
60	60	DL7AT105,6190.b	PCB	1	Sample		
61	61	DLVDN10L,6190.b	PCB	1	Sample		
62	62	DLVDN10P,6190.b	PCB	1	Sample		
63	63	DLVDN10Q,6190.b	PCB	1	Sample		
64	64	DLVDP10L,6190.b	PCB	1	Sample		
65	65	DLVDQ10L,6190.b	PCB	1	Sample		
66	66	DLVJ4102,6190.b	PCB	1	Sample		
67	67	DM3JD1AA,6190.b	PCB	1	Sample		
68	68	DM3JD1AC,6190.b	PCB	1	Sample		
69	69	M1660,6190.b	PCB	1	Sample		
70	70	DLVJ5102,6190.b	PCB	1	Sample		
71	71	DLVJ6102,6190.b	PCB	1	Sample		
72	72	DL7XC10L,6190.b	PCB	1	Sample		
73	73	HEXANE	PCB	1	Sample		
74	74	HEXANE	PCB	1	Sample		
75	1	DLVJ5102,6190.b	PCB	1	Sample		
76	2	DLKTF104,6190.b	PCB	1	Sample		
77	3	DLP9V104,6190.b	PCB	1	Sample		
78	4	DLT7L101,6190.b	PCB	1	Sample		
79	5	DLT7L102,6190.b	PCB	1	Sample		
80	6	DLT7L103,6190.b	PCB	1	Sample		
81	7	DLCQF103,6190.b	PCB	1	Sample		
82	8	DLCQH103,6190.b	PCB	1	Sample		
83	9	DLCQJ107,6190.b	PCB	1	Sample		
84	10	DLCQJ108,6190.b	PCB	1	Sample		
85	11	DLCQJ109,6190.b	PCB	1	Sample		
86	12	DLCQK103,6190.b	PCB	1	Sample		
87	13	DLCQM103,6190.b	PCB	1	Sample		
88	14	DLGN5101,6190.b	PCB	1	Sample		
89	15	DLGN5102,6190.b	PCB	1	Sample		
90	16	M1660,6190.b	PCB	1	Sample		
91	17	DLCQN103,6190.b	PCB	1	Sample		
92	18	DLCQP103,6190.b	PCB	1	Sample		
93	19	DLCQQ103,6190.b	PCB	1	Sample		
94	20	DLCQT103,6190.b	PCB	1	Sample		
95	21	DM25F1AW,6190.b	PCB	1	Sample		
96	22	DM25F1A1,6190.b	PCB	1	Sample		
97	23	DM25F1A2,6190.b	PCB	1	Sample		
98	24	DM5171AA,6190.b	PCB	1	Sample		
99	25	DM5171AC,6190.b	PCB	1	Sample		
100	26	DM079104,6190.b	PCB	1	Sample		
101	27	DLVJ0102,6190.b	PCB	1	Sample		
102	28	DLVJ1102,6190.b	PCB	1	Sample		
103	29	DLVJ2102,6190.b	PCB	1	Sample		
104	30	DLVJ3102,6190.b	PCB	1	Sample		
105	31	DM2881AA,6190.b	PCB	1	Sample		
106	32	DM2881AC,6190.b	PCB	1	Sample		
107	33	DM2881AD,6190.b	PCB	1	Sample		
108	34	M1660,6190.b	PCB	1	Sample		

Sequence Table (Back Injector):

Sequence: C:\HPCHEM\1\SEQUENCE\7180.S

673 1629

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-99-5 837
3	3	120276001 X5
4	4	120276001S X5
5	5	120276001D X5 840
6	6	100102001
7	7	100102BLK
8	8	100102LCS
9	9	100102LCD
10	10	140161001 845
11	11	140161001S
12	12	140161001D
13	13	140161BLK
14	14	140161LCS
15	15	190-99-5 850

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	PCB	1	Sample		
2	2	M1660,6190.b	PCB	1	Sample		
3	3	DM25F1AW,6190.b	PCB	1	Sample		
4	4	DM25F1A1,6190.b	PCB	1	Sample		
5	5	DM25F1A2,6190.b	PCB	1	Sample		
6	6	DLTG2106,6190.b	PCB	1	Sample		
7	7	DM5AP1AA,6190.b	PCB	1	Sample		
8	8	DM5AP1AC,6190.b	PCB	1	Sample		
9	9	DM5AP1AD,6190.b	PCB	1	Sample		
10	10	DM6501AF,6190.b	PCB	1	Sample		
11	11	DM6501CG,6190.b	PCB	1	Sample		
12	12	DM6501CH,6190.b	PCB	1	Sample		
13	13	DM8P01AA,6190.b	PCB	1	Sample		
14	14	DM8P01AC,6190.b	PCB	1	Sample		
15	15	M1660,6190.b	PCB	1	Sample		

REQUESTED BY: PINOS

673 1630

METHOD: QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5E	DM650-1-AF	___ ___ ___	273715	399411	A-13-QH	C0J140161	001	QC	SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Brian A. Pino	Brian A. Pino	10-16-00 1345
Brian A. Pino	Brian A. Pino	10-16-00 1900

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

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/S1/0287/TOTAL/001	DM650
DF/S1/0287/TOTAL/001D	DM650D
DF/S1/0287/TOTAL/001S	DM650S

Comments: UXB DUNN FIELD
C0J140161
6010B, 7471A

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: MWW
DATE: 10-20-00

Version 4.10.2

Cover Page Equivalent

673 1633

METALS
RESULTS

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.0084	0.037	0.072		1	CVAA	10/17/00	10:01

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.4	22.4	17200		1	ICP	10/18/00	11:22
Antimony	220.35	0.16	6.7	1.3	B	1	ICPST	10/18/00	11:31
Arsenic	189.04	0.29	1.1	9.2		1	ICPST	10/18/00	11:31
Barium	493.41	0.046	22.4	205		1	ICP	10/18/00	11:22
Beryllium	313.04	0.0080	0.56	0.59	E	1	ICP	10/18/00	11:22
Cadmium	226.50	0.055	0.56	0.16	B	1	ICPST	10/18/00	11:31
Calcium	317.93	4.3	561	40200		1	ICP	10/18/00	11:22
Chromium	267.72	0.11	1.1	18.9	E	1	ICPST	10/18/00	11:31
Cobalt	228.62	0.36	5.6	8.2		1	ICP	10/18/00	11:22
Copper	324.75	0.24	2.8	26.5		1	ICP	10/18/00	11:22
Iron	259.94	0.99	11.2	19300	E	1	ICP	10/18/00	11:22
Lead	220.35	0.21	0.34	37.5	NE*	1	ICPST	10/18/00	11:31
Magnesium	279.08	2.2	561	2870		1	ICP	10/18/00	11:22
Manganese	257.61	0.098	1.7	563		1	ICP	10/18/00	11:22
Nickel	231.60	0.69	4.5	17.1		1	ICP	10/18/00	11:22
Potassium	766.49	55.6	561	2780		1	ICP	10/18/00	11:22
Selenium	220.35	0.23	0.56	0.27	B	1	ICPST	10/18/00	11:31
Silver	328.07	0.11	1.1	0.11	U	1	ICPST	10/18/00	11:31
Sodium	589	1.6	561	576		1	ICP	10/18/00	11:22
Thallium	190.86	0.44	1.1	1.3		1	ICPST	10/18/00	11:31
Vanadium	292.40	0.20	5.6	33.5		1	ICP	10/18/00	11:22
Zinc	213.86	0.34	2.2	70.9	N	1	ICP	10/18/00	11:22

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form I Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:** 0057-110-11

Element	WL/ Mass	True Conc	ICV5-1 10/17/00 9:50 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.58	103.2								

Version 4.10.2

Form 2A Equivalent

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** 0057-073-3

Element	WL/ Mass	True Conc	ICV2-1 10/18/00 11:01 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25355.61	**101.4**								
Barium	493.409	1000.0	990.70	**99.1**								
Beryllium	313.042	1000.0	974.26	**97.4**								
Calcium	317.933	25000.0	25514.51	**102.1**								
Cobalt	228.616	1000.0	994.82	**99.5**								
Copper	324.754	1000.0	987.93	**98.8**								
Iron	259.94	25000.0	26184.80	**104.7**								
Magnesium	279.079	25000.0	25414.71	**101.7**								
Manganese	257.61	1000.0	1001.04	**100.1**								
Nickel	231.604	1000.0	1008.42	**100.8**								
Potassium	766.491	25000.0	24767.99	**99.1**								
Sodium	588.995	25000.0	25042.48	**100.2**								
Vanadium	292.402	1000.0	987.87	**98.8**								
Zinc	213.856	1000.0	992.36	**99.2**								

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** 0057-101-14

Element	WL/ Mass	True Conc	ICV3-1 10/18/00 8:18 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	250.0	256.74	**102.7**								
Arsenic	189.042	250.0	257.88	**103.2**								
Cadmium	226.502	250.0	251.55	**100.6**								
Chromium	267.716	1000.0	1025.49	**102.5**								
Lead	220.353	250.0	253 12	**101.2**								
Selenium	220.353	250.0	260.07	**104.0**								
Silver	328.068	500.0	510.65	**102.1**								
Thallium	190.864	500.0	523.45	**104.7**								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** 0057-110-12

Element	WL/ Mass	True Conc	CCV5-1 10/17/00 9:55 AM Found	% Rec	CCV5-2 10/17/00 10:14 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.14	**102.8**	5.15	**103.0**						

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** 0057-099-12

Element	WL/ Mass	True Conc	CCV2-1 10/18/00 11:41 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	49223.62	**98.4**								
Barium	493.409	5000.0	4770.02	**95.4**								
Beryllium	313.042	5000.0	4794.12	**95.9**								
Calcium	317.933	50000.0	50266.51	**100.5**								
Cobalt	228.616	5000.0	4855.63	**97.1**								
Copper	324.754	5000.0	4783.15	**95.7**								
Iron	259.94	50000.0	50767.13	**101.5**								
Magnesium	279.079	50000.0	49381.38	**98.8**								
Manganese	257 61	5000.0	4846.58	**96.9**								
Nickel	231.604	5000.0	4894.26	**97.9**								
Potassium	766.491	50000.0	48943.92	**97.9**								
Sodium	588.995	50000.0	48746.73	**97.5**								
Vanadium	292.402	5000.0	4838.21	**96.8**								
Zinc	213.856	5000.0	4908.48	**98.2**								

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: T01018A.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-111-1

Element	WL/ Mass	True Conc	CCV3-1 10/18/00 9:10 AM Found	% Rec	CCV3-2 10/18/00 10:02 AM Found	% Rec	CCV3-3 10/18/00 10:52 AM Found	% Rec	CCV3-4 10/18/00 11:12 AM Found	% Rec	CCV3-5 10/18/00 11:53 AM Found	% Rec
Antimony	220.353	500.0	509.79	**102.0**	508.08	**101.6**	510.84	**102.2**	504.15	**100.8**	508.25	**101.6**
Arsenic	189.042	500.0	512.43	**102.5**	513.23	**102.6**	511.87	**102.4**	508.31	**101.7**	504.27	**100.9**
Cadmium	226.502	500.0	493.94	**98.8**	494.74	**98.9**	491.25	**98.3**	485.47	**97.1**	483.53	**96.7**
Chromium	267.716	2000.0	2031.13	**101.6**	2038.72	**101.9**	2029.96	**101.5**	2007.90	**100.4**	2008.01	**100.4**
Lead	220.353	500.0	505.18	**101.0**	502.80	**100.6**	504.86	**101.0**	500.46	**100.1**	498.72	**99.7**
Selenium	220.353	500.0	519.79	**104.0**	513.69	**102.7**	518.08	**103.6**	512.88	**102.6**	515.01	**103.0**
Silver	328.068	1000.0	1023.42	**102.3**	1023.33	**102.3**	1020.72	**102.1**	1009.48	**100.9**	1011.07	**101.1**
Thallium	190.864	1000.0	1040.43	**104.0**	1040.30	**104.0**	1030.69	**103.1**	1018.60	**101.9**	1016.71	**101.7**

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 10/17/00 9:51 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U								

Version 4.10 2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 10/18/00 11:04 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	**3.5**	**B**								
Iron	259.94	100	8.8	U								
Magnesium	279.079	5000	19.9	U								
Manganese	257.61	15	0.9	U								
Nickel	231.604	40	6.1	U								
Potassium	766.491	5000	496.0	U								
Sodium	588.995	5000	14.5	U								
Vanadium	292.402	50	**1.8**	**U**								
Zinc	213.856	20	**4.8**	**B**								

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 10/18/00 8:22 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	**5.3**	**B**								

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 1017HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 10/17/00 9:57 AM Found	Q	CCB2 10/17/00 10:16 AM Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U	0.0	U						

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 10/18/00 11:44 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	**0.4**	**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	6.1	U								
Potassium	766.491	5000	496.0	U								
Sodium	588.995	5000	14.5	U								
Vanadium	292.402	50	**1.8**	**U**								
Zinc	213.856	20	**3.1**	**U**								

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 10/18/00 9.14 AM Found	Q	CCB2 10/18/00 10:06 AM Found	Q	CCB3 10/18/00 10:56 AM Found	Q	CCB4 10/18/00 11:17 AM Found	Q	CCB5 10/18/00 11:57 AM Found	Q
Antimony	220.353	60	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
Cadmium	226.502	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chromium	267.716	10	1.0	U	1.0	U	1.0	U	1.0	U	1.1	B
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Selenium	220.353	5	4.2	B	2.6	B	3.1	B	2.1	U	2.1	U
Silver	328.068	10	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Thallium	190.864	10	3.9	U	4.2	B	3.9	U	6.1	B	3.9	U

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DM779B

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.0075	0.033	0.0080	B	1	CVAA	10/17/00	9:58

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DM84TB

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.3	20.0	1.3	U	1	ICP	10/18/00	11:16
Antimony	220.353	0.15	6 0	0.15	U	1	ICPST	10/18/00	11:23
Arsenic	189.042	0 26	1.0	0.26	U	1	ICPST	10/18/00	11:23
Barium	493.409	0.041	20.0	0.041	U	1	ICP	10/18/00	11:16
Beryllium	313.042	0.0071	0.50	0 0071	U	1	ICP	10/18/00	11:16
Cadmium	226.502	0.049	0.50	0.049	U	1	ICPST	10/18/00	11:23
Calcium	**317.933**	**3.8**	**500**	**4.3**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Chromium	267.716	0.10	1.0	0.10	U	1	ICPST	10/18/00	11:23
Cobalt	228.616	0.32	5.0	0.32	U	1	ICP	10/18/00	11:16
Copper	324.754	0 22	2.5	0.22	U	1	ICP	10/18/00	11:16
Iron	259.94	0.88	10.0	0.88	U	1	ICP	10/18/00	11:16
Lead	220.353	0.19	0.30	0.19	U	1	ICPST	10/18/00	11:23
Magnesium	279.079	2.0	500	2.0	U	1	ICP	10/18/00	11:16
Manganese	**257.61**	**0.087**	**1.5**	**0.14**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Nickel	231.604	0.61	4.0	0.61	U	1	ICP	10/18/00	11:16
Potassium	766.491	49.6	500	49.6	U	1	ICP	10/18/00	11:16
Selenium	**220.353**	**0.21**	**0.50**	**0.38**	**B**	**1**	**ICPST**	**10/18/00**	**11:23**
Silver	328.068	0 094	1.0	0.094	U	1	ICPST	10/18/00	11:23
Sodium	**588.995**	**1.5**	**500**	**2.5**	**B**	**1**	**ICP**	**10/18/00**	**11:16**
Thallium	190.864	0.39	1.0	-0.65	B	1	ICPST	10/18/00	11:23
Vanadium	292.402	0.18	5.0	-0.19	B	1	ICP	10/18/00	11:16
Zinc	**213.856**	**0.31**	**2.0**	**0.32**	**B**	**1**	**ICP**	**10/18/00**	**11:16**

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** 0057-078-10

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 10/18/00 11:07 AM Found	Found	Found	Found	Found
Aluminum	308.215		500000	496000				
Barium	493.409	200		2				
Beryllium	313.042	5		0				
Calcium	317.933		500000	481000				
Cobalt	228.616	50		9				
Copper	324.754	25		2				
Iron	259.94		200000	185000				
Magnesium	279.079		500000	488000				
Manganese	257.61	15		11				
Nickel	231.604	40		-14				
Potassium	766.491	5000		-250				
Sodium	588.995	5000		0				
Vanadium	292.402	50		2				
Zinc	213.856	20		1				

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC **Acceptable Range:** 0% - 0%

Standard Source: Inorganic Ventures **Standard ID:** 0057-078-10

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 10/18/00 8:27 AM Found	Found	Found	Found	Found
Antimony	220.353	60		4				
Arsenic	189.042	10		2				
Cadmium	226.502	5		0				
Chromium	267.716	10		1				
Lead	220.353	3		-1				
Selenium	220.353	5		-1				
Silver	328.068	10		0				
Thallium	190.864	10		2				

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICP **Units:** ug/L

Chart Number: J01018A.ARC **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** 0057-059-1

Element	WL/ Mass	True Conc	ICSAB 10/18/00 11:10 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	500000	491800.0	98.4								
Barium	493.409	500	458.7	91.7								
Beryllium	313.042	500	450.3	90.1								
Calcium	317.933	500000	479930.6	96.0								
Cobalt	228.616	500	445.9	89.2								
Copper	324.754	500	475.3	95.0								
Iron	259.94	200000	184065.9	92.0								
Magnesium	279.079	500000	483792.8	96.8								
Manganese	257.61	500	456.4	91.3								
Nickel	231.604	1000	875.5	87.5								
Potassium	766.491	10000	10598.4	106.0								
Sodium	588.995	10000	9970.0	99.7								
Vanadium	292.402	500	445.2	89.0								
Zinc	213.856	1000	928.3	92.8								

673 1653

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST **Units:** ug/L

Chart Number: T01018A.ARC **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** 0057-102-1

Element	WL/ Mass	True Conc	ICSAB 10/18/00 8:31 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	1000	1077.4	**107.7**								
Arsenic	189.042	1000	1057.0	**105.7**								
Cadmium	226.502	1000	959.6	**96.0**								
Chromium	267.716	500	521.4	**104.3**								
Lead	220.353	1000	1008.5	**100.8**								
Selenium	220.353	1000	1061.3	**106.1**								
Silver	328.068	1000	1124.2	**112.4**								
Thallium	190.864	1000	1099.5	**109.9**								

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DM650S

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001S

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

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	0.072		0.28		0.187	109.5	1	1	CVAA	10/17/00	10:01	10/17/00	10:03

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

673 1655

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DM650D

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

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	0.072		0.25		0.187	96.5	1	1	CVAA	10/17/00	10:01	10/17/00	10:05

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DM650S

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001S

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	17200		16600	NC	224.37		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Antimony	220.4	1.3	B	43.7		56.092	75.6	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Arsenic	189.0	9.2		205		224.37	87.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Barium	493.4	205		385		224.37	80.5	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Beryllium	313.0	0.59		5.7		5.6092	91.3	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Cadmium	226.5	0.16	B	4.6		5.6092	79.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Calcium	317.9	40200		51300	NC	5609.2		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Chromium	267.7	18.9		36.8		22.437	79.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Cobalt	228.6	8.2		56.3		56.092	85.7	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Copper	324.8	26.5		47.9		28.046	76.1	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Iron	259.9	19300		18200	NC	112.18		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Lead	220.4	37.5		75.9	N	56.092	68.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Magnesium	279.1	2870		8160		5609.2	94.3	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Manganese	257.6	563		556	NC	56.092		1	1	ICP	10/18/00	11:22	10/18/00	11:28
Nickel	231.6	17.1		65.1		56.092	85.4	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Potassium	766.5	2780		8340		5609.2	99.1	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Selenium	220.4	0.27	B	192		224.37	85.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Silver	328.1	0.11	U	5.2		5.6092	92.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Sodium	589	576		6140		5609.2	99 2	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Thallium	190.9	1.3		204		224.37	90.5	1	1	ICPST	10/18/00	11:31	10/18/00	11:40
Vanadium	292.4	33.5		80.1		56.092	83.1	1	1	ICP	10/18/00	11:22	10/18/00	11:28
Zinc	213.9	70.9		111	N	56.092	71.5	1	1	ICP	10/18/00	11:22	10/18/00	11:28

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

673 1657

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DM650D

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	17200		16700	NC	224 37		1	1	ICP	10/18/00	11·22	10/18/00	11:31
Antimony	220.4	1.3	B	49.0		56.092	85.0	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Arsenic	189.0	9.2		223		224.37	95.4	1	1	ICPST	10/18/00	11·31	10/18/00	11:44
Barium	493.4	205		385		224.37	80.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Beryllium	313 0	0.59		5.7		5.6092	90.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Cadmium	226.5	0.16	B	5.1		5.6092	88.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Calcium	317.9	40200		37800	NC	5609.2		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Chromium	267.7	18.9		40.4		22.437	95.7	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Cobalt	228.6	8.2		57.6		56.092	88.1	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Copper	324.8	26.5		52.2		28.046	91.4	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Iron	259.9	19300		18500	NC	112.18		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Lead	220.4	37.5	N	85.4	*	56.092	85.3	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Magnesium	279.1	2870		8030		5609.2	92 0	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Manganese	257.6	563		600	NC	56.092		1	1	ICP	10/18/00	11:22	10/18/00	11:31
Nickel	231.6	17.1		65.0		56.092	85.4	1	1	ICP	10/18/00	11·22	10/18/00	11:31
Potassium	766.5	2780		8250		5609.2	97.5	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Selenium	220.4	0.27	B	208		224.37	92.4	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Silver	328.1	0.11	U	5.7		5.6092	100.9	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Sodium	589	576		6060		5609.2	97.7	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Thallium	190.9	1 3		222		224.37	98.2	1	1	ICPST	10/18/00	11:31	10/18/00	11:44
Vanadium	292.4	33.5		80.7		56.092	84.0	1	1	ICP	10/18/00	11:22	10/18/00	11:31
Zinc	213.9	70.9	N	115		56.092	78.4	1	1	ICP	10/18/00	11:22	10/18/00	11:31

Comments. Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DM650D

Matrix Spike Sample ID: DM650S **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** 10.86

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.28		0.25		12.6 %	1	1	CVAA	10/17/00	10:03	10/17/00	10:05

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DM650D

Matrix Spike Sample ID: DM650S **Client ID:** DF/S1/0287/TOTAL/001D

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	16600	NC	16700	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Antimony	220.353	43.7		49.0		11.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Arsenic	189.042	205		223		8.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Barium	493 409	385		385		0.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Beryllium	313.042	5.7		5.7		0.9 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Cadmium	226.502	4.6		5.1		10.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Calcium	317.933	51300	NC	37800	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Chromium	267.716	36.8		40.4		18.6 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Cobalt	228.616	56.3		57.6		2.7 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Copper	324.754	47.9		52.2		18.2 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Iron	259.94	18200	NC	18500	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Lead	220.353	75.9	N	85.4	*	22.1 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Magnesium	279.079	8160		8030		2.5 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Manganese	257.61	556	NC	600	NC		1	1	ICP	10/18/00	11:28	10/18/00	11:31
Nickel	231.604	65.1		65.0		0.0 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Potassium	766.491	8340		8250		1.7 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Selenium	220.353	192		208		7.7 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Silver	328.068	5.2		5.7		8.8 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Sodium	588.995	6140		6060		1.5 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Thallium	190.864	204		222		8.2 %	1	1	ICPST	10/18/00	11:40	10/18/00	11:44
Vanadium	292.402	80.1		80.7		1.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31
Zinc	213.856	111	N	115		9.1 %	1	1	ICP	10/18/00	11:28	10/18/00	11:31

Comments: Lot #: C0J140161 Sample #: 1

Version 4.10.2

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

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DM779C

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0290451

Weight: 0.60 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0 42	0.41	99.2		80-120	1	CVAA	10/17/00	10:00

Comments: Lot #: C0J140161

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DM84TC

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	200	199	99.3		80-120	1	ICP	10/18/00	11:19
Antimony	220.353	50.0	50.0	100.0		80-120	1	ICPST	10/18/00	11:27
Arsenic	189.042	200	205	102.5		80-120	1	ICPST	10/18/00	11:27
Barium	493.409	200	193	96 3		80-120	1	ICP	10/18/00	11:19
Beryllium	313.042	5.0	4.8	96 1		80-120	1	ICP	10/18/00	11:19
Cadmium	226.502	5.0	4.9	98.3		80-120	1	ICPST	10/18/00	11:27
Calcium	317.933	5000	4900	97 9		80-120	1	ICP	10/18/00	11:19
Chromium	267.716	20.0	20.8	103.9		80-120	1	ICPST	10/18/00	11:27
Cobalt	228.616	50.0	47.5	95.0		80-120	1	ICP	10/18/00	11:19
Copper	324.754	25.0	24.0	95.9		80-120	1	ICP	10/18/00	11:19
Iron	259.94	100	101	101.0		80-120	1	ICP	10/18/00	11:19
Lead	220.353	50.0	50.3	100.5		80-120	1	ICPST	10/18/00	11:27
Magnesium	279.079	5000	4880	97.6		80-120	1	ICP	10/18/00	11:19
Manganese	257.61	50.0	47.8	95.5		80-120	1	ICP	10/18/00	11:19
Nickel	231.604	50.0	46.7	93.4		80-120	1	ICP	10/18/00	11:19
Potassium	766.491	5000	4850	97.0		80-120	1	ICP	10/18/00	11:19
Selenium	220.353	200	200	100.2		80-120	1	ICPST	10/18/00	11:27
Silver	328.068	5.0	5.2	103.5		80-120	1	ICPST	10/18/00	11:27
Sodium	588.995	5000	4870	97.5		80-120	1	ICP	10/18/00	11:19
Thallium	190.864	200	211	105.7		80-120	1	ICPST	10/18/00	11:27
Vanadium	292.402	50 0	47.1	94.1		80-120	1	ICP	10/18/00	11:19
Zinc	213.856	50.0	47.8	95.5		80-120	1	ICP	10/18/00	11:19

Comments: Lot #: C0J140161

Version 4.10 2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DM650P

Original Sample ID: DM650 **Client ID:** DF/S1/0287/TOTAL/001

Matrix: Soil **Units:** mg/kg **Prep Date:** 10/17/00 **Prep Batch:** 0291124

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 10.86

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	17200		17800		4.0 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Antimony	220.353	1.3	B	1.6	B		1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Arsenic	189.042	9.2		10.4			1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Barium	493.409	205		216		5.6 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Beryllium	313.042	0.59		0.67	B E	13.9 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Cadmium	226.502	0.16	B	0.28	U		1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Calcium	317.933	40200		42700		6.3 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Chromium	267.716	18.9		21.0	E	11.1 %	1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Cobalt	228.616	8.2		8.2	B		1	5	ICP	10/18/00	11:22	10/18/00	11:25
Copper	324.754	26.5		27.2		2.7 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Iron	259.94	19300		21300	E	10.6 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Lead	220.353	37 5	N	41.5	E	10.5 %	1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Magnesium	279.079	2870		3050		6.3 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Manganese	257.61	563		610		8.4 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Nickel	231.604	17.1		17.7	B		1	5	ICP	10/18/00	11:22	10/18/00	11:25
Potassium	766.491	2780		2830			1	5	ICP	10/18/00	11:22	10/18/00	11:25
Selenium	220.353	0.27	B	1.2	B		1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Silver	328.068	0.11	U	0 53	U		1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Sodium	588.995	576		596	B	3.4 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Thallium	190.864	1.3		2.4	B		1	5	ICPST	10/18/00	11:31	10/18/00	11:35
Vanadium	292.402	33.5		36.6		9.1 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25
Zinc	213.856	70.9	N	77.7		9.5 %	1	5	ICP	10/18/00	11:22	10/18/00	11:25

Comments:

Version 4.10.2

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

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA **Units:** ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.045	3/20/00

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICP **Units:** 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

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST **Units:** 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

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST **Date of IEC's:** 10/13/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(-0.000163)
Aluminum	308.215	Pb(0.000539)
Chromium	267.716	Sb(0.007445)
Chromium	267.716	As(-0.003079), Sb(0.013117)
Cobalt	228.616	Pb(0.000043), Se(-0.000467)
Cobalt	228.616	Cd(-0.000073), Fe(0.086957), Ni(-0.000735), Pb(0.000049), Se(0.000496), Tl(0.002407)
Iron	271.441	Cd(0.000118), Pb(0.000082), Sb(0.000025), Se(-0.00001), Tl(-0.000021), V(-0.000341), Zn(0.000124)
Iron	271.441	Pb(0.000048), Se(-0.000347)
Magnesium	279.078	Fe(-0.00058)
Manganese	257.61	Se(-0.000214), Tl(-0.003614)
Manganese	257.61	Se(0.000533)
Molybdenum	202.03	As(-0.000927), Pb(-0.000446), Sb(-0.002435), Tl(-0.000488)
Molybdenum	202.03	Pb(-0.000742), Sb(-0.011507), Se(0.000246)
Nickel	231.604	Pb(0.000124)
Nickel	231.604	Pb(0.000274), Sb(-0 00125), Zn(0.005251)
Vanadium	292.402	Al(0.020017), Be(-0.008152), Cr(-0.00015), Fe(0.009334), Sb(-0.008099), Se(0.000269), Tl(0.001468)
Vanadium	292.402	Pb(-0.000307), Se(0.000106)

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICP **Date of IEC's:** 9/20/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.007861), Mn(0.000018), Pb(0.000719)
Antimony	206.838	Ni(-0.000528), Pb(-0.001408), Sn(-0.004161)
Arsenic	193.696	Cd(0.011217)
Barium	493.409	Co(0.000449)
Beryllium	313.042	Cd(0.008648)
Cadmium	228.802	Co(0.002996)
Chromium	267.716	Pb(-0.000767), Sb(0.009005), V(-0.002296)
Cobalt	228.616	Al(-0.013948), B(0.00168), Cd(-0.004424), Cu(-0.000974), Pb(-0.026155), Sb(-0.004281), Tl(0.008568)
Copper	324.754	Zn(0.00414)
Iron	259.94	Ag(-0.000242), As(0.001058), B(-0.001884), Cd(-0.000046), Cu(-0.000114), Mn(-0.00029), Mo(-0.000129), Pb(0.00019), Se(-0.003038), Sn(-0.000176), Tl(0.011416), Zn(0.000091)
Manganese	257.61	Ag(0.000185), Tl(-0.007608)
Molybdenum	202.03	Al(0.009881), Cr(-0.000204), Mn(-0.000334), Sb(0.005016), V(-0.013194)
Nickel	231.604	Cd(-0.000482), Sb(-0.01006), Zn(0.00326)
Tin	189.989	Sb(0.002501)
Titanium	334.941	Co(0.001561), Fe(-0.003248), Sb(0.001256), Sn(0.003314)
Vanadium	292.402	Ag(-0.004417), Al(0.014581), As(0.015197), Be(0.002162), Cd(0.000076), Cr(0.000544), Sb(-0.002921), Si(-0.011682), Tl(0.006485), Zn(-0.0046)

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	7/15/00

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICP **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	600000	7/8/00
Barium	493 41	100000	7/8/00
Beryllium	313.04	15000	7/8/00
Calcium	317.93	600000	7/8/00
Cobalt	228.62	100000	7/8/00
Copper	324.75	100000	7/8/00
Iron	259.94	400000	7/8/00
Magnesium	279.08	600000	7/8/00
Manganese	257.61	100000	7/8/00
Nickel	231.60	100000	7/8/00
Potassium	766.49	1000000	7/8/00
Sodium	589.00	400000	7/8/00
Vanadium	292.40	100000	7/8/00
Zinc	213.86	100000	7/8/00

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Antimony	220.35	10000	9/18/00
Arsenic	189.04	10000	9/18/00
Cadmium	226.50	5000	9/18/00
Chromium	267.72	20000	9/18/00
Lead	220.35	5000	9/18/00
Selenium	220.35	10000	9/18/00
Silver	328.07	2000	9/18/00
Thallium	190.86	10000	9/18/00

Metals Data Reporting Form

Preparation Log

Preparation Batch: 0290451 **Instrument:** CVAA **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DM779B	10/17/00	0.60	100	NA
DM779C	10/17/00	0.60	100	NA
DM650	10/17/00	0.60	100	10.86
DM650D	10/17/00	0.60	100	10.86
DM650S	10/17/00	0.60	100	10.86

STL-Pittsburgh

Metals Data Reporting Form

Preparation Log

Preparation Batch: 0291124 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DM84TB	10/17/00	1.00	100	NA
DM84TC	10/17/00	1.00	100	NA
DM650	10/17/00	1.00	100	10.86
DM650D	10/17/00	1.00	100	10.86
DM650S	10/17/00	1.00	100	10.86

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA **Chart Number:** 1017HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Rep1		10/17/00	9:39
Std2Rep1		10/17/00	9:41
Std3Rep1		10/17/00	9:42
Std4Rep1		10/17/00	9:44
Std5Rep1		10/17/00	9:46
Std6Rep1		10/17/00	9.47
ICV5-1		10/17/00	9:50
ICB1		10/17/00	9:51
ZZZZZZ		10/17/00	9:53
CCV5-1		10/17/00	9:55
CCB1		10/17/00	9:57
DM779B		10/17/00	9:58
DM779C		10/17/00	10:00
DM650	DF/S1/0287/TOTAL/001	10/17/00	10:01
DM650S	DF/S1/0287/TOTAL/001S	10/17/00	10:03
DM650D	DF/S1/0287/TOTAL/001D	10/17/00	10:05
ZZZZZZ		10/17/00	10:07
ZZZZZZ		10/17/00	10:08
ZZZZZZ		10/17/00	10:10
ZZZZZZ		10/17/00	10:11
ZZZZZZ		10/17/00	10:13
CCV5-2		10/17/00	10:14
CCB2		10/17/00	10:16
ZZZZZZ		10/17/00	10:17
ZZZZZZ		10/17/00	10:19
ZZZZZZ		10/17/00	10:21
ZZZZZZ		10/17/00	10:23
ZZZZZZ		10/17/00	10:24
ZZZZZZ		10/17/00	10:26
ZZZZZZ		10/17/00	10:28
ZZZZZZ		10/17/00	10:30
ZZZZZZ		10/17/00	10:32
ZZZZZZ		10/17/00	10:33
ZZZZZZ		10/17/00	10:35
ZZZZZZ		10/17/00	10:37
ZZZZZZ		10/17/00	10.39
ZZZZZZ		10/17/00	10:40
ZZZZZZ		10/17/00	10:42
ZZZZZZ		10/17/00	10:45

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA **Chart Number:** 1017HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		10/17/00	10:47
ZZZZZZ		10/17/00	10:48
ZZZZZZ		10/17/00	10:49
ZZZZZZ		10/17/00	10:51
ZZZZZZ		10/17/00	10:53
ZZZZZZ		10/17/00	10:55
ZZZZZZ		10/17/00	10:56
ZZZZZZ		10/17/00	10:58
ZZZZZZ		10/17/00	10:59
ZZZZZZ		10/17/00	11:01
ZZZZZZ		10/17/00	11:03
ZZZZZZ		10/17/00	11:04
ZZZZZZ		10/17/00	11:06
ZZZZZZ		10/17/00	11:07
ZZZZZZ		10/17/00	11:09
ZZZZZZ		10/17/00	11:10
ZZZZZZ		10/17/00	11:12
ZZZZZZ		10/17/00	11:14
ZZZZZZ		10/17/00	11:15
ZZZZZZ		10/17/00	11:17
ZZZZZZ		10/17/00	11:19
ZZZZZZ		10/17/00	11:20
ZZZZZZ		10/17/00	11:22
ZZZZZZ		10/17/00	11:23
ZZZZZZ		10/17/00	11.26
ZZZZZZ		10/17/00	11:27
ZZZZZZ		10/17/00	11:29
ZZZZZZ		10/17/00	11:31
ZZZZZZ		10/17/00	11:33
ZZZZZZ		10/17/00	11:34

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICP **Chart Number:** J01018A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		10/18/00	10:52
STD5A		10/18/00	10:55
STD5B		10/18/00	10:58
ICV2-1		10/18/00	11:01
ICB1		10/18/00	11:04
ICSA		10/18/00	11:07
ICSAB		10/18/00	11:10
DM84TB		10/18/00	11:16
DM84TC		10/18/00	11:19
DM650	DF/S1/0287/TOTAL/001	10/18/00	11:22
DM650P	DF/S1/0287/TOTAL/001	10/18/00	11:25
DM650S	DF/S1/0287/TOTAL/001S	10/18/00	11:28
DM650D	DF/S1/0287/TOTAL/001D	10/18/00	11:31
ZZZZZZ		10/18/00	11.35
ZZZZZZ		10/18/00	11:38
CCV2-1		10/18/00	11:41
CCB1		10/18/00	11:44
ZZZZZZ		10/18/00	11:47
ZZZZZZ		10/18/00	11:50
ZZZZZZ		10/18/00	11:53
ZZZZZZ		10/18/00	11:56
ZZZZZZ		10/18/00	12:00
ZZZZZZ		10/18/00	12:03
ZZZZZZ		10/18/00	12:06
ZZZZZZ		10/18/00	12:09
ZZZZZZ		10/18/00	12:12
ZZZZZZ		10/18/00	12:15
ZZZZZZ		10/18/00	12:18

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T01018A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		10/18/00	8:06
STD6		10/18/00	8:10
STD7		10/18/00	8:15
ICV3-1		10/18/00	8:18
ICB1		10/18/00	8:22
ICSA		10/18/00	8:27
ICSAB		10/18/00	8:31
ZZZZZZ		10/18/00	8:37
ZZZZZZ		10/18/00	8:41
ZZZZZZ		10/18/00	8:45
ZZZZZZ		10/18/00	8:50
ZZZZZZ		10/18/00	8:54
ZZZZZZ		10/18/00	8:58
ZZZZZZ		10/18/00	9:02
ZZZZZZ		10/18/00	9:06
CCV3-1		10/18/00	9:10
CCB1		10/18/00	9:14
ZZZZZZ		10/18/00	9:19
ZZZZZZ		10/18/00	9:23
ZZZZZZ		10/18/00	9:27
ZZZZZZ		10/18/00	9:32
ZZZZZZ		10/18/00	9:37
ZZZZZZ		10/18/00	9:41
ZZZZZZ		10/18/00	9:45
ZZZZZZ		10/18/00	9:49
ZZZZZZ		10/18/00	9:53
ZZZZZZ		10/18/00	9:57
CCV3-2		10/18/00	10:02
CCB2		10/18/00	10:06
ZZZZZZ		10/18/00	10:10
ZZZZZZ		10/18/00	10:14
ZZZZZZ		10/18/00	10:18
ZZZZZZ		10/18/00	10:22
ZZZZZZ		10/18/00	10:27
ZZZZZZ		10/18/00	10:31
ZZZZZZ		10/18/00	10:35
ZZZZZZ		10/18/00	10:39
ZZZZZZ		10/18/00	10:43
ZZZZZZ		10/18/00	10:48

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T01018A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CCV3-3		10/18/00	10:52
CCB3		10/18/00	10:56
ZZZZZZ		10/18/00	11:00
ZZZZZZ		10/18/00	11:04
ZZZZZZ		10/18/00	11:08
CCV3-4		10/18/00	11:12
CCB4		10/18/00	11:17
DM84TB		10/18/00	11:23
DM84TC		10/18/00	11:27
DM650	DF/S1/0287/TOTAL/001	10/18/00	11:31
DM650P	DF/S1/0287/TOTAL/001	10/18/00	11:35
DM650S	DF/S1/0287/TOTAL/001S	10/18/00	11:40
DM650D	DF/S1/0287/TOTAL/001D	10/18/00	11:44
ZZZZZZ		10/18/00	11:49
CCV3-5		10/18/00	11:53
CCB5		10/18/00	11:57
ZZZZZZ		10/18/00	12:07
ZZZZZZ		10/18/00	12:12
ZZZZZZ		10/18/00	12:16
ZZZZZZ		10/18/00	12:20
ZZZZZZ		10/18/00	12:24
ZZZZZZ		10/18/00	12:29
ZZZZZZ		10/18/00	12:33
ZZZZZZ		10/18/00	12:37
ZZZZZZ		10/18/00	12:41
ZZZZZZ		10/18/00	12:45
ZZZZZZ		10/18/00	12:49
ZZZZZZ		10/18/00	12:54
ZZZZZZ		10/18/00	12:58
ZZZZZZ		10/18/00	13:02
ZZZZZZ		10/18/00	13:06
ZZZZZZ		10/18/00	13:10
ZZZZZZ		10/18/00	13:14
ZZZZZZ		10/18/00	13:19
ZZZZZZ		10/18/00	13:23
ZZZZZZ		10/18/00	13:27
ZZZZZZ		10/18/00	13:31
ZZZZZZ		10/18/00	13:36
ZZZZZZ		10/18/00	13:40

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T01018A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		10/18/00	13:44
ZZZZZZ		10/18/00	13:48
ZZZZZZ		10/18/00	13:53
ZZZZZZ		10/18/00	13:57

METALS
RAW DATA

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#	Sample Name	FE	K_	MG	MN	NA	NI
22	DM7K2S	1.0418	3.9565	7.3877	.51477	18.965	.48301
23	DM7K2D	1.0928	3.8273	7.5426	.52943	19.395	.50322
24	DM7K6	.05134	4.1609	7.1883	.02481	21.493	.00432
25	DM7K7	125.05	4.3935	7.5547	61.899	18.368	.01769
26	DM7LA	1.3357	3.8202	7.4981	.55575	18.716	-.00050
27	CCV2-2	51.480	49.522	50.210	4.8971	49.498	4.9479
28	CCB2	.00096	.15741	.00740	.00000	-.00542	-.00379

#	Sample Name	V_	ZN
1	STD1	.00019	.00017
2	STD5A	1.70905	1.54361
3	STD5B		
4	ICV2-1 0057-073-3	.98787	.99236
5	ICB1	-.00100	.00482
6	ICSA 0057-078-10	.00148	.00127
7	ICSAB 0057-059-1	.44516	.92826
8	DM84TB	-.00190	.00324
9	DM84TC	.47050	.47763
10	DM650	.29896	.63202
11	DM650P5	.06526	.13846
12	DM650S	.71440	.98976
13	DM650D	.71893	1.0238
14	DLV8M (Raw Sample)	.00124	.03710
15	DLV8MF (Raw Sample)	-.00159	.05688
16	CCV2-1 0057-099-12	4.8382	4.9085
17	CCB1	-.00100	.00102
18	DM85GB	-.00110	.00072
19	DM85GC	.48790	.48964
20	DM7K2	-.00105	.01922
21	DM7K2P5	-.00104	.00544
22	DM7K2S	.47554	.48340
23	DM7K2D	.49053	.49354
24	DM7K6	.00005	.00147
25	DM7K7	-.00125	.13479
26	DM7LA	.00000	.00513
27	CCV2-2	4.8976	4.9640
28	CCB2	-.00100	.00128

COJ140161 673 1682 673 1680

Reinjected 101800

#	Sample Name	AL	BA	BE	CA	CO	CU
1	STD1	.00975	.00017	.0027	.00007	.00015	0
2	STD5A		4.28598	16.4135		1.54009	2.28235
3	STD5B	11.344			27.3035		
4	ICV2-1 0057-073-3	25.356	.99070	.97426	25.515	.99482	.98793
5	ICB1	-.00098	-.00006	.00015	.02180	-.00098	.00350
6	ICSA 0057-078-10	496.11	.00154	.00002	481.34	.00916	.00175
7	ICSAB 0057-059-1	491.80	.45870	.45035	479.93	.44589	.47525
8	DM84TB	-.00625	-.00006	-.00002	.04300	-.00163	.00000
9	DM84TC	1.9869	1.9259	.04805	48.975	.47491	.23979
10	DM650	152.99	1.8248	.00527	357.93	.07305	.23626
11	DM650P5	31.810	.38532	.00120	76.100	.01465	.04854
12	DM650S	147.95	3.4342	.05094	457.11	.50154	.42663
13	DM650D	148.96	3.4351	.05053	337.23	.51342	.46485
14	DLV8M (Raw Sample)	.00914	.05007	.00005	87.983	-.00229	.00131
15	DLV8MF (Raw Sample)	.21000	.05983	.00009	83.643	.05447	.01298
16	CCV2-1 0057-099-12	49.224	4.7700	4.7941	50.267	4.8556	4.7832
17	CCB1	-.00363	.00004	.00039	.00886	-.00099	.00000
18	DM85GB	-.00223	-.00006	.00000	.00490	-.00098	.00000
19	DM85GC	1.9699	1.9592	.04868	L.06106	.49398	.25272
20	DM7K2	.00301	.00004	.00003	35.500	-.00098	.01335
21	DM7K2P5	-.00845	-.00037	-.00005	7.2431	-.00065	.00000
22	DM7K2S	1.9460	1.9098	.04828	35.414	.47933	.25117
23	DM7K2D	1.9892	1.9755	.04983	36.020	.49039	.25272
24	DM7K6	.00217	.00079	.00012	34.049	.00032	.00000
25	DM7K7	.22243	2.0233	.00036	46.588	.01311	.00568
26	DM7LA	.02026	.08612	-.00003	35.448	-.00166	.00015
27	CCV2-2	50.034	4.8506	4.8749	50.917	4.9179	4.8632
28	CCB2	-.00713	-.00011	.00027	.00021	.00097	.00000

#	Sample Name	FE	K	MG	MN	NA	NI
1	STD1	.00089	-.0229	.00009	.00004	.0675	.0001
2	STD5A				2.11595		1.84461
3	STD5B	31.062	2.10524	7.42395		47.9663	
4	ICV2-1 0057-073-3	26.185	24.768	25.415	1.0010	25.042	1.0084
5	ICB1	.00096	.20440	-.00673	.00000	.00584	.00191
6	ICSA 0057-078-10	184.91	-.25374	487.79	.01126	.00000	-.01426
7	ICSAB 0057-059-1	184.07	10.598	483.79	.45644	9.9700	.87548
8	DM84TB	.00756	-.05638	-.01010	.00142	.02473	-.00149
9	DM84TC	1.0098	48.521	48.804	.47775	48.725	.46722
10	DM650	171.87	24.773	25.600	5.0160	5.1379	.15264
11	DM650P5	38.003	5.0443	5.4439	1.0877	1.0626	.03153
12	DM650S	162.03	74.316	72.747	4.9556	54.716	.57986
13	DM650D	165.14	73.500	71.579	5.3463	53.992	.57966
14	DLV8M (Raw Sample)	.03571	2.8381	12.962	1.3578	3.4287	-.00449
15	DLV8MF (Raw Sample)	.17190	2.3448	12.425	1.2454	18.955	.00697
16	CCV2-1 0057-099-12	50.767	48.944	49.381	4.8466	48.747	4.8943
17	CCB1	.00321	-.03289	-.00673	-.00023	.00062	.00038
18	DM85GB	.01690	.01174	-.00067	.00024	.00417	-.00170
19	DM85GC	1.0539	L-.00939	L-.00404	.49138	L.00657	.50100
20	DM7K2	.03830	3.9212	7.4261	.03592	19.145	-.00314
21	DM7K2P5	.00691	.56856	1.4831	.00803	3.8262	-.00252

Analysis Report Summary 10/18/00 12:23:14 PM page 1

RJG 101800

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	J01018A	QUANMET	10/18/00	10:52		X	IR
2	STD5A	J01018A	QUANMET	10/18/00	10:55		X	IR
3	STD5B	J01018A	QUANMET	10/18/00	10:58		X	IR
4	ICV2-1 0057-073-3	J01018A	QUANMET	10/18/00	11:01	RJG	S	CONC
5	ICB1	J01018A	QUANMET	10/18/00	11:04	RJG	S	CONC
6	ICSA 0057-078-10	J01018A	QUANMET	10/18/00	11:07	RJG	Q	CONC
7	ICSAB 0057-059-1	J01018A	QUANMET	10/18/00	11:10	RJG	Q	CONC
8	DM84TB	J01018A	QUANMET	10/18/00	11:16	RJG	S	CONC
9	DM84TC	J01018A	QUANMET	10/18/00	11:19	RJG	S	CONC
10	DM650	J01018A	QUANMET	10/18/00	11:22	RJG	S	CONC
11	DM650P5	J01018A	QUANMET	10/18/00	11:25	RJG	S	CONC
12	DM650S	J01018A	QUANMET	10/18/00	11:28	RJG	S	CONC
13	DM650D	J01018A	QUANMET	10/18/00	11:31	RJG	S	CONC
14	DLV8M (Raw Sample)	J01018A	QUANMET	10/18/00	11:35	RJG	S	CONC
15	DLV8MF (Raw Sample)	J01018A	QUANMET	10/18/00	11:38	RJG	S	CONC
16	CCV2-1 0057-099-12	J01018A	QUANMET	10/18/00	11:41	RJG	S	CONC
17	CCB1	J01018A	QUANMET	10/18/00	11:44	RJG	S	CONC
18	DM85GB	J01018A	QUANMET	10/18/00	11:47	RJG	S	CONC
19	DM85GC	J01018A	QUANMET	10/18/00	11:50	RJG	S	CONC
20	DM7K2	J01018A	QUANMET	10/18/00	11:53	RJG	S	CONC
21	DM7K2P5	J01018A	QUANMET	10/18/00	11:56	RJG	S	CONC
22	DM7K2S	J01018A	QUANMET	10/18/00	12:00	RJG	S	CONC
23	DM7K2D	J01018A	QUANMET	10/18/00	12:03	RJG	S	CONC
24	DM7K6	J01018A	QUANMET	10/18/00	12:06	RJG	S	CONC
25	DM7K7	J01018A	QUANMET	10/18/00	12:09	RJG	S	CONC
26	DM7LA	J01018A	QUANMET	10/18/00	12:12	RJG	S	CONC
27	CCV2-2	J01018A	QUANMET	10/18/00	12:15	RJG	S	CONC
28	CCB2	J01018A	QUANMET	10/18/00	12:18	RJG	S	CONC

Standardization Rpt. 10/18/00 10:55:10 AM

Method: QUANMET Standard: STD1
Run Time: 10/18/00 10:52:03

Elem	AG	AL	AS	B_	BA	BE	CA
Avge	-.00060	.00975	-.00125	-.00031	.00018	.00270	.00008
SDev	.00028	.00118	.00093	.00109	.00015	.00020	.00064
%RSD	47.140	12.121	74.333	344.97	82.490	7.4074	830.07
#1	-.00060	.01140	.00000	-.00188	.00028	.00260	.00022
#2	-.00040	.00900	-.00220	.00062	.00000	.00260	.00016
#3	-.00100	.00880	-.00120	.00000	.00012	.00260	-.00080
#4	-.00040	.00980	-.00160	.00000	.00032	.00300	.00072

Elem	CD	CO	CR	CU	FE	K_	LI
Avge	-.00011	.00015	.00055	.00000	.00090	-.02290	-.00068
SDev	.00013	.00034	.00030	.00000	.00074	.00586	.00015
%RSD	122.43	227.71	54.545	.00000	82.152	25.607	21.626
#1	-.00020	.00060	.00020	.00000	.00100	-.02280	-.00087
#2	-.00020	.00020	.00040	.00000	.00180	-.02840	-.00056
#3	.00008	.00000	.00080	.00000	.00000	-.02560	-.00056
#4	-.00012	-.00020	.00080	.00000	.00080	-.01480	-.00073

Elem	MG	MN	MO	NA	NI	PB	SB
Avge	.00010	.00005	-.00015	.06750	.00010	.00010	.00000
SDev	.00109	.00010	.00019	.00298	.00012	.00012	.00000
%RSD	1089.3	200.00	127.66	4.4114	119.01	115.47	.00000
#1	-.00060	.00000	.00000	.06740	.00016	.00000	.00000
#2	-.00080	.00000	-.00020	.07080	.00000	.00020	.00000
#3	.00020	.00000	.00000	.06360	.00024	.00000	.00000
#4	.00160	.00020	-.00040	.06820	.00000	.00020	.00000

Elem	SE	SI	SN	SR	TI	TL	V_
Avge	.00295	.00000	-.00000	.00004	.00190	-.00010	.00020
SDev	.00282	.00000	.00107	.00010	.00035	.00084	.00040
%RSD	95.458	.00000	7359e6	255.44	18.232	840.63	200.00
#1	.00460	.00000	-.00060	.00000	.00220	-.00120	.00000
#2	-.00120	.00000	-.00120	.00012	.00160	.00080	.00000
#3	.00360	.00000	.00100	.00012	.00160	.00020	.00080
#4	.00480	.00000	.00080	-.00008	.00220	-.00020	.00000

Elem	ZN
Avge	.00018
SDev	.00018
%RSD	101.07
#1	.00020
#2	.00028
#3	-.00008
#4	.00032

Method: QUANMET Standard: STD5A 0057·058·10 673 1685
Run Time: 10/18/00 10:55:14

Elem	AG	AS	B	BA	BE	CD	CO
Avge	.28415	.52785	.61190	4.2860	16.413	.92015	1.5401
SDev	.00124	.00432	.00329	.0208	.082	.00187	.0050
%RSD	.43531	.81872	.53800	.48644	.50201	.20381	.32257
#1	.28520	.52860	.60994	4.2878	16.446	.91995	1.5462
#2	.28480	.52540	.61311	4.3104	16.495	.91827	1.5410
#3	.28420	.53360	.61594	4.2862	16.412	.92274	1.5390
#4	.28240	.52380	.60860	4.2595	16.301	.91964	1.5342

Elem	CR	CU	LI	MN	MO	NI	PB
Avge	3.9455	2.2824	3.8586	2.1160	.41225	1.8446	.26120
SDev	.0113	.0134	.0320	.0069	.00145	.0101	.00082
%RSD	.28673	.58811	.83039	.32746	.35291	.54600	.31259
#1	3.9602	2.2824	3.8392	2.1240	.41280	1.8562	.26240
#2	3.9450	2.2974	3.9015	2.1174	.41360	1.8490	.26080
#3	3.9444	2.2848	3.8642	2.1152	.41240	1.8401	.26100
#4	3.9326	2.2648	3.8297	2.1072	.41020	1.8332	.26060

Elem	SB	SE	SI	SN	SR	TI	TL
Avge	.19315	.51125	.36050	.98080	8.4446	6.3976	.34825
SDev	.00133	.00238	.00303	.01029	.0418	.0231	.00402
%RSD	.68880	.46548	.84076	1.0495	.49555	.36086	1.1556
#1	.19440	.51460	.35600	.97940	8.4566	6.4082	.35240
#2	.19420	.51120	.36220	.97000	8.4902	6.4204	.35100
#3	.19200	.50920	.36240	.97900	8.4420	6.3952	.34480
#4	.19200	.51000	.36140	.99480	8.3896	6.3666	.34480

Elem	V	ZN
Avge	1.7091	1.5436
SDev	.0054	.0033
%RSD	.31638	.21614
#1	1.7142	1.5457
#2	1.7122	1.5454
#3	1.7078	1.5448
#4	1.7020	1.5386

Standardization Rpt. 10/18/00 11:01:28 AM page 1

Method: QUANMET Standard: STD5B 0057.05811
Run Time: 10/18/00 10:58:23

Elem	AL	CA	FE	K	MG	NA
Avge	11.344	27.303	31.062	2.1052	7.4240	47.966
SDev	.034	.071	.045	.0085	.0199	.220
%RSD	.29970	.25825	.14618	.40278	.26764	.45771
#1	11.343	27.379	31.094	2.1062	7.4374	47.924
#2	11.368	27.214	31.051	2.1128	7.4376	48.254
#3	11.296	27.286	31.003	2.0932	7.3954	47.721
#4	11.369	27.334	31.101	2.1088	7.4254	47.966

Method: QUANMET Slope = Conc(SIR)/IR

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Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD5A	STD1	6.87507	.004125	10/18/00 10:58:23
AL	308.215	STD5B	STD1	8.82278	-.086022	10/18/00 10:58:23
AS	193.696	STD5A	STD1	19.1873	.023984	10/18/00 10:58:23
B_	249.600	STD5A	STD1	16.3617	.005149	10/18/00 10:58:23
BA	493.409	STD5A	STD1	2.33328	-.000419	10/18/00 10:58:23
BE	313.042	STD5A	STD1	.610672	-.001649	10/18/00 10:58:23
CA	317.933	STD5B	STD1	3.66255	-.000280	10/18/00 10:58:23
CD	228.802	STD5A	STD1	11.0299	.001200	10/18/00 10:58:23
CO	228.616	STD5A	STD1	6.52622	-.000979	10/18/00 10:58:23
CR	267.716	STD5A	STD1	2.53572	-.001395	10/18/00 10:58:23
CU	324.754	STD5A	STD1	4.37718	.000000	10/18/00 10:58:23
FE	259.940	STD5B	STD1	3.21946	-.002898	10/18/00 10:58:23
K_	766.491	STD5B	STD1	46.9892	1.07605	10/18/00 10:58:23
LI	670.789	STD5A	STD1	2.59112	.001768	10/18/00 10:58:23
MG	279.079	STD5B	STD1	13.4701	-.001347	10/18/00 10:58:23
MN	257.610	STD5A	STD1	4.72455	-.000236	10/18/00 10:58:23
MO	202.030	STD5A	STD1	24.2483	.003637	10/18/00 10:58:23
NA	588.995	STD5B	STD1	2.08773	-.140922	10/18/00 10:58:23
NI	231.604	STD5A	STD1	5.41863	-.000542	10/18/00 10:58:23
PB	220.353	STD5A	STD1	37.2145	-.003721	10/18/00 10:58:23
SB	206.838	STD5A	STD1	51.7999	.000000	10/18/00 10:58:23
SE	196.026	STD5A	STD1	19.6734	-.058037	10/18/00 10:58:23
SI	288.158	STD5A	STD1	27.4152	.000000	10/18/00 10:58:23
SN	189.989	STD5A	STD1	10.1871	.000000	10/18/00 10:58:23
SR	409.552	STD5A	STD1	1.18419	-.000045	10/18/00 10:58:23
TI	334.941	STD5A	STD1	1.56355	-.002971	10/18/00 10:58:23
TL	190.864	STD5A	STD1	57.6272	.005763	10/18/00 10:58:23
V_	292.402	STD5A	STD1	5.76124	-.001152	10/18/00 10:58:23
ZN	213.856	STD5A	STD1	6.49719	-.001166	10/18/00 10:58:23

Method: QUANMET Sample Name: ICV2-1 0057-073-3 Operator: RJG
Run Time: 10/18/00 11:01:32
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP Reanalyzed 10/18/00
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50450	25.356	1.0905	1.0171	.99071	.97427	25.515
SDev	.00134	.178	.0634	.0007	.01016	.00785	.086
%RSD	.26559	.70159	5.8098	.07022	1.0258	.80563	.33512
#1	.50555	25.304	H1.1254	1.0182	.98867	.97267	25.568
#2	.50554	25.539	H1.1619	1.0170	1.0010	.98245	25.456
#3	.50274	25.132	1.0310	1.0166	.97747	.96413	25.605
#4	.50416	25.447	1.0437	1.0169	.99567	.97781	25.429
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
Avge	1.0099	.99483	1.0075	.98793	26.185	24.768	.99459
SDev	.0047	.00223	.0018	.00938	.087	.503	.01618
%RSD	.46846	.22407	.17915	.94966	.33266	2.0296	1.6269
#1	1.0143	.99775	1.0075	.98269	26.205	24.787	.98703
#2	1.0134	.99252	1.0065	.99669	26.260	24.956	1.0082
#3	1.0048	.99388	1.0100	.97741	26.059	25.257	.97536
#4	1.0069	.99515	1.0060	.99494	26.215	24.073	1.0078
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
Avge	25.415	1.0010	.99029	25.042	1.0084	1.0172	.99920
SDev	.188	.0021	.00464	.283	.0180	.0179	.02002
%RSD	.74138	.21121	.46858	1.1306	1.7880	1.7596	2.0037
#1	25.314	1.0022	.98666	24.950	1.0183	1.0285	1.0150
#2	25.600	1.0032	.98666	25.353	.99917	.99092	.97317
#3	25.201	.99842	.99149	24.697	1.0280	1.0286	1.0149
#4	25.543	1.0003	.99636	25.170	.98821	1.0209	.99376
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
Avge	.93041	1.0396	1.0212	.98495	.97980	4.8629	.98788
SDev	.03471	.0239	.0216	.00837	.00564	.1429	.00227
%RSD	3.7309	2.2999	2.1199	.84958	.57530	2.9378	.23010
#1	.93834	1.0534	.99170	.98293	.97769	4.9779	.99129
#2	.96606	1.0533	1.0384	.99335	.98582	4.9889	.98667

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#3	L.88282	1.0040	1.0182	.97417	.97300	4.7030	.98675
#4	.93444	1.0478	1.0364	.98933	.98269	4.7819	.98680
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	.99236
SDev	.00389
%RSD	.39212
#1	.98931
#2	.99502
#3	.98875
#4	.99636
Errors	LC Pass
High	1.1000
Low	.90000

Method: QUANMET Sample Name: ICB1 673 1690 Operator: RJG
Run Time: 10/18/00 11:04:40
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	-.00099	.00482	.01189	-.00007	.00015	.02180
SDev	.00159	.00755	.03266	.00155	.00014	.00012	.00311
%RSD	37660.	763.11	677.67	13.052	202.32	75.588	14.253
#1	.00137	.00380	.03548	.01305	-.00023	.00006	.02045
#2	-.00138	-.01206	-.04114	.01304	-.00014	.00019	.01864
#3	.00137	.00384	.00862	.01170	.00005	.00006	.02221
#4	-.00138	.00046	.01632	.00977	.00005	.00031	.02592
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	.00289	-.00099	.00026	.00350	.00097	.20440	-.00062
SDev	.00127	.00282	.00217	.00404	.00139	.26497	.00068
%RSD	43.716	285.33	844.83	115.46	143.89	129.63	109.33
#1	.00429	-.00360	-.00139	.00700	.00161	.23964	-.00134
#2	.00165	-.00229	.00064	-.00000	-.00097	.10808	.00030
#3	.00201	-.00099	-.00139	.00700	.00226	-.07988	-.00073
#4	.00362	.00293	.00317	.00000	.00097	.54977	-.00073
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	-.00674	.00000	.01091	.00585	.00191	.01486	-.00006
SDev	.01801	.00047	.00485	.00471	.00435	.01293	.00005
%RSD	267.33	11958.	44.444	80.496	227.39	87.029	73.909
#1	-.01751	-.00023	.01334	.01106	-.00245	-.00382	-.00012
#2	-.01482	-.00023	.01334	.00230	.00794	.01856	-.00004
#3	-.01482	-.00023	.01334	.00146	.00105	.02602	-.00009
#4	.02021	.00071	.00364	.00856	.00112	.01869	-.00001
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	-.06787	.03974	.00764	.00014	.00039	.03458	-.00101
SDev	.01654	.02663	.00961	.00024	.00030	.03938	.00006
%RSD	24.369	67.002	125.80	165.66	76.594	113.87	5.9113
#1	-.07377	.04934	.00815	-.00014	.00078	-.00575	-.00098
#2	-.06591	-.00001	.01426	.00009	.00016	.08648	-.00097

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#3	-.04623	.05482	.01426	.00043	.00047	.01728	-.00098
#4	-.08558	.05482	-.00611	.00019	.00016	.04032	-.00110
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	.00483
SDev	.00137
%RSD	28.286
#1	.00294
#2	.00607
#3	.00552
#4	.00479
Errors	LC Pass
High	.02000
Low	-.02000

Analysis Report QC Standard 10/18/00 11:10:52 AM page 1

Method: QUANMET Sample Name: ICSA 0057-078-10 Operator: RJG
Run Time: 10/18/00 11:07:47
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00195	496.11	.19385	-.02336	.00154	.00003	481.34
SDev	.00108	1.82	.09204	.01121	.00031	.00006	.68
%RSD	55.696	.36727	47.481	47.978	20.244	216.00	.14048
#1	-.00186	497.84	.10884	-.03003	.00117	.00005	480.93
#2	-.00331	496.90	.26618	-.00659	.00145	.00006	481.20
#3	-.00198	496.09	.28043	-.02828	.00164	.00005	480.89
#4	-.00065	493.59	.11995	-.02855	.00191	-.00006	482.33
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
Avge	.00022	.00917	-.00063	.00176	184.91	-.25374	.00162
SDev	.00680	.00376	.00288	.00068	.29	.11080	.00058
%RSD	3056.0	41.030	454.97	38.816	.15704	43.666	36.129
#1	.00435	.01209	-.00190	.00092	185.25	-.37121	.00116
#2	-.00898	.01213	.00063	.00177	185.03	-.32423	.00116
#3	-.00073	.00819	-.00393	.00174	184.75	-.17386	.00177
#4	.00624	.00425	.00266	.00259	184.60	-.14567	.00238
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
Avge	487.79	.01127	.00329	-.00000	-.01426	.03630	-.00253
SDev	1.22	.00050	.00556	.00636	.00663	.02678	.02281
%RSD	.25074	4.4629	169.23	79e6	46.512	73.768	901.26
#1	489.02	.01157	-.00152	.00605	-.01036	.05738	-.01017
#2	488.48	.01152	-.00155	-.00898	-.02107	.02088	-.01015
#3	487.38	.01146	.00812	.00146	-.00706	.00651	-.02067
#4	486.26	.01051	.00810	.00146	-.01857	.06041	.03087
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
Avge	-.17510	.14120	-.05763	.01377	-.01986	.35841	.00148
SDev	.06279	.00821	.06177	.00000	.00026	.15377	.00238
%RSD	35.858	5.8175	107.18	.00000	1.2858	42.904	160.67
#1	-.12487	.13711	-.07136	.01377	-.01986	.32273	.00343
#2	-.25147	.13706	-.13863	.01377	-.02017	.23313	-.00117

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#3	-.12247	.13711	-.02055	.01377	-.01954	.58209	.00355
#4	-.20161	.15353	.00001	.01377	-.01986	.29567	.00011
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	ZN
Units	ppm
Avge	.00128
SDev	.00258
%RSD	201.41
#1	-.00139
#2	-.00036
#3	.00407
#4	.00280
Errors	NOCHECK
Value	
Range	

Analysis Report QC Standard 10/18/00 11:14:01 AM page 1

Method: QUANMET Sample Name: ICSAB 0057-059-1 Operator: RJG
Run Time: 10/18/00 11:10:55
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94573	491.80	Q1.2186	.89808	.45871	.45036	479.93
SDev	.00371	3.99	.1467	.01659	.00501	.00315	.74
%RSD	.39246	.81226	12.035	1.8476	1.0926	.69921	.15330
#1	.95005	496.42	1.1921	.92232	.46487	.45428	479.17
#2	.94713	492.58	Q1.2690	.88840	.45992	.45063	479.62
#3	.94139	486.72	Q1.3814	.89520	.45292	.44661	480.05
#4	.94437	491.49	1.0321	.88640	.45712	.44990	480.89
Errors	QC Pass	QC Pass	QC Fail	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	.94799	.44589	.44407	.47526	184.07	10.598	.98343
SDev	.00762	.00537	.00187	.01161	.63	.209	.01643
%RSD	.80330	1.2046	.42231	2.4429	.34016	1.9727	1.6709
#1	.94891	.45273	.44128	.48892	184.78	10.399	1.0022
#2	.95020	.44491	.44483	.47745	184.14	10.671	.99057
#3	.93738	.44627	.44534	.46072	183.25	10.859	.96442
#4	.95546	.43967	.44483	.47394	184.10	10.464	.97658
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	483.79	.45645	.89188	9.9700	.87548	.95330	.98190
SDev	2.78	.00152	.00734	.1186	.03435	.02523	.01278
%RSD	.57363	.33186	.82274	1.1894	3.9231	2.6462	1.3020
#1	487.12	.45776	.90046	10.117	.90679	.98721	.96414
#2	484.37	.45574	.88583	9.9954	.85071	.93039	.99463
#3	480.41	.45465	.88571	9.8334	.84120	.95712	.98426
#4	483.28	.45764	.89552	9.9341	.90323	.93847	.98458
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	.83749	1.0758	.87750	.92196	.87754	8.9772	.44517
SDev	.07507	.0590	.03186	.00838	.00549	.0950	.00387
%RSD	8.9631	5.4834	3.6301	.90849	.62564	1.0585	.87034
#1	.82983	1.1238	.84646	.93166	.88388	8.9228	.44960
#2	Q.79246	1.1237	.85668	.92399	.87918	8.9072	.44595

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#3	Q.78191	1.0031	.89114	.91143	.87074	8.9634	.44019
#4	.94579	1.0525	.91572	.92077	.87637	9.1152	.44493
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	.92826
SDev	.00203
%RSD	.21868
#1	.93075
#2	.92629
#3	.92698
#4	.92903
Errors	QC Pass
Value	1.0000
Range	20.000

Method: QUANMET Sample Name: DM84TB Operator: RJG
Run Time: 10/18/00 11:16:19
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00069	-.00625	.02789	.01243	-.00007	-.00003	.04300
SDev	.00328	.01157	.03907	.01115	.00023	.00012	.00396
%RSD	472.92	185.04	140.07	89.666	340.00	438.61	9.2041
#1	.00137	.00391	.08152	.00516	.00005	.00006	.04669
#2	-.00552	-.02082	.01271	.00710	-.00042	-.00005	.03742
#3	.00137	.00214	.02781	.02903	.00005	-.00018	.04346
#4	.00000	-.01025	-.01048	.00844	.00005	.00006	.04445
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	-.00035	-.00163	.00000	-.00000	.00757	-.05639	-.00030
SDev	.00099	.00311	.00112	.00000	.00110	.26807	.00074
%RSD	280.07	190.64	40666.	431.73	14.560	475.41	241.66
#1	-.00062	.00033	.00064	.00000	.00869	.23964	.00012
#2	.00103	-.00620	-.00038	-.00001	.00611	-.36182	-.00134
#3	-.00132	.00033	-.00139	.00000	.00805	-.18326	-.00030
#4	-.00050	-.00098	.00114	-.00000	.00741	.07988	.00030
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	-.01010	.00142	.00849	.02474	-.00150	.00182	-.00008
SDev	.01212	.00047	.00000	.00441	.00640	.01653	.00008
%RSD	120.00	33.221	.00168	17.828	427.05	907.90	91.026
#1	.00404	.00166	.00849	.02860	.00265	-.00372	-.00000
#2	-.02021	.00071	.00849	.01900	-.00959	-.01131	-.00017
#3	-.02021	.00166	.00849	.02359	-.00354	-.00372	-.00013
#4	-.00404	.00166	.00849	.02777	.00449	.02603	-.00004
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	-.04523	.06303	.00560	.00003	.00016	-.00869	-.00190
SDev	.02695	.00551	.01482	.00023	.00068	.07842	.00256
%RSD	59.590	8.7447	264.47	651.05	432.05	902.04	134.21
#1	-.03047	.06578	-.00815	-.00014	.00047	-.08652	-.00104
#2	-.03441	.05476	-.00407	.00009	-.00078	.07494	-.00565

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#3	-.08555	.06578	.02445	-.00014	.00078	.04026	-.00104
#4	-.03047	.06580	.01019	.00033	.00016	-.06345	.00011
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	.00324
SDev	.00094
%RSD	29.031
#1	.00218
#2	.00404
#3	.00404
#4	.00272
Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DM84TC Operator: RJG
Run Time: 10/18/00 11:19:27
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04830	1.9869	1.9745	.97207	1.9259	.04805	48.975
SDev	.00177	.0139	.0384	.01565	.0044	.00018	.149
%RSD	3.6541	.69802	1.9468	1.6097	.22781	.36965	.30500
#1	.04897	1.9813	2.0226	.98005	1.9246	.04790	48.843
#2	.05035	1.9935	1.9380	.94869	1.9204	.04790	48.853
#3	.04625	1.9706	1.9497	.97814	1.9286	.04814	49.067
#4	.04762	2.0023	1.9878	.98141	1.9302	.04826	49.137
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	.04615	.47492	.19291	.23979	1.0098	48.521	.97482
SDev	.00214	.00249	.00151	.00084	.0014	.234	.00297
%RSD	4.6294	.52495	.78446	.35015	.13777	.48292	.30500
#1	.04571	.47688	.19227	.24045	1.0079	48.394	.97521
#2	.04535	.47427	.19126	.24045	1.0104	48.798	.97106
#3	.04430	.47166	.19328	.23869	1.0111	48.272	.97469
#4	.04922	.47686	.19481	.23957	1.0098	48.620	.97832
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	48.804	.47776	.95673	48.725	.46722	.49168	.47221
SDev	.121	.00091	.00840	.157	.00914	.00602	.04151
%RSD	.24774	.18960	.87798	.32280	1.9555	1.2251	8.7902
#1	48.707	.47657	.94945	48.661	.46132	.48432	.49296
#2	48.698	.47752	.96400	48.583	.46311	.49169	.49281
#3	48.871	.47846	.94945	48.709	.46362	.49164	.49312
#4	48.941	.47847	.96400	48.948	.48085	.49908	.40995
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	1.8770	1.6586	1.8928	.95794	.94470	1.8492	.47051
SDev	.0334	.0131	.0668	.00265	.00315	.0919	.00267
%RSD	1.7787	.78875	3.5317	.27618	.33376	4.9696	.56669
#1	1.9006	1.6504	1.8735	.95669	.94360	1.9501	.46811
#2	1.8376	1.6449	1.9143	.95503	.94141	1.7311	.46830

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#3	1.9084	1.6669	1.8124	.95896	.94485	1.8348	.47272
#4	1.8612	1.6724	1.9710	.96109	.94892	1.8809	.47291
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	.47764
SDev	.00339
%RSD	.70940
#1	.47583
#2	.47399
#3	.48158
#4	.47915
Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DM650 Operator: RJG
Run Time: 10/18/00 11:22:34
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00113	152.99	.15465	.10322	1.8248	.00528	357.93
SDev	.00169	1.17	.09434	.00307	.0162	.00000	2.01
%RSD	150.34	.76648	61.000	2.9739	.89007	.04369	.56020
#1	.00334	151.59	.06671	.10248	1.8035	.00527	357.71
#2	-.00078	152.48	.24008	.09930	1.8210	.00528	355.61
#3	.00086	153.71	.07955	.10468	1.8352	.00528	357.89
#4	.00108	154.17	.23229	.10642	1.8394	.00528	360.50
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	.00428	.07306	.16732	.23627	171.87	24.773	.09019
SDev	.00413	.00076	.00194	.00179	1.00	.170	.00062
%RSD	96.472	1.0329	1.1605	.75763	.58217	.68461	.69244
#1	.00665	.07375	.16884	.23486	171.04	24.815	.08993
#2	-.00009	.07244	.16479	.23487	171.09	24.900	.08950
#3	.00876	.07237	.16885	.23674	172.21	24.524	.09035
#4	.00178	.07367	.16682	.23860	173.14	24.853	.09096
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	25.600	5.0160	.01130	5.1379	.15264	.35997	.07961
SDev	.183	.0263	.00013	.0510	.00600	.03198	.02247
%RSD	.71421	.52478	1.1442	.99286	3.9318	8.8853	28.219
#1	25.411	4.9990	.01120	5.0680	.15162	.33328	.11074
#2	25.487	4.9923	.01120	5.1327	.15925	.38465	.07978
#3	25.694	5.0219	.01135	5.1699	.14496	.33143	.05869
#4	25.807	5.0506	.01147	5.1811	.15472	.39051	.06925
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	-.14977	H23.661	.03024	.45813	3.4618	.10196	.29897
SDev	.02683	.204	.02829	.00388	.0225	.06454	.00094
%RSD	17.913	.86422	93.553	.84811	.65108	63.299	.31595
#1	-.14048	H23.427	.01706	.45311	3.4381	.16312	.30012
#2	-.14033	H23.564	.00468	.45704	3.4487	.03575	.29781

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#3	-.12907	H23.772	.06991	.46083	3.4725	.05780	.29897
#4	-.18921	H23.882	.02932	.46154	3.4878	.15116	.29897
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	.63202
SDev	.00563
%RSD	.89083
#1	.62602
#2	.62934
#3	.63372
#4	.63902

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DM650P5 Operator: RJG
Run Time: 10/18/00 11:25:42
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00033	31.810	.07811	.04049	.38532	.00120	76.100
SDev	.00112	.206	.02891	.01708	.00307	.00007	.190
%RSD	337.97	.64785	37.016	42.191	.79699	5.8582	.24912
#1	-.00036	31.643	.11025	.01494	.38301	.00127	76.049
#2	-.00036	31.656	.04108	.05084	.38348	.00126	75.923
#3	.00107	31.859	.07379	.04798	.38507	.00114	76.369
#4	-.00167	32.081	.08732	.04820	.38973	.00115	76.060

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00219	.01466	.03737	.04854	38.003	5.0443	.01930
SDev	.00351	.00213	.00192	.00436	.154	.4308	.00062
%RSD	160.36	14.525	5.1366	8.9886	.40545	8.5395	3.1962
#1	.00140	.01466	.03762	.05072	37.901	5.5024	.01878
#2	.00698	.01726	.03864	.05072	37.853	5.2769	.02000
#3	.00181	.01205	.03863	.05073	38.069	4.8634	.01878
#4	-.00144	.01466	.03458	.04200	38.187	4.5345	.01963

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4439	1.0877	.00612	1.0626	.03153	.09127	.01220
SDev	.0366	.0026	.00624	.0080	.00700	.01773	.01772
%RSD	.67172	.24276	101.97	.75410	22.208	19.429	145.26
#1	5.4379	1.0865	.00854	1.0566	.03529	.11559	.00955
#2	5.4002	1.0845	.01338	1.0579	.02106	.09331	-.01112
#3	5.4487	1.0893	-.00114	1.0616	.03421	.07814	.01997
#4	5.4891	1.0903	.00372	1.0741	.03556	.07804	.03040

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.08425	5.0876	.01039	.09699	.73776	-.06307	.06527
SDev	.04354	.0243	.03526	.00070	.00410	.10664	.00200
%RSD	51.680	.47687	339.34	.72105	.55522	169.09	3.0654
#1	-.13177	5.0726	.04297	.09640	.73628	-.00428	.06357
#2	-.10831	5.0616	-.03862	.09650	.73315	-.18820	.06710
#3	-.06044	5.1110	.02673	.09711	.73878	-.10990	.06690
#4	-.03647	5.1054	.01048	.09792	.74284	.05011	.06350

Elem	ZN
Units	ppm
Avge	.13846
SDev	.00345
%RSD	2.4948
#1	.14350
#2	.13761
#3	.13701

#4	.13572

Method: QUANMET Sample Name: DM650S Operator: RJG
Run Time: 10/18/00 11:28:49
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04528	147.95	2.0835	.96177	3.4342	.05094	457.11
SDev	.00257	.75	.0637	.00882	.0217	.00021	1.04
%RSD	5.6811	.50929	3.0579	.91703	.63111	.40609	.22832
#1	.04552	147.77	2.0345	.97396	3.4311	.05091	455.76
#2	.04690	146.96	2.0562	.95453	3.4047	.05067	458.14
#3	.04712	148.48	2.0663	.95613	3.4487	.05115	457.67
#4	.04157	148.59	2.1770	.96244	3.4521	.05104	456.87
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	.04722	.50154	.32588	.42663	162.03	74.316	1.0568
SDev	.00479	.00528	.00196	.00235	.49	.356	.0128
%RSD	10.150	1.0518	.60085	.55168	.30248	.47959	1.2081
#1	.04055	.49863	.32855	.42504	161.56	74.078	1.0553
#2	.05179	.50778	.32500	.42419	161.67	74.022	1.0400
#3	.04910	.50380	.32601	.42866	162.52	74.802	1.0615
#4	.04743	.49597	.32398	.42864	162.39	74.360	1.0704
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	72.747	4.9556	.88297	54.716	.57986	.73268	.43090
SDev	.305	.0076	.00684	.510	.01501	.03220	.01964
%RSD	.41955	.15385	.77475	.93151	2.5886	4.3954	4.5575
#1	72.638	4.9503	.88291	54.660	.55876	.74399	.42803
#2	72.365	4.9484	.88777	54.021	.58036	.70756	.41800
#3	73.012	4.9647	.88788	55.020	.59318	.77318	.41808
#4	72.974	4.9590	.87332	55.164	.58714	.70600	.45950
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	1.6972	H21.723	1.7213	1.4166	4.1449	1.8988	.71441
SDev	.0818	.054	.0126	.0083	.0156	.0465	.00243
%RSD	4.8206	.24843	.73475	.58637	.37624	2.4500	.34042
#1	1.7666	H21.683	1.7401	1.4155	4.1411	1.9013	.71643
#2	1.7040	H21.677	1.7177	1.4053	4.1245	1.9230	.71303

#3	1.5806	H21.738	1.7137	1.4224	4.1554	1.8328	.71649
#4	1.7376	H21.792	1.7138	1.4233	4.1586	1.9381	.71168
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	.98976
SDev	.00411
%RSD	.41562
#1	.98662
#2	.98997
#3	.99550
#4	.98695
Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report 10/18/00 11:35:02 AM page 1

Method: QUANMET Sample Name: DM650D Operator: RJG
Run Time: 10/18/00 11:31:57
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04735	148.96	2.0732	.98069	3.4351	.05054	337.23
SDev	.00296	.60	.0662	.00163	.0166	.00034	2.60
%RSD	6.2464	.39945	3.1952	.16611	.48209	.66466	.76981
#1	.04462	148.19	2.0979	.97834	3.4207	.05006	334.05
#2	.04910	149.21	2.1498	.98084	3.4452	.05078	336.54
#3	.04509	149.59	2.0503	.98170	3.4531	.05078	338.13
#4	.05061	148.85	1.9947	.98188	3.4213	.05053	340.20
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	.04688	.51342	.33159	.46486	165.14	73.500	1.0323
SDev	.00269	.00661	.00372	.00206	.87	.510	.0080
%RSD	5.7471	1.2866	1.1232	.44372	.52631	.69325	.77757
#1	.04973	.50759	.32703	.46296	163.89	73.054	1.0299
#2	.04611	.50884	.33159	.46661	165.21	73.204	1.0387
#3	.04818	.51534	.33159	.46667	165.68	73.543	1.0387
#4	.04351	.52192	.33615	.46319	165.78	74.201	1.0220
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	71.579	5.3463	.89792	53.992	.57966	.76892	.44612
SDev	.384	.0300	.01051	.309	.01463	.01394	.04890
%RSD	.53716	.56031	1.1703	.57218	2.5236	1.8127	10.961
#1	71.029	5.3034	.89291	53.808	.56707	.75843	.47974
#2	71.854	5.3482	.89793	54.295	.59334	.75749	.47987
#3	71.835	5.3644	.91254	54.210	.59128	.78702	.44875
#4	71.600	5.3691	.88830	53.655	.56696	.77272	.37614
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	1.6742	H29.366	1.7597	1.3013	4.2697	1.8028	.71894
SDev	.0457	.255	.0126	.0058	.0191	.1687	.00466
%RSD	2.7269	.86947	.71654	.44479	.44780	9.3570	.64843
#1	1.7264	H28.986	1.7506	1.2959	4.2430	1.6238	.71195
#2	1.6203	H29.447	1.7772	1.3051	4.2765	1.8394	.72124

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#3	1.6925	H29.524	1.7608	1.3074	4.2880	2.0186	.72143
#4	1.6574	H29.507	1.7504	1.2969	4.2712	1.7293	.72113

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	1.0238
SDev	.0099
%RSD	.96343

#1	1.0104
#2	1.0302
#3	1.0226
#4	1.0321

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DLV8M (Raw Sample) Operator: RJG
Run Time: 10/18/00 11:35:04
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00264	.00914	.05072	.00570	.05008	.00006	87.983
SDev	.00131	.00558	.03211	.00097	.00040	.00001	.939
%RSD	49.743	61.034	63.303	16.935	.79248	9.7844	1.0673
#1	-.00436	.00731	.05453	.00522	.05064	.00005	89.297
#2	-.00162	.00212	.06616	.00522	.04998	.00006	87.996
#3	-.00160	.01266	.07752	.00715	.04971	.00005	87.458
#4	-.00300	.01448	.00466	.00522	.04998	.00006	87.180
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	.00030	-.00230	-.00342	.00131	.03572	2.8381	.00680
SDev	.00346	.00152	.00041	.00113	.00091	.3608	.00046
%RSD	1171.2	65.895	12.087	85.952	2.5500	12.711	6.8106
#1	.00498	-.00362	-.00393	.00088	.03507	2.5891	.00634
#2	-.00085	-.00099	-.00342	.00000	.03508	2.4857	.00738
#3	.00031	-.00360	-.00292	.00175	.03701	3.2470	.00652
#4	-.00327	-.00098	-.00342	.00263	.03572	3.0308	.00695
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	12.962	1.3578	.00728	3.4287	-.00449	.01110	.00769
SDev	.121	.0123	.00243	.0224	.00250	.01821	.02299
%RSD	.93518	.90445	33.311	.65286	55.758	164.06	299.19
#1	13.097	1.3756	.00849	3.4575	-.00163	.03338	-.00003
#2	13.019	1.3567	.00849	3.4224	-.00660	-.00377	-.01050
#3	12.819	1.3491	.00364	3.4036	-.00658	-.00378	.04138
#4	12.914	1.3501	.00849	3.4312	-.00316	.01856	-.00011
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	.03060	6.0834	.01381	.24797	-.00532	-.01312	.00124
SDev	.02988	.0553	.01243	.00197	.00040	.09485	.00264
%RSD	97.639	.90896	89.989	.79576	7.5941	723.11	213.04
#1	-.01071	6.1630	.00410	.25074	-.00579	-.00722	.00356
#2	.04831	6.0752	.02239	.24776	-.00485	.10790	-.00105

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#3	.02864	6.0369	.00223	.24610	-.00516	-.12269	.00350
#4	.05618	6.0587	.02651	.24728	-.00547	-.03046	-.00105
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	.03710
SDev	.00205
%RSD	5.5150
#1	.03913
#2	.03860
#3	.03525
#4	.03544
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DLV8MF (Raw Sample) Operator: RJG
Run Time: 10/18/00 11:38:11
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00020	.21000	.03657	.09864	.05984	.00010	83.643
SDev	.00477	.01155	.05921	.00495	.00041	.00011	.805
%RSD	2439.4	5.4982	161.92	5.0192	.68968	118.42	.96229
#1	.00118	.21973	.06813	.10548	.05951	.00018	84.457
#2	.00393	.21440	.09887	.09836	.05970	.00018	84.158
#3	.00119	.21257	.01446	.09701	.05970	.00006	83.235
#4	-.00709	.19329	-.03520	.09373	.06044	-.00005	82.721
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	.00072	.05447	.12083	.01299	.17191	2.3448	.00722
SDev	.00080	.00272	.00436	.00044	.00261	.6578	.00201
%RSD	111.30	4.9889	3.6098	3.3893	1.5153	28.056	27.848
#1	.00070	.05773	.12591	.01321	.17416	2.6737	.00799
#2	.00034	.05512	.12286	.01320	.17352	3.0496	.00945
#3	-.00001	.05382	.11830	.01320	.17159	2.1098	.00677
#4	.00183	.05121	.11627	.01233	.16836	1.5459	.00469
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	12.425	1.2454	.03276	18.955	.00698	-.00421	.02753
SDev	.087	.0053	.00396	.277	.00346	.01275	.00519
%RSD	.69951	.42189	12.089	1.4591	49.628	302.87	18.840
#1	12.375	1.2509	.03276	18.742	.01184	-.00228	.01975
#2	12.380	1.2490	.03276	18.770	.00483	.01256	.03011
#3	12.391	1.2405	.03761	18.964	.00706	-.00981	.03012
#4	12.555	1.2414	.02791	19.342	.00419	-.01731	.03015
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	-.02407	5.9737	.00423	.23636	-.00407	.04163	-.00159
SDev	.03423	.0414	.00924	.00235	.00097	.05763	.00235
%RSD	142.23	.69303	218.35	.99628	23.916	138.42	147.62
#1	.00545	6.0313	.01643	.23497	-.00391	-.03330	-.00043
#2	.00545	5.9655	-.00391	.23487	-.00328	.03587	-.00044

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#3	-.04965	5.9326	.00628	.23578	-.00360	.10499	-.00038
#4	-.05753	5.9655	-.00186	.23984	-.00547	.05898	-.00513
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	.05688
SDev	.00179
%RSD	3.1455
#1	.05643
#2	.05776
#3	.05874
#4	.05461
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-1 0057-099-12 Operator: RJG
Run Time: 10/18/00 11:41:19
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98016	49.224	5.0875	4.8787	4.7700	4.7941	50.267
SDev	.00197	.070	.0429	.0293	.0143	.0054	.131
%RSD	.20117	.14132	.84255	.60152	.30081	.11282	.26111
#1	.98015	49.281	5.1505	4.8532	4.7874	4.7966	50.086
#2	.97873	49.145	5.0788	4.9023	4.7579	4.7910	50.258
#3	.97881	49.185	5.0628	4.8533	4.7586	4.7885	50.384
#4	.98295	49.284	5.0581	4.9058	4.7762	4.8005	50.338
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
Avge	4.9798	4.8556	4.8530	4.7832	50.767	48.944	4.7875
SDev	.0101	.0036	.0081	.0129	.064	.277	.0272
%RSD	.20369	.07349	.16665	.27045	.12632	.56625	.56711
#1	4.9699	4.8521	4.8453	4.7947	50.720	49.071	4.8199
#2	4.9752	4.8534	4.8483	4.7667	50.711	49.146	4.7619
#3	4.9935	4.8599	4.8549	4.7790	50.790	49.024	4.7685
#4	4.9806	4.8573	4.8635	4.7921	50.848	48.535	4.7998
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
Avge	49.381	4.8466	4.9350	48.747	4.8943	4.9642	5.0526
SDev	.140	.0052	.0229	.143	.0144	.0385	.0438
%RSD	.28266	.10726	.46454	.29383	.29387	.77622	.86603
#1	49.453	4.8409	4.9326	48.910	4.9018	4.9194	5.0425
#2	49.245	4.8437	4.9035	48.625	4.8932	4.9493	5.0424
#3	49.286	4.8494	4.9520	48.628	4.9075	4.9791	5.0110
#4	49.542	4.8523	4.9520	48.824	4.8746	5.0089	5.1143
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
Avge	4.8768	4.9405	5.0650	4.7631	4.8864	9.6132	4.8382
SDev	.0503	.0419	.0463	.0120	.0070	.1702	.0066
%RSD	1.0304	.84829	.91480	.25295	.14334	1.7707	.13599
#1	4.8137	4.9090	5.0156	4.7774	4.8916	9.5561	4.8384
#2	4.8648	4.9034	5.0441	4.7503	4.8781	9.8444	4.8289

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#3	4.8966	4.9584	5.1234	4.7565	4.8831	9.6129	4.8422
#4	4.9321	4.9913	5.0770	4.7680	4.8928	9.4394	4.8434
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	4.9085
SDev	.0093
%RSD	.18865
#1	4.8951
#2	4.9098
#3	4.9154
#4	4.9137
Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB1 Operator: RJG
Run Time: 10/18/00 11:44:27
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00138	-.00364	.01251	.01189	.00005	.00040	.00887
SDev	.00159	.00512	.03088	.00082	.00033	.00018	.00500
%RSD	115.16	140.80	246.84	6.8801	690.46	45.936	56.417
#1	-.00000	-.00675	.02021	.01170	-.00042	.00019	.00209
#2	-.00000	.00392	-.02208	.01170	.00032	.00055	.01411
#3	-.00275	-.00683	.00102	.01305	.00024	.00031	.00916
#4	-.00275	-.00489	.05090	.01113	.00005	.00055	.01010
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	.00426	-.00099	.00013	-.00000	.00322	-.03289	.00017
SDev	.00089	.00213	.00101	.00000	.00123	.18952	.00115
%RSD	20.920	214.74	782.65	356.13	38.302	576.17	683.77
#1	.00317	-.00099	-.00139	-.00000	.00161	-.09868	-.00073
#2	.00495	.00162	.00064	.00000	.00419	.22085	.00116
#3	.00390	-.00360	.00064	-.00000	.00290	-.23025	.00116
#4	H.00503	-.00099	.00064	-.00000	.00418	-.02349	-.00091
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	-.00674	-.00023	.01091	.00063	.00038	-.00561	-.00265
SDev	.00984	.00000	.00626	.00561	.00443	.00938	.03318
%RSD	146.06	.82001	57.374	896.09	1163.6	167.22	1249.9
#1	-.01751	-.00023	.01334	-.00188	.00048	-.01862	.01031
#2	.00404	-.00023	.00849	.00605	-.00582	.00379	.02063
#3	-.01212	-.00023	.01819	-.00605	.00440	-.00388	-.05189
#4	-.00135	-.00023	.00364	.00438	.00246	-.00373	.01033
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	-.03344	.05619	.00203	.00052	.00016	.02591	-.00101
SDev	.03170	.00274	.00593	.00028	.00036	.08492	.00008
%RSD	94.815	4.8795	292.45	53.803	230.94	327.75	8.1390
#1	-.03049	.06030	-.00199	.00023	-.00016	.08644	-.00098
#2	-.00294	.05482	-.00399	.00080	.00047	-.06345	-.00104

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#3	-.02262	.05482	.00590	.00033	.00047	.10950	-.00091
#4	-.07770	.05482	.00819	.00071	-.00016	-.02885	-.00110
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	.00103
SDev	.00160
%RSD	155.50
#1	.00036
#2	.00328
#3	.00088
#4	-.00041
Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DM85GB Operator: RJG
Run Time: 10/18/00 11:47:35
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00034	-.00224	.00098	.01173	-.00007	.00000	.00490
SDev	.00132	.00845	.02364	.00157	.00028	.00007	.00071
%RSD	382.10	377.28	2422.8	13.384	409.72	2961.8	14.399
#1	.00137	.00747	-.01445	.00981	.00024	-.00006	.00480
#2	-.00138	-.01020	-.00280	.01365	-.00042	.00006	.00399
#3	-.00138	-.00836	-.01433	.01172	-.00014	.00006	.00515
#4	-.00000	.00214	.03548	.01173	.00005	-.00006	.00567
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	.00239	-.00099	.00127	.00000	.01690	.01175	-.00030
SDev	.00157	.00282	.00168	.00000	.00185	.16818	.00110
%RSD	65.875	285.58	132.02	300.29	10.946	1431.6	360.37
#1	.00175	-.00099	.00165	.00000	.01835	-.07988	.00116
#2	.00252	-.00229	.00114	-.00000	.01449	-.02349	-.00134
#3	.00449	.00292	.00317	.00000	.01835	.25844	-.00012
#4	.00078	-.00359	-.00089	-.00000	.01642	-.10808	-.00091
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	-.00067	.00024	.00364	.00418	-.00171	.01671	-.00781
SDev	.01040	.00055	.00000	.00655	.00292	.02222	.02136
%RSD	1544.9	225.08	.00657	156.95	170.58	132.96	273.65
#1	-.00674	.00072	.00364	.01148	-.00074	.04833	-.01037
#2	-.01212	-.00023	.00364	-.00438	.00062	-.00375	.02066
#3	.00943	-.00023	.00364	.00397	-.00074	.01123	-.01036
#4	.00674	.00071	.00364	.00564	-.00598	.01102	-.03116
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	-.04225	.06030	-.00716	-.00005	-.00008	.04016	-.00110
SDev	.02801	.00775	.01187	.00012	.00047	.03392	.00000
%RSD	66.304	12.859	165.78	237.19	600.00	84.454	.34946
#1	-.04224	.06578	-.01430	.00009	.00047	.08625	-.00110
#2	-.05799	.04933	.00824	-.00014	-.00047	.04020	-.00110

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#3	-.00290	.06578	-.01838	-.00000	-.00047	.02858	-.00110
#4	-.06586	.06030	-.00420	-.00014	.00016	.00562	-.00111
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	.00073
SDev	.00082
%RSD	112.95
#1	.00143
#2	-.00010
#3	.00143
#4	.00015
Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DM85GC Operator: RJG
Run Time: 10/18/00 11:50:43
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04770	1.9699	1.9542	.98213	1.9592	.04868	L.06107
SDev	.00112	.0098	.0595	.00278	.0114	.00020	.00285
%RSD	2.3372	.49977	3.0450	.28310	.58179	.41661	4.6741
#1	.04632	1.9553	1.9265	.98280	1.9512	.04847	L.05996
#2	.04905	1.9748	2.0300	.98280	1.9528	.04860	L.06181
#3	.04770	1.9765	1.9685	.98474	1.9568	.04872	L.06461
#4	.04772	1.9729	1.8917	.97819	1.9759	.04895	L.05789
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	.04972	.49399	.19892	.25273	1.0539	L-.00940	.96155
SDev	.00339	.00186	.00121	.00000	.0040	.27351	.00909
%RSD	6.8156	.37554	.60691	.00086	.37781	2910.3	.94524
#1	.05440	.49136	.19714	.25272	1.0486	L-.12687	.95984
#2	.04755	.49530	.19968	.25273	1.0531	L-.24904	.95579
#3	.04693	.49530	.19917	.25273	1.0569	L.38061	.95570
#4	.04998	.49398	.19967	.25273	1.0569	L-.04229	.97487
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-.00404	.49139	.00377	L.00658	.50100	.50080	L-.01913
SDev	.01143	.00134	.00000	.00267	.01331	.01865	.02475
%RSD	282.84	.27209	.01364	40.614	2.6560	3.7234	129.38
#1	L-.01212	.48950	.00377	L.00689	.50726	.47653	L-.03466
#2	L-.01212	.49233	.00377	L.01023	.51213	.50646	L.01729
#3	L.01212	.49233	.00377	L.00480	.50273	.49894	L-.03468
#4	L-.00404	.49139	.00377	L.00438	.48189	.52126	L-.02448
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	1.8741	.07561	.00163	.97356	.00008	1.9811	.48791
SDev	.0423	.00819	.02193	.00517	.00039	.0713	.00376
%RSD	2.2574	10.830	1343.0	.53133	503.32	3.5987	.77130
#1	1.8377	.07150	.02449	.97032	.00016	2.0647	.48790
#2	1.9046	.08789	-.02623	.97032	.00047	1.8918	.48330

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#3	1.8378	.07150	.01227	.97241	.00016	1.9955	.48791
#4	1.9165	.07155	-.00399	.98118	-.00047	1.9724	.49252
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	.48964
SDev	.00234
%RSD	.47795
#1	.49314
#2	.48867
#3	.48819
#4	.48858
Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DM7K2 Operator: RJG
Run Time: 10/18/00 11:53:51
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00241	.00302	.02490	.01831	.00005	.00003	35.500
SDev	.00235	.00959	.03241	.00000	.00000	.00006	.084
%RSD	97.511	317.73	130.18	.00941	.00000	186.13	.23597
#1	-.00000	.01271	.06607	.01831	.00005	.00006	35.506
#2	-.00275	.00389	-.00293	.01831	.00005	-.00006	35.483
#3	-.00138	.00565	.03543	.01831	.00005	.00006	35.606
#4	-.00550	-.01018	.00102	.01831	.00005	.00006	35.403
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	.00179	-.00098	-.00063	.01335	.03830	3.9212	.00322
SDev	.00243	.00001	.00121	.00044	.00091	.3018	.00051
%RSD	135.32	.74711	191.11	3.2775	2.3786	7.6976	15.738
#1	-.00045	-.00097	.00064	.01401	.03766	4.3465	.00384
#2	.00343	-.00098	-.00139	.01313	.03766	3.6511	.00280
#3	.00430	-.00099	.00013	.01314	.03959	3.9048	.00341
#4	-.00011	-.00097	-.00190	.01313	.03830	3.7826	.00280
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	7.4261	.03592	.00728	19.145	-.00315	-.00188	.01292
SDev	.0373	.00047	.00243	.143	.00339	.00375	.03524
%RSD	.50181	1.3154	33.311	.74509	107.76	199.52	272.85
#1	7.4072	.03663	.00849	18.956	.00158	-.00370	.04139
#2	7.4530	.03568	.00849	19.253	-.00583	-.00376	-.00009
#3	7.4611	.03568	.00849	19.258	-.00536	.00374	.04142
#4	7.3830	.03568	.00364	19.114	-.00298	-.00379	-.03106
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	-.02448	4.1136	-.01317	.34537	-.00266	.04595	-.00106
SDev	.04364	.0052	.01718	.00191	.00036	.05024	.00003
%RSD	178.30	.12761	130.44	.55333	13.585	109.32	3.2140
#1	-.03431	4.1177	.00426	.34273	-.00235	.08630	-.00104
#2	-.08153	4.1123	-.00202	.34638	-.00297	.02867	-.00104

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#3	.01684	4.1177	-.03241	.34709	-.00235	.08628	-.00104
#4	.00110	4.1068	-.02252	.34529	-.00297	-.01744	-.00111
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	.01923
SDev	.00169
%RSD	8.8130
#1	.01902
#2	.01851
#3	.02164
#4	.01774
Errors	LC Pass
High	100.00
Low	-.02000

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Method: QUANMET Sample Name: DM7K2P5 Operator: RJG
Run Time: 10/18/00 11:56:59
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00104	-.00846	.01734	.01060	-.00037	-.00006	7.2431
SDev	.00206	.00803	.02489	.00164	.00010	.00000	.0356
%RSD	199.17	94.980	143.49	15.452	25.926	.18035	.49113
#1	-.00275	-.01729	.00494	.00978	-.00042	-.00006	7.2024
#2	.00137	.00214	.05467	.01306	-.00023	-.00006	7.2841
#3	-.00000	-.00840	.00487	.00978	-.00042	-.00006	7.2582
#4	-.00275	-.01030	.00489	.00979	-.00042	-.00006	7.2278

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00188	-.00066	-.00025	.00000	.00692	.56857	.00006
SDev	.00110	.00125	.00221	.00000	.00169	.26370	.00108
%RSD	58.753	189.81	877.60	885.92	24.499	46.379	1764.4
#1	.00244	-.00098	.00064	-.00000	.00547	.71893	.00073
#2	.00241	.00032	.00165	.00000	.00934	.75653	.00073
#3	.00245	.00032	.00013	.00000	.00611	.61556	.00030
#4	.00022	-.00228	-.00342	-.00000	.00676	.18326	-.00152

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4831	.00804	.00849	3.8262	-.00253	-.00372	.01031
SDev	.0122	.00047	.00396	.0311	.00631	.01219	.02074
%RSD	.82581	5.8941	46.652	.81333	249.66	327.63	201.22
#1	1.4831	.00827	.00849	3.8387	-.00449	-.01862	-.00007
#2	1.4992	.00827	.00849	3.8329	-.00097	.01123	.04142
#3	1.4696	.00733	.00364	3.7811	.00520	-.00371	.00004
#4	1.4804	.00827	.01334	3.8521	-.00985	-.00378	-.00016

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05211	.84986	-.00708	.06937	-.00086	-.03170	-.00104
SDev	.05858	.03197	.01053	.00014	.00053	.03568	.00005
%RSD	112.41	3.7620	148.59	.20514	62.103	112.56	4.7144
#1	.03248	.81696	-.01222	.06940	-.00141	-.05185	-.00104
#2	-.05801	.87727	-.01816	.06917	-.00016	-.02885	-.00104
#3	-.08950	.82793	-.00407	.06940	-.00109	-.06340	-.00110
#4	-.09343	.87727	.00612	.06950	-.00078	.01730	-.00098

Elem	ZN
Units	ppm
Avge	.00545
SDev	.00199
%RSD	36.520
#1	.00297
#2	.00663
#3	.00477

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#4 .00742

Method: QUANMET Sample Name: DM7K2S Operator: RJG
Run Time: 10/18/00 12:00:07
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04695	1.9460	1.9632	.99210	1.9098	.04828	35.414
SDev	.00178	.0088	.0563	.00901	.0152	.00018	.226
%RSD	3.7809	.45007	2.8676	.90789	.79400	.37779	.63817
#1	.04763	1.9393	1.9076	.98146	1.8929	.04813	35.313
#2	.04488	1.9376	2.0343	.98801	1.9297	.04850	35.145
#3	.04627	1.9535	1.9305	1.0011	1.9099	.04837	35.636
#4	.04901	1.9537	1.9804	.99782	1.9068	.04813	35.561
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	.04812	.47933	.19398	.25118	1.0418	3.9565	.94998
SDev	.00239	.00694	.00168	.00131	.0032	.3980	.01307
%RSD	4.9607	1.4473	.86418	.52129	.30506	10.060	1.3757
#1	.05103	.47574	.19512	.25008	1.0402	4.1679	.94076
#2	.04518	.47183	.19157	.25270	1.0383	3.3597	.96935
#3	.04821	.48227	.19410	.25184	1.0434	4.1585	.94439
#4	.04806	.48749	.19512	.25009	1.0454	4.1397	.94542
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	7.3877	.51477	.00620	18.965	.48301	.50048	.01430
SDev	.0314	.00249	.00626	.200	.00755	.01099	.02294
%RSD	.42566	.48295	101.04	1.0550	1.5629	2.1968	160.40
#1	7.3452	.51312	.01347	18.779	.47324	.50596	.00636
#2	7.4153	.51217	-.00108	19.249	.49032	.50586	.00668
#3	7.4072	.51690	.00862	18.914	.48732	.50611	-.00376
#4	7.3830	.51690	.00377	18.917	.48116	.48399	.04794
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	1.8623	4.1069	-.00332	1.2940	-.00188	1.9470	.47554
SDev	.0667	.0287	.01623	.0089	.00097	.0801	.00220
%RSD	3.5790	.69843	489.42	.69104	51.819	4.1130	.46270
#1	1.8928	4.1014	.00021	1.2831	-.00109	2.0306	.47420
#2	1.7826	4.0685	-.02219	1.3049	-.00328	1.9039	.47400

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#3	1.9361	4.1288	-.00798	1.2951	-.00172	1.9960	.47874
#4	1.8377	4.1288	.01669	1.2928	-.00141	1.8576	.47522
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	.48340
SDev	.00152
%RSD	.31498
#1	.48303
#2	.48350
#3	.48170
#4	.48538
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DM7K2D Operator: RJG
Run Time: 10/18/00 12:03:14
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04702	1.9892	2.0374	1.0184	1.9755	.04984	36.020
SDev	.00136	.0031	.0672	.0199	.0078	.00026	.124
%RSD	2.9035	.15484	3.3005	1.9529	.39363	.53060	.34394
#1	.04770	1.9905	2.0336	1.0012	1.9734	.04969	35.889
#2	.04770	1.9924	1.9837	1.0012	1.9654	.04957	35.980
#3	.04772	1.9851	1.9990	1.0372	1.9804	.04993	36.025
#4	.04497	1.9887	2.1333	1.0339	1.9827	.05017	36.185
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	.04977	.49039	.19968	.25273	1.0928	3.8273	.98353
SDev	.00227	.00222	.00171	.00000	.0039	.1715	.00638
%RSD	4.5566	.45334	.85469	.00091	.35471	4.4803	.64863
#1	.04746	.48746	.19917	.25272	1.0917	3.5947	.98481
#2	.05244	.49137	.19866	.25273	1.0878	3.8014	.97426
#3	.04837	.49007	.19866	.25273	1.0956	3.9518	.98636
#4	.05078	.49267	.20221	.25273	1.0962	3.9612	.98868
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	7.5426	.52943	.00620	19.395	.50323	.48950	-.02948
SDev	.0278	.00142	.00485	.080	.01022	.04184	.01030
%RSD	.36817	.26808	78.185	.41288	2.0308	8.5480	34.938
#1	7.5365	.52825	.00863	19.423	.51172	.49872	-.03460
#2	7.5069	.52825	-.00107	19.278	.49050	.46908	-.01403
#3	7.5554	.53014	.00863	19.419	.49942	.44669	-.03473
#4	7.5715	.53109	.00863	19.459	.51127	.54352	-.03457
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	1.8998	4.1907	-.00298	1.3335	-.00235	1.9723	.49053
SDev	.0336	.0301	.01085	.0051	.00026	.0572	.00307
%RSD	1.7681	.71878	364.13	.38506	10.887	2.9026	.62582
#1	1.8851	4.2167	-.00402	1.3313	-.00203	1.9378	.48797
#2	1.9441	4.2167	-.00190	1.3276	-.00235	1.9954	.48784

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#3	1.8654	4.1619	.01024	1.3358	-.00266	2.0414	.49258
#4	1.9048	4.1674	-.01624	1.3393	-.00235	1.9146	.49374
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	.49354
SDev	.00461
%RSD	.93337
#1	.49182
#2	.48876
#3	.49968
#4	.49391
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DM7K6 Operator: RJG
Run Time: 10/18/00 12:06:22
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00137	.00217	-.00199	.01602	.00080	.00012	34.049
SDev	.00406	.01375	.04062	.00310	.00033	.00007	.262
%RSD	296.66	632.84	2040.4	19.331	41.986	60.179	.76907
#1	-.00412	-.00484	-.02590	.01833	.00098	.00006	33.843
#2	-.00550	-.01376	-.01432	.01564	.00051	.00019	33.803
#3	.00277	.01449	-.02612	.01179	.00117	.00005	34.292
#4	.00138	.01280	.05838	.01834	.00051	.00019	34.259
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	.00058	.00033	.00216	.00001	.05134	4.1609	.00395
SDev	.00153	.00151	.00194	.00000	.00213	.2400	.00049
%RSD	265.02	461.03	90.030	27.118	4.1467	5.7683	12.443
#1	.00149	-.00098	.00063	.00000	.04989	3.8390	.00402
#2	.00227	-.00098	.00064	.00000	.04989	4.1397	.00323
#3	-.00070	.00164	.00469	.00001	.05118	4.2619	.00427
#4	-.00074	.00164	.00266	.00001	.05440	4.4029	.00427
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	7.1883	.02482	.00364	21.493	.00432	.00746	.01036
SDev	.0034	.00055	.00396	.148	.00422	.00958	.01465
%RSD	.04716	2.1990	108.67	.69026	97.695	128.55	141.46
#1	7.1836	.02435	-.00121	21.453	.00343	.00373	.03107
#2	7.1890	.02435	.00849	21.701	.00105	.01858	-.00002
#3	7.1890	.02529	.00364	21.469	.01049	-.00368	.01039
#4	7.1917	.02529	.00364	21.350	.00233	.01119	-.00001
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	-.08247	4.0670	.00464	.34289	-.00219	.02841	.00005
SDev	.01800	.0365	.01209	.00129	.00074	.01632	.00231
%RSD	21.823	.89722	260.35	.37568	34.007	57.427	4354.2
#1	-.06969	4.0355	.01645	.34212	-.00266	.03997	-.00117
#2	-.10904	4.0355	-.01017	.34472	-.00297	.02844	-.00104

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#3	-.07755	4.1014	.01228	.34283	-.00141	.03991	.00352
#4	-.07361	4.0958	.00002	.34188	-.00172	.00533	-.00110
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	.00147
SDev	.00144
%RSD	97.713
#1	.00011
#2	.00272
#3	.00271
#4	.00035
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DM7K7 Operator: RJG
Run Time: 10/18/00 12:09:29
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00075	.22244	.00797	.02949	2.0233	.00037	46.588
SDev	.00233	.00754	.05548	.00272	.0239	.00007	.151
%RSD	311.83	3.3897	696.14	9.2271	1.1820	18.909	.32383
#1	-.00038	.23169	.05095	.02921	2.0286	.00043	46.564
#2	-.00327	.21935	-.05171	.02580	2.0102	.00031	46.385
#3	.00226	.22466	.05925	.03204	2.0000	.00043	46.681
#4	-.00160	.21404	-.02662	.03092	2.0545	.00031	46.721
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	.00455	.01311	.02269	.00568	125.05	4.3935	.00511
SDev	.00364	.00130	.00158	.00105	.75	.6166	.00073
%RSD	80.084	9.9480	6.9469	18.438	.60038	14.035	14.341
#1	-.00050	.01247	.02345	.00548	125.16	4.1022	.00561
#2	.00515	.01246	.02092	.00539	124.37	4.2901	.00549
#3	.00821	.01507	.02447	.00717	124.62	5.2863	.00402
#4	.00534	.01244	.02193	.00470	126.06	3.8954	.00530
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	7.5547	61.899	.01010	18.368	.01769	.01919	.00258
SDev	.0531	.295	.00010	.233	.00871	.01666	.02720
%RSD	.70265	.47589	.96069	1.2681	49.236	86.799	1053.7
#1	7.5877	61.930	.01011	18.428	.03062	.02470	-.02058
#2	7.5069	61.598	.01001	18.219	.01195	.02487	-.01044
#3	7.5123	61.779	.01004	18.155	.01319	.03240	.04139
#4	7.6120	62.292	.01023	18.671	.01501	-.00521	-.00003
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	-.10903	8.3328	-.00553	.71810	-.00141	-.02035	-.00125
SDev	.07757	.0697	.00851	.00789	.00044	.15860	.00058
%RSD	71.149	.83649	153.90	1.0990	31.427	779.39	46.187
#1	-.11855	8.3342	-.01478	.72019	-.00141	-.02995	-.00096
#2	.00104	8.2519	.00550	.71347	-.00172	-.23095	-.00212

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#3	-.17921	8.3232	-.00851	.71048	-.00078	.14792	-.00096
#4	-.13940	8.4219	-.00435	.72825	-.00172	.03158	-.00097
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	.13479
SDev	.00143
%RSD	1.0576
#1	.13497
#2	.13670
#3	.13408
#4	.13341
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DM7LA Operator: RJG
Run Time: 10/18/00 12:12:37
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00322	.02027	.01666	.01479	.08613	-.00003	35.448
SDev	.00178	.00895	.01546	.00190	.00059	.00006	.265
%RSD	55.438	44.148	92.796	12.846	.68969	183.68	.74764
#1	-.00528	.01272	.00714	.01499	.08685	-.00006	35.150
#2	-.00253	.01278	.00330	.01498	.08638	-.00006	35.425
#3	-.00391	.02516	.03774	.01691	.08564	-.00006	35.421
#4	-.00114	.03042	.01844	.01229	.08564	.00005	35.795
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	.00042	-.00167	.00076	.00015	1.3357	3.8202	.00354
SDev	.00147	.00406	.00162	.00000	.0019	.4096	.00030
%RSD	351.73	243.45	213.25	2.7706	.14199	10.723	8.5919
#1	.00205	-.00755	-.00038	.00014	1.3332	3.6605	.00323
#2	-.00007	.00029	.00013	.00015	1.3357	3.7920	.00384
#3	-.00137	-.00101	.00013	.00015	1.3364	3.4349	.00375
#4	.00106	.00159	.00317	.00015	1.3377	4.3935	.00332
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	7.4981	.55576	.00017	18.716	-.00050	.00896	-.02073
SDev	.0356	.00134	.00243	.195	.00375	.01279	.02393
%RSD	.47428	.24059	1404.5	1.0443	741.72	142.73	115.43
#1	7.5446	.55387	-.00104	18.924	-.00592	-.00424	-.04151
#2	7.5069	.55670	.00381	18.783	.00201	.01091	-.00003
#3	7.4746	.55576	-.00104	18.699	.00201	.00342	.00001
#4	7.4665	.55670	-.00104	18.458	-.00012	.02576	-.04140
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	-.06185	4.2535	-.00188	.38101	-.00235	.02069	.00000
SDev	.03895	.0291	.01286	.00220	.00044	.06196	.00230
%RSD	62.982	.68525	683.61	.57868	18.856	299.48	57093.
#1	-.06186	4.2658	-.00400	.38315	-.00266	.02941	-.00117
#2	-.11300	4.2768	.01247	.38172	-.00235	-.06287	-.00110

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#3	-.05398	4.2110	.00228	.38125	-.00266	.02933	-.00117
#4	-.01856	4.2604	-.01827	.37794	-.00172	.08689	.00345
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	.00514
SDev	.00093
%RSD	18.051
#1	.00469
#2	.00466
#3	.00466
#4	.00653
Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-2 Operator: RJG
Run Time: 10/18/00 12:15:44
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99399	50.034	5.0440	4.9401	4.8506	4.8749	50.917
SDev	.00178	.147	.0858	.0265	.0241	.0145	.169
%RSD	.17949	.29394	1.7013	.53634	.49648	.29830	.33133
#1	.99437	49.989	5.0817	4.9430	4.8315	4.8733	51.136
#2	.99573	50.069	5.1195	4.9715	4.8493	4.8803	50.880
#3	.99437	50.215	5.0530	4.9392	4.8849	4.8903	50.727
#4	.99150	49.864	4.9219	4.9067	4.8366	4.8558	50.924
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
Avge	5.0688	4.9179	4.9135	4.8632	51.480	49.522	4.8737
SDev	.0175	.0114	.0042	.0199	.070	.424	.0458
%RSD	.34511	.23268	.08450	.40917	.13554	.85614	.93957
#1	5.0777	4.9325	4.9168	4.8448	51.541	49.118	4.8270
#2	5.0863	4.9116	4.9168	4.8737	51.518	49.738	4.8906
#3	5.0460	4.9208	4.9081	4.8859	51.477	49.221	4.9297
#4	5.0654	4.9065	4.9122	4.8483	51.383	50.011	4.8475
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
Avge	50.210	4.8971	4.9982	49.498	4.9479	5.0136	5.1147
SDev	.192	.0065	.0063	.313	.0290	.0156	.0189
%RSD	.38260	.13252	.12516	.63227	.58516	.31075	.36875
#1	50.142	4.9045	4.9957	49.213	4.9751	5.0177	5.1046
#2	50.258	4.9007	5.0006	49.603	4.9464	5.0096	5.0940
#3	50.447	4.8921	4.9909	49.892	4.9081	5.0321	5.1246
#4	49.992	4.8912	5.0054	49.283	4.9618	4.9948	5.1356
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
Avge	4.9390	4.9878	5.0794	4.8411	4.9651	9.8091	4.8977
SDev	.0523	.0052	.0481	.0194	.0089	.2303	.0106
%RSD	1.0599	.10355	.94713	.40009	.17824	2.3483	.21624
#1	4.8792	4.9865	5.0972	4.8259	4.9635	9.7420	4.9017
#2	5.0011	4.9920	5.0605	4.8419	4.9676	9.5119	4.9006

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#3	4.9577	4.9811	5.1360	4.8682	4.9754	9.9963	4.9062
#4	4.9180	4.9918	5.0240	4.8284	4.9541	9.9861	4.8822
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	4.9640
SDev	.0131
%RSD	.26367
#1	4.9762
#2	4.9741
#3	4.9502
#4	4.9554
Errors	LC Pass
High	5.5000
Low	4.5000

Analysis Report 10/18/00 12:21:56 PM page 1

Method: QUANMET Sample Name: CCB2 Operator: RJG
Run Time: 10/18/00 12:18:51
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00207	-.00714	.02118	.01651	-.00012	.00028	.00022
SDev	.00238	.00972	.02130	.00839	.00031	.00006	.00357
%RSD	115.23	136.11	100.60	50.837	269.65	22.029	1656.9
#1	-.00275	-.01549	.00110	.01169	-.00042	.00019	-.00114
#2	.00137	.00569	.02012	.01362	.00032	.00031	.00343
#3	-.00275	-.01379	.01259	.01169	-.00023	.00031	-.00420
#4	-.00413	-.00497	.05090	.02902	-.00014	.00031	.00278
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	.00064	.00098	.00114	.00000	.00097	.15741	.00038
SDev	.00263	.00076	.00176	.00000	.00091	.36530	.00083
%RSD	411.69	77.530	153.59	74.051	94.430	232.06	218.36
#1	-.00101	.00164	-.00038	.00000	.00032	-.20205	.00082
#2	-.00032	.00163	.00266	.00000	.00226	.41820	.00125
#3	.00456	.00031	-.00038	.00000	.00032	-.10808	-.00064
#4	-.00067	.00033	.00267	.00000	.00096	.52158	.00009
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	.00741	.00000	.01091	-.00543	-.00380	.00188	-.00530
SDev	.00597	.00047	.00280	.00404	.00379	.03716	.01791
%RSD	80.631	11664.	25.659	74.447	99.747	1972.0	338.07
#1	.00404	-.00023	.00849	-.00939	.00053	-.02604	-.03116
#2	.00943	.00071	.00849	.00021	-.00258	.05586	-.00015
#3	.00135	-.00023	.01334	-.00605	-.00462	-.01859	-.00007
#4	.01482	-.00023	.01334	-.00647	-.00851	-.00369	.01018
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	-.03738	.05208	.00609	.00036	-.00000	-.00289	-.00101
SDev	.01035	.00317	.01780	.00005	.00054	.05013	.00004
%RSD	27.688	6.0787	292.32	13.726	438e6	1732.3	3.6955
#1	-.04623	.04934	.01821	.00043	-.00016	.04033	-.00104
#2	-.03049	.05482	.02241	.00033	.00078	-.05189	-.00103

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#3	-.02656	.05482	-.01630	.00033	-.00016	-.04034	-.00098
#4	-.04623	.04934	.00004	.00033	-.00047	.04033	-.00097
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	.00129
SDev	.00044
%RSD	34.218
#1	.00089
#2	.00167
#3	.00167
#4	.00092
Errors	LC Pass
High	.02000
Low	-.02000

COJ140161 – 6010B 673 1738

Analysis Report Averages 10/18/00 02:03:25 PM page 3

Michael Wierbicki 10-18-00

#	Sample Name	AG	AS	CD	CR	PB	SB
1	STD1	.00058	-.00786	.00213	.00337		
2	STD6	8.88101	5.20508	12.1492			
3	STD7				10.0029		
4	ICV3-1 0057-101-14	.51065	.25788	.25155	1.0255	.25312	.25674
5	ICB1	.00030	-.00011	.00001	.00025	-.00103	-.00035
6	ICSA 0057-078-10	-.00035	.00240	-.00040	.00107	-.00068	.00425
7	ICSAB 0057-102-1	1.1242	1.0570	.95964	.52137	1.0085	1.0774
8	DM6HAB	-.00046	-.00012	-.00001	.00057	-.00043	.00031
9	DM6HAC	.04974	1.9777	.04669	.20122	.48208	.48702
10	DLA68	.00007	.00005	.00026	.00120	.00074	.00016
11	DLA68P5	-.00011	-.00006	.00000	-.00019	-.00022	.00058
12	DLA68S	.05041	1.9921	.04709	.19893	.48566	.48889
13	DLA68D	.05256	2.0944	.04934	.20856	.50799	.51113
14	DM6G7B	-.00007	.00201	.00008	.00049	.00030	.00029
15	DM6G7C	.05292	2.1395	.04973	.20649	.51132	.52152
16	CCV3-1 0057-111-1	1.0234	.51243	.49394	2.0311	.50518	.50979
17	CCB1	-.00033	-.00033	.00000	-.00014	.00003	-.00090
18	DL4J7	.00064	.03005	.00024	.20841	.04858	.00568
19	DL4J9	.00011	.03719	-.00052	.12566	.04358	.00378
20	DL4JA	.00032	.08380	.00081	.30249	.09102	.00409
21	DL4JC	-.00036	.03292	.00020	.08711	.16779	.00525
22	DL4JCP5	-.00077	.00600	-.00008	.01701	.03345	-.00038
23	DL4JCS	.04548	1.7631	.04173	.25175	.49697	.29581
24	DL4JCS/2 MN	.02420	.96927	.02298	.13739	.27396	.16134
25	DL4JCD	.04797	1.9019	.04433	.28935	.54839	.25691
26	DL4JF	-.00004	.03762	-.00019	.13955	.05485	.00426
27	DL4JH	-.00013	.03108	-.00055	.11525	.05363	.00378
28	CCV3-2	1.0233	.51323	.49474	2.0387	.50280	.50808
29	CCB2	.00001	.00005	.00014	.00030	.00080	-.00020
30	DL4JL	.00139	.04042	.00535	.09232	.17346	.00412
31	DL4JP	-.00075	.03825	.00253	.09058	.15740	.00538
32	DL4JT	.00484	.06195	.02084	.15333	.24178	.01145
33	DL4JT/25 MN	-.00010	.00221	.00084	.00599	.01046	.00112
34	DL4JX	-.00074	.03879	.00661	.13485	.11941	.00483
35	DL4K1	.00069	.04555	.00495	.15483	.20309	.00347
36	DL4K4	-.00037	.02987	.03646	.12905	.15961	.00446
37	DL4K8	.00020	.03036	-.00010	.09351	.02700	.00627
38	DL4K8/2 MN	.00013	.01498	-.00023	.04802	.01498	.00220
39	DL4KC	.00043	.03008	.00027	.12530	.04201	.00288
40	CCV3-3	1.0207	.51187	.49125	2.0300	.50486	.51084
41	CCB3	.00009	-.00022	.00031	.00081	-.00067	-.00109
42	DL4KE	-.00023	.03338	.00069	.13201	.04584	.00510
43	DL4KG	-.00014	.02792	.00019	.13455	.04331	.00425
44	DLA6E	.00121	.04829	.16289	.50928	3.8207	.03752
45	CCV3-4	1.0095	.50831	.48547	2.0079	.50046	.50415
46	CCB4	.00011	.00021	.00003	.00042	-.00041	-.00063
47	DM84TB	-.00002	-.00084	.00014	.00093	.00031	.00059
48	DM84TC	.05177	2.0505	.04917	.20778	.50258	.49975
49	DM650	.00081	.08194	.00139	.16873	.33445	.01133
50	DM650P5	-.00016	.01847	.00043	.03748	.07390	.00282
51	DM650S	.04621	1.8310	.04110	.32758	.67624	.38941
52	DM650D	.05045	1.9892	.04558	.36022	.76112	.43630
53	DM650P5 RERUN	-.00052	.02015	-.00003	.03813	.07708	.00372

VOID. NOT REPORTED UNNECESSARY RERUN
MTW 10-18-00

#	Sample Name	AG	AS	CD	CR	PB	SB
54	CCV3-5	1.0111	.50427	.48353	2.0080	.49872	.50825
55	CCB5	.00057	.00169	.00025	.00106	.00038	.00096
56	DNAR0B	-.00012	-.00017	.00008	.00048	.00207	.00081
57	DNAR0C	.05024	2.0402	.04983	.20861	.50190	L.00054
58	DM4TQ	.00150	.13813	.00792	.81312	3.0473	.01344
59	DM4TV	.00202	.03215	.00411	.19819	2.3394	.00850
60	DM4TX	.00293	.01624	.00228	.13278	3.3311	.01455
61	DM4T0	.00198	.01103	.00321	.04615	1.2574	.00329
62	DM4T1	.00175	.01678	.00240	.56604	2.4134	.00453
63	DM4T4	.00024	.04393	.00267	.11927	.52055	.01138
64	DM4T4P5	-.00024	.00943	.00069	.02750	.11938	.00231
65	DM4T4S	.04418	1.7752	.04393	.30650	.90680	.00750
66	CCV3-6	1.0327	.51518	.49489	2.0553	.51213	.51748
67	CCB6	-.00042	.00024	.00009	.00012	.00172	-.00002
68	DM4T4D	.04385	1.7553	.04380	.31396	.98483	.00553
69	DM4T5	.00106	.05222	.00606	.26103	1.4806	.01468
70	DM4T6	.00956	.06563	.00962	.28543	3.3766	.01825
71	DM4T7	-.00003	.04853	.00423	.12842	.92718	.01047
72	DM4T8	.00010	.04807	.00657	.25545	1.1488	.01178
73	DM4VA	.00500	.22163	.01185	.45798	H39.388	.06567
74	DM4VD	.00331	.08719	.00964	.97610	H9.0379	.02685
75	DM4VG	.00442	.19091	.01242	2.5383	k66.693	.07251
76	DM4VJ	.00208	.17578	.01010	.47993	H25.377	.05974
77	DM4VL	.00303	.37801	.01382	.18931	k82.881	.15537
78	CCV3-7	1.0351	.52103	.49823	2.0627	.53714	.51998
79	CCB7	.00018	-.00062	.00030	.00047	H.00951	.00041
80	DM4VM	.00121	.10055	.00617	.51280	H8.9921	.01511
81	CCV3-8	1.0220	.51446	.49195	2.0314	.51056	.51492
82	CCB8	.00034	.00110	.00007	.00088	H.00415	.00047

#	Sample Name	SE	TL
1	STD1		-.03376
2	STD6		3.22091
3	STD7		
4	ICV3-1 0057-101-14	.26007	.52345
5	ICB1	.00065	.00526
6	ICSA 0057-078-10	-.00133	.00198
7	ICSAB 0057-102-1	1.0613	1.0995
8	DM6HAB	.00281	-.00165
9	DM6HAC	1.9702	2.0497
10	DLA68	.00201	-.00132
11	DLA68P5	.00114	.00338
12	DLA68S	1.9805	2.0718
13	DLA68D	2.0695	2.1847
14	DM6G7B	.00208	.00505
15	DM6G7C	2.2868	2.1821
16	CCV3-1 0057-111-1	.51979	1.0404
17	CCB1	.00420	.00377
18	DL4J7	.01051	.00377
19	DL4J9	.00189	.00519
20	DL4JA	.00628	.00745
21	DL4JC	.00524	.00085

#	Sample Name	SE	TL
22	DL4JCP5	.00064	.00377
23	DL4JCS	1.6818	1.7914
24	DL4JCS/2 MN	.93258	.97319
25	DL4JCD	1.8369	1.9416
26	DL4JF	.00223	.00850
27	DL4JH	-.00027	.00487
28	CCV3-2	.51369	1.0403
29	CCB2	.00264	.00416
30	DL4JL	.00259	-.00047
31	DL4JP	.00304	.00369
32	DL4JT	.00307	-.00798
33	DL4JT/25 MN	.00177	-.00315
34	DL4JX	-.00216	.00200
35	DL4K1	.00808	.00351
36	DL4K4	.00102	.00573
37	DL4K8	.00855	.00114
38	DL4K8/2 MN	.00469	.00039
39	DL4KC	-.00042	.00213
40	CCV3-3	.51808	1.0307
41	CCB3	.00314	-.00265
42	DL4KE	-.00100	.00286
43	DL4KG	.00205	.00176
44	DLA6E	.01661	.01978
45	CCV3-4	.51288	1.0186
46	CCB4	.00118	.00607
47	DM84TB	.00378	-.00651
48	DM84TC	2.0039	2.1132
49	DM650	.00237	.01115
50	DM650P5	.00217	.00424
51	DM650S	1.7129	1.8208
52	DM650D	1.8504	1.9749
53	DM650P5 RERUN	.00027	.00731
54	CCV3-5	.51501	1.0167
55	CCB5	.00140	.00203
56	DNAR0B	.00140	-.00411
57	DNAR0C	1.9694	2.0340
58	DM4TQ	.00614	.02219
59	DM4TV	.00405	.00406
60	DM4TX	.00332	.01102
61	DM4T0	.00334	.00392
62	DM4T1	.00309	.00268
63	DM4T4	.00196	.00195
64	DM4T4P5	.00140	.00247
65	DM4T4S	1.6723	1.7589
66	CCV3-6	.52846	1.0403
67	CCB6	.00163	.00499
68	DM4T4D	1.6213	1.7540
69	DM4T5	.00222	.01685
70	DM4T6	.00389	.01349
71	DM4T7	-.00120	.00977
72	DM4T8	.00138	.01237
73	DM4VA	.01009	.01829
74	DM4VD	-.00075	.01200
75	DM4VG	.00247	.01738

VOID: MN IS OVER-RANGE AND MN IEC's EXIST ON SE & TL. REPORT SE & TL FROM MN dilutions. MTW 10-18-00

VOID. NOT REPORTED UNNECESSARY RERUN MTW 10-18-00

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#	Sample Name	SE	TL
76	DM4VJ	.00058	.01128
77	DM4VL	.00466	.01750
78	CCV3-7	.52396	1.0566
79	CCB7	.00090	.00361
80	DM4VM	.00381	.01006
81	CCV3-8	.51812	1.0449
82	CCB8	-.00070	.00664

mtw 10-18-00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T01018A	METTRA	10/18/00	08:06		X	IR
2	STD6	T01018A	METTRA	10/18/00	08:10		X	IR
3	STD7	T01018A	METTRA	10/18/00	08:15		X	IR
4	ICV3-1 0057-101-14	T01018A	METTRA	10/18/00	08:18	MTW	S	CONC
5	ICB1	T01018A	METTRA	10/18/00	08:22	MTW	S	CONC
6	ICSA 0057-078-10	T01018A	METTRA	10/18/00	08:27	MTW	Q	CONC
7	ICSAB 0057-102-1	T01018A	METTRA	10/18/00	08:31	MTW	Q	CONC
8	DM6HAB	T01018A	METTRA	10/18/00	08:37	MTW	S	CONC
9	DM6HAC	T01018A	METTRA	10/18/00	08:41	MTW	S	CONC
10	DLA68	T01018A	METTRA	10/18/00	08:45	MTW	S	CONC
11	DLA68P5	T01018A	METTRA	10/18/00	08:50	MTW	S	CONC
12	DLA68S	T01018A	METTRA	10/18/00	08:54	MTW	S	CONC
13	DLA68D	T01018A	METTRA	10/18/00	08:58	MTW	S	CONC
14	DM6G7B	T01018A	METTRA	10/18/00	09:02	MTW	S	CONC
15	DM6G7C	T01018A	METTRA	10/18/00	09:06	MTW	S	CONC
16	CCV3-1 0057-111-1	T01018A	METTRA	10/18/00	09:10	MTW	S	CONC
17	CCB1	T01018A	METTRA	10/18/00	09:14	MTW	S	CONC
18	DL4J7	T01018A	METTRA	10/18/00	09:19	MTW	S	CONC
19	DL4J9	T01018A	METTRA	10/18/00	09:23	MTW	S	CONC
20	DL4JA	T01018A	METTRA	10/18/00	09:27	MTW	S	CONC
21	DL4JC	T01018A	METTRA	10/18/00	09:32	MTW	S	CONC
22	DL4JCP5	T01018A	METTRA	10/18/00	09:37	MTW	S	CONC
23	DL4JCS	T01018A	METTRA	10/18/00	09:41	MTW	S	CONC
24	DL4JCS/2 MN	T01018A	METTRA	10/18/00	09:45	MTW	S	CONC
25	DL4JCD	T01018A	METTRA	10/18/00	09:49	MTW	S	CONC
26	DL4JF	T01018A	METTRA	10/18/00	09:53	MTW	S	CONC
27	DL4JH	T01018A	METTRA	10/18/00	09:57	MTW	S	CONC
28	CCV3-2	T01018A	METTRA	10/18/00	10:02	MTW	S	CONC
29	CCB2	T01018A	METTRA	10/18/00	10:06	MTW	S	CONC
30	DL4JL	T01018A	METTRA	10/18/00	10:10	MTW	S	CONC
31	DL4JP	T01018A	METTRA	10/18/00	10:14	MTW	S	CONC
32	DL4JT	T01018A	METTRA	10/18/00	10:18	MTW	S	CONC
33	DL4JT/25 MN	T01018A	METTRA	10/18/00	10:22	MTW	S	CONC
34	DL4JX	T01018A	METTRA	10/18/00	10:27	MTW	S	CONC
35	DL4K1	T01018A	METTRA	10/18/00	10:31	MTW	S	CONC
36	DL4K4	T01018A	METTRA	10/18/00	10:35	MTW	S	CONC
37	DL4K8	T01018A	METTRA	10/18/00	10:39	MTW	S	CONC
38	DL4K8/2 MN	T01018A	METTRA	10/18/00	10:43	MTW	S	CONC
39	DL4KC	T01018A	METTRA	10/18/00	10:48	MTW	S	CONC
40	CCV3-3	T01018A	METTRA	10/18/00	10:52	MTW	S	CONC
41	CCB3	T01018A	METTRA	10/18/00	10:56	MTW	S	CONC
42	DL4KE	T01018A	METTRA	10/18/00	11:00	MTW	S	CONC
43	DL4KG	T01018A	METTRA	10/18/00	11:04	MTW	S	CONC
44	DLA6E	T01018A	METTRA	10/18/00	11:08	MTW	S	CONC
45	CCV3-4	T01018A	METTRA	10/18/00	11:12	MTW	S	CONC
46	CCB4	T01018A	METTRA	10/18/00	11:17	MTW	S	CONC
47	DM84TB	T01018A	METTRA	10/18/00	11:23	MTW	S	CONC
48	DM84TC	T01018A	METTRA	10/18/00	11:27	MTW	S	CONC
49	DM650	T01018A	METTRA	10/18/00	11:31	MTW	S	CONC
50	DM650P5	T01018A	METTRA	10/18/00	11:35	MTW	S	CONC
51	DM650S	T01018A	METTRA	10/18/00	11:40	MTW	S	CONC
52	DM650D	T01018A	METTRA	10/18/00	11:44	MTW	S	CONC
53	DM650P5 RERUN	T01018A	METTRA	10/18/00	11:49	MTW	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	CCV3-5	T01018A	METTRA	10/18/00	11:53	MTW	S	CONC
55	CCB5	T01018A	METTRA	10/18/00	11:57	MTW	S	CONC
56	DNAR0B	T01018A	METTRA	10/18/00	12:07	MTW	S	CONC
57	DNAR0C	T01018A	METTRA	10/18/00	12:12	MTW	S	CONC
58	DM4TQ	T01018A	METTRA	10/18/00	12:16	MTW	S	CONC
59	DM4TV	T01018A	METTRA	10/18/00	12:20	MTW	S	CONC
60	DM4TX	T01018A	METTRA	10/18/00	12:24	MTW	S	CONC
61	DM4T0	T01018A	METTRA	10/18/00	12:29	MTW	S	CONC
62	DM4T1	T01018A	METTRA	10/18/00	12:33	MTW	S	CONC
63	DM4T4	T01018A	METTRA	10/18/00	12:37	MTW	S	CONC
64	DM4T4P5	T01018A	METTRA	10/18/00	12:41	MTW	S	CONC
65	DM4T4S	T01018A	METTRA	10/18/00	12:45	MTW	S	CONC
66	CCV3-6	T01018A	METTRA	10/18/00	12:49	MTW	S	CONC
67	CCB6	T01018A	METTRA	10/18/00	12:54	MTW	S	CONC
68	DM4T4D	T01018A	METTRA	10/18/00	12:58	MTW	S	CONC
69	DM4T5	T01018A	METTRA	10/18/00	13:02	MTW	S	CONC
70	DM4T6	T01018A	METTRA	10/18/00	13:06	MTW	S	CONC
71	DM4T7	T01018A	METTRA	10/18/00	13:10	MTW	S	CONC
72	DM4T8	T01018A	METTRA	10/18/00	13:14	MTW	S	CONC
73	DM4VA	T01018A	METTRA	10/18/00	13:19	MTW	S	CONC
74	DM4VD	T01018A	METTRA	10/18/00	13:23	MTW	S	CONC
75	DM4VG	T01018A	METTRA	10/18/00	13:27	MTW	S	CONC
76	DM4VJ	T01018A	METTRA	10/18/00	13:31	MTW	S	CONC
77	DM4VL	T01018A	METTRA	10/18/00	13:36	MTW	S	CONC
78	CCV3-7	T01018A	METTRA	10/18/00	13:40	MTW	S	CONC
79	CCB7	T01018A	METTRA	10/18/00	13:44	MTW	S	CONC
80	DM4VM	T01018A	METTRA	10/18/00	13:48	MTW	S	CONC
81	CCV3-8	T01018A	METTRA	10/18/00	13:53	MTW	S	CONC
82	CCB8	T01018A	METTRA	10/18/00	13:57	MTW	S	CONC

Method: METTRA Standard: STD1
Run Time: 10/18/00 08:06:42

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	.00058	.10258	-.00787	.00060	-.03177	.00251	.00213
SDev	.00287	.00101	.00563	.00007	.00059	.00005	.00117
%RSD	492.29	.98736	71.583	11.990	1.8587	1.8042	54.631
#1	-.00145	.10330	-.01185	.00055	-.03135	.00248	.00131
#2	.00261	.10187	-.00389	.00065	-.03219	.00254	.00296

Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00069	.00337	.00232	-.00048	.00007	.00120	.00093
SDev	.00015	.00116	.00017	.00010	.00078	.00014	.00034
%RSD	21.343	34.509	7.2002	20.333	1139.8	11.990	36.541
#1	-.00079	.00255	.00221	-.00055	-.00048	.00110	.00069
#2	-.00058	.00420	.00244	-.00041	.00062	.00131	.00117

Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00065	.03238	.00121	-.00063	.01091	-.10854	.05639
SDev	.00024	.01295	.01222	.03403	.00325	.00020	.00085
%RSD	37.092	40.005	1007.5	5389.4	29.763	.18082	1.5145
#1	.00048	.02322	.00985	.02343	.00861	-.10840	.05699
#2	.00083	.04154	-.00743	-.02469	.01321	-.10867	.05578

Elem	TL	V	ZN
Avge	-.03377	.00014	-.00038
SDev	.00555	.00010	.00005
%RSD	16.447	70.810	12.989
#1	-.02984	.00021	-.00041
#2	-.03769	.00007	-.00034

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14525	--	--	--	--	--	--
SDev	19.33978	--	--	--	--	--	--
%RSD	.1331467	--	--	--	--	--	--
#1	14512	--	--	--	--	--	--
#2	14539	--	--	--	--	--	--

Method: METTRA Standard: STD6 0057-078-11
Run Time: 10/18/00 08:10:55

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	8.8810	5.2051	12.149	4.8194	6.5718	8.0005	4.4504
SDev	.0119	.0284	.007	.0089	.0733	.0329	.0157
%RSD	.13358	.54529	.05576	.18377	1.1149	.41162	.35264
#1	8.8726	5.1850	12.144	4.8132	6.5200	7.9772	4.4393
#2	8.8894	5.2252	12.154	4.8257	6.6236	8.0238	4.4615

Elem	SE/1	SE/2	TL
Avge	4.6281	3.4215	3.2209
SDev	.0282	.0205	.0137
%RSD	.60973	.60026	.42639
#1	4.6082	3.4070	3.2112
#2	4.6481	3.4361	3.2306

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14503	--	--	--	--	--	--
SDev	51.30115	--	--	--	--	--	--
%RSD	.3537321	--	--	--	--	--	--
#1	14539	--	--	--	--	--	--
#2	14467	--	--	--	--	--	--

Method: METTRA Standard: STD7 0057-078-12 673 1747
Run Time: 10/18/00 08:15:05

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	5.5713	11.699	10.150	4.4084	2.5491	10.003	2.7518
SDev	.0009	.037	.054	.0234	.0114	.044	.0078
%RSD	.01698	.31593	.53496	.53171	.44792	.44249	.28265
#1	5.5720	11.725	10.188	4.4250	2.5572	10.034	2.7573
#2	5.5706	11.673	10.111	4.3919	2.5411	9.9716	2.7463

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	3.1843	12.301	8.2138	2.2889	1.9460	.73800	2.2815
SDev	.0095	.045	.0385	.0055	.0114	.00351	.0103
%RSD	.29704	.36423	.46827	.23993	.58496	.47523	.44976
#1	3.1910	12.333	8.2410	2.2928	1.9540	.74048	2.2888
#2	3.1776	12.270	8.1866	2.2850	1.9379	.73552	2.2743

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14338	--	--	--	--	--	--
SDev	122.7541	--	--	--	--	--	--
%RSD	.8561276	--	--	--	--	--	--
#1	14252	--	--	--	--	--	--
#2	14425	--	--	--	--	--	--

Method: METTRA Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.225214	-.000131	10/18/00 08:15:05
AL	308.215	STD7	STD1	9.15754	-.939391	10/18/00 08:15:05
AS	189.042	STD6	STD1	.191830	.001510	10/18/00 08:15:05
BA	493.409	STD7	STD1	.341924	-.000206	10/18/00 08:15:05
BE	313.042	STD7	STD1	.389667	.012380	10/18/00 08:15:05
CA	317.933	STD7	STD1	22.6967	-.057033	10/18/00 08:15:05
CD	226.502	STD6	STD1	.082324	-.000176	10/18/00 08:15:05
CO	228.616	STD7	STD1	1.56874	.001080	10/18/00 08:15:05
CR	267.716	STD7	STD1	.399957	-.001349	10/18/00 08:15:05
CU	324.753	STD7	STD1	1.45481	-.003380	10/18/00 08:15:05
FE	271.441	STD7	STD1	15.8025	.007617	10/18/00 08:15:05
MG	279.078	STD7	STD1	8.12915	-.000555	10/18/00 08:15:05
MN	257.610	STD7	STD1	.487059	-.000587	10/18/00 08:15:05
MO	202.030	STD7	STD1	1.74825	-.001624	10/18/00 08:15:05
NI	231.604	STD7	STD1	2.05469	-.001344	10/18/00 08:15:05
PB/1	220.351	STD6	STD1	.208897	-.006765	10/18/00 08:15:05
PB/2	220.352	STD6	STD1	.152193	-.000185	10/18/00 08:15:05
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.124983	.000079	10/18/00 08:15:05
SB/2	206.832	STD6	STD1	.225249	-.002457	10/18/00 08:15:05
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.211118	.022914	10/18/00 08:15:05
SE/2	196.022	STD6	STD1	.297163	-.016756	10/18/00 08:15:05
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.614500	.020749	10/18/00 08:15:05
V	292.402	STD7	STD1	5.39791	-.000744	10/18/00 08:15:05
ZN	213.856	STD7	STD1	1.76484	.000668	10/18/00 08:15:05

Michael Wesolski 10-18-00

Method: METTRA Sample Name: ICV3-1 0057-101-14 Operator: MTW
Run Time: 10/18/00 08:18:45
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1749
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51066	12.056	.25789	1.0138	1.0098	25.222	.25156
SDev	.00132	.077	.00128	.0003	.0036	.044	.00117
%RSD	.25921	.64205	.49438	.02692	.35162	.17313	.46299
#1	.51159	12.002	.25879	1.0140	1.0123	25.252	.25238
#2	.50972	12.111	.25699	1.0136	1.0073	25.191	.25073
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
Avge	1.0274	1.0255	.98139	12.626	24.484	1.0056	1.0319
SDev	.0030	.0007	.00002	.001	.036	.0009	.0028
%RSD	.29015	.06610	.00177	.00457	.14859	.08898	.26897
#1	1.0295	1.0260	.98138	12.626	24.509	1.0062	1.0338
#2	1.0253	1.0250	.98141	12.627	24.458	1.0049	1.0299
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
Avge	1.0187	.25250	.25343	.25312	.25730	.25646	.25674
SDev	.0118	.00160	.00330	.00274	.00036	.00385	.00245
%RSD	1.1618	.63239	1.3035	1.0806	.13821	1.4996	.95301
#1	1.0270	.25362	.25577	.25505	.25704	.25918	.25847
#2	1.0103	.25137	.25110	.25119	.25755	.25374	.25501
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
Avge	.25672	.26175	.26008	.52345	1.0141	1.0479
SDev	.00072	.00520	.00371	.00594	.0021	.0071
%RSD	.28139	1.9865	1.4260	1.1351	.21123	.67475
#1	.25723	.26543	.26270	.52766	1.0156	1.0529
#2	.25620	.25808	.25745	.51925	1.0126	1.0429
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	14473	--	--	--	--	--	--
SDev	26.90527	--	--	--	--	--	--
%RSD	.1858982	--	--	--	--	--	--
#1	14454	--	--	--	--	--	--
#2	14492	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1 Operator: MTW
Run Time: 10/18/00 08:22:55
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	.00031	-.00669	-.00011	.00050	.00065	.15945	.00002
SDev	.00086	.00535	.00060	.00013	.00001	.00457	.00018
%RSD	279.95	79.892	523.65	26.242	.97910	2.8652	1173.7
#1	-.00030	-.00291	.00031	.00041	.00065	.15622	-.00011
#2	.00091	-.01047	-.00054	.00060	.00064	.16268	.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
Avge	.00060	.00026	.00058	.00703	.01025	.00054	.00248
SDev	.00068	.00058	.00028	.00235	.00432	.00019	.00008
%RSD	113.37	223.79	48.575	33.362	42.138	34.851	3.2407
#1	.00012	-.00015	.00038	.00869	.00719	.00041	.00254
#2	.00108	.00067	.00079	.00537	.01330	.00067	.00243
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	-.00015	-.00204	-.00053	-.00103	.00014	-.00061	-.00036
SDev	.00030	.00201	.00047	.00098	.00055	.00228	.00134
%RSD	194.98	98.424	88.985	95.211	390.64	376.82	375.00
#1	-.00036	-.00346	-.00086	-.00172	-.00025	.00101	.00059
#2	.00006	-.00062	-.00020	-.00034	.00053	-.00222	-.00130
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	-.00204	.00199	.00065	.00526	-.00001	.00524
SDev	.00063	.00162	.00129	.00040	.00052	.00043
%RSD	30.776	81.233	198.25	7.5779	9501.6	8.1707
#1	-.00248	.00085	-.00026	.00498	-.00037	.00493
#2	-.00160	.00314	.00156	.00554	.00036	.00554
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	14678	--	--	--	--	--	--
SDev	13.22303	--	--	--	--	--	--
%RSD	.0900853	--	--	--	--	--	--
#1	14688	--	--	--	--	--	--
#2	14669	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-078-10 Operator: MTW
Run Time: 10/18/00 08:27:04
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1753
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00036	532.24	.00240	.00169	-.00064	490.44	-.00041
SDev	.00025	1.59	.00206	.00002	.00023	1.20	.00021
%RSD	70.021	.29828	85.683	1.3552	35.605	.24462	51.359
#1	-.00018	531.12	.00386	.00168	-.00048	489.59	-.00056
#2	-.00054	533.36	.00095	.00171	-.00080	491.29	-.00026
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	-.00004	.00108	-.00194	206.41	534.16	.00791	-.00156
SDev	.00017	.00019	.00020	.80	1.66	.00009	.00065
%RSD	486.97	18.013	10.483	.38954	.31092	1.1696	41.445
#1	.00009	.00121	-.00208	205.84	532.98	.00797	-.00110
#2	-.00016	.00094	-.00179	206.98	535.33	.00784	-.00202
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	.00050	-.01980	.00885	-.00069	.00327	.00475	.00426
SDev	.00020	.00075	.00212	.00117	.00160	.00645	.00377
%RSD	40.742	3.7885	23.964	169.46	48.876	135.78	88.503
#1	.00065	-.01927	.00735	-.00151	.00214	.00931	.00692
#2	.00036	-.02033	.01035	.00014	.00441	.00019	.00159
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	-.00002	-.00199	-.00133	.00198	.01618	.00525
SDev	.00406	.00413	.00140	.00464	.00097	.00011
%RSD	23634.	207.47	105.24	234.11	6.0207	2.1225
#1	-.00289	.00093	-.00034	.00526	.01687	.00533
#2	.00285	-.00491	-.00233	-.00130	.01549	.00517
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	13362	--	--	--	--	--	--
SDev	97.82795	--	--	--	--	--	--
%RSD	.7321177	--	--	--	--	--	--
#1	13432	--	--	--	--	--	--
#2	13293	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0057-102-1 Operator: MTW
Run Time: 10/18/00 08:31:14
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1755
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1242	537.09	1.0570	.53827	.51422	496.41	.95965
SDev	.0050	1.36	.0029	.00312	.00223	1.90	.00305
%RSD	.44616	.25396	.27731	.58021	.43316	.38348	.31784
#1	1.1277	538.06	1.0549	.54048	.51580	497.76	.96180
#2	1.1206	536.13	1.0591	.53606	.51265	495.06	.95749
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
Avge	.50346	.52137	.55343	209.32	538.69	.52493	1.0295
SDev	.00027	.00129	.00128	.56	1.65	.00190	.0048
%RSD	.05394	.24753	.23136	.26914	.30620	.36188	.46352
#1	.50365	.52229	.55434	209.71	539.86	.52627	1.0329
#2	.50327	.52046	.55253	208.92	537.52	.52359	1.0261
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
Avge	1.0074	1.0044	1.0105	1.0085	1.0707	1.0807	1.0774
SDev	.0036	.0033	.0021	.0003	.0102	.0038	.0008
%RSD	.35851	.32634	.20403	.02813	.95483	.35589	.07788
#1	1.0100	1.0067	1.0090	1.0083	1.0635	1.0834	1.0768
#2	1.0049	1.0021	1.0120	1.0087	1.0779	1.0780	1.0780
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
Avge	1.0583	1.0628	1.0613	1.0995	.54002	1.0827
SDev	.0064	.0020	.0008	.0014	.00409	.0034
%RSD	.60492	.18437	.07771	.12837	.75799	.31283
#1	1.0628	1.0614	1.0619	1.1005	.54292	1.0851
#2	1.0538	1.0642	1.0607	1.0985	.53713	1.0803
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13192	--	--	--	--	--	--
SDev	20.47019	--	--	--	--	--	--
%RSD	.1551674	--	--	--	--	--	--
#1	13207	--	--	--	--	--	--
#2	13178	--	--	--	--	--	--

Method: METTRA Sample Name: DM6HAB Operator: MTW
Run Time: 10/18/00 08:37:40
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1757
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00046	.03018	-.00012	-.00006	.00021	.05694	-.00001
SDev	.00010	.00964	.00105	.00004	.00006	.01313	.00003
%RSD	21.303	31.945	872.73	70.845	29.452	23.051	216.77
#1	-.00053	.02336	.00062	-.00003	.00025	.04766	.00001
#2	-.00039	.03700	-.00086	-.00009	.00016	.06623	-.00003
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	-.00043	.00058	.00012	.06639	.03942	.00035	.00126
SDev	.00015	.00015	.00022	.00147	.01301	.00005	.00000
%RSD	35.804	26.624	175.81	2.2081	32.992	13.197	.24645
#1	-.00054	.00047	.00028	.06535	.03023	.00032	.00126
#2	-.00032	.00069	-.00003	.06742	.04862	.00038	.00126
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	-.00092	-.00112	-.00009	-.00043	.00063	.00016	.00032
SDev	.00120	.00002	.00041	.00027	.00166	.00108	.00017
%RSD	130.53	1.7363	472.14	62.551	263.21	661.88	52.479
#1	-.00007	-.00113	.00020	-.00024	.00181	-.00060	.00020
#2	-.00177	-.00110	-.00038	-.00062	-.00054	.00093	.00044
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	.00074	.00384	.00281	-.00165	-.00054	.00073
SDev	.00135	.00194	.00085	.00159	.00026	.00018
%RSD	181.42	50.577	30.152	96.346	49.101	24.499
#1	-.00021	.00522	.00341	-.00053	-.00072	.00060
#2	.00170	.00247	.00221	-.00278	-.00035	.00085
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	14536	--	--	--	--	--	--
SDev	15.66269	--	--	--	--	--	--
%RSD	.1077523	--	--	--	--	--	--
#1	14525	--	--	--	--	--	--
#2	14547	--	--	--	--	--	--

Method: METTRA Sample Name: DM6HAC Operator: MTW
Run Time: 10/18/00 08:41:49
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1759
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04975	1.9896	1.9777	1.9429	.04968	48.530	.04669
SDev	.00076	.0005	.0023	.0001	.00006	.055	.00007
%RSD	1.5207	.02644	.11842	.00622	.11697	.11376	.14495
#1	.05028	1.9893	1.9794	1.9428	.04972	48.569	.04674
#2	.04921	1.9900	1.9761	1.9430	.04964	48.491	.04665
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	.49026	.20123	.24077	.90804	47.211	.48313	.98551
SDev	.00043	.00058	.00070	.01023	.005	.00001	.00125
%RSD	.08730	.28697	.29022	1.1270	.01058	.00265	.12675
#1	.49057	.20163	.24028	.90081	47.214	.48314	.98463
#2	.48996	.20082	.24127	.91528	47.207	.48312	.98639
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	.48548	.48465	.48081	.48209	.47842	.49132	.48702
SDev	.00138	.00308	.00129	.00189	.00009	.00485	.00327
%RSD	.28339	.63450	.26879	.39122	.01782	.98777	.67048
#1	.48450	.48683	.48172	.48342	.47848	.49475	.48933
#2	.48645	.48248	.47989	.48075	.47836	.48789	.48472
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	1.9616	1.9745	1.9702	2.0497	.48643	.50168
SDev	.0105	.0044	.0064	.0121	.00099	.00120
%RSD	.53292	.22395	.32639	.58918	.20370	.23827
#1	1.9690	1.9777	1.9748	2.0412	.48713	.50252
#2	1.9542	1.9714	1.9657	2.0583	.48573	.50083
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14485	--	--	--	--	--	--
SDev	21.74353	--	--	--	--	--	--
%RSD	.1501073	--	--	--	--	--	--
#1	14470	--	--	--	--	--	--
#2	14501	--	--	--	--	--	--

Method: METTRA Sample Name: DLA68 Operator: MTW
Run Time: 10/18/00 08:45:57
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1761
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00652	.00005	.00778	.00017	23.072	.00027
SDev	.00028	.00970	.00009	.00008	.00009	.046	.00020
%RSD	348.78	148.90	159.47	1.0393	52.555	.19958	72.911
#1	.00027	.01338	.00011	.00772	.00011	23.105	.00013
#2	-.00012	-.00034	-.00001	.00784	.00023	23.039	.00041
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	-.00016	.00120	.00063	1.6827	4.3895	.34136	.00199
SDev	.00016	.00015	.00031	.0061	.0108	.00037	.00015
%RSD	97.354	12.523	48.317	.36461	.24621	.10887	7.5560
#1	-.00028	.00131	.00085	1.6784	4.3971	.34163	.00189
#2	-.00005	.00110	.00042	1.6871	4.3818	.34110	.00210
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	.04463	.00322	-.00049	.00075	.00008	.00020	.00016
SDev	.00076	.00026	.00033	.00013	.00037	.00026	.00005
%RSD	1.6918	8.2373	66.711	17.355	498.57	128.88	31.427
#1	.04517	.00340	-.00072	.00065	.00034	.00002	.00013
#2	.04410	.00303	-.00026	.00084	-.00019	.00039	.00020
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	.00168	.00219	.00202	-.00132	.00002	.00491
SDev	.00087	.00126	.00055	.00125	.00026	.00011
%RSD	51.779	57.735	27.349	94.518	1634.8	2.2143
#1	.00230	.00129	.00163	-.00044	-.00017	.00499
#2	.00107	.00308	.00241	-.00221	.00020	.00483
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	14503	--	--	--	--	--	--
SDev	80.22141	--	--	--	--	--	--
%RSD	.5531414	--	--	--	--	--	--
#1	14446	--	--	--	--	--	--
#2	14560	--	--	--	--	--	--

Method: METTRA Sample Name: DLA68P5 Operator: MTW
Run Time: 10/18/00 08:50:06
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1763
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	-.01505	-.00007	.00167	.00035	4.6385	.00000
SDev	.00004	.00787	.00003	.00005	.00006	.0294	.00019
%RSD	36.903	52.285	50.651	2.7526	18.108	.63384	5029.1
#1	-.00015	-.00948	-.00009	.00163	.00030	4.6593	-.00013
#2	-.00009	-.02061	-.00004	.00170	.00039	4.6177	.00014
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	.00007	-.00020	-.00011	.33522	.87524	.06854	.00062
SDev	.00036	.00011	.00021	.00419	.00330	.00044	.00036
%RSD	493.71	54.323	192.45	1.2490	.37656	.64337	57.317
#1	.00033	-.00012	-.00026	.33226	.87757	.06886	.00088
#2	-.00018	-.00027	.00004	.33818	.87291	.06823	.00037
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	.00797	.00124	-.00095	-.00022	-.00125	.00150	.00059
SDev	.00049	.00332	.00045	.00080	.00028	.00035	.00033
%RSD	6.1807	266.68	47.243	364.36	22.283	23.553	55.898
#1	.00762	.00359	-.00127	.00035	-.00144	.00125	.00036
#2	.00832	-.00110	-.00063	-.00079	-.00105	.00175	.00082
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	.00025	.00159	.00114	.00339	.00029	.00127
SDev	.00173	.00155	.00161	.00223	.00078	.00003
%RSD	683.13	97.958	141.23	65.702	271.95	2.5133
#1	.00148	.00268	.00228	.00496	.00084	.00125
#2	-.00097	.00049	.00000	.00181	-.00027	.00129
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	14782	--	--	--	--	--	--
SDev	154.0788	--	--	--	--	--	--
%RSD	1.042348	--	--	--	--	--	--
#1	14673	--	--	--	--	--	--
#2	14891	--	--	--	--	--	--

Method: METTRA Sample Name: DLA68S Operator: MTW
Run Time: 10/18/00 08:54:14
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1765
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05042	2.0046	1.9921	1.9563	.05026	71.674	.04710
SDev	.00026	.0079	.0001	.0027	.00022	.179	.00001
%RSD	.51886	.39315	.00383	.13591	.44502	.24927	.02222
#1	.05060	1.9990	1.9920	1.9582	.05042	71.801	.04709
#2	.05023	2.0101	1.9921	1.9544	.05011	71.548	.04711
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	.49318	.19893	.24369	2.6016	52.394	.82000	.99238
SDev	.00071	.00032	.00008	.0099	.026	.00075	.00234
%RSD	.14347	.16295	.03346	.38189	.04873	.09086	.23629
#1	.49268	.19870	.24363	2.6087	52.412	.82052	.99072
#2	.49368	.19916	.24375	2.5946	52.376	.81947	.99404
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	.48967	.49111	.48295	.48567	.48103	.49282	.48889
SDev	.00030	.00286	.00077	.00147	.00081	.00331	.00248
%RSD	.06138	.58330	.15894	.30184	.16935	.67234	.50754
#1	.48946	.48909	.48240	.48463	.48045	.49048	.48714
#2	.48988	.49314	.48349	.48670	.48160	.49517	.49065
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	1.9757	1.9828	1.9805	2.0718	.49161	.50867
SDev	.0083	.0052	.0007	.0022	.00067	.00102
%RSD	.42219	.26456	.03642	.10854	.13642	.20120
#1	1.9698	1.9865	1.9810	2.0702	.49208	.50939
#2	1.9816	1.9791	1.9799	2.0733	.49114	.50795
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	14470	--	--	--	--	--	--
SDev	11.87926	--	--	--	--	--	--
%RSD	.0820929	--	--	--	--	--	--
#1	14462	--	--	--	--	--	--
#2	14479	--	--	--	--	--	--

Method: METTRA Sample Name: DLA68D Operator: MTW
Run Time: 10/18/00 08:58:23
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1767
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05256	2.1144	2.0944	2.0638	.05291	74.961	.04935
SDev	.00057	.0139	.0165	.0048	.00034	.372	.00035
%RSD	1.0925	.65883	.78749	.23149	.63617	.49586	.71238
#1	.05297	2.1242	2.1060	2.0671	.05315	75.223	.04959
#2	.05216	2.1045	2.0827	2.0604	.05267	74.698	.04910
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	.51845	.20856	.25695	2.6518	55.038	.85731	1.0480
SDev	.00210	.00063	.00083	.0175	.235	.00329	.0039
%RSD	.40569	.30064	.32465	.66045	.42687	.38359	.37024
#1	.51994	.20901	.25754	2.6642	55.204	.85964	1.0507
#2	.51696	.20812	.25636	2.6394	54.872	.85498	1.0452
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	.51320	.51219	.50590	.50800	.50267	.51536	.51114
SDev	.00054	.00634	.00170	.00324	.00360	.00712	.00355
%RSD	.10604	1.2373	.33528	.63815	.71587	1.3815	.69462
#1	.51282	.51667	.50710	.51029	.50013	.52040	.51365
#2	.51359	.50771	.50470	.50570	.50522	.51033	.50863
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	2.0620	2.0732	2.0695	2.1847	.51726	.53371
SDev	.0282	.0054	.0130	.0089	.00289	.00407
%RSD	1.3683	.26197	.62907	.40771	.55947	.76176
#1	2.0820	2.0770	2.0787	2.1910	.51930	.53659
#2	2.0421	2.0693	2.0602	2.1784	.51521	.53084
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	14594	--	--	--	--	--	--
SDev	125.7946	--	--	--	--	--	--
%RSD	.8619668	--	--	--	--	--	--
#1	14505	--	--	--	--	--	--
#2	14683	--	--	--	--	--	--

Method: METTRA Sample Name: DM6G7B Operator: MTW
Run Time: 10/18/00 09:02:31
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1769
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	-.00631	.00202	.00088	.00026	.08366	.00008
SDev	.00018	.00162	.00057	.00000	.00006	.00097	.00021
%RSD	235.53	25.698	28.346	.09837	24.695	1.1655	251.63
#1	.00005	-.00516	.00161	.00088	.00031	.08297	.00023
#2	-.00021	-.00746	.00242	.00088	.00022	.08435	-.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
Avge	.00028	.00049	.00041	.00975	.01514	.00484	.00234
SDev	.00038	.00042	.00028	.01057	.00196	.00016	.00109
%RSD	132.44	85.664	67.986	108.44	12.943	3.2843	46.589
#1	.00055	.00079	.00061	.01722	.01653	.00473	.00312
#2	.00002	.00019	.00022	.00227	.01376	.00495	.00157
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	.00012	.00051	.00021	.00031	-.00160	.00124	.00029
SDev	.00030	.00135	.00072	.00093	.00146	.00142	.00144
%RSD	250.59	261.97	344.40	298.86	90.996	115.18	494.72
#1	.00033	.00146	.00071	.00096	-.00264	.00023	-.00072
#2	-.00009	-.00044	-.00030	-.00034	-.00057	.00224	.00130
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	.00419	.00103	.00208	.00505	-.00001	.00593
SDev	.00121	.00020	.00027	.00172	.00000	.00017
%RSD	28.875	18.976	13.064	34.116	47.172	2.8303
#1	.00504	.00089	.00227	.00627	-.00001	.00581
#2	.00333	.00117	.00189	.00383	-.00001	.00605
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	14761	--	--	--	--	--	--
SDev	11.77291	--	--	--	--	--	--
%RSD	.0797584	--	--	--	--	--	--
#1	14752	--	--	--	--	--	--
#2	14769	--	--	--	--	--	--

Method: METTRA Sample Name: DM6G7C Operator: MTW
Run Time: 10/18/00 09:06:40
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1771
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05293	2.2070	2.1395	2.0180	.05213	51.612	.04974
SDev	.00057	.0156	.0095	.0050	.00017	.265	.00023
%RSD	1.0868	.70740	.44316	.24563	.33104	.51307	.47112
#1	.05333	2.2180	2.1462	2.0215	.05225	51.800	.04990
#2	.05252	2.1960	2.1328	2.0145	.05201	51.425	.04957
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	.51707	.20649	.24792	.90955	50.249	.50607	.98712
SDev	.00271	.00119	.00073	.00613	.175	.00167	.01886
%RSD	.52511	.57421	.29618	.67446	.34845	.32924	1.9107
#1	.51899	.20733	.24844	.91388	50.373	.50724	.97379
#2	.51515	.20565	.24740	.90521	50.125	.50489	1.0005
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	.51114	.51090	.51154	.51133	.51191	.52632	.52152
SDev	.00282	.00324	.00500	.00441	.00826	.00308	.00070
%RSD	.55206	.63358	.97767	.86318	1.6133	.58473	.13373
#1	.51314	.51319	.51508	.51445	.51775	.52414	.52201
#2	.50915	.50861	.50801	.50821	.50607	.52849	.52103
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	2.2546	2.3028	2.2868	2.1821	.51090	.54832
SDev	.0015	.0361	.0246	.0143	.00542	.00272
%RSD	.06663	1.5682	1.0752	.65503	1.0616	.49639
#1	2.2556	2.3284	2.3041	2.1922	.51474	.55025
#2	2.2535	2.2773	2.2694	2.1720	.50707	.54640
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14938	--	--	--	--	--	--
SDev	53.88099	--	--	--	--	--	--
%RSD	.3607047	--	--	--	--	--	--
#1	14900	--	--	--	--	--	--
#2	14976	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-1 0057-111-1 Operator: MTW
Run Time: 10/18/00 09:10:49
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP 673 1773
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0234	24.328	.51243	2.0115	2.0365	50.713	.49394
SDev	.0026	.054	.00427	.0005	.0059	.142	.00287
%RSD	.25425	.22095	.83323	.02330	.28740	.28058	.58103
#1	1.0253	24.290	.51545	2.0118	2.0406	50.814	.49597
#2	1.0216	24.366	.50941	2.0112	2.0324	50.613	.49191
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	2.0377	2.0311	1.9735	25.138	49.223	2.0117	2.0531
SDev	.0046	.0034	.0005	.044	.095	.0044	.0040
%RSD	.22747	.16762	.02467	.17682	.19279	.21732	.19616
#1	2.0410	2.0335	1.9738	25.170	49.290	2.0147	2.0560
#2	2.0344	2.0287	1.9731	25.107	49.156	2.0086	2.0503
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	2.0240	.50658	.50449	.50518	.51047	.50946	.50979
SDev	.0072	.00375	.00170	.00238	.00528	.00527	.00527
%RSD	.35628	.74080	.33662	.47158	1.0343	1.0342	1.0342
#1	2.0291	.50923	.50569	.50687	.51420	.51318	.51352
#2	2.0189	.50392	.50329	.50350	.50674	.50573	.50607
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	.51685	.52127	.51980	1.0404	2.0209	2.0482
SDev	.00023	.00375	.00243	.0096	.0082	.0100
%RSD	.04507	.72006	.46672	.91838	.40387	.48785
#1	.51669	.52392	.52151	1.0472	2.0267	2.0553
#2	.51702	.51862	.51808	1.0337	2.0152	2.0412
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14484	--	--	--	--	--	--
SDev	68.09425	--	--	--	--	--	--
%RSD	.4701424	--	--	--	--	--	--
#1	14436	--	--	--	--	--	--
#2	14532	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1 Operator: MTW
Run Time: 10/18/00 09:14:57
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	-.00034	-.00616	-.00033	.00081	.00092	.36268	.00001
SDev	.00057	.00457	.00039	.00024	.00013	.00661	.00005
%RSD	169.94	74.217	118.74	30.067	14.202	1.8225	739.82
#1	-.00074	-.00940	-.00005	.00064	.00083	.35801	-.00003
#2	.00007	-.00293	-.00061	.00098	.00102	.36735	.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
Avge	.00021	-.00014	.00014	.00816	.01350	.00059	.00489
SDev	.00071	.00049	.00005	.00675	.00514	.00026	.00047
%RSD	345.13	341.67	37.688	82.687	38.056	44.935	9.5620
#1	-.00030	-.00049	.00010	.00339	.00987	.00040	.00522
#2	.00071	.00020	.00018	.01293	.01713	.00077	.00456
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	-.00030	-.00204	.00107	.00003	.00279	-.00275	-.00090
SDev	.00068	.00040	.00252	.00155	.00135	.00140	.00138
%RSD	226.52	19.549	236.45	4591.0	48.232	51.054	153.30
#1	.00018	-.00175	-.00072	-.00106	.00374	-.00176	.00008
#2	-.00078	-.00232	.00285	.00113	.00184	-.00374	-.00188
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	.00092	.00585	.00421	.00378	-.00019	.01068
SDev	.00062	.00075	.00071	.00238	.00078	.00018
%RSD	67.657	12.827	16.798	62.973	410.38	1.7179
#1	.00048	.00532	.00371	.00210	-.00074	.01055
#2	.00135	.00638	.00471	.00546	.00036	.01081
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	14764	--	--	--	--	--	--
SDev	79.54951	--	--	--	--	--	--
%RSD	.5388237	--	--	--	--	--	--
#1	14820	--	--	--	--	--	--
#2	14707	--	--	--	--	--	--

Method: METTRA Sample Name: DL4J7 Operator: MTW
Run Time: 10/18/00 09:19:06
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	.00064	104.75	.03005	.99091	.01280	481.32	.00024
SDev	.00039	.27	.00038	.00153	.00000	.00	.00003
%RSD	60.984	.25478	1.2719	.15429	.00270	.00033	11.950
#1	.00036	104.56	.02978	.99199	.01280	481.32	.00026
#2	.00092	104.94	.03032	.98982	.01280	481.32	.00022
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	.05039	.20842	.17416	119.05	67.509	9.6896	.00329
SDev	.00045	.00004	.00029	.16	.014	.0010	.00007
%RSD	.89124	.02064	.16710	.13513	.02060	.01068	2.2663
#1	.05007	.20845	.17436	118.94	67.499	9.6888	.00324
#2	.05071	.20839	.17395	119.17	67.518	9.6903	.00335
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	.10109	.05006	.04784	.04858	.00270	.00717	.00568
SDev	.00096	.00093	.00121	.00112	.00371	.00110	.00197
%RSD	.94539	1.8650	2.5247	2.2983	137.50	15.359	34.689
#1	.10177	.04940	.04699	.04779	.00007	.00639	.00429
#2	.10041	.05072	.04870	.04937	.00533	.00795	.00708
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	.01357	.00899	.01052	.00377	.16279	.29255
SDev	.00248	.00254	.00087	.00347	.00008	.00099
%RSD	18.250	28.240	8.2703	91.799	.04758	.33887
#1	.01532	.00720	.00990	.00132	.16285	.29325
#2	.01182	.01079	.01113	.00622	.16274	.29185
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	15461	--	--	--	--	--	--
SDev	16.65292	--	--	--	--	--	--
%RSD	.1077104	--	--	--	--	--	--
#1	15449	--	--	--	--	--	--
#2	15473	--	--	--	--	--	--

Method: METTRA Sample Name: DL4J9 Operator: MTW
Run Time: 10/18/00 09:23:15
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
Avge	.00011	83.861	.03720	.72910	.00592	364.74	-.00052
SDev	.00024	.446	.00193	.00096	.00012	1.05	.00015
%RSD	214.58	.53229	5.1773	.13213	1.9487	.28879	28.826
#1	-.00006	83.546	.03856	.72978	.00600	365.49	-.00063
#2	.00029	84.177	.03583	.72842	.00584	364.00	-.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	.08587	.12566	.20363	177.66	95.222	6.2461	.00264
SDev	.00020	.00021	.00071	.10	.121	.0056	.00035
%RSD	.23632	.16803	.34949	.05457	.12742	.08940	13.393
#1	.08572	.12581	.20313	177.59	95.308	6.2501	.00289
#2	.08601	.12551	.20413	177.73	95.137	6.2422	.00239
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	.17335	.04524	.04275	.04358	.00214	.00461	.00379
SDev	.00205	.00221	.00080	.00020	.00191	.00082	.00118
%RSD	1.1814	4.8765	1.8805	.45513	89.154	17.774	31.193
#1	.17480	.04680	.04219	.04372	.00079	.00403	.00295
#2	.17191	.04368	.04332	.04344	.00348	.00519	.00462
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	.00474	.00048	.00190	.00520	.19244	.38302
SDev	.00323	.00284	.00297	.00064	.00085	.00253
%RSD	68.200	587.16	156.24	12.351	.44257	.66161
#1	.00702	.00249	.00400	.00475	.19304	.38482
#2	.00245	-.00152	-.00020	.00565	.19184	.38123
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	15579	--	--	--	--	--	--
SDev	132.7945	--	--	--	--	--	--
%RSD	.8524190	--	--	--	--	--	--
#1	15485	--	--	--	--	--	--
#2	15672	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JA Operator: MTW
Run Time: 10/18/00 09:27:25
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	.00032	90.649	.08381	.95102	.00663	243.15	.00081
SDev	.00010	.315	.00278	.00794	.00015	2.20	.00021
%RSD	30.559	.34787	3.3150	.83479	2.2711	.90457	25.566
#1	.00039	90.872	.08577	.95664	.00674	244.70	.00066
#2	.00025	90.426	.08184	.94541	.00653	241.59	.00096
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	.06527	.30249	.21502	229.53	71.857	5.6529	.00762
SDev	.00115	.00273	.00146	1.48	.526	.0414	.00032
%RSD	1.7600	.90197	.68040	.64638	.73262	.73222	4.1966
#1	.06608	.30442	.21606	230.58	72.229	5.6822	.00785
#2	.06446	.30057	.21399	228.48	71.485	5.6236	.00740
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	.12770	.09477	.08916	.09103	.00091	.00569	.00410
SDev	.00211	.00296	.00068	.00144	.00003	.00081	.00055
%RSD	1.6559	3.1200	.76099	1.5789	2.8515	14.247	13.404
#1	.12919	.09687	.08963	.09204	.00089	.00512	.00371
#2	.12620	.09268	.08868	.09001	.00093	.00626	.00449
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	.00191	.00847	.00628	.00746	.23542	.54149
SDev	.00489	.00268	.00341	.00431	.00181	.00573
%RSD	256.25	31.621	54.320	57.752	.76789	1.0590
#1	-.00155	.00658	.00387	.00441	.23670	.54555
#2	.00536	.01036	.00870	.01050	.23414	.53744
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	15221	--	--	--	--	--	--
SDev	125.5114	--	--	--	--	--	--
%RSD	.8245885	--	--	--	--	--	--
#1	15132	--	--	--	--	--	--
#2	15310	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JC Operator: MTW
Run Time: 10/18/00 09:32:51
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	-.00037	58.912	.03292	.63612	.00390	152.27	.00021
SDev	.00018	.011	.00094	.00198	.00008	.79	.00014
%RSD	49.442	.01811	2.8440	.31190	2.1565	.51816	64.732
#1	-.00024	58.905	.03359	.63752	.00384	152.83	.00011
#2	-.00049	58.920	.03226	.63471	.00396	151.71	.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
Avge	.04791	.08711	.21719	128.21	31.400	5.1779	.00310
SDev	.00043	.00064	.00063	.34	.132	.0213	.00020
%RSD	.89641	.73101	.28819	.26365	.42150	.41111	6.4223
#1	.04821	.08757	.21764	128.45	31.493	5.1930	.00324
#2	.04761	.08666	.21675	127.97	31.306	5.1629	.00296
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	.10277	.17134	.16603	.16780	.00345	.00616	.00526
SDev	.00018	.00231	.00028	.00058	.00090	.00030	.00010
%RSD	.17258	1.3471	.17007	.34582	26.158	4.9613	1.8435
#1	.10265	.17297	.16583	.16821	.00409	.00594	.00532
#2	.10290	.16971	.16623	.16739	.00281	.00637	.00519
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	-.00266	.00919	.00524	.00086	.15013	.31891
SDev	.00035	.00274	.00194	.00312	.00225	.00222
%RSD	13.268	29.784	37.064	365.26	1.4992	.69782
#1	-.00241	.01112	.00662	.00306	.14854	.32049
#2	-.00291	.00725	.00387	-.00135	.15172	.31734
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	14815	--	--	--	--	--	--
SDev	100.3387	--	--	--	--	--	--
%RSD	.6772596	--	--	--	--	--	--
#1	14744	--	--	--	--	--	--
#2	14886	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JCP5 Operator: MTW
Run Time: 10/18/00 09:37:01
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	-.00077	11.243	.00601	.12744	.00132	31.037	-.00009
SDev	.00006	.089	.00055	.00037	.00009	.045	.00015
%RSD	7.5942	.78849	9.0974	.29082	6.8663	.14523	175.39
#1	-.00073	11.180	.00562	.12718	.00138	31.069	.00002
#2	-.00081	11.305	.00640	.12770	.00125	31.005	-.00019
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	.00949	.01702	.04116	25.794	6.2057	1.0400	.00104
SDev	.00043	.00023	.00018	.051	.0024	.0007	.00015
%RSD	4.5046	1.3286	.44711	.19898	.03843	.06539	13.941
#1	.00980	.01718	.04129	25.758	6.2074	1.0395	.00093
#2	.00919	.01686	.04103	25.830	6.2041	1.0405	.00114
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	.02035	.03227	.03404	.03345	.00074	-.00095	-.00039
SDev	.00090	.00050	.00060	.00023	.00245	.00143	.00013
%RSD	4.4299	1.5437	1.7654	.70236	330.26	149.73	34.533
#1	.01972	.03192	.03447	.03362	.00248	-.00196	-.00048
#2	.02099	.03263	.03362	.03329	-.00099	.00006	-.00029
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	-.00124	.00159	.00064	.00378	.02880	.06507
SDev	.00486	.00125	.00078	.00015	.00316	.00041
%RSD	391.10	79.046	121.55	4.0929	10.985	.63141
#1	.00219	.00070	.00120	.00389	.03103	.06478
#2	-.00468	.00247	.00009	.00367	.02656	.06536
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	15107	--	--	--	--	--	--
SDev	108.6120	--	--	--	--	--	--
%RSD	.7189587	--	--	--	--	--	--
#1	15030	--	--	--	--	--	--
#2	15184	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JCS Operator: MTW
Run Time: 10/18/00 09:41:10
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	.04548	62.729	1.7631	2.5528	.04920	132.72	.04174
SDev	.00023	.226	.0088	.0133	.00026	.55	.00057
%RSD	.50578	.35955	.50035	.51999	.52080	.41690	1.3570
#1	.04564	62.889	1.7693	2.5622	.04938	133.12	.04214
#2	.04532	62.570	1.7568	2.5434	.04902	132.33	.04134
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	.51274	.25176	.41076	137.31	66.524	H17.409	.86333
SDev	.00231	.00079	.00135	.46	.234	.062	.00415
%RSD	.45023	.31494	.32749	.33648	.35194	.35698	.48060
#1	.51437	.25232	.41171	137.64	66.690	H17.453	.86626
#2	.51111	.25119	.40981	136.99	66.359	H17.365	.86039
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
Avge	.50958	.50261	.49416	.49697	.28582	.30080	.29581
SDev	.00304	.00073	.00249	.00190	.00061	.00103	.00089
%RSD	.59590	.14502	.50327	.38262	.21229	.34352	.30130
#1	.51173	.50209	.49240	.49563	.28539	.30007	.29518
#2	.50744	.50312	.49591	.49832	.28624	.30154	.29644
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	1.6871	1.6791	1.6818	1.7914	.58988	.72527
SDev	.0022	.0063	.0049	.0075	.00243	.00245
%RSD	.13264	.37221	.29219	.42094	.41158	.33810
#1	1.6886	1.6835	1.6852	1.7968	.59160	.72700
#2	1.6855	1.6747	1.6783	1.7861	.58817	.72353
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	16082	--	--	--	--	--	--
SDev	67.13993	--	--	--	--	--	--
%RSD	.4174856	--	--	--	--	--	--
#1	16034	--	--	--	--	--	--
#2	16129	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JCS/2 MN Operator: MTW
Run Time: 10/18/00 09:45:24
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	.02420	33.065	.96927	1.3877	.02685	72.844	.02298
SDev	.00010	.453	.00732	.0130	.00001	.619	.00017
%RSD	.42561	1.3691	.75480	.93952	.02107	.84993	.73719
#1	.02413	32.745	.96410	1.3785	.02686	72.406	.02286
#2	.02428	33.386	.97445	1.3969	.02685	73.282	.02310
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	.28152	.13740	.21921	74.741	35.781	9.3268	.47259
SDev	.00323	.00124	.00272	.790	.361	.0961	.00624
%RSD	1.1456	.90141	1.2423	1.0567	1.0095	1.0307	1.3214
#1	.27924	.13652	.21729	74.183	35.526	9.2589	.46818
#2	.28381	.13828	.22114	75.299	36.037	9.3948	.47701
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	.28244	.27695	.27247	.27396	.15709	.16347	.16134
SDev	.00002	.00282	.00236	.00252	.00276	.00015	.00082
%RSD	.00810	1.0193	.86777	.91879	1.7581	.08934	.50965
#1	.28245	.27496	.27079	.27218	.15514	.16357	.16076
#2	.28242	.27895	.27414	.27574	.15904	.16336	.16193
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	.92919	.93428	.93259	.97320	.31966	.40111
SDev	.00848	.01119	.01029	.00789	.00613	.00373
%RSD	.91246	1.1978	1.1031	.81086	1.9187	.93089
#1	.92320	.92637	.92531	.96762	.31532	.39847
#2	.93519	.94220	.93986	.97878	.32399	.40375
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	15350	--	--	--	--	--	--
SDev	136.9667	--	--	--	--	--	--
%RSD	.8922885	--	--	--	--	--	--
#1	15447	--	--	--	--	--	--
#2	15253	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JCD Operator: MTW
Run Time: 10/18/00 09:49:33
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	.04797	79.524	1.9019	2.5059	.05207	208.31	.04433
SDev	.00132	.151	.0039	.0088	.00026	.39	.00034
%RSD	2.7476	.18967	.20294	.35142	.50850	.18562	.77710
#1	.04704	79.417	1.8992	2.5121	.05225	208.03	.04409
#2	.04890	79.631	1.9046	2.4996	.05188	208.58	.04458
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	.51644	.28936	.47331	131.16	82.545	5.9784	.92545
SDev	.00260	.00168	.00052	.40	.153	.0136	.00357
%RSD	.50262	.57893	.10981	.30576	.18558	.22741	.38600
#1	.51461	.28817	.47295	130.88	82.437	5.9688	.92293
#2	.51828	.29054	.47368	131.44	82.654	5.9880	.92798
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	.56967	.55442	.54538	.54839	.24519	.26277	.25691
SDev	.00022	.00425	.00647	.00573	.00474	.00245	.00321
%RSD	.03936	.76617	1.1871	1.0454	1.9347	.93092	1.2499
#1	.56982	.55141	.54080	.54434	.24183	.26104	.25464
#2	.56951	.55742	.54996	.55244	.24854	.26450	.25918
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	1.8421	1.8343	1.8369	1.9416	.63000	.83070
SDev	.0103	.0231	.0189	.0155	.00186	.00128
%RSD	.55901	1.2613	1.0268	.79570	.29446	.15413
#1	1.8348	1.8179	1.8235	1.9307	.63131	.82979
#2	1.8493	1.8506	1.8502	1.9525	.62869	.83160
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	15006	--	--	--	--	--	--
SDev	27.15249	--	--	--	--	--	--
%RSD	.1809436	--	--	--	--	--	--
#1	15025	--	--	--	--	--	--
#2	14987	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JF Operator: MTW
Run Time: 10/18/00 09:53:42
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	-.00005	90.940	.03762	1.4140	.00604	330.47	-.00020
SDev	.00039	.088	.00063	.0036	.00003	.42	.00008
%RSD	794.72	.09694	1.6844	.25680	.54207	.12582	42.051
#1	.00023	91.002	.03717	1.4165	.00602	330.76	-.00014
#2	-.00033	90.878	.03807	1.4114	.00607	330.18	-.00025
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	.07689	.13955	.20072	174.88	75.865	4.2118	.00289
SDev	.00053	.00047	.00048	.09	.054	.0029	.00066
%RSD	.69024	.33920	.24081	.05412	.07182	.06819	22.754
#1	.07727	.13989	.20106	174.95	75.903	4.2138	.00336
#2	.07652	.13922	.20038	174.81	75.826	4.2097	.00243
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	.16932	.05850	.05304	.05486	.00371	.00454	.00427
SDev	.00027	.00083	.00198	.00160	.00071	.00089	.00083
%RSD	.15687	1.4129	3.7371	2.9118	19.077	19.528	19.397
#1	.16914	.05791	.05164	.05373	.00321	.00392	.00368
#2	.16951	.05908	.05444	.05599	.00421	.00517	.00485
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	-.00193	.00431	.00223	.00850	.19524	.40313
SDev	.00330	.00409	.00383	.00074	.00114	.00120
%RSD	171.40	94.957	171.58	8.6676	.58350	.29670
#1	-.00426	.00141	-.00048	.00902	.19605	.40398
#2	.00041	.00720	.00494	.00798	.19444	.40229
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	15090	--	--	--	--	--	--
SDev	10.53548	--	--	--	--	--	--
%RSD	.0698174	--	--	--	--	--	--
#1	15083	--	--	--	--	--	--
#2	15098	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JH Operator: MTW
Run Time: 10/18/00 09:57:51
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	-.00013	76.766	.03109	.75699	.00554	338.18	-.00056
SDev	.00006	.081	.00043	.00123	.00001	.67	.00006
%RSD	46.840	.10586	1.3714	.16200	.16644	.19831	10.109
#1	-.00009	76.824	.03139	.75786	.00553	338.65	-.00052
#2	-.00017	76.709	.03079	.75612	.00554	337.71	-.00060
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	.07307	.11526	.26625	162.14	76.403	5.5319	.00153
SDev	.00013	.00010	.00004	.15	.039	.0059	.00063
%RSD	.18034	.08912	.01468	.09291	.05042	.10585	41.511
#1	.07298	.11533	.26627	162.25	76.431	5.5361	.00198
#2	.07316	.11518	.26622	162.04	76.376	5.5278	.00108
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	.15434	.05529	.05281	.05364	.00369	.00383	.00379
SDev	.00024	.00125	.00096	.00106	.00075	.00100	.00091
%RSD	.15796	2.2515	1.8260	1.9721	20.250	25.945	24.096
#1	.15451	.05617	.05350	.05439	.00316	.00313	.00314
#2	.15417	.05441	.05213	.05289	.00422	.00454	.00443
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	.00287	-.00185	-.00028	.00487	.16881	.37435
SDev	.00205	.00024	.00085	.00378	.00020	.00055
%RSD	71.371	13.166	305.59	77.542	.11939	.14730
#1	.00432	-.00168	.00032	.00220	.16896	.37396
#2	.00142	-.00202	-.00087	.00754	.16867	.37474
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	15526	--	--	--	--	--	--
SDev	13.01035	--	--	--	--	--	--
%RSD	.0837969	--	--	--	--	--	--
#1	15535	--	--	--	--	--	--
#2	15517	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2 Operator: MTW
Run Time: 10/18/00 10:02:00
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	1.0233	24.292	.51323	2.0118	2.0445	50.962	.49474
SDev	.0060	.297	.00279	.0156	.0119	.403	.00330
%RSD	.58669	1.2224	.54411	.77700	.58197	.79148	.66697
#1	1.0191	24.082	.51126	2.0008	2.0361	50.677	.49241
#2	1.0276	24.502	.51521	2.0229	2.0529	51.247	.49707
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	2.0453	2.0387	1.9738	25.283	49.382	2.0058	2.0536
SDev	.0159	.0134	.0163	.245	.359	.0146	.0219
%RSD	.77729	.65722	.82582	.96797	.72661	.72915	1.0645
#1	2.0341	2.0293	1.9622	25.110	49.128	1.9954	2.0382
#2	2.0566	2.0482	1.9853	25.457	49.635	2.0161	2.0691
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	2.0217	.50421	.50210	.50280	.50845	.50791	.50809
SDev	.0133	.00645	.00067	.00170	.00197	.00041	.00093
%RSD	.65734	1.2784	.13380	.33777	.38758	.08092	.18312
#1	2.0123	.49965	.50257	.50160	.50706	.50762	.50743
#2	2.0311	.50877	.50162	.50400	.50984	.50820	.50875
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	.51407	.51351	.51370	1.0403	2.0214	2.0474
SDev	.00289	.00026	.00079	.0017	.0158	.0115
%RSD	.56197	.05053	.15357	.16265	.78011	.56231
#1	.51203	.51369	.51314	1.0391	2.0102	2.0393
#2	.51611	.51333	.51425	1.0415	2.0325	2.0555
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14721	--	--	--	--	--	--
SDev	72.97356	--	--	--	--	--	--
%RSD	.4957106	--	--	--	--	--	--
#1	14773	--	--	--	--	--	--
#2	14669	--	--	--	--	--	--

Method: METTRA Sample Name: CCB2 Operator: MTW
Run Time: 10/18/00 10:06:09
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	.00002	-.01170	.00006	.00090	.00123	.07645	.00014
SDev	.00043	.00312	.00076	.00013	.00002	.00903	.00012
%RSD	2147.3	26.627	1373.6	14.734	1.2844	11.808	85.824
#1	-.00028	-.01390	.00059	.00081	.00122	.07007	.00006
#2	.00032	-.00950	-.00048	.00100	.00124	.08283	.00023
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	.00108	.00031	.00070	.03708	.01928	.00142	.00468
SDev	.00000	.00042	.00029	.00886	.00583	.00017	.00163
%RSD	.00000	136.38	41.040	23.881	30.226	11.858	34.841
#1	.00108	.00001	.00050	.04334	.01516	.00130	.00583
#2	.00108	.00061	.00091	.03082	.02340	.00153	.00353
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	.00051	.00088	.00077	.00080	-.00102	.00021	-.00020
SDev	.00107	.00105	.00024	.00051	.00267	.00025	.00072
%RSD	209.53	119.64	31.310	63.439	260.62	122.73	353.60
#1	-.00025	.00014	.00060	.00044	.00086	.00003	.00031
#2	.00127	.00162	.00094	.00116	-.00291	.00038	-.00071
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	.00348	.00223	.00264	.00416	.00053	.00214
SDev	.00185	.00150	.00038	.00162	.00025	.00017
%RSD	53.217	67.253	14.486	39.015	47.796	7.8285
#1	.00217	.00329	.00291	.00531	.00071	.00202
#2	.00478	.00117	.00237	.00301	.00035	.00225
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	14965	--	--	--	--	--	--
SDev	50.16867	--	--	--	--	--	--
%RSD	.3352440	--	--	--	--	--	--
#1	15000	--	--	--	--	--	--
#2	14929	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JL Operator: MTW
Run Time: 10/18/00 10:10:17
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	.00140	60.647	.04043	.61779	.00828	H979.52	.00535
SDev	.00087	.084	.00210	.00328	.00021	10.52	.00011
%RSD	62.177	.13905	5.2022	.53027	2.6001	1.0740	2.0060
#1	.00201	60.706	.04191	.62011	.00813	H986.95	.00528
#2	.00078	60.587	.03894	.61548	.00843	H972.08	.00543
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	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	.03934	.09233	.12386	105.17	398.21	8.2610	.00766
SDev	.00005	.00170	.00115	.82	3.58	.0698	.00060
%RSD	.13756	1.8462	.92786	.78428	.89816	.84554	7.7616
#1	.03930	.09353	.12468	105.75	400.73	8.3104	.00808
#2	.03938	.09112	.12305	104.59	395.68	8.2116	.00724
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	.08106	.17409	.17316	.17347	.00381	.00428	.00412
SDev	.00291	.00442	.00391	.00408	.00277	.00125	.00175
%RSD	3.5938	2.5391	2.2563	2.3508	72.873	29.116	42.573
#1	.08312	.17721	.17592	.17635	.00184	.00340	.00288
#2	.07900	.17096	.17040	.17058	.00577	.00516	.00536
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	.00788	-.00005	.00259	-.00048	.09672	1.6073
SDev	.00373	.00051	.00090	.00162	.00146	.0205
%RSD	47.237	1093.9	34.697	337.58	1.5089	1.2724
#1	.01052	-.00041	.00323	.00066	.09568	1.6218
#2	.00525	.00031	.00196	-.00162	.09775	1.5929
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	14596	--	--	--	--	--	--
SDev	269.2668	--	--	--	--	--	--
%RSD	1.844837	--	--	--	--	--	--
#1	14405	--	--	--	--	--	--
#2	14786	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JP Operator: MTW
Run Time: 10/18/00 10:14:31
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	-.00075	81.563	.03825	.75464	.01042	491.11	.00253
SDev	.00017	.264	.00012	.00051	.00002	1.70	.00012
%RSD	22.752	.32383	.31157	.06813	.16709	.34542	4.8203
#1	-.00063	81.377	.03817	.75428	.01041	492.31	.00245
#2	-.00087	81.750	.03833	.75500	.01043	489.91	.00262
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	.06080	.09059	.17822	136.40	120.72	7.6537	.00332
SDev	.00056	.00095	.00001	.05	.23	.0097	.00044
%RSD	.91653	1.0472	.00270	.03882	.19192	.12715	13.221
#1	.06119	.09126	.17822	136.44	120.88	7.6606	.00363
#2	.06041	.08992	.17822	136.36	120.55	7.6468	.00301
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	.10467	.15912	.15655	.15741	.00589	.00514	.00539
SDev	.00202	.00452	.00089	.00210	.00034	.00056	.00026
%RSD	1.9345	2.8385	.56585	1.3309	5.7421	10.841	4.8039
#1	.10610	.16231	.15718	.15889	.00565	.00553	.00557
#2	.10324	.15592	.15593	.15592	.00613	.00474	.00520
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	.00437	.00238	.00304	.00369	.13843	1.1421
SDev	.00014	.00248	.00170	.00337	.00072	.0055
%RSD	3.2094	103.96	55.776	91.241	.51620	.48460
#1	.00427	.00063	.00184	.00131	.13894	1.1460
#2	.00447	.00413	.00425	.00608	.13793	1.1381
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	15387	--	--	--	--	--	--
SDev	115.7176	--	--	--	--	--	--
%RSD	.7520393	--	--	--	--	--	--
#1	15305	--	--	--	--	--	--
#2	15469	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JT Operator: MTW
Run Time: 10/18/00 10:18:40
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
Avge	.00484	91.954	.06196	4.0837	.00676	233.70	.02085
SDev	.00028	.807	.00015	.0146	.00018	.21	.00043
%RSD	5.7040	.87784	.23871	.35826	2.6080	.08903	2.0807
#1	.00465	91.383	.06185	4.0734	.00689	233.55	.02054
#2	.00504	92.525	.06206	4.0941	.00664	233.85	.02116
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	.33372	.15333	.21530	294.22	88.550	H62.346	.01022
SDev	.00117	.00022	.00064	1.07	.209	.176	.00080
%RSD	.34919	.14319	.29835	.36532	.23625	.28301	7.7952
#1	.33289	.15318	.21485	293.46	88.403	H62.221	.01078
#2	.33454	.15349	.21576	294.98	88.698	H62.471	.00965
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
Avge	.15534	.24587	.23974	.24178	.00827	.01305	.01146
SDev	.00081	.00111	.00343	.00192	.00452	.00297	.00048
%RSD	.52346	.45127	1.4299	.79289	54.640	22.763	4.1670
#1	.15592	.24665	.23732	.24043	.00507	.01515	.01180
#2	.15477	.24509	.24217	.24314	.01146	.01095	.01112
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	.03337	-.01205	.00307	-.00798	.28507	1.5999
SDev	.00707	.00038	.00261	.00122	.00414	.0011
%RSD	21.204	3.1548	84.908	15.337	1.4535	.07016
#1	.03837	-.01178	.00492	-.00885	.28800	1.6007
#2	.02837	-.01232	.00123	-.00712	.28214	1.5991
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	14690	--	--	--	--	--	--
SDev	48.57837	--	--	--	--	--	--
%RSD	.3306788	--	--	--	--	--	--
#1	14656	--	--	--	--	--	--
#2	14725	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JT/25 MN Operator: MTW
Run Time: 10/18/00 10:22:54
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	-.00010	3.3454	.00222	.16669	.00094	9.7981	.00085
SDev	.00017	.0110	.00087	.00061	.00014	.0204	.00003
%RSD	166.66	.32968	39.131	.36898	14.655	.20809	3.9400
#1	-.00022	3.3376	.00161	.16625	.00103	9.7837	.00087
#2	.00002	3.3532	.00283	.16712	.00084	9.8125	.00082
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	.01367	.00599	.00839	11.980	3.4646	2.2745	.00053
SDev	.00038	.00005	.00006	.077	.0124	.0059	.00009
%RSD	2.7781	.86963	.69413	.63862	.35797	.26050	16.472
#1	.01340	.00603	.00844	11.926	3.4558	2.2703	.00059
#2	.01394	.00595	.00835	12.034	3.4734	2.2787	.00046
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	.00570	.01115	.01013	.01047	.00137	.00101	.00113
SDev	.00144	.00038	.00032	.00009	.00063	.00202	.00156
%RSD	25.172	3.3805	3.1235	.81624	46.152	201.37	138.67
#1	.00468	.01089	.01035	.01053	.00092	-.00043	.00002
#2	.00671	.01142	.00990	.01041	.00181	.00244	.00223
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	.00392	.00070	.00177	-.00315	.00837	.06729
SDev	.00172	.00132	.00145	.00035	.00052	.00030
%RSD	43.889	188.62	82.055	10.966	6.2529	.44578
#1	.00270	-.00023	.00074	-.00291	.00800	.06708
#2	.00513	.00163	.00280	-.00340	.00874	.06750
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	15043	--	--	--	--	--	--
SDev	30.75915	--	--	--	--	--	--
%RSD	.2044687	--	--	--	--	--	--
#1	15022	--	--	--	--	--	--
#2	15065	--	--	--	--	--	--

Method: METTRA Sample Name: DL4JX Operator: MTW
Run Time: 10/18/00 10:27:03
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	-.00075	99.488	.03880	1.0226	.00623	536.15	.00662
SDev	.00022	1.391	.00017	.0156	.00010	6.02	.00015
%RSD	29.884	1.3979	.44781	1.5271	1.5217	1.1232	2.3472
#1	-.00091	100.47	.03867	1.0337	.00629	540.41	.00673
#2	-.00059	98.504	.03892	1.0116	.00616	531.90	.00651
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	.07179	.13485	.25248	203.73	82.442	5.7321	.00097
SDev	.00098	.00157	.00272	1.99	.859	.0598	.00091
%RSD	1.3645	1.1615	1.0774	.97706	1.0425	1.0429	93.811
#1	.07248	.13596	.25440	205.13	83.050	5.7744	.00161
#2	.07109	.13375	.25056	202.32	81.834	5.6898	.00033
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	.14888	.12009	.11907	.11941	.00504	.00474	.00484
SDev	.00430	.00029	.00025	.00007	.00172	.00038	.00032
%RSD	2.8902	.24396	.21082	.05852	34.155	7.9323	6.6589
#1	.15192	.11988	.11925	.11946	.00382	.00501	.00461
#2	.14583	.12029	.11890	.11936	.00626	.00447	.00507
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	-.00463	-.00094	-.00217	.00201	.25245	.52182
SDev	.00073	.00517	.00320	.00180	.00337	.00403
%RSD	15.859	550.25	147.87	89.668	1.3351	.77151
#1	-.00514	.00272	.00010	.00073	.25483	.52466
#2	-.00411	-.00460	-.00443	.00328	.25006	.51897
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	15182	--	--	--	--	--	--
SDev	76.96899	--	--	--	--	--	--
%RSD	.5069778	--	--	--	--	--	--
#1	15128	--	--	--	--	--	--
#2	15236	--	--	--	--	--	--

Method: METTRA Sample Name: DL4K1 Operator: MTW
Run Time: 10/18/00 10:31:13
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	.00069	83.316	.04556	.67266	.00791	H931.05	.00496
SDev	.00049	.343	.00045	.00286	.00019	1.28	.00045
%RSD	71.059	.41138	.98858	.42521	2.3668	.13708	9.1291
#1	.00034	83.558	.04588	.67468	.00804	H931.96	.00528
#2	.00104	83.074	.04524	.67063	.00778	H930.15	.00464
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	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	.05018	.15484	.15433	137.28	434.39	8.6753	.00434
SDev	.00016	.00010	.00071	.08	.39	.0079	.00069
%RSD	.32718	.06450	.46197	.05854	.09074	.09146	15.936
#1	.05030	.15491	.15484	137.33	434.67	8.6809	.00385
#2	.05007	.15477	.15383	137.22	434.11	8.6696	.00483
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	.10455	.20422	.20253	.20309	.00227	.00408	.00348
SDev	.00040	.00201	.00015	.00077	.00121	.00337	.00265
%RSD	.37810	.98540	.07276	.37834	53.170	82.650	76.227
#1	.10483	.20279	.20243	.20255	.00313	.00646	.00535
#2	.10427	.20564	.20264	.20364	.00142	.00169	.00160
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	.01368	.00529	.00809	.00352	.14440	1.3207
SDev	.00367	.00059	.00083	.00255	.00027	.0022
%RSD	26.838	11.155	10.248	72.567	.18767	.16790
#1	.01628	.00488	.00867	.00171	.14459	1.3223
#2	.01108	.00571	.00750	.00532	.14420	1.3192
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	14664	--	--	--	--	--	--
SDev	41.33053	--	--	--	--	--	--
%RSD	.2818431	--	--	--	--	--	--
#1	14694	--	--	--	--	--	--
#2	14635	--	--	--	--	--	--

Method: METTRA Sample Name: DL4K4 Operator: MTW
Run Time: 10/18/00 10:35:27
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	-.00038	89.129	.02987	1.0498	.00550	H691.29	.03646
SDev	.00033	.486	.00232	.0016	.00011	2.66	.00058
%RSD	86.715	.54579	7.7685	.15618	1.9656	.38546	1.6026
#1	-.00061	88.785	.03151	1.0487	.00557	H689.40	.03605
#2	-.00015	89.473	.02823	1.0510	.00542	H693.17	.03688
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	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	.06127	.12905	.21020	173.59	129.88	5.2351	.00252
SDev	.00064	.00066	.00070	.98	.58	.0240	.00089
%RSD	1.0400	.51035	.33349	.56644	.44626	.45769	35.244
#1	.06082	.12859	.20970	172.89	129.47	5.2182	.00314
#2	.06172	.12952	.21069	174.28	130.29	5.2520	.00189
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	.13394	.16125	.15880	.15961	.00118	.00611	.00447
SDev	.00009	.00257	.00314	.00124	.00203	.00053	.00103
%RSD	.06898	1.5950	1.9806	.77774	173.03	8.7199	23.133
#1	.13400	.16307	.15657	.15874	-.00026	.00573	.00373
#2	.13387	.15943	.16102	.16049	.00262	.00648	.00520
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	.00384	-.00038	.00102	.00574	.20841	.89532
SDev	.00032	.00339	.00215	.00160	.00109	.00334
%RSD	8.4673	888.11	210.19	27.869	.52431	.37341
#1	.00407	-.00278	-.00050	.00461	.20764	.89296
#2	.00361	.00202	.00255	.00687	.20918	.89768
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	14981	--	--	--	--	--	--
SDev	75.66042	--	--	--	--	--	--
%RSD	.5050577	--	--	--	--	--	--
#1	15034	--	--	--	--	--	--
#2	14927	--	--	--	--	--	--

Method: METTRA Sample Name: DL4K8 Operator: MTW
Run Time: 10/18/00 10:39:41
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	.00020	111.76	.03036	1.2682	.01631	H715.91	-.00010
SDev	.00005	1.22	.00035	.0213	.00025	13.58	.00004
%RSD	22.302	1.0941	1.1515	1.6830	1.5158	1.8971	43.034
#1	.00017	112.63	.03061	1.2833	.01649	H725.51	-.00007
#2	.00024	110.90	.03011	1.2531	.01614	H706.31	-.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	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	.05435	.09351	.15129	108.15	72.139	H13.387	.00094
SDev	.00118	.00131	.00227	1.64	1.152	.219	.00071
%RSD	2.1786	1.4010	1.5018	1.5172	1.5975	1.6328	75.957
#1	.05519	.09444	.15289	109.31	72.953	H13.542	.00144
#2	.05351	.09259	.14968	106.99	71.324	H13.233	.00043
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
Avge	.09398	.02902	.02601	.02701	.00910	.00487	.00628
SDev	.00437	.00364	.00060	.00081	.00211	.00360	.00170
%RSD	4.6482	12.551	2.2982	3.0146	23.152	73.902	27.045
#1	.09707	.03160	.02558	.02759	.00761	.00741	.00748
#2	.09089	.02644	.02643	.02643	.01059	.00232	.00508
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	.01223	.00672	.00856	.00114	.13277	.35497
SDev	.00422	.00064	.00183	.00216	.00036	.00667
%RSD	34.503	9.5066	21.403	188.85	.27062	1.8782
#1	.01521	.00717	.00985	-.00038	.13302	.35968
#2	.00925	.00627	.00726	.00267	.13252	.35025
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	15059	--	--	--	--	--	--
SDev	324.3141	--	--	--	--	--	--
%RSD	2.153591	--	--	--	--	--	--
#1	14830	--	--	--	--	--	--
#2	15289	--	--	--	--	--	--

Method: METTRA Sample Name: DL4K8/2 MN Operator: MTW
Run Time: 10/18/00 10:43:55
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	.00013	55.664	.01498	.64699	.00872	385.41	-.00024
SDev	.00031	.423	.00135	.00294	.00006	.80	.00019
%RSD	235.54	.75926	9.0022	.45460	.66520	.20668	79.660
#1	.00035	55.365	.01403	.64491	.00876	384.84	-.00010
#2	-.00009	55.962	.01594	.64907	.00868	385.97	-.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
Avge	.02856	.04802	.07610	55.381	36.702	6.8110	.00064
SDev	.00037	.00041	.00012	.276	.132	.0246	.00008
%RSD	1.3076	.85994	.15112	.49875	.35869	.36131	12.490
#1	.02830	.04773	.07602	55.185	36.609	6.7936	.00058
#2	.02883	.04832	.07618	55.576	36.795	6.8284	.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
Avge	.04718	.01547	.01473	.01498	.00204	.00229	.00220
SDev	.00129	.00107	.00023	.00020	.00015	.00246	.00159
%RSD	2.7434	6.9077	1.5711	1.3452	7.2609	107.50	72.170
#1	.04626	.01623	.01457	.01512	.00193	.00402	.00333
#2	.04809	.01472	.01490	.01484	.00214	.00055	.00108
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	.00653	.00377	.00469	.00039	.06576	.18437
SDev	.00042	.00036	.00010	.00358	.00097	.00065
%RSD	6.3776	9.4362	2.1056	915.34	1.4776	.35479
#1	.00682	.00352	.00462	-.00214	.06645	.18391
#2	.00624	.00402	.00476	.00292	.06507	.18483
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	15082	--	--	--	--	--	--
SDev	17.00578	--	--	--	--	--	--
%RSD	.1127527	--	--	--	--	--	--
#1	15070	--	--	--	--	--	--
#2	15094	--	--	--	--	--	--

Method: METTRA Sample Name: DL4KC Operator: MTW
Run Time: 10/18/00 10:48:04
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	.00043	83.881	.03008	.89001	.00600	320.76	.00028
SDev	.00017	.258	.00023	.00151	.00006	.84	.00021
%RSD	39.224	.30767	.76722	.16943	1.0148	.26104	74.939
#1	.00031	83.698	.02992	.89107	.00604	321.35	.00013
#2	.00055	84.063	.03024	.88894	.00596	320.17	.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	.07308	.12530	.23019	170.76	77.729	5.2679	.00076
SDev	.00009	.00026	.00014	.06	.076	.0027	.00038
%RSD	.12615	.20822	.05930	.03763	.09841	.05213	50.517
#1	.07301	.12512	.23009	170.81	77.783	5.2699	.00049
#2	.07314	.12549	.23028	170.71	77.675	5.2660	.00103
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	.14918	.04296	.04154	.04201	.00217	.00324	.00288
SDev	.00100	.00065	.00095	.00042	.00137	.00173	.00161
%RSD	.67258	1.5087	2.2774	.98838	63.010	53.320	55.752
#1	.14989	.04341	.04087	.04172	.00120	.00202	.00175
#2	.14847	.04250	.04221	.04231	.00314	.00446	.00402
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	-.00059	-.00035	-.00043	.00214	.18920	.36508
SDev	.00190	.00026	.00046	.00185	.00026	.00090
%RSD	321.07	74.013	107.93	86.276	.13457	.24785
#1	.00075	-.00053	-.00010	.00083	.18938	.36572
#2	-.00194	-.00017	-.00076	.00344	.18902	.36444
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	15765	--	--	--	--	--	--
SDev	56.85166	--	--	--	--	--	--
%RSD	.3606263	--	--	--	--	--	--
#1	15724	--	--	--	--	--	--
#2	15805	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-3 Operator: MTW
Run Time: 10/18/00 10:52:14
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	1.0207	24.013	.51187	1.9993	2.0370	50.702	.49125
SDev	.0021	.082	.00207	.0083	.0031	.067	.00093
%RSD	.20724	.34222	.40366	.41766	.15213	.13153	.18993
#1	1.0222	24.071	.51333	2.0052	2.0392	50.749	.49191
#2	1.0192	23.955	.51041	1.9934	2.0348	50.655	.49059
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	2.0372	2.0300	1.9621	25.066	49.149	1.9928	2.0494
SDev	.0035	.0010	.0055	.019	.054	.0017	.0052
%RSD	.17377	.05120	.28252	.07452	.11018	.08313	.25365
#1	2.0397	2.0307	1.9660	25.079	49.187	1.9940	2.0457
#2	2.0347	2.0292	1.9582	25.053	49.111	1.9916	2.0531
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	2.0017	.50544	.50458	.50487	.51134	.51060	.51084
SDev	.0086	.00069	.00204	.00159	.00080	.00688	.00432
%RSD	.43032	.13703	.40426	.31517	.15573	1.3477	.84658
#1	2.0078	.50495	.50314	.50374	.51190	.50573	.50779
#2	1.9956	.50593	.50602	.50599	.51078	.51546	.51390
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	.51499	.51963	.51809	1.0307	2.0138	2.0269
SDev	.00030	.00033	.00032	.0090	.0032	.0009
%RSD	.05898	.06389	.06227	.87008	.15796	.04620
#1	.51477	.51940	.51786	1.0244	2.0160	2.0275
#2	.51520	.51987	.51831	1.0370	2.0115	2.0262
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14812	--	--	--	--	--	--
SDev	39.35008	--	--	--	--	--	--
%RSD	.2656595	--	--	--	--	--	--
#1	14840	--	--	--	--	--	--
#2	14784	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3 Operator: MTW
Run Time: 10/18/00 10:56:23
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	.00010	-.00408	-.00022	.00082	.00126	.07095	.00031
SDev	.00037	.00321	.00031	.00002	.00011	.00757	.00016
%RSD	377.94	78.538	136.89	1.9674	8.9070	10.664	52.327
#1	-.00016	-.00181	-.00044	.00081	.00134	.06560	.00020
#2	.00036	-.00635	-.00001	.00083	.00118	.07630	.00043
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	.00108	.00081	.00043	.02033	.02168	.00142	.00422
SDev	.00000	.00038	.00003	.00453	.00039	.00009	.00059
%RSD	.00000	47.091	7.9973	22.266	1.8071	6.5308	13.871
#1	.00108	.00108	.00040	.02353	.02195	.00135	.00463
#2	.00108	.00054	.00045	.01713	.02140	.00149	.00381
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	-.00030	.00069	-.00135	-.00067	-.00073	-.00127	-.00109
SDev	.00088	.00108	.00105	.00034	.00142	.00346	.00183
%RSD	292.43	157.20	78.139	51.250	195.79	271.44	168.08
#1	.00032	-.00008	-.00060	-.00043	.00028	-.00372	-.00239
#2	-.00093	.00145	-.00209	-.00091	-.00173	.00117	.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
Avge	.00264	.00340	.00315	-.00265	.00090	.00114
SDev	.00020	.00032	.00014	.00311	.00026	.00008
%RSD	7.7595	9.3261	4.5495	117.16	28.722	6.9181
#1	.00250	.00362	.00325	-.00045	.00109	.00120
#2	.00279	.00317	.00304	-.00485	.00072	.00109
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	14808	--	--	--	--	--	--
SDev	2.369222	--	--	--	--	--	--
%RSD	.0159991	--	--	--	--	--	--
#1	14807	--	--	--	--	--	--
#2	14810	--	--	--	--	--	--

Method: METTRA Sample Name: DL4KE Operator: MTW
Run Time: 10/18/00 11:00:32
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	88.906	.03338	.74776	.00575	595.71	.00070
SDev	.00034	.130	.00047	.00399	.00009	3.34	.00023
%RSD	143.61	.14620	1.4095	.53418	1.5912	.56091	32.527
#1	-.00048	88.997	.03372	.75059	.00582	598.07	.00054
#2	.00000	88.814	.03305	.74494	.00569	593.35	.00086
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	.07513	.13201	.28629	182.98	88.224	6.9854	.00241
SDev	.00052	.00040	.00042	.32	.315	.0256	.00043
%RSD	.69319	.30028	.14614	.17254	.35721	.36704	17.916
#1	.07550	.13229	.28659	183.20	88.447	7.0035	.00271
#2	.07476	.13173	.28600	182.76	88.001	6.9672	.00210
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	.16008	.04613	.04571	.04585	.00244	.00644	.00510
SDev	.00229	.00077	.00166	.00085	.00324	.00094	.00045
%RSD	1.4275	1.6777	3.6326	1.8534	132.97	14.619	8.8339
#1	.16170	.04668	.04453	.04525	.00015	.00710	.00478
#2	.15847	.04558	.04688	.04645	.00473	.00577	.00542
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	-.00156	-.00073	-.00101	.00287	.19990	.38000
SDev	.00545	.00045	.00151	.00642	.00226	.00169
%RSD	350.24	61.843	150.14	223.63	1.1328	.44478
#1	.00230	-.00105	.00006	-.00167	.20150	.38120
#2	-.00541	-.00041	-.00208	.00741	.19830	.37881
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	14961	--	--	--	--	--	--
SDev	67.77660	--	--	--	--	--	--
%RSD	.4530090	--	--	--	--	--	--
#1	14914	--	--	--	--	--	--
#2	15009	--	--	--	--	--	--

Method: METTRA Sample Name: DL4KG Operator: MTW
Run Time: 10/18/00 11:04:41
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	-.00014	84.914	.02793	.92032	.00609	396.59	.00020
SDev	.00024	.694	.00077	.00322	.00006	.21	.00011
%RSD	166.80	.81687	2.7681	.35009	.96247	.05384	55.972
#1	.00003	84.424	.02738	.91804	.00605	396.74	.00012
#2	-.00032	85.405	.02847	.92260	.00613	396.44	.00028
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	.07137	.13456	.25149	173.04	86.733	5.9668	.00114
SDev	.00031	.00010	.00097	.46	.161	.0102	.00002
%RSD	.43312	.07688	.38579	.26568	.18562	.17059	1.4293
#1	.07158	.13463	.25081	172.71	86.619	5.9596	.00115
#2	.07115	.13449	.25218	173.36	86.847	5.9740	.00113
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	.16040	.04580	.04208	.04332	.00399	.00439	.00426
SDev	.00033	.00150	.00079	.00003	.00497	.00255	.00005
%RSD	.20775	3.2653	1.8721	.06341	124.57	58.170	1.1118
#1	.16016	.04685	.04152	.04330	.00048	.00620	.00429
#2	.16063	.04474	.04264	.04334	.00751	.00259	.00423
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	.00237	.00190	.00206	.00177	.20037	.36339
SDev	.00199	.00251	.00101	.00525	.00068	.00051
%RSD	83.869	131.77	49.047	297.12	.33963	.14145
#1	.00378	.00013	.00134	-.00195	.20086	.36303
#2	.00096	.00367	.00277	.00548	.19989	.36375
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	15808	--	--	--	--	--	--
SDev	93.19653	--	--	--	--	--	--
%RSD	.5895474	--	--	--	--	--	--
#1	15742	--	--	--	--	--	--
#2	15874	--	--	--	--	--	--

Method: METTRA Sample Name: DLA6E Operator: MTW
Run Time: 10/18/00 11:08:50
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	.00122	36.216	.04829	3.6002	.00312	145.91	.16289
SDev	.00003	.783	.00088	.0519	.00008	1.88	.00221
%RSD	2.2860	2.1634	1.8249	1.4409	2.5967	1.2883	1.3584
#1	.00124	35.662	.04767	3.5635	.00318	144.58	.16133
#2	.00120	36.770	.04891	3.6368	.00306	147.23	.16445
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	.04660	.50929	.81511	453.22	56.494	2.8293	.03340
SDev	.00019	.00710	.01345	7.62	.839	.0439	.00001
%RSD	.39938	1.3937	1.6496	1.6812	1.4853	1.5507	.03075
#1	.04673	.50427	.80560	447.83	55.900	2.7983	.03341
#2	.04647	.51431	.82462	458.60	57.087	2.8603	.03339
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	.25163	3.8730	3.7946	3.8207	.02963	.04146	.03752
SDev	.00100	.0462	.0986	.0811	.00296	.00112	.00024
%RSD	.39898	1.1933	2.5973	2.1234	9.9714	2.6929	.63748
#1	.25234	3.8403	3.7249	3.7634	.02754	.04225	.03736
#2	.25092	3.9057	3.8643	3.8781	.03172	.04067	.03769
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	.01376	.01805	.01662	.01979	.13495	4.3367
SDev	.00545	.00078	.00129	.00127	.00184	.0534
%RSD	39.580	4.3103	7.7904	6.4112	1.3611	1.2303
#1	.01761	.01750	.01753	.02069	.13625	4.2990
#2	.00991	.01860	.01570	.01889	.13365	4.3745
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	14500	--	--	--	--	--	--
SDev	172.2157	--	--	--	--	--	--
%RSD	1.187733	--	--	--	--	--	--
#1	14621	--	--	--	--	--	--
#2	14378	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-4 Operator: MTW
Run Time: 10/18/00 11:12:59
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	1.0095	23.655	.50832	1.9751	2.0117	50.023	.48548
SDev	.0027	.155	.00011	.0012	.0041	.162	.00110
%RSD	.26697	.65392	.02219	.06165	.20381	.32368	.22585
#1	1.0076	23.545	.50824	1.9742	2.0088	49.908	.48470
#2	1.0114	23.764	.50840	1.9760	2.0146	50.137	.48625
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	2.0125	2.0079	1.9406	24.801	48.573	1.9709	2.0268
SDev	.0061	.0076	.0036	.168	.176	.0065	.0098
%RSD	.30084	.37859	.18803	.67902	.36163	.33048	.48399
#1	2.0082	2.0025	1.9380	24.682	48.449	1.9663	2.0199
#2	2.0168	2.0133	1.9432	24.920	48.697	1.9755	2.0337
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	1.9717	.50009	.50066	.50047	.50625	.50311	.50416
SDev	.0078	.00579	.00413	.00469	.00334	.00407	.00383
%RSD	.39704	1.1575	.82592	.93625	.65966	.80893	.75902
#1	1.9772	.49599	.49773	.49715	.50389	.50023	.50145
#2	1.9662	.50418	.50358	.50378	.50861	.50599	.50686
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	.50758	.51553	.51288	1.0186	1.9889	2.0056
SDev	.00439	.00140	.00239	.0001	.0036	.0017
%RSD	.86446	.27089	.46651	.01269	.18259	.08719
#1	.50448	.51454	.51119	1.0185	1.9864	2.0044
#2	.51068	.51652	.51458	1.0187	1.9915	2.0069
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14828	--	--	--	--	--	--
SDev	47.94170	--	--	--	--	--	--
%RSD	.3233122	--	--	--	--	--	--
#1	14862	--	--	--	--	--	--
#2	14794	--	--	--	--	--	--

Method: METTRA Sample Name: CCB4 Operator: MTW
Run Time: 10/18/00 11:17:08
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	.00011	-.00491	.00022	.00097	.00121	.04890	.00004
SDev	.00015	.00138	.00041	.00023	.00000	.00621	.00004
%RSD	134.55	28.018	187.47	24.163	.08688	12.702	103.32
#1	.00022	-.00394	-.00007	.00080	.00120	.04451	.00001
#2	.00001	-.00589	.00050	.00113	.00121	.05329	.00007
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	.00042	.00029	.04227	.01951	.00113	.00447
SDev	.00015	.00009	.00044	.01273	.00655	.00028	.00144
%RSD	15.442	21.436	154.98	30.129	33.593	24.390	32.207
#1	.00087	.00036	-.00003	.03326	.01487	.00093	.00549
#2	.00108	.00049	.00060	.05127	.02414	.00132	.00345
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	-.00051	.00119	-.00122	-.00042	.00046	-.00118	-.00063
SDev	.00040	.00107	.00027	.00018	.00047	.00056	.00022
%RSD	77.795	90.394	22.205	42.275	102.52	47.717	34.380
#1	-.00023	.00195	-.00141	-.00029	.00080	-.00157	-.00078
#2	-.00079	.00043	-.00103	-.00054	.00013	-.00078	-.00048
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	.00026	.00165	.00119	.00607	.00018	.00156
SDev	.00223	.00044	.00045	.00327	.00078	.00067
%RSD	857.72	26.371	38.024	53.901	425.16	43.154
#1	.00183	.00134	.00151	.00376	-.00037	.00108
#2	-.00132	.00196	.00087	.00839	.00073	.00204
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	14783	--	--	--	--	--	--
SDev	42.32075	--	--	--	--	--	--
%RSD	.2862852	--	--	--	--	--	--
#1	14753	--	--	--	--	--	--
#2	14813	--	--	--	--	--	--

Method: METTRA Sample Name: DM84TB Operator: MTW
Run Time: 10/18/00 11:23:23
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	-.00003	.03701	-.00084	.00056	.00011	.06101	.00015
SDev	.00031	.01350	.00006	.00009	.00017	.00028	.00022
%RSD	1194.6	36.469	7.5785	15.918	161.51	.45113	151.64
#1	-.00025	.04655	-.00089	.00062	.00023	.06121	-.00001
#2	.00019	.02747	-.00080	.00050	-.00002	.06082	.00030
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	-.00025	.00093	.00093	.02878	.00708	.00221	.00153
SDev	.00004	.00005	.00031	.01539	.00081	.00012	.00036
%RSD	17.172	4.9514	33.081	53.462	11.482	5.3331	23.778
#1	-.00028	.00097	.00115	.03966	.00650	.00213	.00179
#2	-.00022	.00090	.00071	.01790	.00765	.00229	.00128
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	.00051	.00311	-.00108	.00031	-.00004	.00091	.00059
SDev	.00011	.00103	.00167	.00077	.00456	.00012	.00144
%RSD	21.349	33.138	154.17	246.36	10624.	12.581	242.45
#1	.00059	.00238	.00010	.00086	.00318	.00083	.00161
#2	.00043	.00384	-.00227	-.00023	-.00327	.00099	-.00042
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	-.00532	.00832	.00378	-.00652	-.00015	.00394
SDev	.00165	.00054	.00019	.00260	.00028	.00013
%RSD	30.997	6.5283	4.9353	39.970	190.04	3.2966
#1	-.00415	.00794	.00391	-.00467	.00005	.00385
#2	-.00649	.00871	.00365	-.00836	-.00035	.00404
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	13843	--	--	--	--	--	--
SDev	32.27901	--	--	--	--	--	--
%RSD	.2331713	--	--	--	--	--	--
#1	13821	--	--	--	--	--	--
#2	13866	--	--	--	--	--	--

Method: METTRA Sample Name: DM84TC Operator: MTW
Run Time: 10/18/00 11:27:33
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	.05177	2.0695	2.0505	2.0211	.05278	51.021	.04917
SDev	.00070	.0531	.0299	.0351	.00087	.922	.00118
%RSD	1.3580	2.5649	1.4597	1.7362	1.6416	1.8078	2.3968
#1	.05227	2.1071	2.0716	2.0459	.05340	51.673	.05000
#2	.05128	2.0320	2.0293	1.9963	.05217	50.368	.04834
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	.51467	.20779	.25061	.90934	49.453	.50418	1.0409
SDev	.00768	.00378	.00446	.02719	.854	.00852	.0174
%RSD	1.4928	1.8197	1.7793	2.9905	1.7270	1.6906	1.6750
#1	.52011	.21046	.25376	.92857	50.057	.51021	1.0532
#2	.50924	.20511	.24746	.89011	48.849	.49816	1.0286
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	.50437	.50793	.49991	.50258	.48911	.50506	.49975
SDev	.01241	.00239	.01073	.00795	.00695	.00641	.00659
%RSD	2.4599	.47046	2.1458	1.5820	1.4209	1.2701	1.3192
#1	.51314	.50962	.50750	.50820	.49403	.50960	.50441
#2	.49560	.50624	.49233	.49696	.48420	.50053	.49509
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	2.0001	2.0058	2.0039	2.1132	.51092	.52061
SDev	.0259	.0348	.0318	.0369	.00758	.00799
%RSD	1.2928	1.7360	1.5887	1.7453	1.4826	1.5347
#1	2.0184	2.0304	2.0264	2.1393	.51627	.52626
#2	1.9818	1.9812	1.9814	2.0871	.50556	.51496
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14400	--	--	--	--	--	--
SDev	198.1315	--	--	--	--	--	--
%RSD	1.375903	--	--	--	--	--	--
#1	14260	--	--	--	--	--	--
#2	14540	--	--	--	--	--	--

Method: METTRA Sample Name: DM650 Operator: MTW
Run Time: 10/18/00 11:31:42
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	.00081	141.17	.08194	1.7667	.00711	321.50	.00139
SDev	.00036	1.52	.00389	.0319	.00017	4.96	.00041
%RSD	44.108	1.0801	4.7472	1.8034	2.4532	1.5437	29.701
#1	.00056	142.24	.08469	1.7892	.00723	325.01	.00110
#2	.00107	140.09	.07919	1.7442	.00698	317.99	.00169
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	.06599	.16874	.23088	163.25	23.485	4.8848	.00807
SDev	.00004	.00220	.00348	2.31	.349	.0745	.00179
%RSD	.06402	1.3032	1.5074	1.4158	1.4873	1.5241	22.125
#1	.06602	.17029	.23334	164.89	23.732	4.9375	.00934
#2	.06596	.16718	.22842	161.62	23.238	4.8322	.00681
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	.14960	.34017	.33160	.33446	.01195	.01103	.01134
SDev	.00562	.00966	.00028	.00303	.00300	.00250	.00067
%RSD	3.7598	2.8390	.08399	.90601	25.088	22.655	5.8950
#1	.15358	.34700	.33140	.33660	.00983	.01280	.01181
#2	.14562	.33335	.33180	.33231	.01407	.00926	.01087
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	.00472	.00121	.00238	.01116	.30350	.62058
SDev	.00526	.00310	.00031	.00430	.00541	.01133
%RSD	111.59	255.38	13.148	38.522	1.7836	1.8256
#1	.00844	-.00098	.00216	.01419	.30733	.62859
#2	.00099	.00340	.00260	.00812	.29968	.61257
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	15793	--	--	--	--	--	--
SDev	232.4255	--	--	--	--	--	--
%RSD	1.471727	--	--	--	--	--	--
#1	15628	--	--	--	--	--	--
#2	15957	--	--	--	--	--	--

Method: METTRA Sample Name: DM650P5 Operator: MTW
Run Time: 10/18/00 11:35:51
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	29.412	.01847	.38755	.00218	72.665	.00043
SDev	.00114	.400	.00155	.00363	.00026	1.065	.00021
%RSD	683.42	1.3607	8.3910	.93529	12.158	1.4654	49.232
#1	-.00097	29.129	.01738	.38498	.00237	71.912	.00028
#2	.00064	29.695	.01957	.39011	.00199	73.418	.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	.01476	.03748	.04769	35.892	5.0794	1.0715	.00242
SDev	.00100	.00061	.00138	.583	.0811	.0165	.00007
%RSD	6.8025	1.6197	2.8988	1.6250	1.5959	1.5367	2.8532
#1	.01405	.03705	.04672	35.480	5.0221	1.0598	.00237
#2	.01547	.03791	.04867	36.305	5.1368	1.0831	.00247
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	.03318	.07591	.07291	.07391	.00165	.00341	.00282
SDev	.00037	.00007	.00165	.00108	.00076	.00280	.00212
%RSD	1.1172	.09708	2.2674	1.4587	45.965	81.937	74.957
#1	.03344	.07596	.07174	.07314	.00218	.00539	.00432
#2	.03291	.07585	.07408	.07467	.00111	.00144	.00133
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	.00298	.00177	.00217	.00425	.06577	.13733
SDev	.00298	.00106	.00029	.00141	.00113	.00255
%RSD	100.02	59.764	13.166	33.216	1.7118	1.8561
#1	.00508	.00102	.00237	.00525	.06498	.13553
#2	.00087	.00252	.00197	.00325	.06657	.13913
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	15122	--	--	--	--	--	--
SDev	258.2708	--	--	--	--	--	--
%RSD	1.707934	--	--	--	--	--	--
#1	15304	--	--	--	--	--	--
#2	14939	--	--	--	--	--	--

Method: METTRA Sample Name: DM650S Operator: MTW
Run Time: 10/18/00 11:40:00
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	.04622	137.50	1.8310	3.2724	.05104	407.42	.04110
SDev	.00133	.96	.0097	.0114	.00003	2.97	.00028
%RSD	2.8662	.70160	.52981	.34850	.05212	.72943	.67422
#1	.04528	136.82	1.8241	3.2643	.05102	405.32	.04091
#2	.04715	138.18	1.8379	3.2804	.05106	409.52	.04130
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	.49344	.32758	.41008	154.37	66.836	4.8482	.86955
SDev	.00600	.00381	.00288	1.47	.606	.0419	.01016
%RSD	1.2161	1.1647	.70139	.95328	.90626	.86496	1.1686
#1	.48920	.32489	.40804	153.33	66.407	4.8186	.86237
#2	.49769	.33028	.41211	155.41	67.264	4.8779	.87674
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	.56355	.68735	.67070	.67624	.38106	.39358	.38941
SDev	.00115	.01456	.01645	.01582	.01176	.00851	.00959
%RSD	.20501	2.1191	2.4532	2.3401	3.0873	2.1612	2.4629
#1	.56273	.67705	.65906	.66505	.37274	.38756	.38263
#2	.56436	.69765	.68233	.68743	.38938	.39959	.39619
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	1.7180	1.7104	1.7129	1.8208	.71776	.97450
SDev	.0253	.0398	.0349	.0178	.00445	.00974
%RSD	1.4725	2.3250	2.0402	.97981	.62064	.99983
#1	1.7001	1.6823	1.6882	1.8081	.71461	.96761
#2	1.7359	1.7385	1.7376	1.8334	.72091	.98139
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	15785	--	--	--	--	--	--
SDev	196.8940	--	--	--	--	--	--
%RSD	1.247319	--	--	--	--	--	--
#1	15925	--	--	--	--	--	--
#2	15646	--	--	--	--	--	--

Method: METTRA Sample Name: DM650D Operator: MTW
Run Time: 10/18/00 11:44:10
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	.05045	152.34	1.9892	3.5890	.05501	329.73	.04559
SDev	.00032	1.69	.0216	.0314	.00039	3.31	.00050
%RSD	.62715	1.1107	1.0860	.87525	.70247	1.0024	1.0987
#1	.05067	151.14	1.9739	3.5668	.05474	327.39	.04523
#2	.05023	153.54	2.0045	3.6112	.05529	332.07	.04594
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	.54645	.36023	.49411	170.93	72.240	5.6779	.95832
SDev	.00677	.00375	.00405	1.98	.684	.0600	.00997
%RSD	1.2380	1.0420	.81906	1.1560	.94620	1.0573	1.0399
#1	.54167	.35758	.49125	169.53	71.757	5.6354	.95127
#2	.55123	.36288	.49697	172.32	72.723	5.7203	.96536
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	.62107	.77345	.75498	.76113	.42747	.44072	.43631
SDev	.00331	.00719	.01259	.01079	.00954	.00490	.00645
%RSD	.53285	.92994	1.6673	1.4178	2.2320	1.1123	1.4776
#1	.61873	.76836	.74608	.75350	.42073	.43725	.43175
#2	.62341	.77853	.76388	.76876	.43422	.44418	.44087
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	1.8588	1.8462	1.8504	1.9749	.78749	1.0901
SDev	.0135	.0214	.0188	.0239	.01153	.0114
%RSD	.72399	1.1600	1.0141	1.2098	1.4640	1.0502
#1	1.8492	1.8310	1.8371	1.9580	.77933	1.0820
#2	1.8683	1.8613	1.8636	1.9918	.79564	1.0982
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	14829	--	--	--	--	--	--
SDev	74.10465	--	--	--	--	--	--
%RSD	.4997397	--	--	--	--	--	--
#1	14881	--	--	--	--	--	--
#2	14776	--	--	--	--	--	--

Method: METTRA Sample Name: DM650P5 RERUN Operator: MTW
Run Time: 10/18/00 11:49:17
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	-.00052	29.970	.02015	.40218	.00292	75.364	-.00003
SDev	.00049	.657	.00014	.00319	.00143	.494	.00038
%RSD	93.456	2.1934	.68905	.79450	48.955	.65521	1140.8
#1	-.00087	29.505	.02005	.40444	.00393	75.713	-.00030
#2	-.00018	30.434	.02025	.39992	.00191	75.015	.00023
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	.01490	.03814	.04809	36.907	5.2423	1.1052	.00212
SDev	.00019	.00046	.00207	.197	.0017	.0024	.00058
%RSD	1.2812	1.1960	4.3077	.53389	.03310	.21353	27.307
#1	.01476	.03782	.04662	36.768	5.2436	1.1035	.00171
#2	.01503	.03846	.04955	37.046	5.2411	1.1069	.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
Avge	.03507	.08008	.07558	.07708	.00398	.00360	.00373
SDev	.00158	.00203	.00133	.00021	.00323	.00202	.00242
%RSD	4.4923	2.5349	1.7531	.26958	81.131	55.956	64.897
#1	.03618	.07865	.07652	.07723	.00626	.00503	.00544
#2	.03395	.08152	.07465	.07694	.00170	.00218	.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
Avge	-.00204	.00143	.00028	.00732	.06930	.14556
SDev	.00305	.00428	.00184	.00050	.00138	.00341
%RSD	149.64	299.33	667.55	6.8407	1.9884	2.3447
#1	.00012	-.00160	-.00103	.00767	.07028	.14797
#2	-.00419	.00446	.00158	.00696	.06833	.14315
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	14705	--	--	--	--	--	--
SDev	37.75909	--	--	--	--	--	--
%RSD	.2567763	--	--	--	--	--	--
#1	14678	--	--	--	--	--	--
#2	14732	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5 Operator: MTW
Run Time: 10/18/00 11:53:26
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	1.0111	23.556	.50428	1.9761	2.0091	50.004	.48354
SDev	.0122	.368	.00443	.0360	.0239	.647	.00603
%RSD	1.2102	1.5610	.87817	1.8205	1.1883	1.2932	1.2473
#1	1.0197	23.816	.50741	2.0015	2.0260	50.461	.48780
#2	1.0024	23.296	.50115	1.9507	1.9922	49.547	.47927
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	2.0099	2.0080	1.9372	24.614	48.617	1.9743	2.0282
SDev	.0215	.0237	.0269	.312	.603	.0224	.0154
%RSD	1.0721	1.1822	1.3897	1.2673	1.2397	1.1356	.75835
#1	2.0251	2.0248	1.9562	24.835	49.044	1.9902	2.0391
#2	1.9947	1.9912	1.9181	24.394	48.191	1.9585	2.0173
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	1.9653	.50056	.49781	.49872	.50949	.50763	.50825
SDev	.0288	.00443	.00078	.00096	.00049	.00180	.00137
%RSD	1.4632	.88444	.15596	.19176	.09715	.35506	.26897
#1	1.9856	.49743	.49836	.49805	.50914	.50635	.50728
#2	1.9450	.50369	.49726	.49940	.50984	.50890	.50922
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	.51167	.51668	.51501	1.0167	1.9905	1.9971
SDev	.00155	.00209	.00088	.0162	.0322	.0243
%RSD	.30335	.40387	.16989	1.5896	1.6168	1.2174
#1	.51057	.51816	.51563	1.0281	2.0133	2.0143
#2	.51277	.51521	.51439	1.0053	1.9678	1.9799
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14712	--	--	--	--	--	--
SDev	10.32348	--	--	--	--	--	--
%RSD	.0701684	--	--	--	--	--	--
#1	14720	--	--	--	--	--	--
#2	14705	--	--	--	--	--	--

Method: METTRA Sample Name: CCB5 Operator: MTW
Run Time: 10/18/00 11:57:36
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	.00058	-.00590	.00169	.00086	.00132	.05395	.00025
SDev	.00044	.00668	.00011	.00011	.00013	.00214	.00000
%RSD	76.438	113.19	6.3426	12.418	9.5826	3.9671	.06848
#1	.00027	-.01062	.00177	.00078	.00123	.05243	.00025
#2	.00089	-.00118	.00162	.00093	.00141	.05546	.00025
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	.00081	.00107	.00070	.02419	.01683	.00108	.00461
SDev	.00068	.00092	.00010	.00235	.00819	.00021	.00042
%RSD	83.336	86.223	14.861	9.7118	48.663	19.371	9.0597
#1	.00033	.00042	.00062	.02585	.01104	.00094	.00431
#2	.00129	.00172	.00077	.02252	.02263	.00123	.00490
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	.00254	-.00069	.00039	-.00161	.00225	.00096
SDev	.00049	.00235	.00209	.00061	.00565	.00224	.00039
%RSD	122.92	92.642	302.95	158.38	351.64	99.558	40.684
#1	.00005	.00088	.00079	.00082	.00239	.00066	.00124
#2	.00075	.00420	-.00217	-.00005	-.00561	.00383	.00069
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	.00202	.00109	.00140	.00204	.00055	.00231
SDev	.00372	.00343	.00105	.00227	.00129	.00055
%RSD	183.77	314.20	74.976	111.41	236.50	23.711
#1	-.00061	.00352	.00215	.00364	-.00037	.00192
#2	.00465	-.00133	.00066	.00043	.00146	.00270
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	14725	--	--	--	--	--	--
SDev	5.267393	--	--	--	--	--	--
%RSD	.0357728	--	--	--	--	--	--
#1	14721	--	--	--	--	--	--
#2	14728	--	--	--	--	--	--

Method: METTRA Sample Name: DNAR0B Operator: MTW
Run Time: 10/18/00 12:07:55
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	-.00013	-.01787	-.00017	.00043	.00095	.04261	.00009
SDev	.00031	.00809	.00129	.00015	.00015	.00211	.00002
%RSD	250.79	45.262	750.66	35.060	16.003	4.9525	25.274
#1	.00010	-.02359	.00074	.00053	.00106	.04112	.00010
#2	-.00035	-.01215	-.00108	.00032	.00084	.04410	.00007
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	.00038	.00049	.00028	.01339	.00275	.00097	.00129
SDev	.00038	.00012	.00018	.02197	.00310	.00003	.00062
%RSD	100.10	23.760	62.435	164.10	112.65	3.1885	47.824
#1	.00066	.00057	.00016	.02892	.00494	.00099	.00086
#2	.00011	.00041	.00041	-.00215	.00056	.00095	.00173
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	-.00016	.00435	.00094	.00207	.00031	.00107	.00081
SDev	.00147	.00397	.00014	.00123	.00126	.00321	.00256
%RSD	907.76	91.224	14.875	59.290	402.13	301.20	314.10
#1	.00088	.00155	.00103	.00120	-.00058	-.00120	-.00099
#2	-.00120	.00716	.00084	.00294	.00120	.00333	.00262
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	-.00585	.00503	.00141	-.00412	.00018	.00298
SDev	.00547	.00106	.00253	.00294	.00026	.00018
%RSD	93.521	21.058	179.74	71.406	144.74	5.9851
#1	-.00971	.00428	-.00038	-.00620	-.00000	.00310
#2	-.00198	.00577	.00319	-.00204	.00037	.00285
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	14693	--	--	--	--	--	--
SDev	150.1186	--	--	--	--	--	--
%RSD	1.021698	--	--	--	--	--	--
#1	14799	--	--	--	--	--	--
#2	14587	--	--	--	--	--	--

Method: METTRA Sample Name: DNAR0C Operator: MTW
Run Time: 10/18/00 12:12:04
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	.05025	1.8216	2.0402	2.0161	.05306	L.08551	.04983
SDev	.00017	.0089	.0010	.0041	.00034	.00166	.00017
%RSD	.34527	.49108	.04802	.20156	.63218	1.9351	.33775
#1	.05037	1.8153	2.0395	2.0133	.05282	L.08434	.04971
#2	.05012	1.8280	2.0409	2.0190	.05329	L.08668	.04995
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
Avge	.52624	.20861	.24606	1.0119	L-.00197	.50586	L.00130
SDev	.00018	.00015	.00113	.0020	.00120	.00064	.00018
%RSD	.03461	.07244	.45906	.19580	60.754	.12585	14.154
#1	.52637	.20872	.24526	1.0133	L-.00112	.50541	L.00143
#2	.52611	.20851	.24685	1.0105	L-.00282	.50631	L.00117
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
Avge	.51243	.50294	.50139	.50191	.00134	.00015	L.00055
SDev	.00079	.00153	.00203	.00187	.00056	.00054	.00017
%RSD	.15412	.30524	.40561	.37212	41.835	351.32	31.524
#1	.51298	.50403	.50283	.50323	.00173	-.00023	L.00043
#2	.51187	.50186	.49995	.50059	.00094	.00053	L.00067
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
Avge	1.9690	1.9695	1.9694	2.0340	.50812	.52277
SDev	.0086	.0237	.0187	.0017	.00057	.00002
%RSD	.43915	1.2055	.95031	.08282	.11320	.00326
#1	1.9752	1.9863	1.9826	2.0352	.50772	.52279
#2	1.9629	1.9527	1.9561	2.0328	.50853	.52276
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14330	--	--	--	--	--	--
SDev	58.83142	--	--	--	--	--	--
%RSD	.4105444	--	--	--	--	--	--
#1	14288	--	--	--	--	--	--
#2	14372	--	--	--	--	--	--

Method: METTRA Sample Name: DM4TQ Operator: MTW
Run Time: 10/18/00 12:16:19
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	.00151	65.151	.13813	5.0244	.01000	84.837	.00793
SDev	.00039	.115	.00009	.0197	.00000	.689	.00014
%RSD	25.825	.17587	.06507	.39252	.01038	.81272	1.7011
#1	.00178	65.232	.13807	5.0384	.01000	85.324	.00802
#2	.00123	65.070	.13820	5.0105	.01000	84.349	.00783
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	.14685	.81312	5.2821	292.40	51.202	3.9960	.08699
SDev	.00127	.00762	.0249	1.73	.371	.0304	.00057
%RSD	.86424	.93741	.47119	.59324	.72423	.76044	.65239
#1	.14775	.81851	5.2997	293.63	51.464	4.0175	.08739
#2	.14595	.80773	5.2645	291.18	50.940	3.9745	.08659
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	.40333	3.0742	3.0339	3.0473	.00740	.01646	.01344
SDev	.00531	.0586	.0364	.0438	.00150	.00130	.00036
%RSD	1.3176	1.9064	1.2007	1.4378	20.297	7.8839	2.7155
#1	.40708	3.1156	3.0596	3.0783	.00634	.01738	.01370
#2	.39957	3.0327	3.0081	3.0163	.00847	.01554	.01319
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	.00672	.00586	.00615	.02220	.18794	H10.084
SDev	.00086	.00120	.00109	.00409	.00276	.106
%RSD	12.850	20.536	17.736	18.411	1.4689	1.0518
#1	.00734	.00671	.00692	.02509	.18990	H10.159
#2	.00611	.00501	.00538	.01931	.18599	H10.009
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	16523	--	--	--	--	--	--
SDev	231.3655	--	--	--	--	--	--
%RSD	1.400272	--	--	--	--	--	--
#1	16359	--	--	--	--	--	--
#2	16686	--	--	--	--	--	--

Method: METTRA Sample Name: DM4TV Operator: MTW
Run Time: 10/18/00 12:20:33
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	.00203	34.364	.03215	1.0413	.00554	52.147	.00411
SDev	.00004	.095	.00048	.0050	.00017	.218	.00001
%RSD	2.0126	.27565	1.5004	.48239	3.1525	.41843	.23357
#1	.00205	34.431	.03181	1.0448	.00567	52.301	.00411
#2	.00200	34.297	.03250	1.0377	.00542	51.992	.00412
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	.09824	.19819	9.5718	122.84	28.118	2.5681	.01552
SDev	.00050	.00027	.0362	.17	.084	.0062	.00024
%RSD	.51104	.13721	.37832	.14060	.29778	.24232	1.5298
#1	.09859	.19839	9.5974	122.97	28.177	2.5725	.01568
#2	.09788	.19800	9.5462	122.72	28.059	2.5637	.01535
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	.29373	2.3533	2.3324	2.3394	.00703	.00925	.00851
SDev	.00235	.0003	.0075	.0051	.00077	.00004	.00023
%RSD	.79977	.01234	.32206	.21831	10.956	.40404	2.7221
#1	.29539	2.3531	2.3271	2.3358	.00649	.00927	.00834
#2	.29207	2.3535	2.3377	2.3430	.00758	.00922	.00867
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	-.00016	.00616	.00406	.00407	.09217	H5.3514
SDev	.00245	.00136	.00009	.00175	.00096	.0217
%RSD	1566.0	22.014	2.1925	42.894	1.0449	.40467
#1	.00158	.00520	.00400	.00284	.09149	H5.3668
#2	-.00189	.00712	.00412	.00530	.09285	H5.3361
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	15299	--	--	--	--	--	--
SDev	67.63435	--	--	--	--	--	--
%RSD	.4420856	--	--	--	--	--	--
#1	15251	--	--	--	--	--	--
#2	15347	--	--	--	--	--	--

Method: METTRA Sample Name: DM4TX Operator: MTW
Run Time: 10/18/00 12:24:47
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	.00294	15.269	.01625	H24.171	.00252	15.453	.00229
SDev	.00003	.051	.00048	.030	.00011	.010	.00023
%RSD	.85250	.33150	2.9813	.12369	4.5217	.06773	10.094
#1	.00292	15.234	.01590	H24.192	.00260	15.446	.00213
#2	.00295	15.305	.01659	H24.150	.00244	15.461	.00245
Errors	LC Pass	LC Pass	LC Pass	LC High	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	.10315	.13279	H11.712	119.61	6.6074	1.2918	.01285
SDev	.00047	.00016	.003	.27	.0024	.0019	.00015
%RSD	.45295	.12386	.02632	.22821	.03563	.14595	1.1464
#1	.10348	.13267	H11.710	119.41	6.6057	1.2905	.01295
#2	.10282	.13290	H11.715	119.80	6.6091	1.2931	.01275
Errors	LC Pass	LC Pass	LC High	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	.17426	3.3446	3.3244	3.3311	.01305	.01530	.01455
SDev	.00008	.0000	.0248	.0166	.00273	.00285	.00099
%RSD	.04355	.00040	.74651	.49705	20.904	18.632	6.8257
#1	.17432	3.3445	3.3068	3.3194	.01112	.01732	.01526
#2	.17421	3.3446	3.3419	3.3428	.01498	.01329	.01385
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	-.00338	.00668	.00333	.01103	.04675	H5.4913
SDev	.00529	.00142	.00271	.00261	.00117	.0014
%RSD	156.69	21.197	81.336	23.632	2.5088	.02470
#1	.00036	.00768	.00524	.00918	.04758	H5.4923
#2	-.00712	.00567	.00141	.01287	.04592	H5.4903
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	14977	--	--	--	--	--	--
SDev	18.38478	--	--	--	--	--	--
%RSD	.1227522	--	--	--	--	--	--
#1	14990	--	--	--	--	--	--
#2	14964	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T0 Operator: MTW
Run Time: 10/18/00 12:29:01
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	.00198	9.2057	.01103	.12290	.00206	11.470	.00322
SDev	.00043	.2394	.00132	.00208	.00026	.217	.00019
%RSD	21.699	2.6000	11.949	1.6901	12.572	1.8891	5.8510
#1	.00229	9.0365	.01010	.12143	.00224	11.316	.00308
#2	.00168	9.3750	.01196	.12437	.00187	11.623	.00335
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	.02107	.04616	9.4798	45.052	3.6023	.52076	.01326
SDev	.00049	.00061	.1863	.906	.0704	.01000	.00018
%RSD	2.3453	1.3188	1.9654	2.0101	1.9548	1.9202	1.3313
#1	.02072	.04573	9.3480	44.412	3.5525	.51369	.01339
#2	.02142	.04659	9.6115	45.693	3.6521	.52783	.01314
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	.08506	1.2606	1.2558	1.2574	-.00062	.00525	.00330
SDev	.00010	.0143	.0195	.0178	.00384	.00478	.00191
%RSD	.12096	1.1321	1.5523	1.4120	614.85	91.092	58.063
#1	.08499	1.2505	1.2420	1.2448	-.00334	.00863	.00465
#2	.08513	1.2707	1.2696	1.2699	.00209	.00187	.00194
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	.00006	.00498	.00334	.00393	.01766	3.7561
SDev	.00077	.00198	.00158	.00402	.00092	.0523
%RSD	1213.6	39.811	47.241	102.33	5.2110	1.3922
#1	-.00048	.00358	.00223	.00108	.01831	3.7191
#2	.00061	.00638	.00446	.00677	.01701	3.7931
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	15150	--	--	--	--	--	--
SDev	152.5231	--	--	--	--	--	--
%RSD	1.006720	--	--	--	--	--	--
#1	15258	--	--	--	--	--	--
#2	15043	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T1 Operator: MTW
Run Time: 10/18/00 12:33:11
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	.00176	13.243	.01678	.24196	.00262	12.719	.00240
SDev	.00006	.038	.00027	.00012	.00023	.031	.00017
%RSD	3.5237	.28940	1.6191	.05018	8.6970	.24647	7.0635
#1	.00171	13.216	.01697	.24187	.00278	12.696	.00228
#2	.00180	13.270	.01659	.24205	.00245	12.741	.00252
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	.23181	.56605	H12.588	52.138	6.4394	1.2688	.01153
SDev	.00024	.00272	.033	.208	.0240	.0047	.00062
%RSD	.10553	.48112	.26485	.39983	.37342	.36809	5.3403
#1	.23163	.56412	H12.564	51.991	6.4224	1.2655	.01197
#2	.23198	.56798	H12.612	52.286	6.4564	1.2721	.01110
Errors	LC Pass	LC Pass	LC High	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	.56769	2.4164	2.4119	2.4134	.00119	.00621	.00454
SDev	.00227	.0174	.0134	.0147	.00015	.00360	.00235
%RSD	.39909	.72083	.55458	.61001	12.477	58.041	51.886
#1	.56929	2.4041	2.4025	2.4030	.00108	.00876	.00620
#2	.56609	2.4287	2.4214	2.4238	.00129	.00366	.00287
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	-.00656	.00792	.00310	.00268	.04048	3.1110
SDev	.00134	.00199	.00089	.00172	.00017	.0079
%RSD	20.400	25.192	28.567	64.195	.41639	.25462
#1	-.00561	.00651	.00247	.00146	.04036	3.1054
#2	-.00750	.00933	.00373	.00390	.04060	3.1166
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	14746	--	--	--	--	--	--
SDev	61.30630	--	--	--	--	--	--
%RSD	.4157599	--	--	--	--	--	--
#1	14789	--	--	--	--	--	--
#2	14702	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T4 Operator: MTW
Run Time: 10/18/00 12:37:25
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	40.692	.04393	.63814	.01221	22.585	.00268
SDev	.00006	.580	.00119	.01026	.00007	.329	.00032
%RSD	25.000	1.4261	2.7168	1.6083	.61235	1.4552	12.047
#1	.00020	41.103	.04477	.64540	.01226	22.818	.00245
#2	.00028	40.282	.04309	.63088	.01216	22.353	.00291
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	.10959	.11928	.35522	175.10	12.593	8.8898	.00497
SDev	.00102	.00166	.00496	2.27	.174	.1219	.00093
%RSD	.93254	1.3876	1.3968	1.2936	1.3810	1.3717	18.626
#1	.11031	.12045	.35873	176.70	12.716	8.9760	.00431
#2	.10887	.11811	.35171	173.50	12.470	8.8036	.00562
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	.72129	.52676	.51746	.52055	.00916	.01249	.01138
SDev	.01371	.00574	.00503	.00527	.00038	.00058	.00026
%RSD	1.9008	1.0889	.97259	1.0118	4.1601	4.6498	2.2893
#1	.73099	.53081	.52101	.52428	.00943	.01208	.01120
#2	.71160	.52270	.51390	.51683	.00889	.01290	.01157
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	.00244	.00173	.00196	.00195	.16899	.95701
SDev	.00293	.00042	.00070	.00355	.00166	.01492
%RSD	120.14	24.044	35.527	182.00	.98193	1.5590
#1	.00451	.00143	.00246	-.00056	.17017	.96756
#2	.00037	.00202	.00147	.00446	.16782	.94646
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	17230	--	--	--	--	--	--
SDev	208.2789	--	--	--	--	--	--
%RSD	1.208803	--	--	--	--	--	--
#1	17083	--	--	--	--	--	--
#2	17377	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T4P5 Operator: MTW
Run Time: 10/18/00 12:41:34
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	8.9439	.00944	.14662	.00356	5.2131	.00069
SDev	.00011	.0437	.00212	.00076	.00005	.0367	.00003
%RSD	47.266	.48887	22.479	.52174	1.5244	.70461	4.9139
#1	-.00032	8.9748	.00794	.14716	.00360	5.2391	.00072
#2	-.00016	8.9130	.01094	.14608	.00352	5.1872	.00067
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	.02515	.02751	.07953	40.271	2.8667	2.0174	.00117
SDev	.00003	.00001	.00059	.142	.0152	.0102	.00024
%RSD	.11789	.05202	.74357	.35305	.52910	.50539	20.243
#1	.02517	.02750	.07995	40.372	2.8774	2.0246	.00134
#2	.02512	.02752	.07911	40.171	2.8559	2.0102	.00100
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	.16526	.11988	.11913	.11938	.00395	.00149	.00231
SDev	.00293	.00140	.00173	.00069	.00028	.00345	.00239
%RSD	1.7721	1.1709	1.4550	.57692	7.1467	230.73	103.51
#1	.16733	.11889	.12036	.11987	.00375	-.00094	.00062
#2	.16319	.12087	.11791	.11890	.00415	.00393	.00400
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	.00108	.00157	.00141	.00248	.03820	.22475
SDev	.00030	.00360	.00230	.00329	.00025	.00033
%RSD	27.603	229.11	163.68	132.78	.66214	.14788
#1	.00087	.00412	.00304	.00481	.03838	.22499
#2	.00129	-.00097	-.00022	.00015	.03802	.22452
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	15319	--	--	--	--	--	--
SDev	27.22361	--	--	--	--	--	--
%RSD	.1777160	--	--	--	--	--	--
#1	15338	--	--	--	--	--	--
#2	15299	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T4S Operator: MTW
Run Time: 10/18/00 12:45:44
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	.04419	55.956	1.7752	2.3834	.05476	32.032	.04394
SDev	.00059	.390	.0087	.0057	.00021	.109	.00025
%RSD	1.3321	.69696	.49036	.23805	.38353	.33952	.56591
#1	.04460	55.681	1.7814	2.3794	.05491	32.109	.04376
#2	.04377	56.232	1.7691	2.3874	.05462	31.955	.04411
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	.54284	.30651	.47679	186.35	21.215	6.2718	.00380
SDev	.00212	.00134	.00125	.07	.048	.0088	.00009
%RSD	.39125	.43602	.26173	.03821	.22769	.14043	2.3535
#1	.54434	.30745	.47591	186.30	21.249	6.2780	.00374
#2	.54133	.30556	.47768	186.40	21.181	6.2656	.00387
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	1.4448	.91303	.90370	.90681	.00501	.00875	.00750
SDev	.0124	.01348	.00368	.00694	.00147	.00007	.00044
%RSD	.85528	1.4764	.40741	.76582	29.275	.75880	5.9196
#1	1.4535	.92256	.90630	.91172	.00397	.00880	.00719
#2	1.4361	.90350	.90110	.90190	.00605	.00870	.00782
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	1.6655	1.6756	1.6723	1.7589	.60750	1.4546
SDev	.0227	.0068	.0121	.0054	.00284	.0103
%RSD	1.3635	.40534	.72311	.30523	.46810	.70714
#1	1.6815	1.6804	1.6808	1.7627	.60951	1.4618
#2	1.6494	1.6708	1.6637	1.7551	.60549	1.4473
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	16745	--	--	--	--	--	--
SDev	179.2861	--	--	--	--	--	--
%RSD	1.070670	--	--	--	--	--	--
#1	16618	--	--	--	--	--	--
#2	16872	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-6 Operator: MTW
Run Time: 10/18/00 12:49:53
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	1.0327	23.841	.51519	2.0125	2.0591	51.225	.49490
SDev	.0032	.063	.00112	.0022	.0063	.119	.00235
%RSD	.30808	.26379	.21754	.10908	.30475	.23242	.47436
#1	1.0349	23.796	.51598	2.0141	2.0635	51.309	.49656
#2	1.0304	23.885	.51440	2.0110	2.0546	51.140	.49324
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	2.0615	2.0553	1.9733	25.138	49.827	2.0197	2.0782
SDev	.0040	.0034	.0013	.017	.085	.0013	.0003
%RSD	.19384	.16399	.06783	.06645	.17093	.06503	.01457
#1	2.0644	2.0577	1.9743	25.127	49.887	2.0206	2.0780
#2	2.0587	2.0529	1.9724	25.150	49.767	2.0187	2.0784
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	2.0161	.51168	.51236	.51213	.51878	.51684	.51748
SDev	.0107	.00183	.00521	.00409	.00315	.00895	.00702
%RSD	.53305	.35813	1.0170	.79780	.60784	1.7319	1.3567
#1	2.0237	.51298	.51605	.51502	.52101	.52317	.52245
#2	2.0085	.51038	.50868	.50925	.51655	.51051	.51252
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	.52200	.53170	.52847	1.0403	2.0350	2.0372
SDev	.00163	.00486	.00270	.0111	.0070	.0097
%RSD	.31201	.91414	.51084	1.0714	.34426	.47615
#1	.52085	.53513	.53038	1.0482	2.0400	2.0440
#2	.52316	.52826	.52656	1.0324	2.0301	2.0303
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14538	--	--	--	--	--	--
SDev	70.99310	--	--	--	--	--	--
%RSD	.4883413	--	--	--	--	--	--
#1	14487	--	--	--	--	--	--
#2	14588	--	--	--	--	--	--

Method: METTRA Sample Name: CCB6 Operator: MTW
Run Time: 10/18/00 12:54:03
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	-.00042	-.00312	.00025	.00104	.00159	.04351	.00010
SDev	.00000	.00634	.00009	.00016	.00008	.00489	.00007
%RSD	.36797	202.82	33.990	15.046	5.2121	11.239	74.542
#1	-.00042	.00136	.00031	.00093	.00153	.04005	.00015
#2	-.00042	-.00761	.00019	.00115	.00164	.04697	.00005
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	.00108	.00012	.00095	.03962	.01208	.00167	.00441
SDev	.00000	.00020	.00053	.00925	.00304	.00015	.00037
%RSD	.00000	162.26	56.267	23.337	25.183	9.0442	8.3210
#1	.00108	-.00002	.00057	.04616	.00993	.00156	.00467
#2	.00108	.00027	.00133	.03308	.01423	.00178	.00415
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	-.00051	-.00023	.00270	.00172	.00096	-.00052	-.00003
SDev	.00117	.00150	.00088	.00109	.00169	.00058	.00095
%RSD	229.47	665.89	32.732	63.145	175.60	111.45	3777.4
#1	-.00134	.00084	.00332	.00249	.00215	-.00011	.00064
#2	.00032	-.00129	.00207	.00095	-.00023	-.00092	-.00069
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	.00169	.00160	.00163	.00500	-.00018	.00475
SDev	.00012	.00165	.00114	.00091	.00077	.00002
%RSD	7.0503	103.01	69.948	18.125	416.58	.32191
#1	.00177	.00277	.00244	.00436	-.00073	.00474
#2	.00160	.00044	.00082	.00564	.00036	.00477
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	14784	--	--	--	--	--	--
SDev	79.09031	--	--	--	--	--	--
%RSD	.5349660	--	--	--	--	--	--
#1	14728	--	--	--	--	--	--
#2	14840	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T4D Operator: MTW
Run Time: 10/18/00 12:58:12
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	.04386	54.609	1.7553	2.4848	.05528	21.608	.04381
SDev	.00024	.046	.0097	.0087	.00036	.100	.00032
%RSD	.54885	.08404	.55189	.35067	.64407	.46448	.71893
#1	.04403	54.641	1.7621	2.4910	.05553	21.679	.04403
#2	.04369	54.576	1.7484	2.4786	.05503	21.537	.04358
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	.53690	.31397	.55958	170.62	16.348	5.9202	.00512
SDev	.00133	.00119	.00168	.44	.081	.0200	.00019
%RSD	.24812	.37936	.29992	.25773	.49836	.33784	3.7673
#1	.53784	.31481	.56077	170.93	16.406	5.9343	.00498
#2	.53596	.31312	.55839	170.31	16.291	5.9060	.00525
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	1.0326	.99732	.97860	.98484	.00637	.00512	.00553
SDev	.0098	.00084	.00288	.00164	.00341	.00104	.00183
%RSD	.95181	.08451	.29467	.16680	53.621	20.267	33.044
#1	1.0396	.99792	.97656	.98367	.00395	.00439	.00424
#2	1.0257	.99673	.98064	.98600	.00878	.00585	.00683
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	1.6242	1.6198	1.6213	1.7540	.60407	1.5211
SDev	.0147	.0065	.0006	.0032	.00278	.0095
%RSD	.90625	.39868	.03666	.18462	.46028	.62447
#1	1.6346	1.6152	1.6217	1.7563	.60603	1.5278
#2	1.6138	1.6243	1.6208	1.7518	.60210	1.5144
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	16463	--	--	--	--	--	--
SDev	79.23048	--	--	--	--	--	--
%RSD	.4812500	--	--	--	--	--	--
#1	16407	--	--	--	--	--	--
#2	16520	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T5 Operator: MTW
Run Time: 10/18/00 13:02:22
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	.00107	64.977	.05222	.58213	.01346	65.682	.00606
SDev	.00034	.040	.00092	.00237	.00018	.404	.00010
%RSD	32.064	.06117	1.7536	.40754	1.3363	.61526	1.7142
#1	.00083	65.005	.05287	.58381	.01359	65.968	.00614
#2	.00131	64.948	.05157	.58046	.01333	65.396	.00599
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	.11858	.26104	8.0114	220.66	25.245	5.0921	.00975
SDev	.00092	.00164	.0239	.77	.124	.0235	.00066
%RSD	.77750	.62880	.29814	.34912	.49179	.46210	6.7653
#1	.11924	.26220	8.0282	221.20	25.333	5.1088	.01021
#2	.11793	.25988	7.9945	220.11	25.157	5.0755	.00928
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	.31802	1.4904	1.4757	1.4806	.00995	.01705	.01468
SDev	.00245	.0075	.0002	.0026	.00103	.00080	.00019
%RSD	.77181	.50222	.01204	.17634	10.399	4.7168	1.3072
#1	.31975	1.4957	1.4758	1.4824	.01068	.01648	.01455
#2	.31628	1.4851	1.4756	1.4788	.00922	.01762	.01482
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	.00494	.00086	.00222	.01686	.25659	4.6323
SDev	.00207	.00057	.00107	.00169	.00173	.0386
%RSD	41.853	65.904	48.081	10.023	.67350	.83421
#1	.00348	.00046	.00147	.01566	.25781	4.6596
#2	.00640	.00126	.00297	.01805	.25536	4.6050
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	17913	--	--	--	--	--	--
SDev	60.31538	--	--	--	--	--	--
%RSD	.3367044	--	--	--	--	--	--
#1	17871	--	--	--	--	--	--
#2	17956	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T6 Operator: MTW
Run Time: 10/18/00 13:06:32
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	.00957	100.97	.06564	.56744	.01172	58.227	.00963
SDev	.00020	.08	.00026	.00103	.00015	.138	.00024
%RSD	2.0745	.07919	.39528	.18237	1.3184	.23703	2.5090
#1	.00971	100.92	.06582	.56817	.01183	58.325	.00946
#2	.00943	101.03	.06545	.56670	.01162	58.130	.00980
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	.16329	.28543	H41.097	278.88	67.620	7.2028	.01634
SDev	.00006	.00046	.015	.34	.064	.0009	.00074
%RSD	.03349	.16128	.03706	.12030	.09423	.01277	4.5458
#1	.16333	.28576	H41.108	278.64	67.665	7.2034	.01686
#2	.16325	.28511	H41.086	279.11	67.575	7.2021	.01581
Errors	LC Pass	LC Pass	LC High	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	.49982	3.3995	3.3652	3.3766	.00553	.02461	.01825
SDev	.00302	.0009	.0102	.0071	.00531	.00505	.00160
%RSD	.60425	.02641	.30413	.21102	96.042	20.503	8.7496
#1	.50196	3.3989	3.3580	3.3716	.00177	.02817	.01938
#2	.49769	3.4001	3.3724	3.3817	.00928	.02104	.01712
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	.00867	.00150	.00389	.01350	.29150	H8.1568
SDev	.00225	.00148	.00173	.00044	.00234	.0154
%RSD	25.900	98.278	44.556	3.2384	.80289	.18921
#1	.01026	.00255	.00512	.01319	.29315	H8.1677
#2	.00709	.00046	.00267	.01381	.28984	H8.1459
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	16450	--	--	--	--	--	--
SDev	8.131728	--	--	--	--	--	--
%RSD	.0494322	--	--	--	--	--	--
#1	16456	--	--	--	--	--	--
#2	16444	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T7 Operator: MTW
Run Time: 10/18/00 13:10:46
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	-.00003	69.671	.04853	.52856	.01159	86.854	.00423
SDev	.00025	.026	.00035	.00276	.00021	.625	.00001
%RSD	707.33	.03772	.72150	.52236	1.7769	.71996	.19809
#1	-.00021	69.690	.04878	.53051	.01173	87.297	.00423
#2	.00014	69.653	.04829	.52661	.01144	86.412	.00424
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	.12718	.12842	.70982	241.64	38.236	4.4901	.00332
SDev	.00093	.00026	.00148	.60	.173	.0197	.00075
%RSD	.73276	.20160	.20856	.24709	.45344	.43959	22.659
#1	.12784	.12860	.71087	242.06	38.359	4.5041	.00385
#2	.12652	.12824	.70877	241.22	38.114	4.4761	.00279
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	.20828	.93711	.92224	.92719	.00804	.01169	.01047
SDev	.00291	.00980	.00356	.00089	.00018	.00037	.00019
%RSD	1.3981	1.0461	.38593	.09603	2.1903	3.1974	1.8198
#1	.21034	.94404	.91972	.92782	.00792	.01195	.01061
#2	.20623	.93018	.92475	.92656	.00816	.01142	.01034
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	-.00121	-.00120	-.00121	.00978	.16455	2.0148
SDev	.00396	.00220	.00015	.00183	.00394	.0115
%RSD	326.77	182.76	12.490	18.715	2.3938	.57221
#1	.00159	-.00276	-.00131	.01107	.16733	2.0230
#2	-.00401	.00035	-.00110	.00848	.16176	2.0067
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	17343	--	--	--	--	--	--
SDev	136.9660	--	--	--	--	--	--
%RSD	.7897572	--	--	--	--	--	--
#1	17246	--	--	--	--	--	--
#2	17440	--	--	--	--	--	--

Method: METTRA Sample Name: DM4T8 Operator: MTW
Run Time: 10/18/00 13:14:56
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	.00011	63.174	.04808	.58585	.01192	45.753	.00657
SDev	.00006	.456	.00075	.00015	.00002	.050	.00031
%RSD	57.830	.72246	1.5601	.02476	.19347	.10881	4.7301
#1	.00006	62.851	.04755	.58595	.01194	45.788	.00635
#2	.00015	63.497	.04861	.58574	.01190	45.718	.00679
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	.11429	.25545	3.9124	246.08	26.846	4.7170	.00855
SDev	.00066	.00011	.0072	.57	.008	.0015	.00014
%RSD	.57569	.04098	.18321	.23138	.02807	.03119	1.5733
#1	.11382	.25538	3.9074	245.68	26.840	4.7160	.00846
#2	.11475	.25553	3.9175	246.48	26.851	4.7180	.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
Avge	.30938	1.1632	1.1417	1.1488	.00646	.01444	.01178
SDev	.00130	.0098	.0067	.0012	.00185	.00362	.00179
%RSD	.42062	.84492	.58980	.10608	28.666	25.038	15.228
#1	.31031	1.1701	1.1369	1.1480	.00515	.01699	.01305
#2	.30846	1.1562	1.1464	1.1497	.00777	.01188	.01051
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	.00520	-.00052	.00139	.01238	.20666	H5.0626
SDev	.00383	.00325	.00089	.00175	.00097	.0157
%RSD	73.649	625.94	64.492	14.107	.47041	.31078
#1	.00791	-.00282	.00075	.01361	.20734	H5.0738
#2	.00249	.00178	.00202	.01114	.20597	H5.0515
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	17432	--	--	--	--	--	--
SDev	133.8545	--	--	--	--	--	--
%RSD	.7678577	--	--	--	--	--	--
#1	17338	--	--	--	--	--	--
#2	17527	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VA Operator: MTW
Run Time: 10/18/00 13:19:10
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	.00500	98.092	.22164	1.5932	.01299	39.936	.01185
SDev	.00055	.659	.00277	.0000	.00028	.032	.00015
%RSD	11.072	.67165	1.2487	.00250	2.1376	.08077	1.2336
#1	.00461	97.626	.22359	1.5932	.01319	39.914	.01175
#2	.00539	98.558	.21968	1.5932	.01280	39.959	.01195
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	.23213	.45799	.96764	352.00	32.240	7.7748	.01404
SDev	.00174	.00140	.00169	1.39	.054	.0215	.00022
%RSD	.75123	.30518	.17431	.39575	.16808	.27716	1.5934
#1	.23090	.45700	.96644	351.02	32.201	7.7596	.01420
#2	.23337	.45898	.96883	352.99	32.278	7.7901	.01388
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	.35713	39.388	39.388	H39.388	.06286	.06708	.06567
SDev	.00122	.025	.339	.218	.00463	.00209	.00015
%RSD	.34239	.06337	.86106	.55322	7.3620	3.1189	.22183
#1	.35627	39.405	39.148	H39.234	.05959	.06855	.06557
#2	.35800	39.370	39.628	H39.542	.06613	.06560	.06578
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.00461	.01283	.01009	.01829	.55740	3.0810
SDev	.00414	.00692	.00324	.00038	.00190	.0054
%RSD	89.858	53.925	32.050	2.0813	.34079	.17620
#1	.00754	.00794	.00781	.01856	.55874	3.0848
#2	.00168	.01772	.01238	.01802	.55606	3.0771
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	15904	--	--	--	--	--	--
SDev	9.616376	--	--	--	--	--	--
%RSD	.0604632	--	--	--	--	--	--
#1	15911	--	--	--	--	--	--
#2	15898	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VD Operator: MTW
Run Time: 10/18/00 13:23:25
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	.00331	100.57	.08719	.96323	.01623	258.74	.00965
SDev	.00012	.16	.00104	.00317	.00030	1.58	.00031
%RSD	3.5573	.16280	1.1890	.32955	1.8216	.60943	3.2033
#1	.00340	100.45	.08792	.96547	.01644	259.86	.00943
#2	.00323	100.69	.08646	.96098	.01602	257.63	.00987
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	.15302	.97610	1.3570	421.44	128.66	H30.594	.01099
SDev	.00125	.00495	.0041	1.21	.53	.120	.00213
%RSD	.81766	.50732	.30102	.28719	.40865	.39173	19.371
#1	.15390	.97960	1.3599	422.29	129.03	H30.679	.01249
#2	.15213	.97260	1.3541	420.58	128.29	H30.509	.00948
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
Avge	.24754	9.1921	8.9609	H9.0379	.02240	.02908	.02686
SDev	.00297	.0814	.0116	.0194	.00360	.00170	.00006
%RSD	1.1997	.88591	.12975	.21424	16.087	5.8614	.23478
#1	.24964	9.2497	8.9527	H9.0516	.01985	.03029	.02681
#2	.24544	9.1346	8.9692	H9.0242	.02495	.02788	.02690
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.01582	-.00903	-.00075	.01200	.91602	4.1557
SDev	.00109	.00202	.00171	.00474	.00769	.0342
%RSD	6.8880	22.361	227.83	39.531	.83938	.82223
#1	.01660	-.00760	.00046	.01536	.92145	4.1799
#2	.01505	-.01045	-.00196	.00865	.91058	4.1315
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	16577	--	--	--	--	--	--
SDev	151.1095	--	--	--	--	--	--
%RSD	.9115560	--	--	--	--	--	--
#1	16470	--	--	--	--	--	--
#2	16684	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VG Operator: MTW
Run Time: 10/18/00 13:27:39
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	.00443	81.274	.19092	1.2292	.01529	190.67	.01242
SDev	.00015	.478	.00146	.0034	.00002	.04	.00031
%RSD	3.3213	.58775	.76318	.27359	.15966	.02240	2.5004
#1	.00453	80.936	.18989	1.2268	.01531	190.64	.01220
#2	.00432	81.612	.19195	1.2316	.01527	190.70	.01264
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	.12949	2.5383	.67501	H528.52	102.11	H33.762	.04596
SDev	.00005	.0014	.00133	1.60	.14	.063	.00134
%RSD	.03530	.05396	.19729	.30363	.14052	.18780	2.9173
#1	.12946	2.5373	.67407	H527.39	102.01	H33.717	.04501
#2	.12952	2.5393	.67595	H529.66	102.21	H33.806	.04691
Errors	LC Pass	LC Pass	LC Pass	LC High	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
Avge	.24633	57.994	S71.036	k66.693	.06732	.07512	.07252
SDev	.00018	.115	.391	.299	.00089	.00017	.00041
%RSD	.07304	.19891	.54984	.44822	1.3298	.22044	.56336
#1	.24620	58.075	S71.312	k66.904	.06795	.07523	.07281
#2	.24645	57.912	S70.759	k66.481	.06668	.07500	.07223
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.02067	-.00661	.00247	.01739	1.1144	2.6670
SDev	.00029	.00285	.00199	.00064	.0008	.0021
%RSD	1.3841	43.071	80.692	3.6568	.07237	.08005
#1	.02047	-.00863	.00106	.01784	1.1138	2.6685
#2	.02087	-.00460	.00388	.01694	1.1150	2.6655
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	16972	--	--	--	--	--	--
SDev	93.30218	--	--	--	--	--	--
%RSD	.5497410	--	--	--	--	--	--
#1	16906	--	--	--	--	--	--
#2	17038	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VJ Operator: MTW
Run Time: 10/18/00 13:31:54
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	.00208	76.505	.17578	.89875	.01378	220.68	.01010
SDev	.00005	.169	.00154	.00526	.00022	1.00	.00011
%RSD	2.5855	.22069	.87505	.58533	1.5890	.45426	1.0939
#1	.00204	76.624	.17687	.90247	.01394	221.39	.01002
#2	.00212	76.385	.17469	.89503	.01363	219.98	.01018
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	.14852	.47993	4.2143	296.75	135.32	H13.128	.01157
SDev	.00046	.00129	.0151	.46	.46	.042	.00042
%RSD	.31118	.26956	.35839	.15419	.33869	.31795	3.6441
#1	.14885	.48085	4.2250	297.07	135.65	H13.157	.01128
#2	.14820	.47902	4.2036	296.42	135.00	H13.098	.01187
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
Avge	.28387	25.737	25.198	H25.377	.05586	.06168	.05974
SDev	.00299	.081	.057	.011	.00021	.00054	.00043
%RSD	1.0523	.31641	.22636	.04305	.36888	.87328	.71624
#1	.28599	25.794	25.157	H25.369	.05571	.06130	.05944
#2	.28176	25.679	25.238	H25.385	.05600	.06206	.06004
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.01050	-.00436	.00059	.01129	.62227	H13.433
SDev	.00104	.00276	.00149	.00010	.00355	.040
%RSD	9.9450	63.262	253.53	.85237	.57001	.29638
#1	.01124	-.00631	-.00047	.01136	.62478	H13.461
#2	.00976	-.00241	.00164	.01122	.61976	H13.405
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	17087	--	--	--	--	--	--
SDev	15.94581	--	--	--	--	--	--
%RSD	.0933206	--	--	--	--	--	--
#1	17076	--	--	--	--	--	--
#2	17098	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VL Operator: MTW
Run Time: 10/18/00 13:36:08
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	.00304	35.975	.37802	1.6153	.00890	166.61	.01383
SDev	.00011	.179	.00314	.0016	.00012	.05	.00023
%RSD	3.6490	.49708	.83119	.10117	1.3774	.02824	1.6995
#1	.00312	35.848	.37580	1.6141	.00899	166.64	.01366
#2	.00296	36.101	.38024	1.6164	.00882	166.58	.01399
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	.07431	.18931	1.4743	262.53	99.432	3.9154	.01812
SDev	.00028	.00024	.0025	.65	.131	.0055	.00046
%RSD	.37180	.12483	.17108	.24746	.13215	.14043	2.5496
#1	.07450	.18948	1.4725	262.07	99.340	3.9115	.01844
#2	.07411	.18915	1.4760	262.99	99.525	3.9193	.01779
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	.24441	S101.38	S73.644	k82.881	.15154	.15729	.15537
SDev	.00264	.44	.312	.353	.00263	.00125	.00171
%RSD	1.0808	.43035	.42373	.42643	1.7349	.79125	1.0977
#1	.24628	S101.69	S73.864	k83.131	.14968	.15641	.15417
#2	.24255	S101.08	S73.423	k82.631	.15340	.15817	.15658
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.00222	.00588	.00466	.01751	.85311	3.2742
SDev	.00378	.00298	.00073	.00218	.00185	.0012
%RSD	170.14	50.762	15.695	12.425	.21661	.03693
#1	.00490	.00377	.00415	.01597	.85441	3.2751
#2	-.00045	.00799	.00518	.01905	.85180	3.2734
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	16341	--	--	--	--	--	--
SDev	69.22603	--	--	--	--	--	--
%RSD	.4236418	--	--	--	--	--	--
#1	16292	--	--	--	--	--	--
#2	16390	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-7 Operator: MTW
Run Time: 10/18/00 13:40:23
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	1.0351	23.809	.52103	2.0206	2.0613	51.353	.49824
SDev	.0030	.036	.00156	.0013	.0057	.137	.00109
%RSD	.28657	.15127	.29969	.06621	.27658	.26757	.21881
#1	1.0372	23.784	.52214	2.0216	2.0653	51.450	.49901
#2	1.0330	23.835	.51993	2.0197	2.0572	51.256	.49747
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	2.0714	2.0627	1.9828	25.263	49.981	2.0221	2.0900
SDev	.0029	.0033	.0014	.004	.044	.0028	.0062
%RSD	.13976	.15889	.06901	.01632	.08724	.13667	.29760
#1	2.0735	2.0650	1.9838	25.260	50.012	2.0240	2.0856
#2	2.0694	2.0604	1.9819	25.266	49.951	2.0201	2.0944
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	2.0207	.53899	.53622	.53715	.52218	.51889	.51998
SDev	.0076	.00419	.00034	.00162	.00439	.00510	.00194
%RSD	.37497	.77760	.06424	.30261	.84014	.98228	.37284
#1	2.0260	.53603	.53598	.53600	.52529	.51528	.51861
#2	2.0153	.54196	.53647	.53830	.51908	.52249	.52136
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	.52201	.52495	.52397	1.0566	2.0419	2.0485
SDev	.00418	.00034	.00162	.0026	.0026	.0051
%RSD	.80145	.06559	.30971	.24803	.12612	.24875
#1	.51905	.52470	.52282	1.0584	2.0437	2.0521
#2	.52497	.52519	.52512	1.0547	2.0401	2.0449
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14491	--	--	--	--	--	--
SDev	61.51829	--	--	--	--	--	--
%RSD	.4245232	--	--	--	--	--	--
#1	14448	--	--	--	--	--	--
#2	14535	--	--	--	--	--	--

Method: METTRA Sample Name: CCB7 Operator: MTW
Run Time: 10/18/00 13:44:33
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	.00019	.00879	-.00063	.00083	.00197	.04874	.00031
SDev	.00056	.00027	.00049	.00000	.00008	.00194	.00011
%RSD	296.81	3.0282	78.448	.26715	3.9057	3.9832	35.065
#1	.00058	.00897	-.00028	.00083	.00203	.04737	.00023
#2	-.00021	.00860	-.00098	.00083	.00192	.05011	.00039
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	.00063	.00048	.00028	.05987	.02388	.00208	.00405
SDev	.00064	.00056	.00010	.00448	.00355	.00013	.00168
%RSD	100.85	117.44	34.432	7.4779	14.851	6.4427	41.582
#1	.00108	.00087	.00021	.05670	.02639	.00198	.00523
#2	.00018	.00008	.00035	.06303	.02137	.00217	.00286
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	.00053	.01062	.00896	H.00951	.00202	-.00038	.00042
SDev	.00009	.00322	.00012	.00100	.00159	.00113	.00022
%RSD	17.659	30.327	1.3034	10.455	78.717	295.01	52.967
#1	.00046	.01290	.00888	H.01022	.00090	.00042	.00058
#2	.00060	.00834	.00904	H.00881	.00315	-.00118	.00026
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	-.00025	.00149	.00091	.00362	.00019	.00325
SDev	.00289	.00121	.00016	.00278	.00077	.00046
%RSD	1141.1	81.517	17.155	76.759	409.16	14.060
#1	.00179	.00063	.00102	.00558	.00074	.00293
#2	-.00230	.00234	.00080	.00165	-.00036	.00357
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	14806	--	--	--	--	--	--
SDev	31.71415	--	--	--	--	--	--
%RSD	.2142020	--	--	--	--	--	--
#1	14783	--	--	--	--	--	--
#2	14828	--	--	--	--	--	--

Method: METTRA Sample Name: DM4VM Operator: MTW
Run Time: 10/18/00 13:48:47
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	.00122	55.940	.10056	2.6570	.00905	75.776	.00618
SDev	.00022	.175	.00194	.0111	.00006	.118	.00021
%RSD	18.486	.31344	1.9325	.41719	.61373	.15584	3.4781
#1	.00137	56.064	.10193	2.6648	.00909	75.859	.00633
#2	.00106	55.816	.09919	2.6492	.00901	75.692	.00603
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	.12677	.51281	3.6599	216.07	37.054	3.7406	.01219
SDev	.00056	.00006	.0102	.28	.029	.0013	.00097
%RSD	.44201	.01198	.27797	.13120	.07873	.03375	7.9756
#1	.12637	.51276	3.6671	215.87	37.074	3.7414	.01288
#2	.12717	.51285	3.6527	216.27	37.033	3.7397	.01150
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	.27724	9.1174	8.9296	H8.9921	.01083	.01726	.01512
SDev	.00141	.0535	.0586	.0569	.00327	.00140	.00202
%RSD	.50902	.58713	.65651	.63308	30.154	8.1167	13.373
#1	.27824	9.0795	8.8881	H8.9519	.00852	.01627	.01369
#2	.27624	9.1552	8.9710	H9.0324	.01314	.01825	.01655
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.00255	.00445	.00382	.01006	.16369	H9.0438
SDev	.00304	.00034	.00079	.00169	.00164	.0129
%RSD	119.45	7.6645	20.590	16.793	1.0018	.14255
#1	.00040	.00469	.00326	.01126	.16485	H9.0347
#2	.00470	.00421	.00437	.00887	.16253	H9.0529
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High
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	16132	--	--	--	--	--	--
SDev	27.78916	--	--	--	--	--	--
%RSD	.1722622	--	--	--	--	--	--
#1	16152	--	--	--	--	--	--
#2	16112	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-8 Operator: MTW
Run Time: 10/18/00 13:53:02
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	1.0220	23.379	.51447	1.9910	2.0312	50.537	.49196
SDev	.0035	.129	.00158	.0084	.0083	.264	.00270
%RSD	.34293	.55349	.30735	.41943	.40982	.52240	.54992
#1	1.0245	23.470	.51558	1.9969	2.0371	50.723	.49387
#2	1.0195	23.287	.51335	1.9851	2.0254	50.350	.49004
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	2.0409	2.0314	1.9547	24.813	49.294	1.9949	2.0631
SDev	.0075	.0075	.0086	.060	.170	.0061	.0027
%RSD	.36605	.36934	.43798	.24257	.34537	.30744	.13234
#1	2.0462	2.0367	1.9608	24.856	49.414	1.9992	2.0651
#2	2.0356	2.0261	1.9486	24.771	49.174	1.9905	2.0612
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	1.9944	.51183	.50994	.51057	.52096	.51191	.51493
SDev	.0179	.00194	.00112	.00139	.00038	.00147	.00085
%RSD	.89801	.37876	.21964	.27277	.07346	.28730	.16576
#1	2.0071	.51320	.51073	.51155	.52123	.51087	.51432
#2	1.9817	.51046	.50915	.50958	.52069	.51295	.51553
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	.51581	.51928	.51812	1.0449	2.0126	2.0263
SDev	.00325	.00167	.00219	.0042	.0101	.0091
%RSD	.62950	.32122	.42343	.40564	.50144	.44687
#1	.51810	.52046	.51968	1.0479	2.0198	2.0327
#2	.51351	.51810	.51657	1.0419	2.0055	2.0199
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

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14594	--	--	--	--	--	--
SDev	18.10166	--	--	--	--	--	--
%RSD	.1240354	--	--	--	--	--	--
#1	14581	--	--	--	--	--	--
#2	14607	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8 Operator: MTW
Run Time: 10/18/00 13:57:12
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	.00035	.01045	.00111	.00089	.00205	.04681	.00008
SDev	.00021	.00957	.00077	.00032	.00009	.00813	.00029
%RSD	59.288	91.642	69.325	36.528	4.1622	17.376	364.59
#1	.00020	.00368	.00165	.00066	.00199	.04106	-.00012
#2	.00050	.01721	.00056	.00112	.00211	.05256	.00028
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	.00103	.00089	.00017	.03968	.02067	.00139	.00442
SDev	.00007	.00038	.00037	.00924	.00595	.00029	.00020
%RSD	7.2925	42.270	215.44	23.280	28.785	20.798	4.4777
#1	.00097	.00062	-.00009	.03315	.01646	.00119	.00428
#2	.00108	.00115	.00043	.04621	.02488	.00160	.00456
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	.00019	.00531	.00358	H.00416	.00178	-.00017	.00048
SDev	.00080	.00038	.00037	.00038	.00084	.00137	.00119
%RSD	416.60	7.2451	10.333	9.0198	47.241	793.82	250.59
#1	-.00037	.00504	.00332	H.00389	.00237	.00080	.00132
#2	.00075	.00558	.00385	H.00442	.00118	-.00114	-.00037
Errors	LC Pass	NOCHECK	NOCHECK	LC High	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	.00017	-.00113	-.00070	.00665	.00092	.00482
SDev	.00289	.00057	.00134	.00523	.00079	.00023
%RSD	1750.2	49.831	190.91	78.659	85.769	4.7092
#1	-.00188	-.00153	-.00165	.00295	.00036	.00466
#2	.00221	-.00073	.00025	H.01035	.00147	.00498
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	14756	--	--	--	--	--	--
SDev	73.96310	--	--	--	--	--	--
%RSD	.5012442	--	--	--	--	--	--
#1	14808	--	--	--	--	--	--
#2	14704	--	--	--	--	--	--

673 1907

STL-Pittsburgh Atomic Absorption Data for Mercury

Analyst Name: William a Hoyle

Instrument: PS200HG

Date of Analysis: 10-17-00

File ID: 1017HGA

Matrix: Soil

Lot Number/SDG	Method
COJ140161	7471A
COJ130334	
COJ160120	
COJ160199	
COJ110120	
COJ140115	ILM04.0
COJ160121	

673 1908

William a Hoyle 10-17-00

09:39:16 17 Oct 2000 Folder: 1017HGA Page 513
Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0		09:39:16 17 Oct 2000 HG		
Hg	.000	ppb	7650					
*** Standard: 2 Rep: 1				Seq: 1		09:41:04 17 Oct 2000 HG		
Hg	.200	ppb	29949	0057-110-6				
*** Standard: 3 Rep: 1				Seq: 2		09:42:35 17 Oct 2000 HG		
Hg	.500	ppb	73931	0057-110-7				
*** Standard: 4 Rep: 1				Seq: 3		09:44:05 17 Oct 2000 HG		
Hg	1.00	ppb	152514	0057-110-8				
*** Standard: 5 Rep: 1				Seq: 4		09:46:02 17 Oct 2000 HG		
Hg	5.00	ppb	744868	0057-110-9				
*** Standard: 6 Rep: 1				Seq: 5		09:47:31 17 Oct 2000 HG		
Hg	10.0	ppb	1451480	0057-110-10				

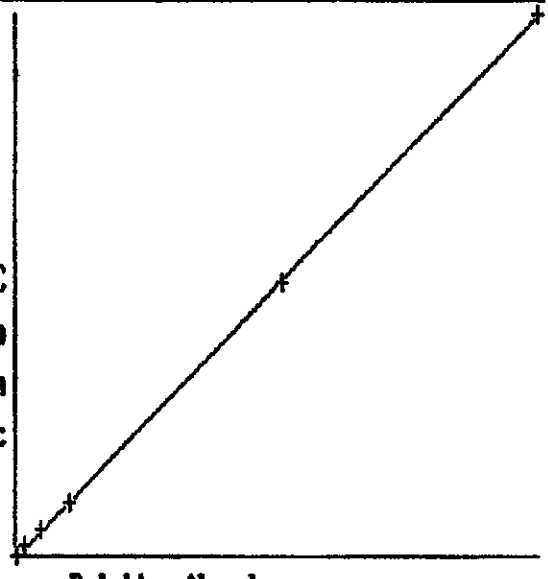
673 1909 William a Noyle 10-17-00

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HG0 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 09:48:01 17 Oct 2000 Xmit: Off Gas: 0.30 LPM
State: Idle User: WAH A/S: On

CALIBRATION: Line proto: HGMET

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	.012	.812	Quadratic
S2	.200	.165	-.035	Wtdlinear
S3	.500	.468	-.032	
S4	1.00	1.01	.010	Accept
S5	5.00	5.09	.089	
S6	10.0	9.56	-.044	

A .0000000 r .999923
B 6.88697e-6 C -4.87739e-2



	Mean		SD	
S1	7650	0	SD	7650
S2	29949	0	%RSD	29949
S3	73931	0	%RSD	73931
S4	152514	0	%RSD	152514
S5	744868	0	%RSD	744868
S6	1451488	0	%RSD	1451488

New cal coefficients stored

673 1910

William a Hoyle 10-17-00

09:50:07 17 Oct 2000 Folder: 1017HGA Page 514
Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: ICV5-1 Seq: 6 09:50:07 17 Oct 2000 HG

Hg 2.58 ppb 380039 0057-110-11

*** Sample ID: ICB1 Seq: 7 09:51:33 17 Oct 2000 HG

Hg .036 ppb 11181

*** Sample ID: CRA-1 Seq: 8 09:53:32 17 Oct 2000 HG

Hg .178 ppb 31831 0057-110-16

*** Sample ID: CCV5-1 Seq: 9 09:55:46 17 Oct 2000 HG

Hg 5.14 ppb 752702 0057-110-12

*** Sample ID: CCB1 Seq: 10 09:57:21 17 Oct 2000 HG

Hg -.000 ppb 5895

*** Sample ID: DM779B Seq: 11 09:58:58 17 Oct 2000 HG

Hg .048 ppb 12852

*** Sample ID: DM779C Seq: 12 10:00:23 17 Oct 2000 HG

Hg 2.48 ppb 365454 0057-110-13

*** Sample ID: DM650 Seq: 13 10:01:53 17 Oct 2000 HG

Hg .385 ppb 61807

*** Sample ID: DM650S Seq: 14 10:03:28 17 Oct 2000 HG

Hg 1.48 ppb 220172 SP.REC. 110%

*** Sample ID: DM650D Seq: 15 10:05:54 17 Oct 2000 HG

Hg 1.35 ppb 201625 SP.REC. 97%

*** Sample ID: DM8A8B Seq: 16 10:07:24 17 Oct 2000 HG

Hg .031 ppb 10367

*** Sample ID: DM8A8C Seq: 17 10:08:54 17 Oct 2000 HG

Hg 2.61 ppb 384561

0057-110-14

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DM592				Seq: 18		10:10:23 17 Oct 2000 HG		
Hg	.242	ppb	41008					
*** Sample ID: DM592S				Seq: 19		10:11:48 17 Oct 2000 HG		
Hg	1.24	ppb	185373					
*** Sample ID: DM592D				Seq: 20		10:13:12 17 Oct 2000 HG		
Hg	1.24	ppb	186248					
*** Sample ID: CCV5-2				Seq: 21		10:14:58 17 Oct 2000 HG		
Hg	5.15	ppb	754033					
*** Sample ID: CCB2				Seq: 22		10:16:23 17 Oct 2000 HG		
Hg	.004	ppb	6444					
*** Sample ID: DM7M4				Seq: 23		10:17:52 17 Oct 2000 HG		
Hg	.102	ppb	20793					
*** Sample ID: DM8RG				Seq: 24		10:19:20 17 Oct 2000 HG		
Hg	.334	ppb	54476					
*** Sample ID: DM8RH				Seq: 25		10:21:39 17 Oct 2000 HG		
Hg	.409	ppb	65333					
*** Sample ID: DM8RJ				Seq: 26		10:23:10 17 Oct 2000 HG		
Hg	.154	ppb	28353					
*** Sample ID: DM8CGB				Seq: 27		10:24:50 17 Oct 2000 HG		
Hg	.042	ppb	12046					
*** Sample ID: DM8CGC				Seq: 28		10:26:56 17 Oct 2000 HG		
Hg	2.59	ppb	381819					
*** Sample ID: DLWHP				Seq: 29		10:28:23 17 Oct 2000 HG		
Hg	.239	ppb	40678					

SP. REC. 100%

SP. REC 100%

0052-110-1345 WAH 10-17-00

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: DLWHPS				Seq: 30		10:30:13 17 Oct 2000 HG			
Hg	1.16	ppb	175053						SP.REC. 92%
*** Sample ID: DLWHPD				Seq: 31		10:32:02 17 Oct 2000 HG			
Hg	1.23	ppb	184467						SP.REC. 99%
*** Sample ID: DLWHX				Seq: 32		10:33:42 17 Oct 2000 HG			
Hg	.092	ppb	19247						
*** Sample ID: CCV5-3				Seq: 33		10:35:28 17 Oct 2000 HG			
Hg	5.19	ppb	760109						
*** Sample ID: CCB3				Seq: 34		10:37:48 17 Oct 2000 HG			
Hg	.045	ppb	12485						
*** Sample ID: DLWJ1				Seq: 35		10:39:14 17 Oct 2000 HG			
Hg	.198	ppb	34614						
*** Sample ID: DLWJ4				Seq: 36		10:40:49 17 Oct 2000 HG			
Hg	.116	ppb	22806						
*** Sample ID: DLWJ5				Seq: 37		10:42:56 17 Oct 2000 HG			
Hg	.197	ppb	34519						
*** Sample ID: DLWJ9				Seq: 38		10:45:24 17 Oct 2000 HG			
Hg	.058	ppb	14375						
*** Sample ID: DLWJE				Seq: 39		10:47:00 17 Oct 2000 HG			
Hg	.206	ppb	35843						
*** Sample ID: DLWJM				Seq: 40		10:48:26 17 Oct 2000 HG			
Hg	.091	ppb	19108						
*** Sample ID: DLWJQ				Seq: 41		10:49:56 17 Oct 2000 HG			
Hg	.211	ppb	36616						

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DLWJR				Seq: 42	10:51:35 17 Oct 2000 HG			
Hg	.081	ppb	17682					
*** Sample ID: DLWJW				Seq: 43	10:53:36 17 Oct 2000 HG			
Hg	.250	ppb	42255					
*** Sample ID: DLWK2				Seq: 44	10:55:11 17 Oct 2000 HG			
Hg	.184	ppb	32656					
*** Sample ID: CCV5-4				Seq: 45	10:56:39 17 Oct 2000 HG			
Hg	5.18	ppb	757868					
*** Sample ID: CCB4				Seq: 46	10:58:17 17 Oct 2000 HG			
Hg	.015	ppb	8089					
*** Sample ID: DLWKG				Seq: 47	10:59:43 17 Oct 2000 HG			
Hg	.113	ppb	22396					
*** Sample ID: DM82CB				Seq: 48	11:01:39 17 Oct 2000 HG			
Hg	.026	ppb	9727					
*** Sample ID: DM82CC				Seq: 49	11:03:09 17 Oct 2000 HG			
			0057-003-15					
Hg	5.65	ppb	826386					
*** Sample ID: DM6M9				Seq: 50	11:04:35 17 Oct 2000 HG			
Hg	.034	ppb	10924					
*** Sample ID: DM6M9X				Seq: 51	11:06:12 17 Oct 2000 HG			
Hg	.071	ppb	16243					
*** Sample ID: DM6M9S				Seq: 52	11:07:37 17 Oct 2000 HG			
Hg	1.09	ppb	163963					
*** Sample ID: DM6NA				Seq: 53	11:09:26 17 Oct 2000 HG			
Hg	.063	ppb	15075					

SP. REC. 109%

11:10:55 17 Oct 2000 Folder: 1017HGA Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DM6NJ				Seq: 54	11:10:55 17 Oct 2000 HG			
Hg	.039	ppb	11599					
*** Sample ID: DM6NK				Seq: 55	11:12:43 17 Oct 2000 HG			
Hg	.085	ppb	18303					
*** Sample ID: DM6NL				Seq: 56	11:14:11 17 Oct 2000 HG			
Hg	.071	ppb	16177					
*** Sample ID: CCV5-5				Seq: 57	11:15:50 17 Oct 2000 HG			
Hg	5.18	ppb	758125					
*** Sample ID: CCB5				Seq: 58	11:17:17 17 Oct 2000 HG			
Hg	.017	ppb	8443					
*** Sample ID: DM6NM				Seq: 59	11:19:19 17 Oct 2000 HG			
Hg	.122	ppb	23650					
*** Sample ID: DM6NQ				Seq: 60	11:20:56 17 Oct 2000 HG			
Hg	.105	ppb	21141					
*** Sample ID: DM6NO				Seq: 61	11:22:22 17 Oct 2000 HG			
Hg	.108	ppb	21549					
*** Sample ID: DM6N2				Seq: 62	11:23:47 17 Oct 2000 HG			
Hg	.018	ppb	8600					
*** Sample ID: DM6N7				Seq: 63	11:26:04 17 Oct 2000 HG			
Hg	.043	ppb	12159					
*** Sample ID: DM6N9				Seq: 64	11:27:53 17 Oct 2000 HG			
Hg	.088	ppb	18720					
*** Sample ID: DM6PC				Seq: 65	11:29:42 17 Oct 2000 HG			
Hg	.083	ppb	18025					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DM7NA				Seq: 66		11:31:48 17 Oct 2000 HG		
Hg	.086	ppb	18391					
*** Sample ID: CCV5-6				Seq: 67		11:33:24 17 Oct 2000 HG		
Hg	5.22	ppb	763775					
*** Sample ID: CCB6				Seq: 68		11:34:54 17 Oct 2000 HG		
Hg	.011	ppb	7533					

END OF ANALYSIS
WAH
10-17-00

673 1916

William A Hoyle 10-17-00

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HGA Seq: 0 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 09:13:24 17 Oct 2000 Xmit: Off Gas: 0.30 LPM
State: Idle User: WAH 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	CRA-1		1.0000	1.0000		
4	CCV5-1		1.0000	1.0000		
5	CCB1		1.0000	1.0000		
6	DM779B		1.0000	1.0000		
7	DM779C		1.0000	1.0000		
8	DM650		1.0000	1.0000		
9	DM650S		1.0000	1.0000		
10	DM650D		1.0000	1.0000		
11	DM8A8B		1.0000	1.0000		
12	DM8A8C		1.0000	1.0000		
13	DM592		1.0000	1.0000		
14	DM592S		1.0000	1.0000		
15	DM592D		1.0000	1.0000		

PgDn

Cup 1 extended ID: Cell down mode Ins to switch

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HGA  Seq: 0    Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2    09:13:26 17 Oct 2000 Xmit: Off Gas:     0.30 LPM
State: Idle                                           User: WAH         A/S: On

 AUTOSAMPLER:  Rack Edit   rack: RACK1                                      PgUp
cup ID       Extended id          Weight Volume Macro      checK macros
16 CCV5-2                         1.0000 1.0000
17 CCB2                           1.0000 1.0000
18 DM7M4                          1.0000 1.0000
19 DM8RG                          1.0000 1.0000
20 DM8RH                          1.0000 1.0000
21 DM8RJ                          1.0000 1.0000
22 DM8CGB                         1.0000 1.0000
23 DM8CGC                         1.0000 1.0000
24 DLWHP                          1.0000 1.0000
25 DLWHPS                         1.0000 1.0000
26 DLWHPD                         1.0000 1.0000
27 DLWHX                          1.0000 1.0000
28 CCV5-3                         1.0000 1.0000
29 CCB3                           1.0000 1.0000
30 DLWJ1                          1.0000 1.0000
                                                                          PgDn

Cup 16 extended ID:                                  Cell down mode Ins to switch
```

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HGA  Seq: 0    Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2    09:13:27 17 Oct 2000 Xmit: Off Gas:     0.30 LPM
State: Idle                                           User: WAH         A/S: On

 AUTOSAMPLER:  Rack Edit    rack: RACK1                                      PgUp
cup ID        Extended id          Weight Volume Macro      checK macros
31 DLWJ4                           1.0000 1.0000
32 DLWJ5                           1.0000 1.0000
33 DLWJ9                           1.0000 1.0000
34 DLWJE                           1.0000 1.0000
35 DLWJM                           1.0000 1.0000
36 DLWJQ                           1.0000 1.0000
37 DLWJR                           1.0000 1.0000
38 DLWJW                           1.0000 1.0000
39 DLWK2                           1.0000 1.0000
40 CCV5-4                          1.0000 1.0000
41 CCB4                            1.0000 1.0000
42 DLWK6                           1.0000 1.0000
43 DMB2CB                          1.0000 1.0000
44 DMB2CC     0057-003-15          1.0000 1.0000

                                                                          PgDn
Cup 31 extended ID:                                  Cell down mode Ins to switch
```

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HGA  Seq: 0    Batch:
                  Prnt: R/T On                        Pump: On
                  Rev: 4.2    09:20:17 17 Oct 2000 Xmit: Off Gas:     0.30 LPM
State: Idle                                          User: WAH          A/S: On
```

AUTOSAMPLER: Rack Edit rack: RACK2

cup	ID	Extended id	Weight	Volume	Macro	checK macros
1	DM6M9		1.0000	1.0000		
2	DM6M9X		1.0000	1.0000		
3	DM6M9S		1.0000	1.0000		
4	DM6NA		1.0000	1.0000		
5	DM6NJ		1.0000	1.0000		
6	DM6NK		1.0000	1.0000		
7	DM6NL		1.0000	1.0000		
8	CCV5-5		1.0000	1.0000		
9	CCB5		1.0000	1.0000		
10	DM6NM		1.0000	1.0000		
11	DM6NQ		1.0000	1.0000		
12	DM6NO		1.0000	1.0000		
13	DM6N2		1.0000	1.0000		
14	DM6N7		1.0000	1.0000		
15	DM6N9		1.0000	1.0000		

PgDn

```
Cup 1  ID: DM6M9                          Cell down mode Ins to switch
```

```
RunProt: HGMET      STL-PITTSBURGH METALS ANALYSIS
RunFold: 1017HGA  Seq: 0    Batch:
                  Prnt: R/T On                    Pump: On
                  Rev: 4.2    09:20:18 17 Oct 2000 Xmit: Off Gas:     0.30 LPM
State: Idle                                       User: WAH           A/S: On
```

AUTOSAMPLER: Rack Edit rack: RACK2 PgUp

cup	ID	Extended id	Weight	Volume	Macro	checK macros
16	DM6PC		1.0000	1.0000		
17	DM7NA		1.0000	1.0000		
18	CCV5-6		1.0000	1.0000		
19	CCB6		1.0000	1.0000		
20			1.0000	1.0000		
21			1.0000	1.0000		
22			1.0000	1.0000		
23			1.0000	1.0000		
24			1.0000	1.0000		
25			1.0000	1.0000		
26			1.0000	1.0000		
27			1.0000	1.0000		
28			1.0000	1.0000		
29			1.0000	1.0000		
30			1.0000	1.0000		

PgDn

```
Cup 16 ID: DM6PC                          Cell down mode Ins to switch
```

STL - Pittsburgh

Pipet #J04524

Metals Preparation Log

673 1921

Logbook ID: MT2

Method: 3050B	Matrix: Soil	Start Time: 0830	SDG: ———	Balance #: 194817	Reagents: 10ml 1:1 HNO_3 0057-104-3; 5ml Conc HNO_3 6623 T09 R05 Mallinckrodt; 10ml 30% H_2O_2 5240 N15 A01 Mallinckrodt; 10ml Conc HCl 5587-N41 A07 Mallinckrodt
Analyst: Cynthia A CAR	Date: 10-17-00	Lot Number: COJ140161	Lab Lot # (book,page,line): 0057-095-1, 0057-08x-13, 0057-086-12		
Reviewed by: Michael Mazurchuk	Date: 10-17-00		MS: MSB1REV, MSA, MSCREV		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments	Color Pre	Color Post	Clarity Pre	Clarity Post	Texture Pre	Texture Post	Artifacts
1. DM650	1.00g	100ml	CAR 10-17-00 +1ml MSB1REV +1ml MSA +1ml MSCREV							
2. DM650S	↓	↓								
3. DM650D	↓	↓								
4. DM84TB	1ml DI H_2O	↓	CAR 10-17-00 +1ml MSCREV +1ml MSA +1ml MSB1REV							
5. DM84TC	↓	↓								
6										
7.										
8										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16										
17.										
18.										
19.										
20										
21.										
22										
23.										
24:										

10-17-00

CAR

Artifact Codes
S=Stones
O=Organic (plant mat'l)
W=free H2O
G=Glass
M=Metal Frgmnts
R=Rubber/Plastic
C=Cloth
P=Paper
I=Insects

Texture
F=Fine
M=Medium
C=Coarse

Clarity
C=Clear
CL=Cloudy
O=Opaque

Digestate(s)	Digestate(s) Received Date	Time	Analyst	Location	Digestate(s) Relinquished Date	Time	Analyst	Location
All Above	10-17-00	1530	CAR	Met Prep	10-17-00	1540	CAR	Met Al
All Above	10-18-00	10:35	[illegible]	MET AI	10-18-00	11:10	[illegible]	MET AI
All Above	10-18-00	11:15	[illegible]	MET-1 AI	10-18-00	12:05	[illegible]	MET-1 AI

Hot Plate/Block Temp	Correction Factor
# 2 / 95°C	-0.2°C

Color

R=Red	Y=Yellow	W=White
BL=Blue	O=Orange	GY=Gray
BR=Brown	V=Violet	GN=Green
BLK=Black	P=Pink	C=Colorless

STL Pittsburgh

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX. 412/826-5571

673 1922

Quanterra Environmental Services

Serial Number	Log Book Number	Start Time
071	96-MT-581	08:10 → 08:25

QUA-4169

BALANCE 6131 PIPET # H31609

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1.	STD-0	N/A	10-17-00	WDR / WAH	100 mL	Water	10-17-00	N/A
2	STD-1							0057-110-6
3	STD-2							0057-110-7
4.	STD-3							0057-110-8
5.	STD-4							0057-110-9
6.	STD-5							0057-110-10
7.	ICV							0057-110-11
8.	ICB							~~0057-110-12~~ WDR 10-17-00 N/A
9.	CCV							0057-110-12
10	CCB							N/A
11	DM779 B				WDR 10-17-00 0.6g H2O			~~WDR 10-17-00 + 1.0 mL 0057~~
12	DM779 C				100 mL			0057-110-13
13	DM650	10-14-00			0.6g	Soil		N/A
14	DM650 S							+ 1.0 mL 0057-110-4
15.	DM650 D							
16	DM8A8 B	N/A	10-17-00		0.6g H2O	Water	10-17-00	N/A
17 WDR 10-17-00	~~DM597~~ DM8A8C				100 mL			~~+ 1.0 mL WDR 10-17-00~~ 0057-110-14
18.	DM592 ~~S~~ WDR 10-17-00	10-13-00			0.6g	Soil		N/A
19.	DM592 ~~D~~ S WDR 10-17-00							+ 1.0 mL 0057-110-4
20. WDR 10-17-00	~~DM7M4~~ DM592 D							
21.	DM7M4	10-16-00						N/A
22	DM8RG							
23	DM8RH							
24	DM8RJ							
25.	DM8CG B	N/A	10-17-00		0.6g H2O	Water	10-17-00	N/A

Reagents	Vol (mL)	Ref. Number
HNO_3	2.0	Mallinckrodt 6623 T09A05
H_2SO_4	5.0	Mallinckrodt 5557 NZIA13
$KMNO_4$	5.0	0057-101-12
$K_2S_2O_4$	8.0	0057-101-13

SLMO4.0 Method

7471A Autoclave 15 psi 120°C

$SnCl_2$ = 0057-095-9

NaCl - NH_2OH = 0057-105-9

WDR 10-17-00

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WDR	10-17-00				

5291

STL Pittsburgh

[redacted]

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

673 1923

Quanterra Environmental Services

QUA-4169

Balance C0131 Pipet # H31609

Serial Number	Log Book Number	Start Time
072	96-MT-581	08:10→08:25

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1.	DM8CG C	N/A	10-17-00	WTK / WAH	100ml	Water	10-17-00	0057-110-15
2	DLWHP	10-11-00			0.6g	Soil		N/A
3.	DLWHP S							+ 1ml 0057-110-4
4.	DLWHP D							N/A
5.	DLWHX							
6.	DLWJ2							
7	DLWJ4							
8.	DLWJ5							
9	DLWJ9							
10.	DLWJE							
11.	DLWJM							
12.	DLWJQ							
13.	DLWJR							
14.	DLWJW							
15.	DLWK2							
16.	DLWKG							
17.	DM8ZC B	~~10-10~~ N/A	10-17-00		0.2g H_2O	water	10-17-00	N/A
18	DM8ZC C				0.2g	Soil		0057-003-15
19.	DM6M9	10-14-00						N/A
20.	DM6M9 MX							+ 1ml 0057-110-4
21.	DM6M9 MS							N/A
22.	DM6NA							
23.	DM6NJ							
24	DM6NK							
25.	DM6NL							

Reagents	Vol (mL)	Ref. Number	ELM D4.0 Method
HNO_3	2.0 ml	Mallinckrodt 6623 T09A05	7471A Autoclave 15psi 120°C
H_2SO_4	5.0 ml	Mallinckrodt 5557 N21A13	$SnCl_2$ = 0057-095-9
$KMnO_4$	5.0 ml	0057-101-12	NaCl-NH_2OH = 0057-105-9
$K_2S_2O_4$	8.0 ml	0057-101-13	WTK 10-17-00

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WTK	10-17-00				

5292

STL Pittsburgh

[redacted]

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

673 1924

Quanterra Environmental Services

QUA-4169

Balance 6131 Pipet # H31609

Serial Number	Log Book Number	Start Time
073	96-MT-581	08:10-7 08:28

	Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1.	DM6NM	10-14-00	10-17-00	WTK / WAH	0.2g	soil	10-17-00	N/A
2.	DM6 N2							
3.	DM6 N0							
4.	DM6 N2							
5.	DM6 N7							
6	DM6 N9							
7.	DM6 PC							
8.	DM7NA	10-16-00						
9.	CRA	N/A			100ml	water		0057-110-16
10.								
11								
12								
13								
14.								
15								
16								
17.				WTK				
18.				10-17-00				
19								
20								
21.								
22.								
23.								
24								
25								

Reagents	Vol (mL)	Ref. Number	Method
HNO_3	2.0ml	mallinckrodt 6QR3T09A06	ILMO 4.0
H_2SO_4	5.0ml	Mallinckrodt 5557 N2iA13	7471A Autoclave 15psi 120°C
$KMNO_4$	5.0ml	0057-101-12	$SnCl_2$ = 0057-095-9
$K_2S_2O_4$	8.0ml	0057-101-13	NaCl-NH_2OH = 0057-105-9

Extract(s) (Record line number from above)	Extract(s) Received				Extract(s) Relinquished			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
			WTK 10-17-00					

5293

REQUESTED BY: RIZZOC

METHOD. QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5E	DM650	___ ___ ___	273960	399411	A-46-QM	C0J140161	001		SOLID	0	2	1
5F	DM7K2	___ ___ ___	273947	124548	I-05-QM	C0J160112	001		WATER	0	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10-17-00 0830
[signature]	[signature]	10-17-00 1200

REQUESTED BY: HOYLEW

673 1926

METHOD: 09 Mercury (7471A, Cold Vapor) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5E	DM650	___ ___ ___	273718	399411	A-70-09	C0J140161	001		SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
William a Hoyle	William a Hoyle	10-17-00 05:45
William a Hoyle	William a Hoyle	10-17-00 07:05

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

673 1927

GENERAL CHEMISTRY DATA

UXB INTERNATIONAL

Client Sample ID: DF/S1/0287/TOTAL/001

General Chemistry

Lot-Sample #...: C0J140161-001 **Work Order #...:** DM650 **Matrix.....:** SOLID
Date Sampled...: 10/13/00 **Date Received..:** 10/14/00
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.56	mg/kg	SW846 9012A	10/16-10/19/00	0290202
	Dilution Factor: 1			MS Run # .....: 0290095		
Percent Solids	**89.1**		**%**	**MCAWW 160.3 MOD**	**10/16-10/17/00**	**0290219**
	Dilution Factor: 1			MS Run #. .....: 0290102		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0J140161 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: DM7L21AA		MB Lot-Sample #:	C0J160000-202	
	ND	0.50	mg/kg	SW846 9012A	10/16-10/19/00	0290202
		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 #...: C0J140161 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		Work Order #: DM7L21AC	LCS Lot-Sample#: C0J160000-202		
	106	(62 - 179)	SW846 9012A	10/16-10/19/00	0290202
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J140161 **Matrix.....:** SOLID
Date Sampled...: 10/13/00 **Date Received..:** 10/14/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide, Total		WO#: DM6501A9-MS/DM6501CA-MSD				MS Lot-Sample #: C0J140161-001	
	100	(75 - 125)			SW846 9012A	10/16-10/19/00	0290202
	99	(75 - 125)	0.20	(0-20)	SW846 9012A	10/16-10/19/00	0290202
		Dilution Factor: 1					
		MS Run #.....: 0290095					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight

673 1932

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J140161 **Work Order #...:** DM6M1-SMP DM6M1-DUP **Matrix.....:** SOLID

Date Sampled...: 10/12/00 **Date Received..:** 10/14/00

% Moisture.....: 55

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	C0J140115-001	
	44.9	51.9	%	14	(0-20)	MCAWW 160.3 MOD	10/16-10/17/00	0290219

Dilution Factor: 1

Prep Date... .: 0290102 Analysis Date. : Prep Batch # .:

CYANIDE

COJ140161
COJ100221
COJ120221
COJ130188
COJ140151
→ 0290202 TOTAL→SOLIDS

COJ100226
COJ120299
→ 0290203 TOTAL→ H_2O's

COJ100221 → 0290205 FREE – SOLIDS

COJ100226
COJ120299
COJ120297
→ 0290206 FREE – H_2O's

COJ120268
COJ130219
→ 0291184 TOTAL – H_2O (CLP)

COJ120309
COJ130234
COJ140138
COJ160197
→ 0291189 TOTAL – H_2O (CLP)

COJ120309 → 0292150 (DISSOLVED CLP) – H_2O

COJ130266
COJ170157
→ 0292152 TOTAL – H_2O (CLP)

COJ130266 → 0292151 (DISSOLVED CLP) – H_2O

Run Results Report
Results: C:\FLOW_4\101900A.RST
Results completed: 10:51 October 19, 2000.
Operator: ERIC WESOLOSKI

673 1934

Eric L. Wesoloski 10/19/00

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
---------- User request: Start Data Collect ----------					
06:03	0	CARRYOVER	786	0.001491	
06:04	0	CARRYOVER	63	-0.000159	LO
		Mean & RSD:	424	0.000666	NoRSD
06:05	0	READ BASELIN	0	-0.000302	BL
06:06	301	0.500 PPM ST	215432	0.491097	
06:07	301	0.500 PPM ST	213376	0.486407	
06:08	301	0.500 PPM ST	213562	0.486833	
		Mean & RSD:	214123	0.488112	.531%
06:10	302	0.400 PPM ST	173345	0.395098	
06:11	302	0.400 PPM ST	171897	0.391793	
06:12	302	0.400 PPM ST	172399	0.392940	
		Mean & RSD:	172547	0.393277	.426%
06:13	303	0.300 ppm ST	130915	0.298314	
06:14	303	0.300 ppm ST	129778	0.295722	
06:15	303	0.300 ppm ST	130901	0.298282	
		Mean & RSD:	130531	0.297439	.5%
06:17	304	0.200 PPM ST	87430	0.199126	
06:18	304	0.200 PPM ST	88192	0.200862	
06:19	304	0.200 PPM ST	88057	0.200556	
		Mean & RSD:	87893	0.200182	.462%
06:20	305	0.100 PPM ST	44211	0.100542	
06:21	305	0.100 PPM ST	44414	0.101007	
06:22	305	0.100 PPM ST	44310	0.100769	
		Mean & RSD:	44312	0.100773	.23%
06:24	306	0.050 PPM ST	22356	0.050691	
06:25	306	0.050 PPM ST	22255	0.050462	
06:26	306	0.050 PPM ST	21941	0.049746	
		Mean & RSD:	22184	0.050299	.974%
06:27	307	0.010 PPM ST	4908	0.010893	
06:28	307	0.010 PPM ST	4931	0.010946	
06:29	307	0.010 PPM ST	4835	0.010726	
		Mean & RSD:	4891	0.010855	1.03%
06:31	0	0.000 PPM ST	103	-0.000068	LO
06:32	0	0.000 PPM ST	84	-0.000110	LO OL
06:33	0	0.000 PPM ST	111	-0.000048	LO
		Mean & RSD:	107	-0.000058	13%
06:34	0	BLANK	115	-0.000040	LO
06:35	2	CCV 7216209	45911	0.104421	104.4%
06:36	0	CCB	83	-0.000113	LO
06:38	0	BASELINE	0	-0.000302	BL
06:39	101	.05 7212606	23017	0.052200	104.4%
06:40	102	.40 7212607	174810	0.398439	99.6%
06:41	0	BLANK	-20	-0.000347	LO

Results: C:\FLOW_4\101900A.RST
Results completed: 10:51 October 19, 2000.
Operator: ERIC WESOLOSKI E. T. Wesoloski 10/19/00

673 1935

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
06:42	2	CCV 7212609	45679	0.103892	103.9%
06:43	0	CCB	4	-0.000292	LO
06:45	0	BASELINE	0	-0.000302	BL
06:46	103	DM7L2101B	1156	0.116699	mg/Kg
06:47	104	DM7L2102C	76477	87.070984	105.6% T.V.=(82.5mg/Kg) RANGE= 51.6→148
06:48	105	DM6501A8	1499	0.155891	
06:49	106	DM6501A9S	43813	4.981713	99.6% RPD
06:50	107	DM6501CAD	43731	4.972418	99.4% 0.2%
06.52	108	DLVLG10R	1597	0.167004	
06:53	109	DM2LV1A1	9343	1.050469	
06:54	110	DM4PX1A2	14952	1.690210	
06:55	0	BLANK	20	-0.000257	LO
06:56	2	CCV 7212609	45799	0.104165	104.2%
06:57	0	CCB	10	-0.000278	LO
06:59	0	BASELINE	0	-0.000302	BL
07:00	111	DM63W1A2	6386	0.713244	mg/Kg
07:01	0	BLANK	-35	-0.000382	LO
07:02	2	CCV 7212609	45878	0.104346	104.3%
07:03	0	CCB	-17	-0.000340	LO
07:04	0	BASELINE	0	-0.000302	BL
07:06	112	DM7L7101B	1725	0.003633	
07:07	113	DM7L7102C	68789	0.156606	97.9%
07:08	114	DLVLW10T	21814	0.049455	~~10-19-00~~
07:09	115	DLVLW12AS	67102	0.152757	~~96.8%~~ 103.8% RPD 3.6%
07:10	116	DLVLW12CD	69584	0.158419	109.4%
07:11	117	DM3AX1A4	11805	0.026625	
07:13	118	DM3A21AF	18609	0.042145	
07:14	0	BLANK	66	-0.000151	LO
07:15	2	CCV 7212609	46553	0.105886	105.9%
07:16	0	CCB	55	-0.000177	LO
07:17	0	BASELINE	0	-0.000302	BL
07:18	119	DM7MA101B	1203	0.122142	mg/Kg
07:20	120	DM7MA102C	70890	8.069841	100.9%
07:21	121	DLVLG10T	1490	0.154822	
07:22	122	DLVLG111S	41198	4.683520	93.7% RPD
07:23	123	DLVLG112D	41163	4.679583	93.6% 0.09%
07:24	0	BLANK	33	-0.000227	LO
07:25	2	CCV 7212609	46429	0.105603	105.6%
07:27	0	CCB	-20	-0.000347	LO
07:28	0	BASELINE	0	-0.000302	BL
07:29	124	DM7MD101B	1686	0.003544	
07:30	125	DM7MD102C	70466	0.160431	100.2%
07:31	126	DLVLW10R	7351	0.016466	~~10-19-00~~
07:32	127	DLVLW12DS	44247	0.100626	~~84.1%~~ RPD 4.7%

Run Results Report
Results: C:\FLOW_4\101900A.RST
Results completed: 10:51 October 19, 2000.
Operator: ERIC WESOLOSKI

673 1936

E. L. Wesoloski 10/19/00

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
07:34	128	DLVLW12ED	46341	0.105401	88.9%
07:35	129	DM3AX1A3	4153	0.009171	
07:36	130	DM3A21AE	8555	0.019212	
07:37	131	DM3AW1A9	2065	0.004409	
07:38	0	BLANK	54	-0.000179	LO
07:39	2	CCV 7212609	46844	0.106548	106.5%
07:41	0	CCB	49	-0.000191	LO
07:42	0	BASELINE	0	-0.000302	BL
07:43	132	DM3A71AL	1233	0.002510	
07:44	133	DM3CA1AL	1595	0.003337	
07:45	134	DM3CH1AL	1328	0.002727	
07:46	0	BLANK	-86	-0.000497	LO
07:48	2	CCV 7212609	47187	0.107332	107.3%
07:49	0	CCB	-54	-0.000426	LO
07:50	0	BASELINE	0	-0.000302	BL
07:51	135	DM9AK102C	77563	0.176620	110.4%
07:52	0	ICB	7	-0.000287	LO
07:53	0	BLANK	4	-0.000294	LO
07:55	2	CCV 7212609	47146	0.107238	107.2%
07:56	0	CCB	22	-0.000252	LO
07:57	0	BASELINE	0	-0.000302	BL
07:58	136	DM9AK101B	1431	0.002963	
07:59	137	DM2281A6	1886	0.004000	RPD 0%
08:00	138	DM2281CGX	2147	0.004595	
08:02	139	DM2281CFS	46457	0.105667	105.7%
08:03	140	DM23D1A6	531	0.000908	
08:04	141	DM23E1AH	803	0.001529	
08:05	142	DM23H1A7	1033	0.002054	
08:06	143	DM23K1A6	1231	0.002506	
08:07	0	BLANK	-679	-0.001852	LO
08:09	2	CCV 7212609	46068	0.104778	104.8%
08:10	0	CCB	-248	-0.000867	LO
08:11	0	BASELINE	0	-0.000302	BL
08:12	144	DM23Q1AH	1860	0.003940	
08:13	145	DM23V1AT	2366	0.005096	
08:14	146	DM23W1A4	1527	0.003181	
08:16	147	DM2311A6	1495	0.003109	
08:17	148	DM42V1A6	1571	0.003281	
08:18	149	DM4381A8	1545	0.003221	
08:19	150	DM44E1A6	1554	0.003243	
08:20	151	DM44P1A6	1709	0.003596	
08:21	0	BLANK	7	-0.000286	LO
08:23	2	CCV 721609	47470	0.107976	108%
08:24	0	CCB	-21	-0.000351	LO

Results: C:\FLOW_4\101900A.RST
Results completed: 10:51 October 19, 2000
Operator: ERIC WESOLOSKI E. L. Wesoloski 10/19/00

673 1937

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
08:25	0	BASELINE	0	-0.000302	BL
08.26	152	DM4431A7	1502	0.003124	
08:27	153	DM4511A6	1782	0.003763	
08:28	154	DM46M1A6	1844	0.003905	
08:30	0	BLANK	-43	-0.000401	LO
08:31	2	CCV 7212609	47527	0.108108	108.1%
08:32	0	CCB	-10	-0.000325	LO
08:33	0	BASELINE	0	-0.000302	BL
08:34	155	DM9AH102C	76078	0.173232	108.2%
08:35	0	ICB	-35	-0.000381	LO
08:37	0	BLANK	-8	-0.000320	LO
08:38	2	CCV 7212609	47309	0.107611	107.6%
08:39	0	CCB	-14	-0.000335	LO
08:40	0	BASELINE	0	-0.000302	BL
08:41	156	DM9AH101B	1626	0.003407	
08:42	157	DM3ET1CW	1851	0.003921	
08:44	158	DM3EX1CW	1929	0.004098	
08:45	159	DM3E11CW	2156	0.004615	
08:46	160	DM3E21CW	2119	0.004532	
08:47	161	DM3E41CW	1155	0.002333	
08:48	162	DM3E61CW	1149	0.002319	
08:49	163	DM3E81CW	1237	0.002519	
08:51	0	BLANK	-29	-0.000368	LO
08:52	2	CCV 7212609	47469	0.107975	108%
08:53	0	CCB	24	-0.000248	LO
08:54	0	BASELINE	0	-0.000302	BL
08:55	164	DM3FD1CW	1188	0.002407	
08:56	165	DM3FF1CW	1184	0.002399	
08:58	166	DM3FG1CW	1429	0.002957	RPD 0%
08:59	167	DM3FG1GAX	1511	0.003145	
09 00	168	DM3FG1F6S	44737	0.101742	101.7%
09:01	169	DM3FH1CW	1717	0.003614	
09:02	170	DM3FN1CW	1533	0.003194	
09:03	171	DM3FP1CW	1805	0.003814	
09:05	0	BLANK	-84	-0.000494	LO
09:06	2	CCV 7212609	47714	0.108534	108.5%
09:07	0	CCB	-31	-0.000373	LO
09:08	0	BASELINE	0	-0.000302	BL
09:09	172	DM47D1A6	2025	0.004317	
09:10	173	DM47H1A4	1985	0.004227	
09:12	174	DM47K1A6	1906	0.004045	
09:13	175	DM60M1A5	1916	0.004069	
09:14	176	DM8Q61A5	1126	0.002266	
09:15	0	BLANK	-52	-0.000420	LO

Run Results Report
Results: C:\FLOW 4\101900A.RST
Results completed: 10:51 October 19, 2000.
Operator: ERIC WESOLOSKI

673 1938

E. T. Wesoloski 10/19/00

			CYANIDE		
Time	Cup	Name	Height	Calc.	Flags
09:16	2	CCV 7212609	47737	0.108585	108.6%
09:17	0	CCB	-19	-0.000346	LO
09:19	0	BASELINE	0	-0.000302	BL
09:20	177	DNA0C1ACC	76871	0.175039	109.4%
09:21	0	ICB	-3	-0.000309	LO
09 22	0	BLANK	18	-0.000262	LO
09:23	2	CCV 7212609	47270	0.107520	107.5%
09:24	0	CCB	-3	-0.000309	LO
09:26	0	BASELINE	0	-0.000302	BL
09:27	178	DNA0C1AAB	1040	0.002069	
09:28	179	DM3ET1CV	1214	0.002468	
09:29	180	DM3EX1CV	1183	0.002396	
09:30	181	DM3E11CV	1337	0.002748	
09:31	182	DM3E21CV	1264	0.002581	
09:33	183	DM3E41CV	1313	0.002693	
09:34	184	DM3E61CV	1366	0.002815	
09:35	185	DM3E81CV	1469	0.003048	
09:36	0	BLANK	-38	-0.000388	LO
09:37	2	CCV 7212609	47516	0.108083	108.1%
09:38	0	CCB	-21	-0.000350	LO
09:40	0	BASELINE	0	-0.000302	BL
09:41	186	DM3FD1CV	1401	0.002893	
09:42	187	DM3FF1CV	1742	0.003671	
09:43	188	DM3FG1CV	1819	0.003847	> RPD 0%
09:44	189	DM3FG1G3X	1894	0.004018	
~~09:45~~	~~190~~	~~DM3FG1F43~~	~~61537~~	~~0.140064~~	~~RERUN on RUN 101900B.RST → Air Spike.~~
09:47	201	DM3FH1CV	1627	0.003410	
09:48	202	DM3FN1CV	1414	0.002924	
09:49	203	DM3FP1CV	1335	0.002744	
09:50	0	BLANK	-34	-0.000379	LO
09:51	2	CCV 7212609	47994	0.109171	109.2%
09:52	0	CCB	-24	-0.000357	LO
09:54	0	BASELINE	0	-0.000302	BL
09:55	204	DNA0E1ACC	79176	0.180299	112.7%
09:56	0	ICB	-17	-0.000340	LO
09:57	0	BLANK	2	-0.000298	LO
09:58	2	CCV 7212609	47804	0.108738	108.7%
09:59	0	CCB	-37	-0.000387	LO
10:01	0	BASELINE	0	-0.000302	BL
10:02	205	DNA0E1AAB	1331	0.002733	
10:03	206	DM5F51CW	1450	0.003006	
10:04	207	DM5F61CW	1525	0.003177	
10:05	208	DM5F71CW	1524	0.003173	
10:06	209	DM5F91CW	1716	0.003613	

Run Results Report
Results: C:\FLOW_4\101900A.RST
Results completed: 10:51 October 19, 2000.
Operator: ERIC WESOLOSKI E. T. Wesoloski 10/19/00

673 1939

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
10:08	210	DM5GC1CW	1808	0.003823	
10:09	211	DM5GD1CW	1792	0.003786	
10:10	212	DM5GG1CW	1905	0.004043	
10:11	0	BLANK	-52	-0.000420	LO
10:12	2	CCV 7212609	47856	0.108858	108.9%
10:13	0	CCB	-46	-0.000408	LO
10:15	0	BASELINE	0	-0.000302	BL
10:16	213	DM5GP1DP	2062	0.004401	RPD 0%
10:17	214	DM5GP1D1X	2313	0.004974	
10:18	215	DM5GP1DQS	46179	0.105033	105%
10:19	216	DM9RW1AH	30382	0.068999	
10:20	217	DM9R01AH	6693	0.014964	
10:22	218	DM9R11AH	7309	0.016369	
10:23	0	BLANK	35	-0.000222	LO
10:24	2	CCV	48159	0.109547	
10:25	0	CCB	-17	-0.000340	LO
10:26	0	BASELINE	0	-0.000302	BL
~~10:27~~	~~219~~	~~DNA0G1ACC~~	~~78919~~	~~0.179711~~	
10:29	0	ICB	159	0.000062	
10:30	0	BLANK	101	-0.000072	LO
10:31	2	CCV	48287	0.109840	
10:32	0	CCB	23	-0.000249	LO I
10:33	0	BASELINE	0	-0.000302	BL I
10:34	220	DNA0G1AAB	1631	0.003419	I
10:36	221	DM5F51CV	1518	0.003160	I
10:37	222	DM5F51C1X	1618	0.003388	I
10:38	223	DM5F51C0S	46170	0.105011	I
10:39	224	DM5F61CV	1623	0.003399	I
10:40	225	DM5F71CV	1872	0.003969	I
10:41	226	DM5F91CV	1884	0.003995	I
10:43	227	DM5GC1CV	1763	0.003720	I
10.44	0	BLANK	25	-0.000245	LO I
10:45	2	CCV	49017	0.111506	F
10:46	0	CCB	13	-0.000273	LO I
10:47	0	BASELINE	0	-0.000302	BL I
10:48	228	DM5GD1CV	0	0.000000	
10:50	229	DM5GG1CV	0	0.000000	
~~10:51~~	~~230~~	~~DM5GH1A3~~	~~0~~	~~0.000000~~	

---------- User request: End Run ----------

CHW 10-24-00 Run on 101900A.RST

CYANIDE: Calibration, Peak 5-249

File name: C:\FLOW_4\101900A.RST
Date: October 19, 2000
Operator: ERIC WESOLOSKI E. I. Wesoloski 10/19/00

673 1940

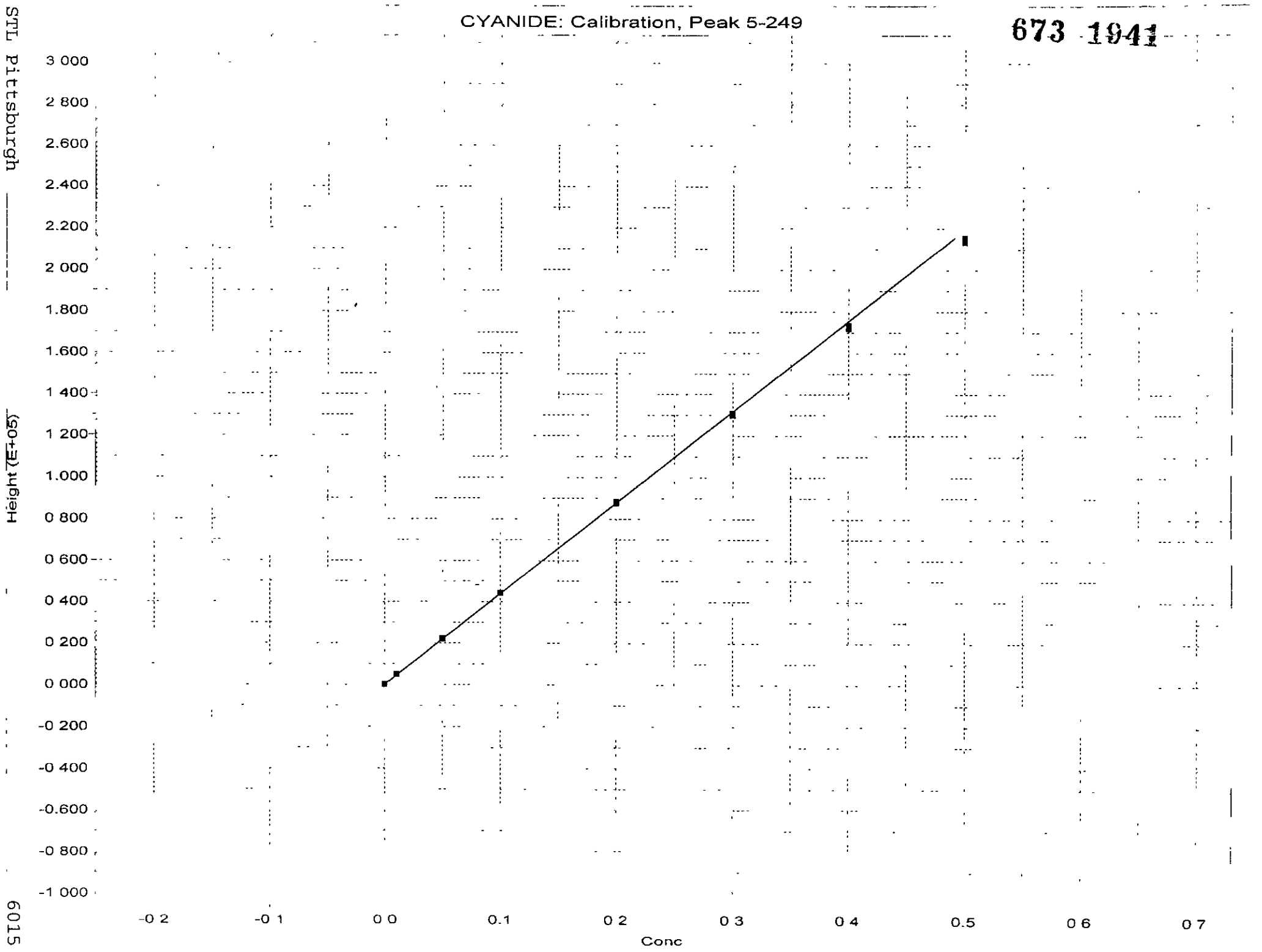
*	Name	Conc	Height
*	0.500 PPM STD	0.500000	215431.937500
*	0.500 PPM STD	0.500000	213375.750000
*	0.500 PPM STD	0.500000	213562.437500
*	0.400 PPM STD	0.400000	173345.406250
*	0.400 PPM STD	0.400000	171896.546875
*	0.400 PPM STD	0.400000	172399.203125
*	0.300 ppm STD	0.300000	130914.570312
*	0.300 ppm STD	0.300000	129778.250000
*	0.300 ppm STD	0.300000	130900.679688
*	0.200 PPM STD	0.200000	87430.273438
*	0.200 PPM STD	0.200000	88191.500000
*	0.200 PPM STD	0.200000	88057.226562
*	0.100 PPM STD	0.100000	44210.703125
*	0.100 PPM STD	0.100000	44414.226562
*	0.100 PPM STD	0.100000	44310.078125
*	0.050 PPM STD	0.050000	22355.517578
*	0.050 PPM STD	0.050000	22255.011719
*	0.050 PPM STD	0.050000	21941.222656
*	0.010 PPM STD	0.010000	4907.999023
*	0.010 PPM STD	0.010000	4931.395020
*	0.010 PPM STD	0.010000	4834.852051
*	0.000 PPM STD	0.000000	102.716782
*	0.000 PPM STD	0.000000	84.114349
*	0.000 PPM STD	0.000000	111.243408

Calib Coef:
y=bx+a
a: (intercept) 1.3241e+02
b: 4.3841e+05

Corr Coef: 0.999928

Carryover: 0.189%

No Drift Peaks


CYANIDE: Calibration, Peak 5-249
673 1941
STL Pittsburgh
Height (E+05)
3 000
2 800
2.600
2.400
2.200
2 000
1.800
1.600
1 400
1 200
1.000
0 800
0 600
0 400
0 200
0 000
-0 200
-0 400
-0.600
-0 800
-1 000
-0 2
-0 1
0 0
0.1
0 2
0 3
0 4
0.5
0 6
0 7
Conc
6015

Run Results Report
Results: C:\FLOW_4\101900B.RST
Results completed: 12:16 October 19, 2000.
Operator: ERIC WESOLOSKI E. L. Wesoloski 10/19/00

673 1942

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
----------	User request:	Start Data Collect	----------		
11:00	0	CARRYOVER	718	0.001465	
11:01	0	CARRYOVER	92	0.000144	
	Mean & RSD:		405	0.000804	NoRSD
11:02	0	READ BASELIN	0	-0.000051	BL
11:04	301	0.500 PPM ST	237159	0.500265	HI
11:05	301	0.500 PPM ST	237527	0.501043	HI
11:06	301	0.500 PPM ST	233243	0.492005	
	Mean & RSD:		235976	0.497771	1.01%
11:07	302	0.400 PPM ST	188582	0.397786	
11:08	302	0.400 PPM ST	188748	0.398138	
11:09	302	0.400 PPM ST	188145	0.396866	
	Mean & RSD:		188492	0.397596	.165%
11:11	303	0.300 ppm ST	142090	0.299705	
11:12	303	0.300 ppm ST	143487	0.302653	
11:13	303	0.300 ppm ST	141281	0.297998	
	Mean & RSD:		142286	0.300119	.784%
11:14	304	0.200 PPM ST	95065	0.200501	
11:15	304	0.200 PPM ST	95110	0.200595	
11:16	304	0.200 PPM ST	94293	0.198873	
	Mean & RSD:		94823	0.199990	.484%
11.18	305	0.100 PPM ST	47743	0.100669	
11:19	305	0.100 PPM ST	47648	0.100469	
11:20	305	0.100 PPM ST	47900	0.100999	
	Mean & RSD:		47764	0.100713	.266%
11:21	306	0.050 PPM ST	24109	0.050810	
11:22	306	0.050 PPM ST	23931	0.050435	
11:23	306	0.050 PPM ST	23909	0.050388	
	Mean & RSD:		23983	0.050544	.458%
11:25	307	0.010 PPM ST	5439	0.011423	
11:26	307	0.010 PPM ST	5333	0.011200	
11:27	307	0.010 PPM ST	5333	0.011200	
	Mean & RSD:		5368	0.011274	1.14%
11:28	0	0.000 PPM ST	-28	-0.000109	LO
11:29	0	0.000 PPM ST	-30	-0.000113	LO
11:30	0	0.000 PPM ST	-60	-0.000178	LO OL
	Mean & RSD:		-29	-0.000111	63.4%
11:32	0	BLANK	-34	-0.000122	LO
11:33	2	CCV 7212609	48934	0.103182	103.2%
11:34	0	CCB	-10	-0.000072	LO
11:35	0	BASELINE	0	-0.000051	BL
11:36	190	DM3FG1F4S	45669	0.096295	96.3%
11:37	0	BLANK	29	0.000010	
11:39	2	CCV 7212609	49245	0.103837	103.8%

Results: C:\FLOW_4\101900B.RST
Results completed: 12:16 October 19, 2000.
Operator: ERIC WESOLOSKI C. E. Wesoloski 10/19/00

673 1943

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
11:40	0	CCB	-3	-0.000057	LO
11:41	0	BASELINE	0	-0.000051	BL
11:42	219	DNA0G1ACC	80302	0.169355	105.9%
11:43	0	ICB	13	-0.000024	LO
11:44	0	BLANK	7	-0.000036	LO
11:46	2	CCV 7212609	49354	0.104067	104.1%
11:47	0	CCB	13	-0.000024	LO
11:48	0	BASELINE	0	-0.000051	BL
11:49	220	DNA0G1AAB	1658	0.003447	
11:50	221	DM5F51CV	1719	0.003576	RPD 0%
11 51	222	DM5F51C1X	1714	0.003566	
11:53	223	DM5F51C0S	46599	0.098256	98.3%
11:54	224	DM5F61CV	1720	0.003578	
11:55	225	DM5F71CV	1819	0.003786	
11:56	226	DM5F91CV	1816	0.003781	
11:57	227	DM5GC1CV	1797	0.003740	
11:58	0	BLANK	-56	-0.000168	LO
12:00	2	CCV 7212609	49618	0.104625	104.6%
12:01	0	CCB	2	-0.000047	LO
12:02	0	BASELINE	0	-0.000051	BL
12:03	228	DM5GD1CV	1709	0.003554	
12:04	229	DM5GG1CV	2153	0.004491	
12:05	230	DM5GH1A3	2208	0.004606	
12:07	0	BLANK	-74	-0.000207	LO
12:08	2	CCV 7212609	48908	0.103126	103.1%
12:09	0	CCB	-11	-0.000074	LO
12:10	0	BASELINE	0	-0.000051	BL

CYANIDE: Calibration, Peak 5-62

673 1944

File name: C:\FLOW_4\101900B.RST
Date: October 19, 2000
Operator: ERIC WESOLOSKI E. T. Wesoloski 10/19/00

*	Name	Conc	Height
*	0.500 PPM STD	0.500000	237158.640625
*	0.500 PPM STD	0.500000	237527.156250
*	0.500 PPM STD	0.500000	233243.093750
*	0.400 PPM STD	0.400000	188581.500000
*	0.400 PPM STD	0.400000	188748.500000
*	0.400 PPM STD	0.400000	188145.468750
*	0.300 ppm STD	0.300000	142089.718750
*	0.300 ppm STD	0.300000	143487.046875
*	0.300 ppm STD	0.300000	141280.625000
*	0.200 PPM STD	0.200000	95065.156250
*	0.200 PPM STD	0.200000	95109.929688
*	0.200 PPM STD	0.200000	94293.242188
*	0.100 PPM STD	0.100000	47743.164062
*	0.100 PPM STD	0.100000	47648.437500
*	0.100 PPM STD	0.100000	47899.675781
*	0.050 PPM STD	0.050000	24109.097656
*	0.050 PPM STD	0.050000	23931.341797
*	0.050 PPM STD	0.050000	23908.757812
*	0.010 PPM STD	0.010000	5438.900879
*	0.010 PPM STD	0.010000	5333.032227
*	0.010 PPM STD	0.010000	5332.993164
*	0.000 PPM STD	0.000000	-27.717327
*	0.000 PPM STD	0.000000	-29.550718
*	0.000 PPM STD	0.000000	-60.022335

Calib Coef:
y=bx+a
a: (intercept) 2.4152e+01
b: 4.7402e+05

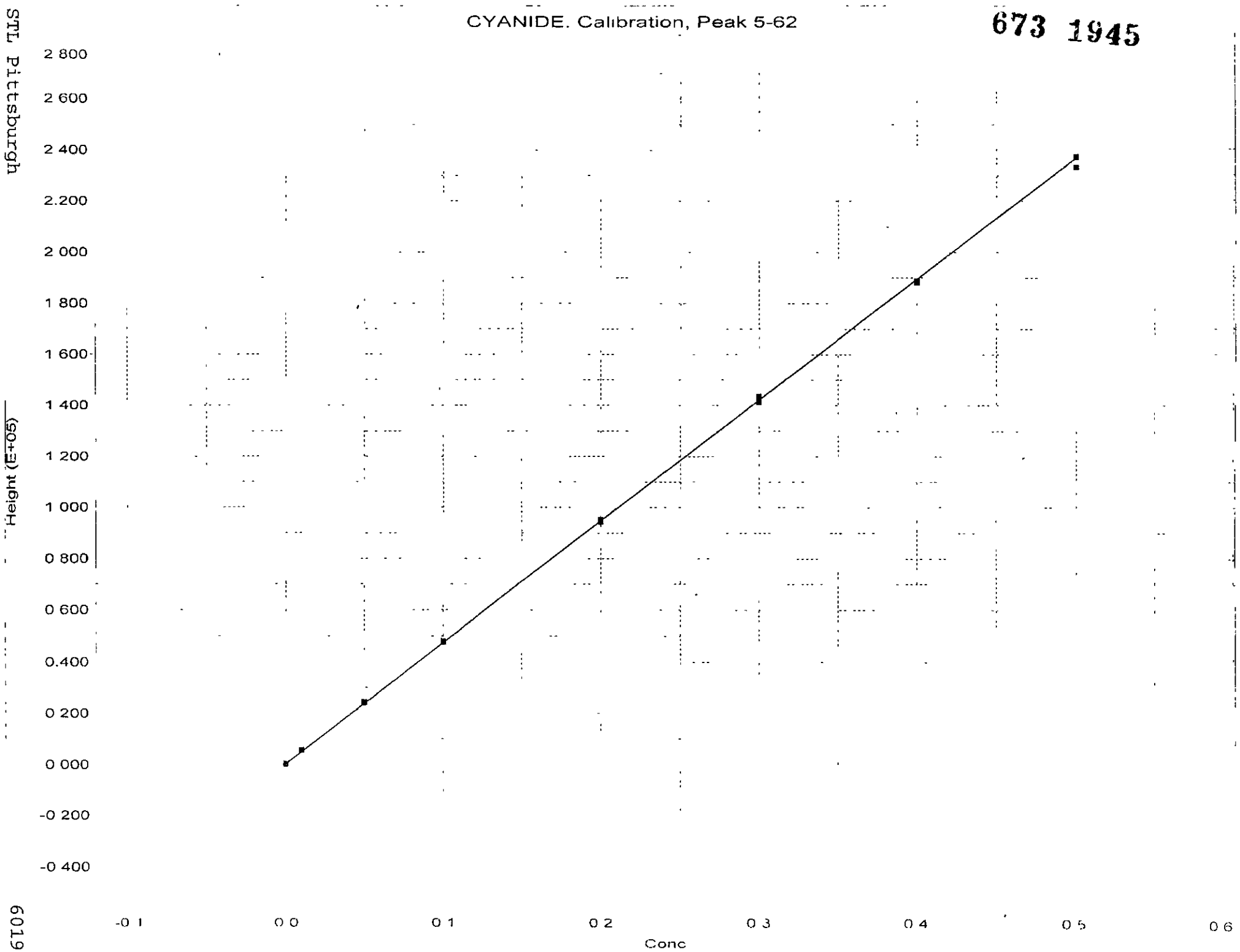
Corr Coef: 0.999949

Carryover: 0.156%

No Drift Peaks

SIL Pittsburgh

673 1945



6019

Cyanide Distillation Worksheet

COJ140161
COJ100221
COJ120221
COJ130188
COJ140188
Total 029020Z

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

6731946

Distilled by: P. Johnson (Start 1000) | Date: 10-16-00 | Reagent /Std Book ID: 242-172-10 | 242-172-8 | 242-152-6 balance 626283

Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1. MLZ101B	1.000g	50mL			NA
2. MLZ102C	1.000g	↓			NA
3. MB0101A5	1.000g				10-22-00
4. MB0101A8	1.000g				↓
5. MB0101CA3	1.000g				10-22-00
6. MLZ1VIAP	1.000g				10-24-00
7. MLZ1VIAP	1.000g				10-24-00
8. MLZ1X1A2	1.000g				10-25-00
9. MLZ1W1A2	1.000g				10-25-00
10.		50mL			
11.					
12.					
13					
14					
15.					
16.					
17.					
18.					
19					
20.					
21.			P. Johnson 10-16-00		
22.					
23.					
24					
25					
26.					

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-9	10-16-00 10-19-00	1145 0400	P. Johnson	WC	10-16-00 10-19-00	1145 1300	P. Johnson	Disposal

Comments: ICV 82.5mg/kg 12.12.5.06
MS/MSD 5.2mg/kg 10.5mg/kg 12.14.5.02 To 1.000g of Samples

Reviewed by: [signature] Date: 10-17-00

COJ100226
COJ120299 Total 0290203

Cyanide Distillation Worksheet

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

Distilled by: J. Johnson Start 1000 | Date: 10.16.00 | Reagent /Std Book ID: 342.17210/342.1738/342.1522

	Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1.	MMLY101B	50ml	50ml			NA
2.	MMLY102B					NA
3.	MMLW101					10.21.00
4.	MMLW12AS					
5.	MMLW12CS					
6.	MMAX1AW					
7.	MMAL1AT	50ml	50ml			10.24.00
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.			J. Johnson	10.16.00		
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-7	10-19-00	0405		WC	10-19-00	1305		Disposal

Comments: LCS 10ppm 12.125.01, 12.125.02 To 50ml of Sample
MS/MSD 0.1ppm 12.125.01 of 12.125.02

Reviewed by: Date: 10-17-00

STL Pittsburgh

Cyanide Distillation Worksheet

COC100221 Free 0290205

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

Distilled by: J. Johnson Start 1300 | Date: 10-16-00 | Reagent /Std Book ID: 542-227-10/93408/9323-09 | Balance 627.383

	Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1	JM7MA101B	1.000g	50ml			NA
2	JM7MA102C	1.000g	↓			NA
3	JLVL601T	1.000g	↓			10-21-00
4	JLVL6111S	1.000g	↓			↓
5	JLVL6112S	1.000g	↓			↓
6			50ml			10-21-00
7						
8						
9						
10						
11						
12.						
13						
14						
15						
16.						
17.						
18						
19						
20.				J. L. Johnson	10.16.00	
21						
22.						
23						
24.						
25						
26						

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-5	10-16-00	1415	J. Johnson	WC	10-16-00	1417	J. Johnson	Disposal
	10-19-00	0400			10-19-00	1300		

Comments: 5.0 mg/kg 72-125-00 5.0 mg/kg 72-135-02 To 1.000g of Sample

Reviewed by: [signature] Date: 10-17-00

COJ100226
COJ120299 Free 0290206
COJ120297

Cyanide Distillation Worksheet

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

Distilled by: I. Johnson Start 1200 | Date: 10.16.00 | Reagent /Std Book ID: 342:172:10 | 923408 | 932:09

Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1	50 mL	50 mL			NA
2					NA
3					10.21.00
4					
5					10.21.00
6					10.25.00
7					
8					10.25.00
9					
10					
11	50 mL	50 mL			
12			I. Johnson	10.16.00	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1 - 11	10-16-00 10-19-00	1415 04:00	E. Mutch	WC WC	10-16-00 10-19-00	1415 13:00	E. Mutch	Disposal

Comments: 11 .16 ppm 12 .25 mL of 12.25.02 To 50 mL of Sample

Reviewed by: E. Mutch Date: 10-17-00

Cyanide Distillation Worksheet

COJ120268
COJ130219 Total 0291184

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

Distilled by: A. Johnson Start Hood | Date: 10-17-00 | Reagent /Std Book ID: 242-177-10 | 242-173-8 | 242-152-6

	Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1	MSAK102C	50ml	50ml	NA	NA	NA
2	MSAK101B			NA	NA	NA
3	MJ23IA6			Tan Cloudy	Tan Cloudy	10-24-00
4	MJ23ICX			Tan Cloudy	Tan Cloudy	
5	MJ23ICF5			Tan Cloudy	Tan Cloudy	
6	MJ231A6			Tan Cloudy	Tan Cloudy	
7	MJ23EIAH			Colorless Clear	Colorless Clear	
8	MJ23HIA7			Colorless Clear	Colorless Clear	
9	MJ23KIA6			Colorless Clear	Colorless Clear	
10	MJ23QIAH			Colorless Clear	Colorless Clear	
11	MJ23VIAT			Tan Cloudy	Tan Cloudy	
12	MJ23WIAY			Colorless Clear	Colorless Clear	
13	MJ231IA6			Colorless Clear	Colorless Clear	10-24-00
14	MJ25VIA6			Brown Cloudy	Brown Cloudy	10-25-00
15	MJ238IA9			Brown Cloudy	Brown Cloudy	
16	MJ24FIAL			Tan Cloudy	Tan Cloudy	
17	MJ24PIA6			Colorless Clear	Colorless Clear	
18	MJ243IA7			Colorless Clear	Colorless Clear	
19	MJ25FIA6			Colorless Clear	Colorless Clear	
20	MJ26MIA6	50ml	50ml	Colorless Clear	Colorless Clear	10-25-00
21						
22						
23						
24						
25				A. Johnson	10-17-00	
26						

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-20	10-17-00	11:45	A. Johnson	WC	10-17-00	11:45	A. Johnson	Disposal
1-20	10-19-00	04:00	[illegible]	WC	10-19-00	13:00	[illegible]	

Comments: Iron Happens 12:25:11
Spike 0.1 ppm 0.5 ml 12:25:09 To 50ml of Sample

Reviewed by: [signature] Date: 10-17-00

Cyanide Distillation Worksheet

COJ120J09
COJ130234
COJ140138
COJ160197
Total 0291189

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

Distilled by: D. Johnson Start 12:30 | Date: 10-12-00 | Reagent /Std Book ID: 242,127-10 | 242,238 | 242,256

Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1 MBGAH02C	50ml	50ml	NA	NA	NA
2 MBGAH01B			NA	NA	NA
3 MBET1CW			Brown Cloudy	Brown Cloudy	10-23-00
4 MBEX1CW			Colorless Clear	Colorless Clear	
5 MBEF1CW			Colorless Clear	Colorless Clear	
6 MBEL1CW			Colorless Clear	Colorless Clear	
7 MBEH1CW			Colorless Clear	Colorless Clear	
8 MBEB1CW			Colorless Clear	Colorless Clear	10-23-00
9 MBEB1CW			Colorless Clear	Colorless Clear	10-24-00
10 MBEB1CW			Colorless Clear	Colorless Clear	
11 MBEH1CW			Colorless Clear	Colorless Clear	
12 MBEC1CW			Colorless Clear	Colorless Clear	
13 MBEC16AX			Colorless Clear	Colorless Clear	
14 MBEC1FBC			Colorless Clear	Colorless Clear	
15 MBEH1CW			Colorless Clear	Colorless Clear	
16 MBEN1CW			Colorless Clear	Colorless Clear	
17 MBEP1CW			Colorless Clear	Colorless Clear	10-24-00
18 MBZJ1AA			Colorless Clear	Colorless Clear	10-25-00
19 MBTH1AA			Colorless Clear	Colorless Clear	
20 MBZK1AA			Colorless Clear	Colorless Clear	10-25-00
21 MBLOM1AA			Colorless Clear	Colorless Clear	10-26-00
22 MBBOL1AA	50ml	50ml	Colorless Clear	Colorless Clear	10-26-00
23					
24.					
25.					
26.					10-17-00

Distillate(s) (Record line number from)	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-22	10-17-00 10-19-00	1454 0400	D. Johnson	WC	10-17-00 10-19-00	1515 1300	D. Johnson	Disposal

Comments: TLW 10-17-00 12:25:12 10:5 Rec'd 12:25:09 To 50ml of Sample

Reviewed by: Date 10-17-00

602

Cyanide Distillation Worksheet

COC120309 Dissolved 0292150 Total

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

Distilled by: J. Johnson Start 1000 | Date: 10.18.00 | Reagent /Std Book ID: STD112310/242.1009/242.1526

Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1 JHA0CIAC	50ml	50ml	NA	NA	NA
2 JHA0CIAA			NA	NA	NA
3 JM3ETICV			Brown Cloudy	Brown Cloudy	10.23.00
4 JM3EXICV			Colorless Clear	Colorless Clear	
5 JM3EIICV			Colorless Clear	Colorless Clear	
6 JM3E2ICV			Colorless Clear	Colorless Clear	
7 JM3E4ICV			Colorless Clear	Colorless Clear	
8 JM3E6ICV			Colorless Clear	Colorless Clear	10.23.00
9 JM3E8ICV			Colorless Clear	Colorless Clear	10.23.00
10 JM3EJICV			Colorless Clear	Colorless Clear	
11 JM3EEICV			Colorless Clear	Colorless Clear	
12 JM3FCICV			Colorless Clear	Colorless Clear	
13 JM3FC0160X			Colorless Clear	Colorless Clear	
14 JM3FC0FFS			Colorless Clear	Colorless Clear	
15 JM3FHICV			Colorless Clear	Colorless Clear	
16 JM3FNICV			Colorless Clear	Colorless Clear	
17 JM3F1ICV	50ml	50ml	Colorless Clear	Colorless Clear	10.24.00
18					
19					
20					
21					
22					
23					
24			J. Johnson	10.18.00	
25					
26					

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-17	10.18.00 10-19-00	1115 0400	[illegible]	WC WC	10.18.00 10-19-00	1115 1300	[illegible]	Disposal

Comments: ICV initially 72.126.92 Spike 0.5ml of 72.125.1 to 50ml of Sample

Reviewed by: Date: 10-18-0

COJ130266
COJ170157 Total 0292152

Cyanide Distillation Worksheet

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

Distilled by: A. Johnson (Start 1345) | Date: 10/18/00 | Reagent /Std Book ID: 242.17.10 | 242.180.3 | 242.152.6

	Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1.	MNAQEIAC	50ml	50ml	NA	NA	NA
2	MNAQEIAA			NA	NA	NA
3	MMEJICW			Colorless; Clear	Colorless; Clear	10.25.00
4	MMEKICW			Colorless; Clear	Colorless; Clear	
5	MMELICW			Colorless; Clear	Colorless; Clear	
6.	MMEQICW			Colorless; Clear	Colorless; Clear	
7	MMEOICW			Colorless; Clear	Colorless; Clear	
8	MMEPICW			Colorless; Clear	Colorless; Clear	
9	MMEQICW			Brown; Cloudy	Brown; Cloudy	
10.	MMEJIH			Colorless; Clear	Colorless; Clear	
11	MMEKIHX			Colorless; Clear	Colorless; Clear	
12.	MMELIHS			Colorless; Clear	Colorless; Clear	10.25.00
13.	MMEMIAH			Brown; Cloudy	Brown; Cloudy	10.25.00
14	MMEOIAH			Colorless; Clear	Colorless; Clear	
15.	MMEPIAH	50ml	50ml	Brown; Cloudy	Brown; Cloudy	10.25.00
16						
17						
18						
19.						
20						
21.						
22.						
23.				A. Johnson 10.18.00		
24						
25						
26						

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-15	10-18-00	15:00	A. Johnson	WC	10-18-00	15:20	A. Johnson	Disposal
	10-19-00	04:00	[illegible]		10-R-00	13:00	[illegible]	

Comments: Spike 0.5ml of 12.12.6.0 0.5ml of 12.12.5.4 To 50ml of Sample

Reviewed by: [illegible] Date: 10-11-00

Cyanide Distillation Worksheet

COJ130264 Dissolved
Total 042151

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

6731954

Distilled by: J. Johnson Start 1345 | Date: 10.18.00 | Reagent /Std Book ID: 142.7210, 242.1909, 242.5204

Sample ID	Distillation Initial	Distillation Final	Sample Description (CLP Samples Only) Before Distillation	After Distillation	Expiration Date
1 MA0G1AC	50ml	50ml	NA	NA	NA
2 MA0G1AA			NA	NA	NA
3 MAFS1CV			Colorless; Clear	Colorless; Clear	10.25.00
4 MAFS1CX			Colorless; Clear	Colorless; Clear	
5 MAFS1C05			Colorless; Clear	Colorless; Clear	
6 MAFS1CW			Colorless; Clear	Colorless; Clear	
7 MAFS1CW			Colorless; Clear	Colorless; Clear	
8 MAFS1CW			Colorless; Clear	Colorless; Clear	
9 MA6L1CW			Colorless; Clear	Colorless; Clear	
10 MA6L1CW			Colorless; Clear	Colorless; Clear	
11 MA6B1CW			Colorless; Clear	Colorless; Clear	
12 MAGH1A	50ml	50ml	Brown; Cloudy	Brown; Cloudy	
13.			Colorless; Clear	Colorless; Clear	10.25.00
14.					
15					
16.					
17					
18					
19.					
20					
21					
22					
23			J. Johnson 10.18.00		
24.					
25					
26					

Distillate(s) (Record line number from	Distillate(s) Received Date	Time	Analyst	Location	Distillate(s) Relinquished Date	Time	Analyst	Location
1-13	10-18-00	1500	D. Johnson	WC	10-18-00	1530	D. Johnson	Disposal
	10-19-00	04:00	D. Johnson	WC	10-19-00	13:00	D. Johnson	Disposal

Comments: TCN Aliquot 10.23.12.26.00 10.25 Add of 12.5ml To 50ml Sample

Reviewed by: Date:

REQUESTED BY: JOHNSONP

673 1955

METHOD: QP Cyanide, Total

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1E CLP1	DLVLW-1-0T	___ ___ ___	273593	389829	I-06-QP	C0J100226	001		WATER	15	1
1E, CLP1	DLVLG-1-0R	___ ___ ___	273592	389829	A-06-QP	C0J100221	001		SOLID	4	1
2F CLP1	DM2LV-1-A1	___ ___ ___	273594	009072	A-06-QP	C0J120221	001		SOLID	5	1
3F CLP1	DM3AX-1-A4	___ ___ ___	273595	389829	I-06-QP	C0J120299	001		WATER	13	1
3F CLP1	DM3A2-1-AF	___ ___ ___	273596	389829	I-06-QP	C0J120299	002		WATER	13	1
4A	DM4PX-1-A2	___ ___ ___	273597	009072	A-06-QP	C0J130188	001		SOLID	4	1
5E	DM650-1-A8	___ ___ ___	273599	399411	A-06-QP	C0J140161	001		SOLID	2	1
5E CLP1	DM63W-1-A2	___ ___ ___	273598	009072	A-06-QP	C0J140151	001		SOLID	4	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Q. Johnson	P. Q. Johnson	10.16.00 0830
P. Q. Johnson	P. Q. Johnson	10.16.00 1400

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

REQUESTED BY: JOHNSONP

673 1956

METHOD: HF Cyanide, Free (4500CN-I)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1E CLP1	DLVLW-1-OR	___ ___ ___	273585	389829	I-06-HF	COJ100226	001		WATER	15	1
1E, CLP1	DLVLG-1-OT	___ ___ ___	273584	389829	A-06-HF	COJ100221	001		SOLID	4	1
3D CLP1	DM3AW-1-A9	___ ___ ___	273586	389829	I-06-HF	COJ120297	001		WATER	10	1
3D CLP1	DM3A7-1-AL	___ ___ ___	273589	389829	I-06-HF	COJ120297	002		WATER	10	1
3D CLP1	DM3CA-1-AL	___ ___ ___	273590	389829	I-06-HF	COJ120297	003		WATER	10	1
3D CLP1	DM3CH-1-AL	___ ___ ___	273591	389829	I-06-HF	COJ120297	004		WATER	10	1
3F CLP1	DM3AX-1-A3	___ ___ ___	273587	389829	I-06-HF	COJ120299	001		WATER	13	1
3F CLP1	DM3A2-1-AE	___ ___ ___	273588	389829	I-06-HF	COJ120299	002		WATER	13	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Johnson	P. Johnson	10.16.00/0830
P. Johnson	P. Johnson	10.16.00/1400

REQUESTED BY: JOHNSONP

673 1957

METHOD: OU Cyanide, Total (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
3B,C,D CLP1	DM228-1-A6	___ ___ ___	274080	375241	I-06-OU	C0J120268	001		WATER	15	1
3B,C,D CLP1	DM23D-1-A6	___ ___ ___	274081	375241	I-06-OU	C0J120268	002		WATER	7	1
3B,C,D CLP1	DM23E-1-AH	___ ___ ___	274082	375241	I-06-OU	C0J120268	003		WATER	9	1
3B,C,D CLP1	DM23H-1-A7	___ ___ ___	274083	375241	I-06-OU	C0J120268	004		WATER	9	1
3B,C,D CLP1	DM23K-1-A6	___ ___ ___	274084	375241	I-06-OU	C0J120268	005		WATER	7	1
3B,C,D CLP1	DM23Q-1-AH	___ ___ ___	274085	375241	I-06-OU	C0J120268	006		WATER	7	1
3B,C,D CLP1	DM23V-1-AT	___ ___ ___	274086	375241	I-06-OU	C0J120268	007		WATER	7	1
3B,C,D CLP1	DM23W-1-A4	___ ___ ___	274087	375241	I-06-OU	C0J120268	008		WATER	5	1
3B,C,D CLP1	DM231-1-A6	___ ___ ___	274088	375241	I-06-OU	C0J120268	009		WATER	7	1
3F 4A CLP1	DM3ET-1-CW	___ ___ ___	274089	063038	I-06-OU	C0J120309	001		WATER	7	1
3F 4A CLP1	DM3EX-1-CW	___ ___ ___	274090	063038	I-06-OU	C0J120309	002		WATER	7	1
3F 4A CLP1	DM3E1-1-CW	___ ___ ___	274091	063038	I-06-OU	C0J120309	003		WATER	7	1
3F 4A CLP1	DM3E2-1-CW	___ ___ ___	274092	063038	I-06-OU	C0J120309	004		WATER	7	1
3F 4A CLP1	DM3E4-1-CW	___ ___ ___	274093	063038	I-06-OU	C0J120309	005		WATER	7	1
3F 4A CLP1	DM3E6-1-CW	___ ___ ___	274094	063038	I-06-OU	C0J120309	006		WATER	7	1
3F 4A CLP1	DM3E8-1-CW	___ ___ ___	274095	063038	I-06-OU	C0J120309	008		WATER	7	1
3F 4A CLP1	DM3FD-1-CW	___ ___ ___	274096	063038	I-06-OU	C0J120309	009		WATER	7	1
3F 4A CLP1	DM3FF-1-CW	___ ___ ___	274097	063038	I-06-OU	C0J120309	010		WATER	7	1
3F 4A CLP1	DM3FG-1-CW	___ ___ ___	274098	063038	I-06-OU	C0J120309	011		WATER	21	1
3F 4A CLP1	DM3FH-1-CW	___ ___ ___	274099	063038	I-06-OU	C0J120309	012		WATER	7	1
3F 4A CLP1	DM3FN-1-CW	___ ___ ___	274100	063038	I-06-OU	C0J120309	013		WATER	7	1
3F 4A CLP1	DM3FP-1-CW	___ ___ ___	274101	063038	I-06-OU	C0J120309	014		WATER	7	1
4C CLP1	DM42V-1-A6	___ ___ ___	274102	375241	I-06-OU	C0J130219	001		WATER	7	1
4C CLP1	DM438-1-A8	___ ___ ___	274103	375241	I-06-OU	C0J130219	003		WATER	10	1
4C CLP1	DM44E-1-A6	___ ___ ___	274104	375241	I-06-OU	C0J130219	005		WATER	7	1
4C CLP1	DM44P-1-A6	___ ___ ___	274105	375241	I-06-OU	C0J130219	008		WATER	7	1

REQUESTED BY: JOHNSONP

673 1958

METHOD: OU Cyanide, Total (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
4C CLP1	DM443-1-A7	___ ___ ___	274106	375241	I-06-OU C0J130219	009		WATER	9	1
4C CLP1	DM451-1-A6	___ ___ ___	274107	375241	I-06-OU C0J130219	010		WATER	13	1
4C CLP1	DM46M-1-A6	___ ___ ___	274108	375241	I-06-OU C0J130219	011		WATER	7	1
4C,D CLP1	DM47D-1-A6	___ ___ ___	274109	375241	I-06-OU C0J130234	001		WATER	9	1
4C,D CLP1	DM47H-1-A4	___ ___ ___	274110	375241	I-06-OU C0J130234	002		WATER	5	1
4C,D CLP1	DM47K-1-A6	___ ___ ___	274111	375241	I-06-OU C0J130234	004		WATER	7	1
5C CLP1	DM60M-1-A5	___ ___ ___	274112	061874	I-06-OU C0J140138	006		WATER	7	1
5F CLP1	DMBQ6-1-A5	___ ___ ___	274113	061874	I-06-OU C0J160197	001		WATER	7	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. G. Johnson	P. G. Johnson	10/17/00 1010
K. G. Johnson	P. G. Johnson	10/17/00 1600

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

REQUESTED BY: JOHNSONP

673 1959

METHOD: OU Cyanide, Total (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5A CLP1	DM5F5-1-CW	___ ___ ___	274603	063038	I-06-OU	COJ130266	001		WATER	7	1
5A CLP1	DM5F6-1-CW	___ ___ ___	274604	063038	I-06-OU	COJ130266	002		WATER	7	1
5A CLP1	DM5F7-1-CW	___ ___ ___	274605	063038	I-06-OU	COJ130266	003		WATER	7	1
5A CLP1	DM5F9-1-CW	___ ___ ___	274606	063038	I-06-OU	COJ130266	004		WATER	7	1
5A CLP1	DM5GC-1-CW	___ ___ ___	274607	063038	I-06-OU	COJ130266	005		WATER	7	1
5A CLP1	DM5GD-1-CW	___ ___ ___	274608	063038	I-06-OU	COJ130266	006		WATER	7	1
5A CLP1	DM5GG-1-CW	___ ___ ___	274609	063038	I-06-OU	COJ130266	007		WATER	7	1
5A CLP1	DM5GP-1-DP	___ ___ ___	274610	063038	I-06-OU	COJ130266	010		WATER	11	1
6B,C CLP1	DM9RW-1-AH	___ ___ ___	274611	039108	I-06-OU	COJ170157	001		WATER	8	1
6B,C CLP1	DM9R0-1-AH	___ ___ ___	274612	039108	I-06-OU	COJ170157	002		WATER	8	1
6B,C CLP1	DM9R1-1-AH	___ ___ ___	274613	039108	I-06-OU	COJ170157	003		WATER	8	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Q. Johnson	P. Q. Johnson	10-18-00 0845
P. Q. Johnson	P. Q. Johnson	10-18-00 1445

REQUESTED BY: **JOHNSONP**

673 1960

METHOD: 0Y Cyanide, Dissolved (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
3F 4A CLP1	DM3ET-1-CV	___ ___ ___	274582	063038	I-06-0Y	COJ120309	001		WATER	7	1
3F 4A CLP1	DM3EX-1-CV	___ ___ ___	274583	063038	I-06-0Y	COJ120309	002		WATER	7	1
3F 4A CLP1	DM3E1-1-CV	___ ___ ___	274584	063038	I-06-0Y	COJ120309	003		WATER	7	1
3F 4A CLP1	DM3E2-1-CV	___ ___ ___	274585	063038	I-06-0Y	COJ120309	004		WATER	7	1
3F 4A CLP1	DM3E4-1-CV	___ ___ ___	274586	063038	I-06-0Y	COJ120309	005		WATER	7	1
3F 4A CLP1	DM3E6-1-CV	___ ___ ___	274587	063038	I-06-0Y	COJ120309	006		WATER	7	1
3F 4A CLP1	DM3E8-1-CV	___ ___ ___	274588	063038	I-06-0Y	COJ120309	008		WATER	7	1
3F 4A CLP1	DM3FD-1-CV	___ ___ ___	274589	063038	I-06-0Y	COJ120309	009		WATER	7	1
3F 4A CLP1	DM3FF-1-CV	___ ___ ___	274590	063038	I-06-0Y	COJ120309	010		WATER	7	1
3F 4A CLP1	DM3FG-1-CV	___ ___ ___	274591	063038	I-06-0Y	COJ120309	011		WATER	21	1
3F 4A CLP1	DM3FH-1-CV	___ ___ ___	274592	063038	I-06-0Y	COJ120309	012		WATER	7	1
3F 4A CLP1	DM3FN-1-CV	___ ___ ___	274593	063038	I-06-0Y	COJ120309	013		WATER	7	1
3F 4A CLP1	DM3FP-1-CV	___ ___ ___	274594	063038	I-06-0Y	COJ120309	014		WATER	7	1
5A CLP1	DM5F5-1-CV	___ ___ ___	274595	063038	I-06-0Y	COJ130266	001		WATER	7	1
5A CLP1	DM5F6-1-CV	___ ___ ___	274596	063038	I-06-0Y	COJ130266	002		WATER	7	1
5A CLP1	DM5F7-1-CV	___ ___ ___	274597	063038	I-06-0Y	COJ130266	003		WATER	7	1
5A CLP1	DM5F9-1-CV	___ ___ ___	274598	063038	I-06-0Y	COJ130266	004		WATER	7	1
5A CLP1	DM5GC-1-CV	___ ___ ___	274599	063038	I-06-0Y	COJ130266	005		WATER	7	1
5A CLP1	DM5GD-1-CV	___ ___ ___	274600	063038	I-06-0Y	COJ130266	006		WATER	7	1
5A CLP1	DM5GG-1-CV	___ ___ ___	274601	063038	I-06-0Y	COJ130266	007		WATER	7	1
5A CLP1	DM5GH-1-A3	___ ___ ___	274602	063038	I-06-0Y	COJ130266	008		WATER	2	1

REQUESTED BY: JOHNSONP

673 1961

METHOD: OY Cyanide, Dissolved (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Johnson	P. Johnson	10-18-00 0845
P. Johnson	P. Johnson	10-18-00 1445

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

673 1962

10012

STL Pittsburgh

TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

7 Groups

Lot No.	Lot No.	Lot No.	Batch No.
COJ140115.	COJ100195.	COJ130184	0290219
COJ140161.	COJ060278.	COJ130236	0290220
COJ130199.	COJ060278 [illegible]	COJ110120	0290223
COJ130215.	COJ110110.	COJ160114	0290226
COJ130334.	COJ110112	COJ160120	0290227

Analyst: C. LOWE-YDE

In: Date 10/6/00 Time 1630

Out: Date 10/7/00 Time 0430

Balance ID #: C94817

Oven Temp: 103°C±2°C

Additional LOTIS + Additional Batch on 437A

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ140115-001	56	1.07	6.86	3.67
-001D	38	1.09	7.26	4.29
-002	59	1.08	6.54	3.03
-003	29	1.08	5.95	1.75
-004	10	1.07	5.55	1.57
-008	53	1.05	5.88	2.19
-009	19	1.08	6.45	2.22
-010	8	1.11	6.58	2.52
-011	26	1.06	6.54	2.65
-012	1151	1.13	7.04	2.66
-013	108	1.08	6.80	2.05
-014	49	1.04	5.72	1.82
-015	XX	1.10	7.37	2.56
-016	V	1.11	9.01	2.09
-017	72	1.06	6.18	1.79
COJ160221-004 <-018	32	1.07	6.53	1.89
-019	21C	1.13	6.68	1.72
-020	40	1.07	6.55	2.34
-021	111	1.10	7.37	2.60
COJ140161-001	91	1.05	6.21	5.65
COJ130199-001	25	1.08	6.87	6.02
-002	55	1.08	6.10	5.31
-003	28	1.06	7.17	6.71
-004	73	1.06	6.07	5.58
-005	92	1.08	6.19	5.36
-006	104	1.08	6.43	5.57
-006D	102	1.05	6.56	5.74
-007	110	1.07	6.66	5.77
-008	27	1.06	6.23	5.41
-009	109	1.06	6.13	5.37
-010	79	1.09	6.82	6.01
-011	64	1.06	7.03	5.54
-012	88	1.08	6.80	6.11
-013	62	1.09	6.82	6.00
-014	5	1.06	6.92	6.01
-015	47	1.03	6.53	5.80

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ130199-016	1	1.05	6.63	5.88
COJ130215-001	46	1.07	7.35	6.34
-001D	89	1.07	6.89	5.79
-002	61	1.07	6.80	5.86
-003	90	1.07	6.07	5.13
-004	E1	1.13	6.95	6.16
-005	96	1.05	6.00	5.11
-006	74	1.08	7.01	6.05
-007	P4	1.13	6.59	5.71
COJ130334-001	153	1.13	6.20	5.05
COJ100195-001	86	1.06	6.00	3.90
-002	14	1.06	5.72	3.87
-003	21	1.04	6.29	4.71
COJ060278-001	51	1.04	9.25	8.49
-002	15	1.04	8.42	7.53
COJ060111-001	54	1.05	6.13	5.35
-002	63	1.08	6.20	3.58
-003	100	1.07	6.34	5.32
-004	48	1.07	6.66	5.29
COJ110110-001	70	1.08	7.91	6.91
-001D	33	1.06	7.62	6.65
-002	95	1.06	8.04	6.79
-003	6	1.04	10.84	9.28
-004	3	1.06	6.25	5.47
-005	23	1.08	9.86	8.29
-006	4	1.07	6.16	5.15
-007	AB	1.15	6.52	5.83
-008	7	1.04	6.40	5.51
-009	20	1.07	7.15	6.05
-010	68	1.06	7.30	6.11
-011	181	1.12	5.98	4.91
-012	17	1.07	5.51	4.44
-013	52	1.05	5.93	5.30
-014	58	1.07	6.20	5.38
-015	44	1.05	6.26	5.33
-016	101	1.05	7.11	6.06

STL Pittsburgh

673 1963

TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Lot No.	Lot No.	Lot No.	Batch No.
COJ160121			0290230
COJ110130			0290239
COJ220233			0290240
			0290241
			0290289

Analyst: CLLOHENDEG 0915

In: Date 6-16-00 Time 0830

Out: Date 10/7/00 Time 043

Balance ID #: C94817

Oven Temp. 103°C±2°C

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ110110-017	36	1.07	6.15	4.34
-018	35	1.07	6.40	4.88
COJ110112-001	42	1.06	6.12	4.49
-001D	75	1.09	6.34	4.68
-002	66	1.03	7.28	5.54
-003	39	1.06	6.65	4.84
-004	106	1.08	5.98	4.48
-005	82	1.08	5.64	4.32
-006	98	1.06	5.70	4.42
-007	93	1.07	5.42	4.10
-008	85	1.08	6.29	4.46
-009	41	1.06	6.85	4.47
-010	81	1.04	6.58	5.05
-011	84	1.08	5.48	4.62
-013	99	1.05	5.78	4.24
-014	97	1.06	6.12	4.45
-015	31	1.07	5.83	4.20
-016	77	1.05	6.63	5.13
-017	16	1.03	6.61	5.47
-018	2	1.07	5.95	4.62
-019	CA	1.13	5.96	4.40
-020	105	1.07	6.80	5.32
-021	9	1.06	6.34	4.82
-022	65	1.09	6.02	4.88
-022D	43	1.04	6.01	4.77
-023	22	1.06	7.37	5.11
-024	107	1.05	6.34	1.49
COJ130184-001	112	1.05	6.36	5.80
-001D	83	1.07	6.25	5.68
COJ130236-001	30	1.05	6.22	5.44
-002	80	1.07	6.32	5.16
COJ110126-006	50	1.06	6.36	5.47
-006D	45	1.05	6.19	5.33
-007	18	1.08	6.36	5.69
-008	37	1.08	6.70	6.06
-009	67	1.08	7.02	6.08

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ110126-010	60	1.07	7.90	6.75
-011	69	1.05	6.93	6.18
-012	71	1.07	5.88	5.09
-013	34	1.06	7.49	6.70
-014	87	1.08	6.51	5.56
-015	11	1.06	6.74	5.95
-016	12	1.06	6.09	5.25
-017	13	1.07	6.81	5.64
-018	21B	1.11	6.33	5.86
COJ160114-001	P17	1.07	7.36	6.98
-001D	P16	1.06	6.92	6.61
-002	J19	1.07	6.18	6.04
-003	P10	1.07	6.81	5.78
-004	E5	1.07	6.87	6.47
-005	TF	1.03	5.92	4.73
-006	129	1.08	6.60	5.52
-007	Y10	1.07	6.36	5.25
COJ160120-001	Z	1.00	6.25	4.41
COJ160121-004	PA	1.08	SAMPLE LOST	5-018
COJ110130-001	Y1	1.07	7.08	5.35
-002	IAA	1.01	7.09	5.74
-003	J7	1.07	7.13	5.58
-004	J5	1.07	7.92	6.15
-005	Y20	1.07	7.15	5.49
-006	Y8	1.07	7.90	6.39
-007	P15	1.08	5.91	1.99
-008	X2D	1.12	6.39	1.94
-009	P28	1.08	6.67	2.35
COJ220233-001	103	1.06	6.19	5.47

STL - Pittsburgh WATER CONTENT SHEET

EET NUM 0010012
TESTED: CLL 10/16/00
CHECKED: RMC 10-17-00

CREATED: 10/16/00 11.09.59 AM
REVISED: 10/17/00 8.36:32 AM

COMMENTS:
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0J140115	001	SMP	56	1.07	6.86	3.67	8:30	4:30	3.19	55 095	44.905
C0J140115	001D	SMP	38	1.09	7.26	4.29	8:30	4:30	2.97	48.136	51 864
C0J140115	002	SMP	59	1 08	6.54	3.03	8:30	4 30	3.51	64.286	35.714
C0J140115	003	SMP	29	1 08	5.95	1.75	8:30	4.30	4.2	86.242	13.758
C0J140115	004	SMP	10	1.07	5.55	1.57	8:30	4:30	3.98	88.839	11.161
C0J140115	008	SMP	53	1.5	5.88	2.19	8:30	4 30	3 69	84.247	15.753
40115	009	SMP	19	1.08	6.45	2.22	8:30	4:30	4.23	78.771	21.229
C0J140115	010	SMP	8	1.11	6.58	2.52	8:30	4.30	4 06	74.223	25.777
C0J140115	011	SMP	26	1.06	6.54	2 65	8 30	4.30	3 89	70.985	29.015
C0J140115	012	SMP	1151	1.13	7.04	2.66	8:30	4:30	4.38	74.112	25.888
C0J140115	013	SMP	108	1.08	6.8	2.05	8 30	4:30	4.75	83.042	16 958
C0J140115	014	SMP	49	1.04	5 72	1.82	8 30	4:30	3.9	83.333	16.667
C0J140115	015	SMP	XX	1 1	7 37	2.56	8:30	4:30	4 81	76.715	23 285
C0J140115	016	SMP	V	1.11	7.01	2.09	8 30	4:30	4.92	83.39	16 61
C0J140115	017	SMP	72	1.06	6.18	1.79	8 30	4 30	4.39	85 742	14 258
~~C0J140115~~ RELOGGED AS LOT # C0J160121-004	018	SMP	32	1 07	6 53	1.89	8 30	4:30	4.64	84.982	15.018
C 140115	019	SMP	21C	1.13	6 65	1 72	8 30	4:30	4.93	89 312	10 688
C0J140115	020	SMP	40	1.07	6 55	2 34	8 30	4:30	4.21	76 825	23 175

RPD 14%

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM: 0010012
TESTED: CLL 10/16/00
CHECKED: JMF 10-17-0-

CREATED: 10/16/00 11:09:59 AM
REVISED: 10/17/00 8:36:32 AM

COMMENTS:
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0J140115	021	SMP	111	1.1	7.37	2.6	8:30	4:30	4.77	76.077	23.923
C0J140161	001	SMP	91	1.05	6.21	5.65	8:30	4:30	0.56	10.853	89.147
C0J130199	001	SMP	25.	1.08	6.87	6 02	8:30	4:30	0.85	14.68	85.32
C0J130199	002	SMP	55	1.08	6.1	5.31	8:30	4:30	0 79	15.737	84.263
C0J130199	003	SMP	28	1.06	7 17	6.71	8:30	4:30	0.46	7.529	92.471
C0J130199	004	SMP	73	1.06	6.07	5 58	8:30	4.30	0 49	9.78	90 22
130199	005	SMP	92	1 08	6.19	5.36	8:30	4:30	0 83	16.243	83.757
C0J130199	006	SMP	104	1.08	6.43	5.57	8.30	4:30	0.86	16 075	83.925 RPD 1.408
C0J130199	006D	SMP	102	1.05	6 56	5.74	8:30	4 30	0 82	14 882	85.118
C0J130199	007	SMP	110	1 07	6.66	5.77	8:30	4:30	0 89	15 921	84.079
C0J130199	008	SMP	27	1.06	6.23	5.41	8:30	4:30	0.82	15 861	84.139
C0J130199	009	SMP	109	1.06	6.13	5.37	8.30	4 30	0.76	14.99	85 01
C0J130199	010	SMP	79	1 09	6.82	6.01	8:30	4:30	0 81	14 136	85.864
C0J130199	011	SMP	64	1.06	7 03	5.54	8:30	4:30	1.49	24.958	75 042
C0J130199	012	SMP	88	1.08	6.8	6 11	8:30	4.30	0 69	12.063	87.937
C0J130199	013	SMP	62	1 09	6.82	6	8 30	4 30	0.82	14 311	85.689
C0J130199	014	SMP	5	1 06	6 92	6.01	8:30	4 30	0 91	15 529	84 471
C0J130199	015	SMP	47	1.03	6 53	5.8	8:30	4 30	0 73	13.273	86.727

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM: 0010012
TESTED: CLL 10/16/00
CHECKED: JMF 10-17-00

CREATED: 10/16/00 11:09.59 AM
REVISED: 10/17/00 8:36.32 AM

COMMENTS:
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J130199	016	SMP	1	1.05	6.63	5.88	8.30	4:30	0.75	13.441	86 559
C0J130215	001	SMP	46	1.07	7 35	6.34	8:30	4:30	1.01	16.083	83.917
C0J130215	001D	SMP	89	1.07	6.89	5.79	8:30	4:30	1.1	18.9	81.1 RPD 3.4%
C0J130215	002	SMP	61	1.05	6 5	5.85	8:30	4 30	0 65	11.927	88.073
C0J130215	003	SMP	90	1.07	6.07	5.13	8:30	4:30	0.94	18 8	81.2
C0J130215	004	SMP	E1	1 13	6.95	6.16	8 30	4:30	0.79	13 574	86.426
30215	005	SMP	96	1.05	6	5.11	8:30	4:30	0.89	17.98	82.02
C0J130215	006	SMP	74	1.08	7.01	6.05	8:30	4:30	0.96	16.189	83 811
C0J130215	007	SMP	PU	1.13	6 59	5 71	8:30	4:30	0.88	16.117	83.883
C0J130334	001	SMP	153	1.13	6 2	5.05	8:30	4:30	1.15	22.682	77.318
C0J100195	001	SMP	86	1 06	6	3.9	8 30	4:30	2.1	42.51	57 49
C0J100195	002	SMP	14	1 06	5.72	3.87	8 30	4:30	1.85	39.7	60.3
C0J100195	003	SMP	21	1.04	6 29	4.71	8.30	4:30	1.58	30.095	69.905
C0J060278	001	SMP	51	1.04	9.25	8 49	8:30	4:30	0.76	9.257	90 743
C0J060278	002	SMP	15	1 04	8 42	7 53	8:30	4:30	0.89	12 06	87.94
C0J060111	001	SMP	54	1 05	6.13	5.35	8:30	4:30	0.78	15.354	84.646
C0J060111	002	SMP	63	1 08	6.2	3.58	8:30	4 30	2.62	51.172	48 828
C0J060111	003	SMP	100	1.07	6.34	5 32	8:30	4:30	1.02	19.355	80 645

673 1967

STL - Pittsburgh WATER CONTENT SHEET

IEET NUM 0010012
TESTED: CLL 10/16/00
CHECKED: RMC 10-17-00

CREATED: 10/16/00 11:09:59 AM
REVISED: 10/17/00 8:36:32 AM

COMMENTS:
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC
C0J060111	004	SMP	48	1 07	6.66	5 29	8:30	4:30	1 37	24.508	75.492
C0J110110	001	SMP	70	1.08	7.91	6.91	8:30	4 30	1	14 641	85.359
C0J110110	001D	SMP	33	1.06	7.62	6 65	8:30	4:30	0.97	14.787	85.213
C0J110110	002	SMP	95	1.06	8.04	6.79	8:30	4.30	1.25	17.908	82.092
C0J110110	003	SMP	6	1.04	10.84	9.28	8:30	4:30	1.56	15 918	84.082
C0J110110	004	SMP	3	1 06	6.25	5.47	8:30	4:30	0 78	15 029	84.971
'10110	005	SMP	23	1.08	9.86	8.29	8:30	4:30	1.57	17.882	82 118
C0J110110	006	SMP	4	1.07	6.16	5 15	8:30	4:30	1 01	19.843	80.157
C0J110110	007	SMP	AB	1.15	6.52	5.83	8:30	4.30	0.69	12.849	87.151
C0J110110	008	SMP	7	1.04	6.4	5.51	8:30	4.30	0.89	16.604	83.396
C0J110110	009	SMP	20	1.07	7 15	6.05	8 30	4:30	1.1	18 092	81.908
C0J110110	010	SMP	68	1 06	7 3	6.11	8:30	4:30	1.19	19.071	80.929
C0J110110	011	SMP	181	1 12	5.98	4 91	8:30	4:30	1 07	22 016	77.984
C0J110110	012	SMP	17	1.07	5.51	4.44	8:30	4:30	1.07	24.099	75.901
C0J110110	013	SMP	52	1 05	5.93	5.3	8:30	4.30	0 63	12 91	87.09
C0J110110	014	SMP	58	1.07	6 2	5.38	8.30	4.30	0 82	15 984	84.016
C0J110110	015	SMP	44	1.05	6 26	5 33	8:30	4:30	0.93	17 85	82.15
C0J110110	016	SMP	101	1 05	7.11	6 06	8:30	4:30	1 05	17.327	82 673

STL Pittsburgh

6041

STL - Pittsburgh WATER CONTENT SHEET

EET NUM 0010012
TESTED: CLL 10/16/00
CHECKED: PM 10-17-00

CREATED: 10/16/00 11 09 59 AM
REVISED: 10/17/00 8:36:32 AM

COMMENTS
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0J110110	017	SMP	36	1.07	6.15	4 34	8:30	4:30	1.81	35.63	64.37
C0J110110	018	SMP	35	1.07	6.4	4.88	9:15	4:30	1.52	28.518	71.482
C0J110112	001	SMP	42	1.06	6.12	4 49	9:15	4:30	1.63	32.213	67.787
C0J110112	001D	SMP	75	1.09	6 34	4 68	9 15	4:30	1.66	31.619	68.381
C0J110112	002	SMP	66	1.03	7 28	5.54	9:15	4:30	1.74	27.84	72.16
C0J110112	003	SMP	39	1.06	6.65	4.84	9:15	4:30	1 81	32 379	67.621
10112	004	SMP	106	1.08	5.98	4.48	9:15	4:30	1.5	30.612	69.388
C0J110112	005	SMP	82	1.08	5.64	4.32	9:15	4:30	1.32	28.947	71.053
C0J110112	006	SMP	98	1.06	5.7	4.42	9:15	4:30	1 28	27.586	72 414
C0J110112	007	SMP	93	1 07	5 42	4.1	9:15	4:30	1.32	30.345	69.655
C0J110112	008	SMP	85	1.08	6.29	4.46	9:15	4:30	1.83	35.125	64.875
C0J110112	009	SMP	41	1.06	6 85	4.47	9:15	4:30	2 38	41.105	58 895
C0J110112	010	SMP	81	1.04	6.58	5.05	9:15	4:30	1 53	27.617	72.383
C0J110112	011	SMP	84	1 08	5 48	4 62	9:15	4:30	0 86	19 545	80 455
C0J110112	013	SMP	99	1 05	5.78	4 24	9:15	4:30	1.54	32 558	67 442
C0J110112	014	SMP	97	1 06	6 12	4.45	9:15	4:30	1.67	33.004	66.996
C0J110112	015	SMP	31	1 07	5 83	4.2	9:15	4 30	1.63	34.244	65 756
C0J110112	016	SMP	77	1 05	6 63	5.13	9 15	4 30	1.5	26 882	73.118

RPD 87%

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM: 0010012
TESTED: CLL 10/16/00
CHECKED: INF 10-17-00

CREATED: 10/16/00 11 09:59 AM
REVISED: 10/17/00 8 36:32 AM

COMMENTS:
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J110112	017	SMP	16	1.03	6 61	5.47	9:15	4 30	1 14	20 43	79.57
C0J110112	018	SMP	2	1.07	5.95	4.62	9:15	4:30	1.33	27.254	72.746
C0J110112	019	SMP	CA	1 13	5.96	4.4	9:15	4 30	1.56	32.298	67 702
C0J110112	020	SMP	105	1 07	6.8	5 23	9:15	4:30	1.57	27 4	72 6
C0J110112	021	SMP	9	1.06	6 34	4 82	9:15	4:30	1 52	28.788	71.212
C0J110112	022	SMP	65	1.09	6.02	4.88	9.15	4:30	1.14	23.124	76.876
'10112	022D	SMP	43	1.04	6 01	4.77	9:15	4:30	1.24	24.95	75.05
C0J110112	023	SMP	22	1.06	7.37	5.11	9:15	4:30	2.26	35 816	64.184
C0J110112	024	SMP	107	1.05	6.34	1.49	9:15	4.30	4.85	91.682	8 318
C0J130184	001	SMP	112	1.05	6.36	5.8	9:15	4:30	0.56	10.546	89 454
C0J130184	001D	SMP	83	1 07	6.25	5.68	9:15	4:30	0.57	11.004	88 996
C0J130236	001	SMP	30	1.05	6.22	5 44	9:15	4:30	0.78	15.087	84.913
C0J130236	002	SMP	80	1.07	6.32	5.16	9:15	4:30	1 16	22.095	77.905
C0J110120	006	SMP	50	1 06	6.36	5 47	9:45	4:30	0.89	16 792	83 208
C0J110120	006D	SMP	45	1.05	6.19	5.33	9.45	4.30	0 86	16 732	83.268
C0J110120	007	SMP	18	1 08	6.36	5 69	9 45	4.30	0.67	12.689	87 311
C0J110120	008	SMP	37	1 08	6.78	6.06	9.45	4.30	0 72	12 632	87.368
C0J110120	009	SMP	67	1.08	7 02	6.08	9 45	4:30	0 94	15 825	84 175

STL - Pittsburgh WATER CONTENT SHEET

EET NUM 0010012
TESTED: CLL 10/16/00
CHECKED PMT 10-17-00

CREATED. 10/16/00 11:09:59 AM
REVISED: 10/17/00 8:36 32 AM

COMMENTS.
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0J110120	010	SMP	60	1 07	7.9	6.75	9:45	4:30	1.15	16.837	83.163
C0J110120	011	SMP	69	1.05	6.93	6.18	9:45	4:30	0 75	12 755	87.245
C0J110120	012	SMP	71.	1 07	5.88	5.09	9:45	4:30	0.79	16.424	83 576
C0J110120	013	SMP	34	1.06	7 49	6.7	9:45	4:30	0.79	12.286	87 714
C0J110120	014	SMP	87	1.08	6.51	5 56	9:45	4 30	0 95	17.495	82.505
C0J110120	015	SMP	11	1 06	6.74	5.95	9 45	4 30	0.79	13.908	86.092
'10120	016	SMP	12	1.06	6.09	5.25	9:45	4.30	0.84	16.7	83.3
C0J110120	017	SMP	13	1.07	6.81	5.64	9:45	4:30	1.17	20.383	79.617
C0J110120	018	SMP	21B	1.11	6.33	5.85	9:45	4:30	0.48	9 195	90 805
C0J160114	001	SMP	P17	1.07	7.36	6.98	11:15	4.30	0.38	6.041	93.959
C0J160114	001D	SMP	P16	1.06	6 97	6.61	11:15	4:30	0.36	6.091	93 909
C0J160114	002	SMP	J19	1.07	6.18	6.04	11:15	4:30	0.14	2 74	97 26
C0J160114	003	SMP	P10	1.07	6 81	5.78	11:15	4 30	1 03	17 944	82.056
C0J160114	004	SMP	E5	1.07	6.87	6 47	11:15	4 30	0 4	6.897	93.103
C0J160114	005	SMP	TF	1 03	5.92	4.73	11.15	4 30	1 19	24.335	75.665
C0J160114	006	SMP	129	1.08	6.6	5.52	11 15	4:30	1.08	19 565	80 435
C0J160114	007	SMP	Y10	1.07	6.36	5.25	11:15	4.30	1.11	20 983	79.017
C0J160120	001	SMP	Z	1	6.25	4.41	11:15	4:30	1 84	35 048	64 952

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0010012
TESTED CLL 10/16/00
CHECKED: PMF 10-17-00

CREATED: 10/16/00 11.09:59 AM
REVISED: 10/17/00 8:36:32 AM

COMMENTS
C0J140115 C0J140161 C0J130199 C0J130215 C0J130334 C0J100195 C0J060278 C0J060111 C0J110110 C0J110112 C0J130184 C0J130236 C0J1101

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0J160121	004	SMP	32	1.07	6.53	1 89	11:15	4:30	4 64	84.982	15.018
C0J110130	001	SMP	Y1	1.07	7.08	5.35	11.15	4:30	1.73	28 785	71.215
C0J110130	002	SMP	1AA	1.01	7.08	5.74	11:15	4.30	1.34	22.076	77.924
C0J110130	003	SMP	J7	1.07	7 13	5 58	11:15	4 30	1 55	25.578	74.422
C0J110130	004	SMP	J5	1 07	7 92	6.15	11:15	4 30	1 77	25.839	74.161
C0J110130	005	SMP	Y20	1.07	7.15	5.49	11:15	4.30	1.66	27.303	72.697
'10130	006	SMP	Y8	1.07	7.9	6.39	11:15	4:30	1 51	22.108	77 892
C0J110130	007	SMP	P15	1 08	5.91	1.99	11:15	4:30	3.92	81.159	18.841
C0J110130	008	SMP	X2D	1.12	6.39	1.94	11:15	4:30	4.45	84.44	15 56
C0J110130	009	SMP	P28	1.08	6 67	2 35	11.15	4.30	4.32	77.281	22.719
COI220233	001	SMP	103	1 06	6.19	5.47	16.00	4:30	0.72	14.035	85 965

673 1972

PSR024 10/16/00 3 27 06 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY LOHEYDSC

METHOD SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
22B,C CLP1	DLME8-1-01		273468	061313	A-88-SM	C0J060111	001	SOLID		0 4	1
22B,C CLP1	DLMEF-1-01		273469	061313	A-88-SM	C0J060111	002	SOLID		0 4	1
22B,C CLP1	DLMEK-1-01		273470	061313	A-88-SM	C0J060111	003	SOLID		0 4	1
22B,C CLP1	DLMEN-1-01		273471	061313	A-88-SM	C0J060111	004	SOLID		0 4	1
1A CLP1	DLP41-1-01		273466	389829	A-88-SM	C0J060278	001	SOLID		0 5	1
1A CLP1	DLP59-1-01		273467	389829	A-88-SM	C0J060278	002	SOLID		0 5	1
1D,E CLP1	DLVDN-1-0M		273463	020247	A-88-SM	C0J100195	001	SOLID		0 5	1
1D,E CLP1	DLVDP-1-0M		273464	020247	A-88-SM	C0J100195	002	SOLID		0 5	1
1D,E CLP1	DLVDQ-1-0M		273465	020247	A-88-SM	C0J100195	003	SOLID		0 5	1
2B,C	DLWD7-1-01		273444	421198	A-88-SM	C0J110110	001	SOLID		0 2	1
	DLWDL-1-01		273445	421198	A-88-SM	C0J110110	002	SOLID		0 2	1
2B,C	DLWDM-1-01		273446	421198	A-88-SM	C0J110110	003	SOLID		0 2	1
2B,C	DLWDN-1-01		273447	421198	A-88-SM	C0J110110	004	SOLID		0 2	1
2B,C	DLWDQ-1-01		273448	421198	A-88-SM	C0J110110	005	SOLID		0 2	1
2B,C	DLWDR-1-01		273449	421198	A-88-SM	C0J110110	006	SOLID		0 2	1
2B,C	DLWDT-1-01		273450	421198	A-88-SM	C0J110110	007	SOLID		0 2	1
2B,C	DLWDV-1-01		273451	421198	A-88-SM	C0J110110	008	SOLID		0 2	1
2B,C	DLWDW-1-01		273452	421198	A-88-SM	C0J110110	009	SOLID		0 2	1
2B,C	DLWE0-1-01		273453	421198	A-88-SM	C0J110110	010	SOLID		0 2	1
2B,C	DLWE1-1-01		273454	421198	A-88-SM	C0J110110	011	SOLID		0 2	1
2B,C	DLWE3-1-01		273455	421198	A-88-SM	C0J110110	012	SOLID		0 2	1
2B,C	DLWE4-1-01		273456	421198	A-88-SM	C0J110110	013	SOLID		0 2	1
2B,C	DLWE5-1-01		273457	421198	A-88-SM	C0J110110	014	SOLID		0 2	1
	DLWE6-1-01		273458	421198	A-88-SM	C0J110110	015	SOLID		0 2	1
2B,C	DLWED-1-01		273459	421198	A-88-SM	C0J110110	016	SOLID		0 2	1
2B,C	DLWEE-1-01		273460	421198	A-88-SM	C0J110110	017	SOLID		0 2	1

REQUESTED BY- **LOHEYDRC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
2B,C	DLWEF-1-01	___ ___ ___	273461	421198	A-88-SM	C0J110110	018		SOLID	0	2 1
4C	DM4TQ-1-AC	___ ___ ___	273421	062480	A-88-SM	C0J130199	001		SOLID	0	1 1
4C	DM4TV-1-AE	___ ___ ___	273422	062480	A-88-SM	C0J130199	002		SOLID	0	1 1
4C	DM4TX-1-AC	___ ___ ___	273423	062480	A-88-SM	C0J130199	003		SOLID	0	1 1
4C	DM4T0-1-AC	___ ___ ___	273424	062480	A-88-SM	C0J130199	004		SOLID	0	1 1
4C	DM4T1-1-AC	___ ___ ___	273425	062480	A-88-SM	C0J130199	005		SOLID	0	1 1
4C	DM4T4-1-AC	___ ___ ___	273426	062480	A-88-SM	C0J130199	006		SOLID	0	2 2
4C	DM4T5-1-AC	___ ___ ___	273427	062480	A-88-SM	C0J130199	007		SOLID	0	1 1
4C	DM4T6-1-AC	___ ___ ___	273428	062480	A-88-SM	C0J130199	008		SOLID	0	1 1
4C	DM4T7-1-AC	___ ___ ___	273429	062480	A-88-SM	C0J130199	009		SOLID	0	1 1
	DM4T8-1-AC	___ ___ ___	273430	062480	A-88-SM	C0J130199	010		SOLID	0	1 1
4C	DM4VA-1-AC	___ ___ ___	273431	062480	A-88-SM	C0J130199	011		SOLID	0	1 1
4C	DM4VD-1-AC	___ ___ ___	273432	062480	A-88-SM	C0J130199	012		SOLID	0	1 1
4C	DM4VG-1-AC	___ ___ ___	273433	062480	A-88-SM	C0J130199	013		SOLID	0	1 1
4C	DM4VJ-1-AC	___ ___ ___	273434	062480	A-88-SM	C0J130199	014		SOLID	0	1 1
4C	DM4VL-1-AC	___ ___ ___	273435	062480	A-88-SM	C0J130199	015		SOLID	0	1 1
4C	DM4VM-1-AC	___ ___ ___	273436	062480	A-88-SM	C0J130199	016		SOLID	0	1 1
4A	DM401-1-AA	___ ___ ___	273437	108812	A-88-SM	C0J130215	001		SOLID	0	1 1
4A	DM41C-1-AA	___ ___ ___	273438	108812	A-88-SM	C0J130215	002		SOLID	0	1 1
4A	DM41G-1-AA	___ ___ ___	273439	108812	A-88-SM	C0J130215	003		SOLID	0	1 1
4A	DM41K-1-AA	___ ___ ___	273440	108812	A-88-SM	C0J130215	004		SOLID	0	1 1
4A	DM41L-1-AA	___ ___ ___	273441	108812	A-88-SM	C0J130215	005		SOLID	0	1 1
4A	DM41Q-1-AA	___ ___ ___	273442	108812	A-88-SM	C0J130215	006		SOLID	0	1 1
4	DM41T-1-AA	___ ___ ___	273443	108812	A-88-SM	C0J130215	007		SOLID	0	1 1
4B CLP1	DM592-1-AA	___ ___ ___	273462	367970	A-88-SM	C0J130334	001		SOLID	0	4 1
5D	DM6M1-1-AA	___ ___ ___	273402	375241	A-88-SM	C0J140115	001		SOLID	0	1 1

REQUESTED BY: LOHEYDEC

A. .OD SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5D	DM6M8-1-AA		273403	375241	A-88-SM	C0J140115	002		SOLID	0	1 1
5D	DM6M9-1-AA		273404	375241	A-88-SM	C0J140115	003		SOLID	0	1 1
5D	DM6NA-1-AF		273405	375241	A-88-SM	C0J140115	004		SOLID	0	1 1
5D	DM6NJ-1-AA		273406	375241	A-88-SM	C0J140115	008		SOLID	0	1 1
5D	DM6NK-1-AF		273407	375241	A-88-SM	C0J140115	009		SOLID	0	1 1
5D	DM6NL-1-AF		273408	375241	A-88-SM	C0J140115	010		SOLID	0	1 1
5D	DM6NM-1-AK		273409	375241	A-88-SM	C0J140115	011		SOLID	0	1 1
5D	DM6NQ-1-AK		273410	375241	A-88-SM	C0J140115	012		SOLID	0	1 1
5D	DM6NR-1-AA		273411	375241	A-88-SM	C0J140115	013		SOLID	0	1 1
5D	DM6NV-1-AA		273412	375241	A-88-SM	C0J140115	014		SOLID	0	1 1
	DM6NX-1-AA		273413	375241	A-88-SM	C0J140115	015		SOLID	0	1 1
5D	DM6N0-1-AA		273414	375241	A-88-SM	C0J140115	016		SOLID	0	1 1
5D	DM6N2-1-AF		273415	375241	A-88-SM	C0J140115	017		SOLID	0	1 1
5D	DM6N5-1-AA		273416	375241	A-88-SM	C0J140115	018		SOLID	0	2 1
5D	DM6N7-1-AA		273417	375241	A-88-SM	C0J140115	019		SOLID	0	1 1
5D	DM6N9-1-AF		273418	375241	A-88-SM	C0J140115	020		SOLID	0	1 1
5D	DM6PC-1-AK		273419	375241	A-88-SM	C0J140115	021		SOLID	0	1 1
5E	DM650-1-AA		273420	399411	A-88-SM	C0J140161	001		SOLID	0	2 1

REQUESTED BY: **LOHEYDEC**

.OD· SM Solids, Percent (as TS - 160 3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		10-16-00 0530
		10-16-00 0840

673 1976

PSR024 10/16/00 3 27 59 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY LOHEYDEC

MOD: SM Solids, Percent (as TS - 160 3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
2B,C	DLWEL-1-01		273472	054156	A-88-SM	C0J110112	001		SOLID	0	1 1
2B,C	DLWEM-1-01		273473	054156	A-88-SM	C0J110112	002		SOLID	0	1 1
2B,C	DLWEN-1-01		273474	054156	A-88-SM	C0J110112	003		SOLID	0	1 1
2B,C	DLWEP-1-01		273475	054156	A-88-SM	C0J110112	004		SOLID	0	1 1
2B,C	DLWER-1-01		273476	054156	A-88-SM	C0J110112	005		SOLID	0	1 1
2B,C	DLWEV-1-01		273477	054156	A-88-SM	C0J110112	006		SOLID	0	1 1
2B,C	DLWEX-1-01		273478	054156	A-88-SM	C0J110112	007		SOLID	0	1 1
2B,C	DLWF0-1-01		273479	054156	A-88-SM	C0J110112	008		SOLID	0	1 1
2B,C	DLWF1-1-01		273480	054156	A-88-SM	C0J110112	009		SOLID	0	1 1
2B,C	DLWF2-1-01		273481	054156	A-88-SM	C0J110112	010		SOLID	0	1 1
	DLWF3-1-01		273482	054156	A-88-SM	C0J110112	011		SOLID	0	1 1
2B,C	DLWF6-1-01		273483	054156	A-88-SM	C0J110112	013		SOLID	0	1 1
2B,C	DLWF8-1-01		273484	054156	A-88-SM	C0J110112	014		SOLID	0	1 1
2B,C	DLWF9-1-01		273485	054156	A-88-SM	C0J110112	015		SOLID	0	1 1
2B,C	DLWFA-1-01		273486	054156	A-88-SM	C0J110112	016		SOLID	0	1 1
2B,C	DLWFD-1-01		273487	054156	A-88-SM	C0J110112	017		SOLID	0	1 1
2B,C	DLWFE-1-01		273488	054156	A-88-SM	C0J110112	018		SOLID	0	1 1
2B,C	DLWFF-1-01		273489	054156	A-88-SM	C0J110112	019		SOLID	0	1 1
2B,C	DLWFH-1-01		273490	054156	A-88-SM	C0J110112	020		SOLID	0	1 1
2B,C	DLWFJ-1-01		273491	054156	A-88-SM	C0J110112	021		SOLID	0	1 1
2B,C	DLWFL-1-01		273492	054156	A-88-SM	C0J110112	022		SOLID	0	1 1
2B,C	DLWFM-1-01		273493	054156	A-88-SM	C0J110112	023		SOLID	0	1 1
2B,C	DLWFN-1-01		273494	054156	A-88-SM	C0J110112	024		SOLID	0	1 1

REQUESTED BY: LOHBYDEC

METHOD: SM Solids, Percent (as TS - 160 3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10-16-00 0845
[signature]	[signature]	10-16-00 0930

673 1978

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REQUESTED BY: LOHEYDEC

M. JD: WM Moisture, Percent (160 3)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
4A	DM4N8-1-AA	___ ___ ___	273542	413462	A-88-WM	C0J130184	001		SOLID	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10/16/00 0845
[signature]	[signature]	10/16/00 0930

STL Pittsburgh ***** END OF REPORT ***** 6052

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REQUESTED BY. LOHEYDBC

METHOD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
4C,D	DM474-1-AA	___ ___ ___	273518	375241	A-88-OV	C0J130236	001		SOLID	1	1
4C,D	DM48A-1-AA	___ ___ ___	273519	375241	A-88-OV	C0J130236	002		SOLID	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10/16/00 0845
[signature]	[signature]	10/16/00 0930

STL Pittsburgh ***** END OF REPORT ***** 6053

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REQUESTED BY: LOHEYDEC

M .OD. SM Solids, Percent (as TS - 160 3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQ
2C,D	DLWHP-1-01		273495	054156	A-88-SM	C0J110120	006		SOLID	0	1 1
2C,D	DLWHX-1-01		273496	054156	A-88-SM	C0J110120	007		SOLID	0	1 1
2C,D	DLWJ1-1-01		273497	054156	A-88-SM	C0J110120	008		SOLID	0	1 1
2C,D	DLWJ4-1-01		273498	054156	A-88-SM	C0J110120	009		SOLID	0	1 1
2C,D	DLWJ5-1-01		273499	054156	A-88-SM	C0J110120	010		SOLID	0	1 1
2C,D	DLWJ9-1-01		273500	054156	A-88-SM	C0J110120	011		SOLID	0	1 1
2C,D	DLWJE-1-01		273501	054156	A-88-SM	C0J110120	012		SOLID	0	1 1
2C,D	DLWJM-1-01		273502	054156	A-88-SM	C0J110120	013		SOLID	0	1 1
2C,D	DLWJQ-1-01		273503	054156	A-88-SM	C0J110120	014		SOLID	0	1 1
2C,D	DLWJR-1-01		273504	054156	A-88-SM	C0J110120	015		SOLID	0	1 1
	DLWJW-1-01		273505	054156	A-88-SM	C0J110120	016		SOLID	0	1 1
2C,D	DLWK2-1-01		273506	054156	A-88-SM	C0J110120	017		SOLID	0	1 1
2C,D	DLWKG-1-01		273507	054156	A-88-SM	C0J110120	018		SOLID	0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10/16/00 0930
[signature]	[signature]	10/16/00 1000

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

REQUESTED BY. LOHEYDEC

M. .OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
2D,E	DLWLC-1-01		273684	054156	A-88-SM	C0J110130	001		SOLID	0	1 1
2D,E	DLWLK-1-01		273685	054156	A-88-SM	C0J110130	002		SOLID	0	1 1
2D,E	DLWLQ-1-01		273686	054156	A-88-SM	C0J110130	003		SOLID	0	1 1
2D,E	DLWM4-1-01		273687	054156	A-88-SM	C0J110130	004		SOLID	0	1 1
2D,E	DLWMA-1-01		273688	054156	A-88-SM	C0J110130	005		SOLID	0	1 1
2D,E	DLWMJ-1-01		273689	054156	A-88-SM	C0J110130	006		SOLID	0	1 1
2D,E	DLWMP-1-01		273690	054156	A-88-SM	C0J110130	007		SOLID	0	1 1
2D,E	DLWMT-1-01		273691	054156	A-88-SM	C0J110130	008		SOLID	0	1 1
2D,E	DLWN0-1-01		273692	054156	A-88-SM	C0J110130	009		SOLID	0	1 1
5F	DM7LE-1-AA		273675	422326	A-88-SM	C0J160114	001		SOLID	0	1 1
!	DM7LK-1-AA		273676	422326	A-88-SM	C0J160114	002		SOLID	0	1 1
5F	DM7LL-1-AA		273677	422326	A-88-SM	C0J160114	003		SOLID	0	1 1
5F	DM7LN-1-AA		273678	422326	A-88-SM	C0J160114	004		SOLID	0	1 1
5F	DM7LQ-1-AA		273679	422326	A-88-SM	C0J160114	005		SOLID	0	1 1
5F	DM7LR-1-AA		273680	422326	A-88-SM	C0J160114	006		SOLID	0	1 1
5F	DM7LT-1-AA		273681	422326	A-88-SM	C0J160114	007		SOLID	0	1 1
5F	DM7M4-1-AF		273682	027262	A-88-SM	C0J160120	001		SOLID	0	2 1
5D	DM7NA-1-AA		273683	375241	A-88-SM	C0J160121	004		SOLID	0	2 1

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REQUESTED BY: LOHEYDEC

JD: SM Solids, Percent (as TS - 160 3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10-16-00 1100
[signature]	[signature]	10-16-00 1130

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

REQUESTED BY: GROVEP

673 1983

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

AGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
13E,14A	DKVTQ-1-2A	___ ___ ___	273765	054156	A-88-SM	C01220233	001		SOLID	2	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

10-26-00 15:50

10-26-00 15:58

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