



Corrective Actions Inorganic Analyses

Criteria Flagged:	ARI Job No.: <u>RG79</u>
Unacceptable Blank: <input type="checkbox"/>	Date of Event: <u>8.12.10</u>
Unacceptable Duplicate: <input checked="" type="checkbox"/>	Client ID: _____
Unacceptable Spike: <input type="checkbox"/>	Method/Element: <u>ICP Pb</u>
Unacceptable Reference: <input type="checkbox"/>	Prep Code: <u>SWC</u>

Details of Problem/Recommended Corrective Action:

EDUP 166^g RPD SEE attached,
re-run confirms orig

Samples Affected: _____

Corrective Action Taken: _____

Analyst Initials: [Signature] **Supervisor:** _____
Date: 8.12.10 **Date:** _____

RG79 E

MATRIX DUPLICATE AND MATRIX SPIKE WORKSHEET (FOR SAMPLES >5 IDL)

DUPLICATION:		SPIKE RECOVERY:						
DUP	BKGD	VOLUME	SPIKE	BKGD				
VOLUME	100	100	100	100				
SAMP WT	1.074	1.076	1.078	1.0760				
ELEMENT	DUP	BKGD	% RPD	ELEMENT	SPIKE	BKGD	SPK'D CONC	% RECOV
Ag			#VALUE!	Ag			0.5	#VALUE!
Al			#VALUE!	Al			2	#VALUE!
As	0.08954	0.02599	110.14 <i>IRL</i>	As	2.027	0.02599	2	100.0
B			#DIV/0!	B			0.5	0.0
Ba			#VALUE!	Ba			2	#VALUE!
Be			#VALUE!	Be			0.5	#VALUE!
Ca			#VALUE!	Ca			10	#VALUE!
Cd			#VALUE!	Cd			0.5	#VALUE!
Co			#VALUE!	Co			0.5	#VALUE!
Cr			#VALUE!	Cr			0.5	#VALUE!
Cu			#VALUE!	Cu			0.50	#VALUE!
Fe			#VALUE!	Fe			2	#VALUE!
K			#DIV/0!	K			10	0.0
Mg			#VALUE!	Mg			10	#VALUE!
Mn			#VALUE!	Mn			0.5	#VALUE!
Mo			#VALUE!	Mo			0.5	#VALUE!
Na			#DIV/0!	Na			10	0.0
Ni			#VALUE!	Ni			0.5	#VALUE!
Pb	13.49	1.244	166.29	Pb	3.483	1.244	2	111.8
Sb			#VALUE!	Sb			2	#VALUE!
Se			#VALUE!	Se			2	#VALUE!
Si			#DIV/0!	Si			10	0.0
Sn			#VALUE!	Sn			0.5	#VALUE!
Sr			#DIV/0!	Sr			0.5	0.0
Ti			#DIV/0!	Ti			2	0.0
Tl			#DIV/0!	Tl			2	0.0
V			#VALUE!	V			0.5	#VALUE!
Zn			#VALUE!	Zn			0.5	#VALUE!

TABLE 6

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: RG79



IEC Date: 7.6.10

Analysis Date: 8.11.10

Analyst: BEW

LR Date: 7.12.10

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 0			2748-2
		| 2			↓ -11
		| 3			2749-1
		| 4			↓ -2
		| 5			↓ -3
		↓ 0			
		ICV			2732-14
		ICB			
		CR1			
		ICSA			
		ICSA B			
2		222222			radial noisy
↓		222222			
	✓	RG80 MB	20C	2	rean
	✓	↓ D	↓	↓	↓
		CCV1			Sn low
		CCB1			
	✓	RG80 MB	20C	2	CV out
		↓			
		G			Fe high
		H			
		O			noisy
		P			
		↓ Cdcp	↓	↓	↓



IEC Date: _____
LR Date: _____

Analysis Date: 8-11-10

Analyst: BLW
Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	RG80 C	800C	2	CV out noisy
	↓	↓ Csdh	↓	↓	↓
	↓	RH55 MBspl	↓	↓	↓
		CCV2			Ag As Se Sn low
		CCB2			
		Std 2			
		↓ 3			
		↓ 0			
		CCV3			Mo Sn low
		CCB3			
		RG80 MB	800C	2	
		↓ D	↓	↓	
		G		5	
		H		2	
		O		↓	
		P		↓	
		Calp		↓	✓
	✓	C		↓	radial noisy
	↓	Csdh	↓	↓	Zn STL
		RH55 MBspl	↓	↓	✓
		CCV4		MS-17	Al Fe ^{mg} K Mo Na 330 Sn Ti low
		CCB4			
		Std 0			see previous
		↓ 2			↓



IEC Date: _____

Analysis Date: 8.11.10

Analyst: BW

LR Date: _____

BW 8.12.10

Page: 3 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 3			see previous
		↓ 4			↓
		↓ 5			
		↓ 0			
		ICV			
		ICB			
		CR1			
		ICSA			
		ICB AB			
		CCV1			
		CCB1			
		RG64 A	TWC		
		↓ B	↓		
		↓ D			
		↓ F			
		↓ Edep			✓
		↓ E			
		↓ Espk	↓		✓ Ca Mn str
		RG80 CV	TWC	2	
✓		↓ 0	↓	↓	Fe high - rean '15
		↓ MBSpk	↓	↓	✓
		CCV2			Sn low
		CCB2			
		RG4 RG64 MB2 WMA			



IEC Date:

Analysis Date: 8.12.10

Analyst: BW

LR Date:

Page: 4 of 6

All corrections made by analyst unless otherwise noted. BW 8.12.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG64 MBI	TWC		
		↓ G	↓		
		↓ H	↓		
		↓ J	WMD		
		↓ Mdep	↓		✓
		↓ M	↓		✓
		↓ Mspk	↓		0.08 ml ICP sph ^{Ca Mn} SK
		↓ MB2 sph	↓		"
		↓ MB5 sph	TWC		✓
		↓ CCV3			Sn low
		↓ CCB3			
	✓	RG87 MB	TWC		Cl out
		↓ B	↓		
		RG64 K	WMD		
		↓ L	↓		
		↓ N	↓		
		↓ O	↓		
		↓ P	↓		
		RG78 A	SJC	2	
		↓ B	↓	↓	
	✓	RG87 MB sph	TWC		
		↓ CCV4			Ag Sn low Radial noisy
		↓ CCB4			
		RG78 MBI	SJC	2	



IEC Date: _____

Analysis Date: ¹¹ ~~8.12.10~~

Analyst: aw

LR Date: _____

Page: 5 of 6

All corrections made by analyst unless otherwise noted. aw 8.12.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG78 C	SWC	2	
		↓ D	↓	↓	
		E	↓	↓	
		F	↓	↓	
		Jsp	↓	↓	✓
		J	↓	↓	✓
		Jspk	↓	↓	✓
		Refin	↓	↓	✓
		↓ MBIsph	↓	↓	✓
		CCV5			Ti Zn Ag B Ba Be Co Cr Fe Mo Ni Sn low
		CCB5			
		RG78 G	SWC	2	
		↓ H	↓	↓	
		I	↓	↓	
		K	↓	↓	
		↓ L	↓	↓	
		S	↓	↓	
		RG79 A			
		↓ B	↓	↓	
		C	↓	↓	
	✓	↓ D	↓	↓	noisy
		CCV6			Ag B Ba Co Mo Ni Sn Ti low
		CCB6			Cu high
	✓	RG79 UBI	SWC	2	C/out

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8/11/10

ICP1	Analyst BWB 8/12	Peer AS12	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	see log
Samples:			
RSD's & SD's	✓	✓	see log
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	174.0 kPa	0.55 L/min

=====
8/11/2010 11:11:44 AM Hg ReAlign... Actual peak offset (nm): 0.000
Drift (nm): -0.000 Slit adjustment: 0
=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	168844.7
-1.6	15.0	237863.4
-1.2	15.0	338972.0
-0.8	15.0	428027.9
-0.4	15.0	533761.0
0.0	15.0	583788.5
0.4	15.0	630113.5
0.8	15.0	580252.1
1.2	15.0	495866.8
1.6	15.0	415391.6
2.0	15.0	316631.1
0.4	10.0	11516.0
0.4	10.5	31913.9
0.4	11.0	53991.6
0.4	11.5	83428.4
0.4	12.0	127473.1
0.4	12.5	252176.9
0.4	13.0	346438.1
0.4	13.5	452988.1
0.4	14.0	550536.9
0.4	14.5	645334.2
0.4	15.0	617782.4
0.4	15.5	555925.4
0.4	16.0	445780.9
0.4	16.5	270251.3
0.4	17.0	192668.1
0.4	17.5	133526.7
0.4	18.0	92869.2
0.4	18.5	52882.8
0.4	19.0	13845.6
0.4	19.5	5930.3
0.4	20.0	2435.5
-0.4	14.5	565839.2
0.0	14.5	626361.0
0.4	14.5	659275.3
0.8	14.5	601843.1
1.2	14.5	524377.4
0.4	12.5	288069.8
0.4	13.0	362271.5
0.4	13.5	473494.4
0.4	14.0	560299.6
0.4	14.5	647257.4
0.4	15.0	613422.6
0.4	15.5	548393.6
0.4	16.0	449487.7
0.4	16.5	277203.2

8/11/2010 11:16:20 AM aligned for analyte Mn 257.610

X viewing position set to 0.4 mm having Peak intensity 647257.4 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 647257.4 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1659.7
-6.5	15.0	2324.1
-6.0	15.0	3353.6
-5.5	15.0	5365.0
-5.0	15.0	9351.3
-4.5	15.0	17398.3

-4.0	15.0	28423.8
-3.5	15.0	55866.9
-3.0	15.0	99401.2
-2.5	15.0	175704.7
-2.0	15.0	269021.0
-1.5	15.0	331791.5
-1.0	15.0	389812.6
-0.5	15.0	399509.9
0.0	15.0	394589.6
0.5	15.0	350751.6
1.0	15.0	254794.7
1.5	15.0	159417.5
2.0	15.0	65504.6
2.5	15.0	58774.8
3.0	15.0	46359.9
3.5	15.0	30707.4
4.0	15.0	17201.6
4.5	15.0	10417.2
5.0	15.0	7981.2
5.5	15.0	6043.1
6.0	15.0	4092.3
6.5	15.0	2844.7
7.0	15.0	2634.2

8/11/2010 11:20:01 AM aligned for analyte Mn 257.610

X viewing position set to -0.5 mm having Peak intensity 399509.9 for Radial viewing

Analysis Begun

Start Time: 8/11/2010 11:32:48 AM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: ARIIEC6AN.552AS

Method Last Saved: 7/13/2010 9:41:26 AM

IEC File: IEC44.iec

MSF File:

Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No

Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 11:32:48 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1778440.2	3375.57	0.19%	100.0	%
ScR 361.383	205006.5	1480.84	0.72%	100.0	%
Ag 328.068†	-125.8	8.64	6.87%	[0.00]	mg/L
Al 308.215†	-225.9	21.38	9.46%	[0.00]	mg/L
As 188.979†	13.3	2.81	21.16%	[0.00]	mg/L
B 249.677†	-24.0	5.82	24.27%	[0.00]	mg/L
Ba 233.527†	26.0	4.28	16.43%	[0.00]	mg/L
Be 313.042†	565.1	13.06	2.31%	[0.00]	mg/L
Ca 317.933†	-117.1	13.82	11.80%	[0.00]	mg/L
Cd 228.802†	177.0	2.09	1.18%	[0.00]	mg/L
Co 228.616†	-166.3	3.75	2.26%	[0.00]	mg/L
Cr 267.716†	-42.5	0.92	2.16%	[0.00]	mg/L
Cu 324.752†	1108.0	42.44	3.83%	[0.00]	mg/L
Fe 273.955†	-28.0	0.48	1.70%	[0.00]	mg/L
K 766.490†	3573.2	58.95	1.65%	[0.00]	mg/L
Mg 279.077†	-58.3	7.07	12.12%	[0.00]	mg/L
Mn 257.610†	99.5	4.78	4.80%	[0.00]	mg/L
Mo 202.031†	24.6	2.09	8.49%	[0.00]	mg/L
Na 589.592†	1690.2	18.20	1.08%	[0.00]	mg/L
Na 330.237†	-260.5	6.58	2.52%	[0.00]	mg/L
Ni 231.604†	-65.5	1.88	2.87%	[0.00]	mg/L
Pb 220.353†	290.2	2.69	0.93%	[0.00]	mg/L
Sb 206.836†	166.4	3.26	1.96%	[0.00]	mg/L
Se 196.026†	-76.0	3.95	5.20%	[0.00]	mg/L
Si 288.158†	17.2	6.56	38.03%	[0.00]	mg/L
Sn 189.927†	-3.5	2.82	79.84%	[0.00]	mg/L
Sr 421.552†	444.0	44.00	9.91%	[0.00]	mg/L
Ti 334.903†	197.2	14.20	7.20%	[0.00]	mg/L
Tl 190.801†	-14.1	0.60	4.25%	[0.00]	mg/L
V 292.402†	501.6	42.43	8.46%	[0.00]	mg/L
Zn 206.200†	-16.7	2.00	11.98%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/11/2010 11:38:46 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1767206.6	9270.32	0.52%	99.37	%
ScR 361.383	210007.3	412.97	0.20%	102.4	%
Ba 233.527†	80418.3	113.71	0.14%	[10]	mg/L
Cd 228.802†	560158.5	1678.00	0.30%	[10]	mg/L
Co 228.616†	519822.5	781.14	0.15%	[10]	mg/L
Cr 267.716†	39905.4	126.86	0.32%	[10]	mg/L
Cu 324.752†	2152939.9	1339.80	0.06%	[10]	mg/L
Mn 257.610†	399924.4	226.11	0.06%	[10]	mg/L
V 292.402†	1220291.8	2761.08	0.23%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/11/2010 11:42:33 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib
	Intensity	Std.Dev.	RSD	
ScA 357.253	1772120.4	3058.74	0.17%	99.64 %
ScR 361.383	208171.2	1842.98	0.89%	101.5 %
Ag 328.068†	199246.4	476.24	0.24%	[1.0] mg/L
As 188.979†	16641.8	127.89	0.77%	[10] mg/L
B 249.677†	21418.8	94.94	0.44%	[10] mg/L
Be 313.042†	1455325.2	9400.57	0.65%	[5.0] mg/L
Na 589.592†	313465.1	2072.41	0.66%	[50] mg/L
Ni 231.604†	18294.4	43.46	0.24%	[10] mg/L
Pb 220.353†	80133.2	271.25	0.34%	[10] mg/L
Se 196.026†	10839.9	93.93	0.87%	[10] mg/L
Sr 421.552†	2462182.7	14961.80	0.61%	[5] mg/L
Tl 190.801†	20946.4	214.18	1.02%	[10] mg/L
Zn 206.200†	23335.5	47.42	0.20%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/11/2010 11:46:54 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1799073.2	11812.82	0.66%	101.2	%
ScR 361.383	210358.1	1316.48	0.63%	102.6	%
Mo 202.031†	114006.4	371.57	0.33%	[10]	mg/L
Sb 206.836†	20632.1	70.99	0.34%	[10]	mg/L
Si 288.158†	12633.3	33.99	0.27%	[10]	mg/L
Sn 189.927†	39017.4	237.35	0.61%	[10]	mg/L
Ti 334.903†	202874.1	2173.34	1.07%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/11/2010 11:51:07 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	1762460.2	9837.20	0.56%	99.10 %
ScR 361.383	208247.6	1024.67	0.49%	101.6 %
Al 308.215†	41259.7	161.08	0.39%	[30] mg/L
Ca 317.933†	280812.8	417.34	0.15%	[30] mg/L
Fe 273.955†	114441.2	99.16	0.09%	[100] mg/L
K 766.490†	269081.5	1777.83	0.66%	[100] mg/L
Mg 279.077†	33074.6	174.80	0.53%	[30] mg/L
Na 330.237†	2362.6	5.83	0.25%	[100] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	199200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1375	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1664	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2142	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	8042	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	291100	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	9360	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	56020	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	51980	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3991	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	215300	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1144	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2691	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1102	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	39990	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	11400	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6269	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	23.63	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1829	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8013	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2063	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1084	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1263	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3902	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	492400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	20290	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2095	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	122000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	2334	0.00000	1.000000	

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Analysis Begun

Start Time: 8/11/2010 12:05:42 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 12:05:44 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1800097.8	2355.95	0.13%	101.2	%
ScR 361.383	210280.6	466.37	0.22%	102.6	%
Ag 328.068†	-143.0	75.68	52.91%	[0.00]	mg/L
Al 308.215†	-221.1	4.69	2.12%	[0.00]	mg/L
As 188.979†	18.8	1.08	5.76%	[0.00]	mg/L
B 249.677†	-9.9	3.14	31.72%	[0.00]	mg/L
Ba 233.527†	26.6	5.44	20.47%	[0.00]	mg/L
Be 313.042†	547.5	18.63	3.40%	[0.00]	mg/L
Ca 317.933†	-100.3	13.26	13.22%	[0.00]	mg/L
Cd 228.802†	187.3	2.60	1.39%	[0.00]	mg/L
Co 228.616†	-169.6	10.37	6.11%	[0.00]	mg/L
Cr 267.716†	-38.9	1.72	4.43%	[0.00]	mg/L
Cu 324.752†	1391.9	12.73	0.91%	[0.00]	mg/L
Fe 273.955†	-27.1	0.80	2.95%	[0.00]	mg/L
K 766.490†	3519.1	47.07	1.34%	[0.00]	mg/L
Mg 279.077†	-56.8	4.64	8.16%	[0.00]	mg/L
Mn 257.610†	93.0	3.69	3.96%	[0.00]	mg/L
Mo 202.031†	27.0	4.16	15.42%	[0.00]	mg/L
Na 589.592†	1698.5	45.77	2.69%	[0.00]	mg/L
Na 330.237†	-235.7	13.84	5.87%	[0.00]	mg/L
Ni 231.604†	-66.8	0.08	0.11%	[0.00]	mg/L
Pb 220.353†	281.4	2.70	0.96%	[0.00]	mg/L
Sb 206.836†	166.5	4.24	2.54%	[0.00]	mg/L
Se 196.026†	-71.1	5.34	7.50%	[0.00]	mg/L
Si 288.158†	15.7	3.08	19.59%	[0.00]	mg/L
Sn 189.927†	-2.9	2.62	89.16%	[0.00]	mg/L
Sr 421.552†	478.6	37.14	7.76%	[0.00]	mg/L
Ti 334.903†	212.8	10.70	5.03%	[0.00]	mg/L
Tl 190.801†	-17.6	2.24	12.78%	[0.00]	mg/L
V 292.402†	522.3	35.11	6.72%	[0.00]	mg/L
Zn 206.200†	-15.6	2.89	18.51%	[0.00]	mg/L

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Analysis Begun

Start Time: 8/11/2010 12:12:17 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 12:12:19 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1824264.7	102.6 %	1.87			1.82%
ScR 361.383	213270.1	104.0 %	0.26			0.25%
Ag 328.068†	190637.3	0.9568 mg/L	0.02385	0.9568 mg/L	0.02385	2.49%
Al 308.215†	2835.5	2.023 mg/L	0.0017	2.023 mg/L	0.0017	0.08%
As 188.979†	3262.2	1.960 mg/L	0.0272	1.960 mg/L	0.0272	1.39%
B 249.677†	2088.8	0.9737 mg/L	0.00750	0.9737 mg/L	0.00750	0.77%
Ba 233.527†	7942.2	0.9871 mg/L	0.00380	0.9871 mg/L	0.00380	0.39%
Be 313.042†	289423.0	0.9918 mg/L	0.00155	0.9918 mg/L	0.00155	0.16%
Ca 317.933†	19537.1	2.087 mg/L	0.0108	2.087 mg/L	0.0108	0.52%
Cd 228.802†	57006.2	1.014 mg/L	0.0196	1.014 mg/L	0.0196	1.93%
Co 228.616†	50861.9	0.9766 mg/L	0.01901	0.9766 mg/L	0.01901	1.95%
Cr 267.716†	3966.2	0.9939 mg/L	0.00336	0.9939 mg/L	0.00336	0.34%
Cu 324.752†	223650.0	1.039 mg/L	0.0194	1.039 mg/L	0.0194	1.87%
Fe 273.955†	2304.0	2.013 mg/L	0.0084	2.013 mg/L	0.0084	0.42%
K 766.490†	53508.0	19.89 mg/L	0.051	19.89 mg/L	0.051	0.26%
Mg 279.077†	2238.8	2.034 mg/L	0.0063	2.034 mg/L	0.0063	0.31%
Mn 257.610†	39442.5	0.9868 mg/L	0.00360	0.9868 mg/L	0.00360	0.37%
Mo 202.031†	11153.0	0.9781 mg/L	0.01461	0.9781 mg/L	0.01461	1.49%
Na 589.592†	305259.0	48.69 mg/L	0.187	48.69 mg/L	0.187	0.38%
Na 330.237†	1186.0	50.08 mg/L	0.141	50.08 mg/L	0.141	0.28%
Ni 231.604†	1815.0	0.9929 mg/L	0.00227	0.9929 mg/L	0.00227	0.23%
Pb 220.353†	15860.6	1.981 mg/L	0.0338	1.981 mg/L	0.0338	1.70%
Sb 206.836†	4401.1	2.130 mg/L	0.0332	2.130 mg/L	0.0332	1.56%
Se 196.026†	2119.5	1.953 mg/L	0.0137	1.953 mg/L	0.0137	0.70%
Si 288.158†	2714.9	2.152 mg/L	0.0059	2.152 mg/L	0.0059	0.27%
Sn 189.927†	3591.4	0.9210 mg/L	0.01158	0.9210 mg/L	0.01158	1.26%
Sr 421.552†	494750.8	1.005 mg/L	0.0004	1.005 mg/L	0.0004	0.04%
Ti 334.903†	19978.3	0.9835 mg/L	0.00272	0.9835 mg/L	0.00272	0.28%
Tl 190.801†	4086.3	1.937 mg/L	0.0251	1.937 mg/L	0.0251	1.30%
V 292.402†	119091.5	0.9875 mg/L	0.01579	0.9875 mg/L	0.01579	1.60%
Zn 206.200†	2323.5	0.9950 mg/L	0.00503	0.9950 mg/L	0.00503	0.51%

Sequence No.: 2

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 12:18:21 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	1801497.2	101.3	%	0.41			0.40%
ScR 361.383	211051.2	102.9	%	0.95			0.92%
Ag 328.068†	28.1	0.00014	mg/L	0.000197	0.00014	mg/L	0.000197 139.66%
Al 308.215†	8.8	0.00641	mg/L	0.006333	0.00641	mg/L	0.006333 98.73%
As 188.979†	0.5	0.00030	mg/L	0.000405	0.00030	mg/L	0.000405 133.17%
B 249.677†	12.4	0.00581	mg/L	0.003682	0.00581	mg/L	0.003682 63.37%
Ba 233.527†	-1.3	-0.00016	mg/L	0.000495	-0.00016	mg/L	0.000495 306.38%
Be 313.042†	4.4	0.00001	mg/L	0.000089	0.00001	mg/L	0.000089 603.96%
Ca 317.933†	-12.8	-0.00136	mg/L	0.000948	-0.00136	mg/L	0.000948 69.52%
Cd 228.802†	-2.9	-0.00005	mg/L	0.000079	-0.00005	mg/L	0.000079 154.09%
Co 228.616†	8.9	0.00017	mg/L	0.000032	0.00017	mg/L	0.000032 18.47%
Cr 267.716†	-5.7	-0.00144	mg/L	0.000260	-0.00144	mg/L	0.000260 18.09%
Cu 324.752†	-37.1	-0.00017	mg/L	0.000131	-0.00017	mg/L	0.000131 76.06%
Fe 273.955†	-1.9	-0.00165	mg/L	0.002090	-0.00165	mg/L	0.002090 126.35%
K 766.490†	122.4	0.04547	mg/L	0.008302	0.04547	mg/L	0.008302 18.26%
Mg 279.077†	-5.0	-0.00450	mg/L	0.002780	-0.00450	mg/L	0.002780 61.72%
Mn 257.610†	3.0	0.00008	mg/L	0.000024	0.00008	mg/L	0.000024 32.10%
Mo 202.031†	2.2	0.00019	mg/L	0.000405	0.00019	mg/L	0.000405 208.71%
Na 589.592†	298.2	0.04757	mg/L	0.005578	0.04757	mg/L	0.005578 11.73%
Na 330.237†	-6.3	-0.2657	mg/L	0.65927	-0.2657	mg/L	0.65927 248.11%
Ni 231.604†	2.9	0.00156	mg/L	0.000930	0.00156	mg/L	0.000930 59.65%
Pb 220.353†	10.6	0.00132	mg/L	0.000828	0.00132	mg/L	0.000828 62.74%
Sb 206.836†	3.2	0.00158	mg/L	0.001883	0.00158	mg/L	0.001883 119.33%
Se 196.026†	-3.2	-0.00294	mg/L	0.002901	-0.00294	mg/L	0.002901 98.65%
Si 288.158†	9.8	0.00777	mg/L	0.006824	0.00777	mg/L	0.006824 87.84%
Sn 189.927†	5.8	0.00148	mg/L	0.000324	0.00148	mg/L	0.000324 21.84%
Sr 421.552†	0.1	0.00000	mg/L	0.000030	0.00000	mg/L	0.000030 >999.9%
Ti 334.903†	-18.8	-0.00093	mg/L	0.001112	-0.00093	mg/L	0.001112 119.67%
Tl 190.801†	4.5	0.00214	mg/L	0.001216	0.00214	mg/L	0.001216 56.79%
V 292.402†	13.5	0.00010	mg/L	0.000147	0.00010	mg/L	0.000147 141.58%
Zn 206.200†	0.3	0.00011	mg/L	0.000753	0.00011	mg/L	0.000753 681.41%

Sequence No.: 3

Autosampler Location: 21

Sample ID: CRI

Date Collected: 8/11/2010 12:24:20 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1817513.5	102.2	%	0.26				0.26%
ScR 361.383	211186.1	103.0	%	0.26				0.25%
Ag 328.068†	574.5	0.00288	mg/L	0.000077	0.00288	mg/L	0.000077	2.68%
Al 308.215†	87.8	0.06366	mg/L	0.009816	0.06366	mg/L	0.009816	15.42%
As 188.979†	78.2	0.04696	mg/L	0.001597	0.04696	mg/L	0.001597	3.40%
B 249.677†	43.4	0.02026	mg/L	0.000532	0.02026	mg/L	0.000532	2.62%
Ba 233.527†	24.1	0.00299	mg/L	0.000210	0.00299	mg/L	0.000210	7.03%
Be 313.042†	314.5	0.00107	mg/L	0.000056	0.00107	mg/L	0.000056	5.24%
Ca 317.933†	478.4	0.05111	mg/L	0.000604	0.05111	mg/L	0.000604	1.18%
Cd 228.802†	114.0	0.00195	mg/L	0.000071	0.00195	mg/L	0.000071	3.65%
Co 228.616†	165.5	0.00317	mg/L	0.000024	0.00317	mg/L	0.000024	0.77%
Cr 267.716†	17.3	0.00432	mg/L	0.001720	0.00432	mg/L	0.001720	39.77%
Cu 324.752†	346.3	0.00161	mg/L	0.000070	0.00161	mg/L	0.000070	4.36%
Fe 273.955†	57.2	0.04998	mg/L	0.001709	0.04998	mg/L	0.001709	3.42%
K 766.490†	1478.4	0.5494	mg/L	0.01656	0.5494	mg/L	0.01656	3.01%
Mg 279.077†	52.5	0.04765	mg/L	0.007874	0.04765	mg/L	0.007874	16.52%
Mn 257.610†	42.1	0.00106	mg/L	0.000161	0.00106	mg/L	0.000161	15.25%
Mo 202.031†	61.7	0.00541	mg/L	0.000211	0.00541	mg/L	0.000211	3.90%
Na 589.592†	3233.2	0.5157	mg/L	0.00660	0.5157	mg/L	0.00660	1.28%
Na 330.237†	18.7	0.7898	mg/L	0.39917	0.7898	mg/L	0.39917	50.54%
Ni 231.604†	21.7	0.01185	mg/L	0.002699	0.01185	mg/L	0.002699	22.77%
Pb 220.353†	156.7	0.01958	mg/L	0.000795	0.01958	mg/L	0.000795	4.06%
Sb 206.836†	112.9	0.05476	mg/L	0.001552	0.05476	mg/L	0.001552	2.83%
Se 196.026†	55.2	0.05090	mg/L	0.003319	0.05090	mg/L	0.003319	6.52%
Si 288.158†	94.1	0.07450	mg/L	0.001810	0.07450	mg/L	0.001810	2.43%
Sn 189.927†	42.9	0.01101	mg/L	0.000425	0.01101	mg/L	0.000425	3.86%
Sr 421.552†	471.2	0.00096	mg/L	0.000038	0.00096	mg/L	0.000038	4.02%
Ti 334.903†	93.7	0.00461	mg/L	0.000644	0.00461	mg/L	0.000644	13.97%
Tl 190.801†	108.4	0.05170	mg/L	0.001973	0.05170	mg/L	0.001973	3.82%
V 292.402†	338.6	0.00283	mg/L	0.000251	0.00283	mg/L	0.000251	8.88%
Zn 206.200†	23.5	0.01008	mg/L	0.000204	0.01008	mg/L	0.000204	2.03%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 8/11/2010 12:30:20 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1753111.4	98.58	%	0.674				0.68%
ScR 361.383	212701.6	103.8	%	0.56				0.54%
Ag 328.068†	-1324.8	0.00030	mg/L	0.000126	0.00030	mg/L	0.000126	42.04%
Al 308.215†	276281.3	200.9	mg/L	0.31	200.9	mg/L	0.31	0.15%
As 188.979†	-8.8	-0.00528	mg/L	0.003072	-0.00528	mg/L	0.003072	58.16%
B 249.677†	38.6	0.01801	mg/L	0.001030	0.01801	mg/L	0.001030	5.72%
Ba 233.527†	87.7	0.00154	mg/L	0.000739	0.00154	mg/L	0.000739	47.95%
Be 313.042†	-14.9	-0.00011	mg/L	0.000029	-0.00011	mg/L	0.000029	25.52%
Ca 317.933†	922968.9	98.60	mg/L	0.075	98.60	mg/L	0.075	0.08%
Cd 228.802†	46.5	0.00084	mg/L	0.000090	0.00084	mg/L	0.000090	10.68%
Co 228.616†	58.8	0.00112	mg/L	0.000058	0.00112	mg/L	0.000058	5.17%
Cr 267.716†	7.1	0.00129	mg/L	0.000658	0.00129	mg/L	0.000658	50.80%
Cu 324.752†	-3578.6	0.00107	mg/L	0.000126	0.00107	mg/L	0.000126	11.80%
Fe 273.955†	227383.3	198.7	mg/L	0.47	198.7	mg/L	0.47	0.23%
K 766.490†	-45.1	-0.01676	mg/L	0.021730	-0.01676	mg/L	0.021730	129.66%
Mg 279.077†	110110.5	99.76	mg/L	0.202	99.76	mg/L	0.202	0.20%
Mn 257.610†	35.7	-0.00046	mg/L	0.000043	-0.00046	mg/L	0.000043	9.41%
Mo 202.031†	33.6	0.00295	mg/L	0.000652	0.00295	mg/L	0.000652	22.15%
Na 589.592†	54.8	0.00874	mg/L	0.002251	0.00874	mg/L	0.002251	25.74%
Na 330.237†	17.4	0.08513	mg/L	0.543318	0.08513	mg/L	0.543318	638.25%
Ni 231.604†	-2.1	-0.00108	mg/L	0.003161	-0.00108	mg/L	0.003161	293.61%
Pb 220.353†	-301.6	0.00590	mg/L	0.000622	0.00590	mg/L	0.000622	10.54%
Sb 206.836†	149.1	-0.00640	mg/L	0.003167	-0.00640	mg/L	0.003167	49.49%
Se 196.026†	-93.4	-0.01184	mg/L	0.004106	-0.01184	mg/L	0.004106	34.69%
Si 288.158†	-21.9	-0.00399	mg/L	0.004510	-0.00399	mg/L	0.004510	112.91%
Sn 189.927†	-63.9	-0.00828	mg/L	0.000970	-0.00828	mg/L	0.000970	11.72%
Sr 421.552†	1874.6	0.00381	mg/L	0.000120	0.00381	mg/L	0.000120	3.15%
Ti 334.903†	64.8	-0.00066	mg/L	0.000767	-0.00066	mg/L	0.000767	116.90%
Tl 190.801†	-50.2	-0.02411	mg/L	0.003175	-0.02411	mg/L	0.003175	13.17%
V 292.402†	2941.2	0.00078	mg/L	0.000406	0.00078	mg/L	0.000406	51.94%
Zn 206.200†	-11.2	0.00012	mg/L	0.000680	0.00012	mg/L	0.000680	552.82%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/11/2010 12:36:37 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1763591.5	99.17	%	0.484				0.49%
ScR 361.383	215711.4	105.2	%	0.76				0.73%
Ag 328.068†	201557.2	1.019	mg/L	0.0026	1.019	mg/L	0.0026	0.26%
Al 308.215†	274110.4	199.3	mg/L	0.67	199.3	mg/L	0.67	0.34%
As 188.979†	1628.2	0.9785	mg/L	0.00839	0.9785	mg/L	0.00839	0.86%
B 249.677†	45.4	0.01817	mg/L	0.000926	0.01817	mg/L	0.000926	5.10%
Ba 233.527†	7815.6	0.9621	mg/L	0.00428	0.9621	mg/L	0.00428	0.44%
Be 313.042†	298670.3	1.024	mg/L	0.0032	1.024	mg/L	0.0032	0.31%
Ca 317.933†	926001.8	98.93	mg/L	0.278	98.93	mg/L	0.278	0.28%
Cd 228.802†	56649.2	1.010	mg/L	0.0019	1.010	mg/L	0.0019	0.19%
Co 228.616†	48477.6	0.9322	mg/L	0.00092	0.9322	mg/L	0.00092	0.10%
Cr 267.716†	3883.0	0.9727	mg/L	0.00373	0.9727	mg/L	0.00373	0.38%
Cu 324.752†	225051.1	1.063	mg/L	0.0022	1.063	mg/L	0.0022	0.20%
Fe 273.955†	226186.8	197.6	mg/L	0.39	197.6	mg/L	0.39	0.20%
K 766.490†	-95.1	-0.03533	mg/L	0.020007	-0.03533	mg/L	0.020007	56.63%
Mg 279.077†	113259.5	102.6	mg/L	0.39	102.6	mg/L	0.39	0.38%
Mn 257.610†	39234.9	0.9800	mg/L	0.00289	0.9800	mg/L	0.00289	0.29%
Mo 202.031†	34.1	0.00284	mg/L	0.000247	0.00284	mg/L	0.000247	8.69%
Na 589.592†	99.5	0.01588	mg/L	0.005573	0.01588	mg/L	0.005573	35.11%
Na 330.237†	34.8	0.5288	mg/L	0.27506	0.5288	mg/L	0.27506	52.02%
Ni 231.604†	1734.4	0.9487	mg/L	0.00226	0.9487	mg/L	0.00226	0.24%
Pb 220.353†	7193.7	0.9418	mg/L	0.00674	0.9418	mg/L	0.00674	0.72%
Sb 206.836†	2392.0	1.069	mg/L	0.0057	1.069	mg/L	0.0057	0.53%
Se 196.026†	981.2	0.9764	mg/L	0.01172	0.9764	mg/L	0.01172	1.20%
Si 288.158†	-20.9	-0.00189	mg/L	0.008300	-0.00189	mg/L	0.008300	439.44%
Sn 189.927†	-68.4	-0.00933	mg/L	0.002674	-0.00933	mg/L	0.002674	28.67%
Sr 421.552†	2078.0	0.00422	mg/L	0.000046	0.00422	mg/L	0.000046	1.09%
Ti 334.903†	62.8	-0.00099	mg/L	0.000286	-0.00099	mg/L	0.000286	28.72%
Tl 190.801†	1959.4	0.9219	mg/L	0.00783	0.9219	mg/L	0.00783	0.85%
V 292.402†	124120.4	1.000	mg/L	0.0055	1.000	mg/L	0.0055	0.55%
Zn 206.200†	2150.0	0.9257	mg/L	0.00629	0.9257	mg/L	0.00629	0.68%

Sequence No.: 6

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/11/2010 12:43:37 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	1818154.0	102.2	%	0.24				0.23%
ScR 361.383	196157.7	95.68	%	14.414				15.06%
Ag 328.068†	188752.7	0.9473	mg/L	0.00823	0.9473	mg/L	0.00823	0.87%
Al 308.215†	3105.9	2.220	mg/L	0.3393	2.220	mg/L	0.3393	15.28%
As 188.979†	3247.8	1.951	mg/L	0.0067	1.951	mg/L	0.0067	0.34%
B 249.677†	2274.5	1.060	mg/L	0.1746	1.060	mg/L	0.1746	16.47%
Ba 233.527†	8659.1	1.076	mg/L	0.1747	1.076	mg/L	0.1747	16.24%
Be 313.042†	318168.7	1.091	mg/L	0.1883	1.091	mg/L	0.1883	17.27%
Ca 317.933†	21256.3	2.271	mg/L	0.3671	2.271	mg/L	0.3671	16.16%
Cd 228.802†	56540.5	1.006	mg/L	0.0101	1.006	mg/L	0.0101	1.01%
Co 228.616†	50404.1	0.9676	mg/L	0.00898	0.9676	mg/L	0.00898	0.93%
Cr 267.716†	4337.3	1.087	mg/L	0.1743	1.087	mg/L	0.1743	16.04%
Cu 324.752†	222946.4	1.036	mg/L	0.0094	1.036	mg/L	0.0094	0.91%
Fe 273.955†	2519.5	2.201	mg/L	0.3568	2.201	mg/L	0.3568	16.21%
K 766.490†	59972.8	22.29	mg/L	4.241	22.29	mg/L	4.241	19.03%
Mg 279.077†	2424.3	2.202	mg/L	0.3447	2.202	mg/L	0.3447	15.65%
Mn 257.610†	43617.8	1.091	mg/L	0.1911	1.091	mg/L	0.1911	17.51%
Mo 202.031†	11125.5	0.9757	mg/L	0.00586	0.9757	mg/L	0.00586	0.60%
Na 589.592†	337462.2	53.83	mg/L	9.432	53.83	mg/L	9.432	17.52%
Na 330.237†	1282.9	54.17	mg/L	7.372	54.17	mg/L	7.372	13.61%
Ni 231.604†	1971.2	1.078	mg/L	0.1671	1.078	mg/L	0.1671	15.50%
Pb 220.353†	15733.6	1.965	mg/L	0.0202	1.965	mg/L	0.0202	1.03%
Sb 206.836†	4365.3	2.111	mg/L	0.0071	2.111	mg/L	0.0071	0.34%
Se 196.026†	2109.0	1.943	mg/L	0.0056	1.943	mg/L	0.0056	0.29%
Si 288.158†	2977.4	2.360	mg/L	0.3885	2.360	mg/L	0.3885	16.47%
Sn 189.927†	3566.8	0.9148	mg/L	0.00499	0.9148	mg/L	0.00499	0.55%
Sr 421.552†	548011.9	1.113	mg/L	0.1966	1.113	mg/L	0.1966	17.67%
Ti 334.903†	21999.2	1.083	mg/L	0.1907	1.083	mg/L	0.1907	17.61%
Tl 190.801†	4069.6	1.929	mg/L	0.0102	1.929	mg/L	0.0102	0.53%
V 292.402†	118475.6	0.9829	mg/L	0.00656	0.9829	mg/L	0.00656	0.67%
Zn 206.200†	2517.1	1.078	mg/L	0.1727	1.078	mg/L	0.1727	16.02%

Sequence No.: 7

Sample ID: CB

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/11/2010 12:49:38 PM

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1823615.7	102.5	%	0.67				0.65%
ScR 361.383	210236.1	102.6	%	1.30				1.27%
Ag 328.068†	36.2	0.00018	mg/L	0.000136	0.00018	mg/L	0.000136	74.70%
Al 308.215†	10.9	0.00789	mg/L	0.014034	0.00789	mg/L	0.014034	177.93%
As 188.979†	-3.2	-0.00194	mg/L	0.002126	-0.00194	mg/L	0.002126	109.45%
B 249.677†	9.6	0.00450	mg/L	0.001589	0.00450	mg/L	0.001589	35.35%
Ba 233.527†	-1.2	-0.00015	mg/L	0.000263	-0.00015	mg/L	0.000263	172.29%
Be 313.042†	12.8	0.00004	mg/L	0.000052	0.00004	mg/L	0.000052	118.37%
Ca 317.933†	7.7	0.00082	mg/L	0.002021	0.00082	mg/L	0.002021	245.40%
Cd 228.802†	-0.7	-0.00001	mg/L	0.000043	-0.00001	mg/L	0.000043	524.50%
Co 228.616†	7.8	0.00015	mg/L	0.000091	0.00015	mg/L	0.000091	60.69%
Cr 267.716†	3.3	0.00082	mg/L	0.000712	0.00082	mg/L	0.000712	86.85%
Cu 324.752†	175.9	0.00082	mg/L	0.000301	0.00082	mg/L	0.000301	36.82%
Fe 273.955†	1.8	0.00156	mg/L	0.003074	0.00156	mg/L	0.003074	196.62%
K 766.490†	75.0	0.02788	mg/L	0.018082	0.02788	mg/L	0.018082	64.86%
Mg 279.077†	1.0	0.00091	mg/L	0.001774	0.00091	mg/L	0.001774	195.94%
Mn 257.610†	-8.1	-0.00020	mg/L	0.000093	-0.00020	mg/L	0.000093	46.04%
Mo 202.031†	2.6	0.00023	mg/L	0.000111	0.00023	mg/L	0.000111	48.74%
Na 589.592†	180.6	0.02881	mg/L	0.004900	0.02881	mg/L	0.004900	17.01%
Na 330.237†	1.4	0.05835	mg/L	0.390990	0.05835	mg/L	0.390990	670.08%
Ni 231.604†	0.6	0.00030	mg/L	0.002721	0.00030	mg/L	0.002721	894.87%
Pb 220.353†	-0.1	-0.00001	mg/L	0.000511	-0.00001	mg/L	0.000511	>999.9%
Sb 206.836†	-0.6	-0.00029	mg/L	0.000948	-0.00029	mg/L	0.000948	323.12%
Se 196.026†	3.2	0.00299	mg/L	0.002245	0.00299	mg/L	0.002245	75.06%
Si 288.158†	8.0	0.00636	mg/L	0.002946	0.00636	mg/L	0.002946	46.31%
Sn 189.927†	4.5	0.00116	mg/L	0.000128	0.00116	mg/L	0.000128	11.04%
Sr 421.552†	2.3	0.00000	mg/L	0.000076	0.00000	mg/L	0.000076	>999.9%
Ti 334.903†	-10.1	-0.00050	mg/L	0.000495	-0.00050	mg/L	0.000495	99.37%
Tl 190.801†	9.8	0.00469	mg/L	0.001732	0.00469	mg/L	0.001732	36.95%
V 292.402†	-2.2	-0.00001	mg/L	0.000104	-0.00001	mg/L	0.000104	925.51%
Zn 206.200†	-0.6	-0.00026	mg/L	0.000716	-0.00026	mg/L	0.000716	270.40%

Sequence No.: 8
Sample ID: RG80 MB SWC

Autosampler Location: 24
Date Collected: 8/11/2010 12:55:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

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Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1841821.7		103.6 %	0.55				0.53%
ScR 361.383	214163.8		104.5 %	0.50				0.48%
Ag 328.068†	18.2	0.00009	mg/L	0.000304	0.00018	mg/L	0.000607	332.35%
Al 308.215†	15.5	0.01130	mg/L	0.008287	0.02260	mg/L	0.016573	73.32%
As 188.979†	-3.8	-0.00227	mg/L	0.000297	-0.00454	mg/L	0.000593	13.06%
B 249.677†	-0.8	-0.00039	mg/L	0.000445	-0.00078	mg/L	0.000890	114.00%
Ba 233.527†	4.9	0.00061	mg/L	0.000462	0.00123	mg/L	0.000924	75.29%
Be 313.042†	-6.2	-0.00002	mg/L	0.000054	-0.00004	mg/L	0.000108	251.84%
Ca 317.933†	106.1	0.01134	mg/L	0.001659	0.02268	mg/L	0.003319	14.63%
Cd 228.802†	-4.5	-0.00008	mg/L	0.000089	-0.00015	mg/L	0.000178	117.66%
Co 228.616†	4.2	0.00008	mg/L	0.000144	0.00016	mg/L	0.000289	175.59%
Cr 267.716†	0.8	0.00021	mg/L	0.000431	0.00042	mg/L	0.000862	205.12%
Cu 324.752†	-41.7	-0.00019	mg/L	0.000166	-0.00039	mg/L	0.000333	86.06%
Fe 273.955†	2.2	0.00188	mg/L	0.001183	0.00377	mg/L	0.002365	62.83%
K 766.490†	88.1	0.03273	mg/L	0.010568	0.06546	mg/L	0.021135	32.29%
Mg 279.077†	-2.5	-0.00231	mg/L	0.007031	-0.00462	mg/L	0.014062	304.42%
Mn 257.610†	-10.1	-0.00025	mg/L	0.000181	-0.00050	mg/L	0.000362	71.66%
Mo 202.031†	-0.4	-0.00003	mg/L	0.000318	-0.00007	mg/L	0.000636	918.22%
Na 589.592†	44.6	0.00711	mg/L	0.004540	0.01421	mg/L	0.009081	63.88%
Na 330.237†	6.5	0.2745	mg/L	0.51489	0.5491	mg/L	1.02977	187.55%
Ni 231.604†	2.6	0.00143	mg/L	0.001428	0.00285	mg/L	0.002856	100.16%
Pb 220.353†	-0.6	-0.00008	mg/L	0.000551	-0.00016	mg/L	0.001101	709.10%
Sb 206.836†	-3.4	-0.00163	mg/L	0.001513	-0.00327	mg/L	0.003026	92.54%
Se 196.026†	4.8	0.00441	mg/L	0.003899	0.00882	mg/L	0.007799	88.39%
Si 288.158†	6.6	0.00521	mg/L	0.003864	0.01042	mg/L	0.007727	74.16%
Sn 189.927†	6.5	0.00167	mg/L	0.000373	0.00335	mg/L	0.000746	22.29%
Sr 421.552†	-16.2	-0.00003	mg/L	0.000039	-0.00007	mg/L	0.000077	117.58%
Ti 334.903†	-10.7	-0.00053	mg/L	0.000871	-0.00106	mg/L	0.001743	164.35%
Tl 190.801†	4.9	0.00234	mg/L	0.001660	0.00468	mg/L	0.003320	71.01%
V 292.402†	5.2	0.00004	mg/L	0.000313	0.00009	mg/L	0.000626	717.50%
Zn 206.200†	2.4	0.00102	mg/L	0.001473	0.00203	mg/L	0.002947	145.10%

Sequence No.: 9
Sample ID: RG80 D SWC

Autosampler Location: 25
Date Collected: 8/11/2010 1:01:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

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Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1816859.7	102.2	%	1.16				1.14%
ScR 361.383	216576.9	105.6	%	0.66				0.62%
Ag 328.068†	-726.8	0.00169	mg/L	0.000187	0.00338	mg/L	0.000375	11.07%
Al 308.215†	33943.6	24.67	mg/L	0.022	49.35	mg/L	0.043	0.09%
As 188.979†	14.4	0.01136	mg/L	0.001063	0.02272	mg/L	0.002126	9.36%
B 249.677†	99.4	0.04630	mg/L	0.003553	0.09259	mg/L	0.007106	7.67%
Ba 233.527†	2223.3	0.2695	mg/L	0.00129	0.5391	mg/L	0.00259	0.48%
Be 313.042†	164.3	0.00014	mg/L	0.000049	0.00027	mg/L	0.000099	36.01%
Ca 317.933†	220591.2	23.57	mg/L	0.075	47.13	mg/L	0.150	0.32%
Cd 228.802†	1059.7	0.01894	mg/L	0.000258	0.03788	mg/L	0.000516	1.36%
Co 228.616†	1214.8	0.02070	mg/L	0.000435	0.04140	mg/L	0.000870	2.10%
Cr 267.716†	990.0	0.2502	mg/L	0.00055	0.5005	mg/L	0.00110	0.22%
Cu 324.752†	229900.2	1.080	mg/L	0.0181	2.161	mg/L	0.0362	1.68%
Fe 273.955†	166679.0	145.6	mg/L	0.19	291.3	mg/L	0.37	0.13%
K 766.490†	3504.0	1.302	mg/L	0.0250	2.604	mg/L	0.0499	1.92%
Mg 279.077†	9182.1	8.243	mg/L	0.0366	16.49	mg/L	0.073	0.44%
Mn 257.610†	39165.2	0.9793	mg/L	0.00210	1.959	mg/L	0.0042	0.21%
Mo 202.031†	288.9	0.02470	mg/L	0.000100	0.04941	mg/L	0.000200	0.41%
Na 589.592†	8587.2	1.370	mg/L	0.0072	2.739	mg/L	0.0145	0.53%
Na 330.237†	94.8	1.114	mg/L	0.1309	2.228	mg/L	0.2617	11.75%
Ni 231.604†	240.3	0.1314	mg/L	0.00207	0.2628	mg/L	0.00415	1.58%
Pb 220.353†	4633.2	0.5752	mg/L	0.00608	1.150	mg/L	0.0122	1.06%
Sb 206.836†	76.8	0.00729	mg/L	0.001538	0.01458	mg/L	0.003076	21.10%
Se 196.026†	-41.0	-0.00923	mg/L	0.003920	-0.01846	mg/L	0.007840	42.46%
Si 288.158†	4964.3	3.931	mg/L	0.0309	7.862	mg/L	0.0619	0.79%
Sn 189.927†	100.2	0.02777	mg/L	0.001527	0.05554	mg/L	0.003053	5.50%
Sr 421.552†	56079.4	0.1139	mg/L	0.00014	0.2278	mg/L	0.00027	0.12%
Ti 334.903†	30302.4	1.493	mg/L	0.0031	2.985	mg/L	0.0063	0.21%
Tl 190.801†	-19.3	-0.01397	mg/L	0.001902	-0.02794	mg/L	0.003803	13.61%
V 292.402†	19215.6	0.1410	mg/L	0.00318	0.2820	mg/L	0.00635	2.25%
Zn 206.200†	22514.0	9.649	mg/L	0.0873	19.30	mg/L	0.175	0.90%

User canceled analysis.

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Analysis Begun

Start Time: 8/11/2010 1:08:00 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 6

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 1:08:02 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1848163.9	103.9	%	0.41			0.40%
ScR 361.383	216295.8	105.5	%	1.83			1.74%
Ag 328.068†	186304.6	0.9350	mg/L	0.00626	0.9350 mg/L	0.00626	0.67%
Al 308.215†	2832.6	2.022	mg/L	0.0638	2.022 mg/L	0.0638	3.16%
As 188.979†	3176.8	1.909	mg/L	0.0152	1.909 mg/L	0.0152	0.80%
B 249.677†	2059.5	0.9600	mg/L	0.01187	0.9600 mg/L	0.01187	1.24%
Ba 233.527†	7807.1	0.9703	mg/L	0.01926	0.9703 mg/L	0.01926	1.99%
Be 313.042†	288625.5	0.9892	mg/L	0.00853	0.9892 mg/L	0.00853	0.86%
Ca 317.933†	19301.2	2.062	mg/L	0.0336	2.062 mg/L	0.0336	1.63%
Cd 228.802†	55454.6	0.9867	mg/L	0.00666	0.9867 mg/L	0.00666	0.67%
Co 228.616†	49953.8	0.9591	mg/L	0.00823	0.9591 mg/L	0.00823	0.86%
Cr 267.716†	3939.9	0.9873	mg/L	0.01677	0.9873 mg/L	0.01677	1.70%
Cu 324.752†	219739.5	1.021	mg/L	0.0091	1.021 mg/L	0.0091	0.90%
Fe 273.955†	2299.8	2.009	mg/L	0.0464	2.009 mg/L	0.0464	2.31%
K 766.490†	52768.9	19.61	mg/L	0.177	19.61 mg/L	0.177	0.90%
Mg 279.077†	2211.6	2.009	mg/L	0.0317	2.009 mg/L	0.0317	1.58%
Mn 257.610†	38822.5	0.9713	mg/L	0.01743	0.9713 mg/L	0.01743	1.79%
Mo 202.031†	10909.6	0.9568	mg/L	0.00807	0.9568 mg/L	0.00807	0.84%
Na 589.592†	298379.9	47.59	mg/L	0.365	47.59 mg/L	0.365	0.77%
Na 330.237†	1163.8	49.14	mg/L	0.459	49.14 mg/L	0.459	0.93%
Ni 231.604†	1795.8	0.9824	mg/L	0.01737	0.9824 mg/L	0.01737	1.77%
Pb 220.353†	15454.6	1.930	mg/L	0.0156	1.930 mg/L	0.0156	0.81%
Sb 206.836†	4287.9	2.074	mg/L	0.0129	2.074 mg/L	0.0129	0.62%
Se 196.026†	2059.0	1.898	mg/L	0.0151	1.898 mg/L	0.0151	0.80%
Si 288.158†	2692.9	2.134	mg/L	0.0384	2.134 mg/L	0.0384	1.80%
Sn 189.927†	3504.2	0.8986	mg/L	0.00664	0.8986 mg/L	0.00664	0.74%
Sr 421.552†	489122.7	0.9933	mg/L	0.00973	0.9933 mg/L	0.00973	0.98%
Ti 334.903†	19737.0	0.9716	mg/L	0.00890	0.9716 mg/L	0.00890	0.92%
Tl 190.801†	4012.4	1.902	mg/L	0.0130	1.902 mg/L	0.0130	0.68%
V 292.402†	115872.7	0.9609	mg/L	0.00905	0.9609 mg/L	0.00905	0.94%
Zn 206.200†	2315.6	0.9916	mg/L	0.01919	0.9916 mg/L	0.01919	1.94%

Sequence No.: 7
 Sample ID: CB j
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/11/2010 1:14:03 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1846517.1	103.8	%	0.24				0.24%
ScR 361.383	214502.4	104.6	%	0.43				0.41%
Ag 328.068†	31.1	0.00016	mg/L	0.000115	0.00016	mg/L	0.000115	73.97%
Al 308.215†	23.6	0.01716	mg/L	0.011300	0.01716	mg/L	0.011300	65.86%
As 188.979†	-3.9	-0.00233	mg/L	0.002049	-0.00233	mg/L	0.002049	87.89%
B 249.677†	11.1	0.00519	mg/L	0.000906	0.00519	mg/L	0.000906	17.45%
Ba 233.527†	0.2	0.00002	mg/L	0.000270	0.00002	mg/L	0.000270	>999.9%
Be 313.042†	-11.3	-0.00004	mg/L	0.000043	-0.00004	mg/L	0.000043	114.40%
Ca 317.933†	-10.1	-0.00108	mg/L	0.001204	-0.00108	mg/L	0.001204	111.96%
Cd 228.802†	4.9	0.00009	mg/L	0.000057	0.00009	mg/L	0.000057	61.09%
Co 228.616†	5.8	0.00011	mg/L	0.000032	0.00011	mg/L	0.000032	28.84%
Cr 267.716†	2.0	0.00051	mg/L	0.001523	0.00051	mg/L	0.001523	300.53%
Cu 324.752†	-27.5	-0.00013	mg/L	0.000112	-0.00013	mg/L	0.000112	87.57%
Fe 273.955†	1.7	0.00146	mg/L	0.004093	0.00146	mg/L	0.004093	279.77%
K 766.490†	19.3	0.00718	mg/L	0.022354	0.00718	mg/L	0.022354	311.44%
Mg 279.077†	-6.7	-0.00610	mg/L	0.005097	-0.00610	mg/L	0.005097	83.52%
Mn 257.610†	-7.1	-0.00018	mg/L	0.000030	-0.00018	mg/L	0.000030	16.73%
Mo 202.031†	-0.6	-0.00005	mg/L	0.000243	-0.00005	mg/L	0.000243	464.38%
Na 589.592†	216.4	0.03451	mg/L	0.010713	0.03451	mg/L	0.010713	31.04%
Na 330.237†	-4.9	-0.2104	mg/L	0.33309	-0.2104	mg/L	0.33309	158.33%
Ni 231.604†	6.4	0.00347	mg/L	0.004304	0.00347	mg/L	0.004304	123.95%
Pb 220.353†	-6.4	-0.00080	mg/L	0.000532	-0.00080	mg/L	0.000532	66.79%
Sb 206.836†	-2.2	-0.00103	mg/L	0.001888	-0.00103	mg/L	0.001888	182.83%
Se 196.026†	4.8	0.00444	mg/L	0.004478	0.00444	mg/L	0.004478	100.78%
Si 288.158†	9.8	0.00773	mg/L	0.001904	0.00773	mg/L	0.001904	24.65%
Sn 189.927†	8.6	0.00220	mg/L	0.000253	0.00220	mg/L	0.000253	11.49%
Sr 421.552†	-5.4	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	185.00%
Ti 334.903†	0.0	0.00000	mg/L	0.001611	0.00000	mg/L	0.001611	>999.9%
Tl 190.801†	6.6	0.00315	mg/L	0.001634	0.00315	mg/L	0.001634	51.85%
V 292.402†	-39.6	-0.00032	mg/L	0.000043	-0.00032	mg/L	0.000043	13.38%
Zn 206.200†	6.9	0.00294	mg/L	0.000752	0.00294	mg/L	0.000752	25.61%

Sequence No.: 8
Sample ID: RG80 MB SWC

Autosampler Location: 24
Date Collected: 8/11/2010 1:20:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Dec

Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1893726.7	106.5	%	0.48				0.45%
ScR 361.383	217277.3	106.0	%	0.34				0.32%
Ag 328.068†	26.8	0.00013	mg/L	0.000167	0.00027	mg/L	0.000334	124.21%
Al 308.215†	21.5	0.01564	mg/L	0.008925	0.03128	mg/L	0.017850	57.07%
As 188.979†	-3.3	-0.00197	mg/L	0.000690	-0.00395	mg/L	0.001380	34.94%
B 249.677†	3.9	0.00181	mg/L	0.001462	0.00361	mg/L	0.002924	80.92%
Ba 233.527†	-0.7	-0.00008	mg/L	0.000179	-0.00017	mg/L	0.000359	213.02%
Be 313.042†	-9.6	-0.00003	mg/L	0.000095	-0.00007	mg/L	0.000190	290.73%
Ca 317.933†	88.2	0.00942	mg/L	0.003380	0.01884	mg/L	0.006759	35.87%
Cd 228.802†	-7.6	-0.00013	mg/L	0.000219	-0.00026	mg/L	0.000437	166.41%
Co 228.616†	15.6	0.00030	mg/L	0.000107	0.00060	mg/L	0.000214	35.39%
Cr 267.716†	0.9	0.00023	mg/L	0.002290	0.00046	mg/L	0.004580	992.38%
Cu 324.752†	-123.8	-0.00057	mg/L	0.000099	-0.00115	mg/L	0.000198	17.20%
Fe 273.955†	3.9	0.00339	mg/L	0.001441	0.00677	mg/L	0.002881	42.54%
K 766.490†	1.2	0.00045	mg/L	0.010365	0.00091	mg/L	0.020730	>999.9%
Mg 279.077†	0.3	0.00027	mg/L	0.006025	0.00054	mg/L	0.012049	>999.9%
Mn 257.610†	-8.0	-0.00020	mg/L	0.000053	-0.00040	mg/L	0.000106	26.31%
Mo 202.031†	-1.9	-0.00016	mg/L	0.000359	-0.00033	mg/L	0.000718	220.55%
Na 589.592†	19.2	0.00306	mg/L	0.004996	0.00611	mg/L	0.009991	163.41%
Na 330.237†	11.7	0.4930	mg/L	0.36678	0.9860	mg/L	0.73356	74.40%
Ni 231.604†	-0.2	-0.00013	mg/L	0.000512	-0.00027	mg/L	0.001024	386.00%
Pb 220.353†	-9.9	-0.00122	mg/L	0.000530	-0.00245	mg/L	0.001061	43.30%
Sb 206.836†	-9.4	-0.00457	mg/L	0.002320	-0.00915	mg/L	0.004640	50.74%
Se 196.026†	4.1	0.00375	mg/L	0.003233	0.00751	mg/L	0.006465	86.13%
Si 288.158†	2.1	0.00162	mg/L	0.005527	0.00325	mg/L	0.011054	340.43%
Sn 189.927†	6.0	0.00153	mg/L	0.000364	0.00305	mg/L	0.000727	23.81%
Sr 421.552†	-8.3	-0.00002	mg/L	0.000041	-0.00003	mg/L	0.000083	244.81%
Ti 334.903†	-21.0	-0.00103	mg/L	0.000883	-0.00207	mg/L	0.001767	85.46%
Tl 190.801†	3.7	0.00175	mg/L	0.001041	0.00349	mg/L	0.002081	59.63%
V 292.402†	-11.9	-0.00010	mg/L	0.000023	-0.00019	mg/L	0.000046	23.91%
Zn 206.200†	6.5	0.00280	mg/L	0.000993	0.00560	mg/L	0.001985	35.43%

Sequence No.: 9
Sample ID: RG80 D SWC

Autosampler Location: 25
Date Collected: 8/11/2010 1:26:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1893246.7	106.5	%	0.98				0.92%
ScR 361.383	221721.1	108.2	%	0.60				0.55%
Ag 328.068†	-660.5	0.00202	mg/L	0.000086	0.00403	mg/L	0.000172	4.27%
Al 308.215†	33328.0	24.23	mg/L	0.040	48.45	mg/L	0.080	0.16%
As 188.979†	12.6	0.01024	mg/L	0.001424	0.02049	mg/L	0.002848	13.90%
B 249.677†	92.1	0.04292	mg/L	0.000776	0.08584	mg/L	0.001552	1.81%
Ba 233.527†	2211.5	0.2681	mg/L	0.00122	0.5361	mg/L	0.00245	0.46%
Be 313.042†	164.6	0.00015	mg/L	0.000034	0.00030	mg/L	0.000069	23.07%
Ca 317.933†	219465.4	23.45	mg/L	0.024	46.89	mg/L	0.047	0.10%
Cd 228.802†	1022.1	0.01827	mg/L	0.000299	0.03654	mg/L	0.000599	1.64%
Co 228.616†	1188.1	0.02021	mg/L	0.000392	0.04042	mg/L	0.000784	1.94%
Cr 267.716†	992.7	0.2509	mg/L	0.00150	0.5018	mg/L	0.00300	0.60%
Cu 324.752†	223394.8	1.050	mg/L	0.0147	2.100	mg/L	0.0294	1.40%
Fe 273.955†	166337.1	145.3	mg/L	0.25	290.7	mg/L	0.51	0.17%
K 766.490†	3445.6	1.280	mg/L	0.0044	2.561	mg/L	0.0087	0.34%
Mg 279.077†	9173.7	8.235	mg/L	0.0290	16.47	mg/L	0.058	0.35%
Mn 257.610†	38733.4	0.9685	mg/L	0.00145	1.937	mg/L	0.0029	0.15%
Mo 202.031†	282.1	0.02411	mg/L	0.000679	0.04821	mg/L	0.001359	2.82%
Na 589.592†	8391.2	1.338	mg/L	0.0126	2.677	mg/L	0.0252	0.94%
Na 330.237†	97.0	1.199	mg/L	0.2571	2.398	mg/L	0.5141	21.44%
Ni 231.604†	242.6	0.1327	mg/L	0.00409	0.2653	mg/L	0.00819	3.09%
Pb 220.353†	4507.0	0.5594	mg/L	0.00778	1.119	mg/L	0.0156	1.39%
Sb 206.836†	66.6	0.00247	mg/L	0.000771	0.00494	mg/L	0.001542	31.21%
Se 196.026†	-35.7	-0.00448	mg/L	0.009380	-0.00895	mg/L	0.018759	209.52%
Si 288.158†	4981.7	3.945	mg/L	0.0149	7.890	mg/L	0.0299	0.38%
Sn 189.927†	97.6	0.02709	mg/L	0.001388	0.05418	mg/L	0.002775	5.12%
Sr 421.552†	55216.6	0.1121	mg/L	0.00005	0.2243	mg/L	0.00009	0.04%
Ti 334.903†	30019.6	1.479	mg/L	0.0010	2.957	mg/L	0.0021	0.07%
Tl 190.801†	-18.8	-0.01369	mg/L	0.003582	-0.02738	mg/L	0.007165	26.17%
V 292.402†	18687.1	0.1367	mg/L	0.00242	0.2734	mg/L	0.00483	1.77%
Zn 206.200†	22549.4	9.664	mg/L	0.0271	19.33	mg/L	0.054	0.28%

Sequence No.: 10
Sample ID: RG80 G SWC

Autosampler Location: 26
Date Collected: 8/11/2010 1:32:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 G SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

DL

Mean Data: RG80 G SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1861346.9	104.7	%	0.34				0.33%
ScR 361.383	220375.7	107.5	%	0.70				0.65%
Ag 328.068†	-675.1	0.00795	mg/L	0.000199	0.01590	mg/L	0.000398	2.50%
Al 308.215†	182171.1	132.4	mg/L	0.11	264.8	mg/L	0.23	0.09%
As 188.979†	70.4	0.05823	mg/L	0.002448	0.1165	mg/L	0.00490	4.20%
B 249.677†	261.7	0.1215	mg/L	0.00218	0.2431	mg/L	0.00435	1.79%
Ba 233.527†	15793.4	1.948	mg/L	0.0070	3.895	mg/L	0.0139	0.36%
Be 313.042†	983.1	0.00127	mg/L	0.000025	0.00254	mg/L	0.000050	1.99%
Ca 317.933†	965017.1	103.1	mg/L	0.10	206.2	mg/L	0.21	0.10%
Cd 228.802†	3357.3	0.06012	mg/L	0.000339	0.1202	mg/L	0.00068	0.56%
Co 228.616†	6666.6	0.1124	mg/L	0.00070	0.2248	mg/L	0.00140	0.62%
Cr 267.716†	6600.0	1.657	mg/L	0.0063	3.314	mg/L	0.0127	0.38%
Cu 324.752†	486252.6	2.286	mg/L	0.0046	4.572	mg/L	0.0092	0.20%
Fe 273.955†	382825.5	334.5	mg/L	1.02	669.0	mg/L	2.04	0.30%
K 766.490†	21504.0	7.992	mg/L	0.0024	15.98	mg/L	0.005	0.03%
Mg 279.077†	58421.7	52.80	mg/L	0.114	105.6	mg/L	0.23	0.22%
Mn 257.610†	232200.2	5.806	mg/L	0.0059	11.61	mg/L	0.012	0.10%
Mo 202.031†	1673.1	0.1456	mg/L	0.00080	0.2913	mg/L	0.00160	0.55%
Na 589.592†	37735.6	6.019	mg/L	0.0164	12.04	mg/L	0.033	0.27%
Na 330.237†	218.3	5.584	mg/L	0.1733	11.17	mg/L	0.347	3.10%
Ni 231.604†	1755.7	0.9598	mg/L	0.00529	1.920	mg/L	0.0106	0.55%
Pb 220.353†	13395.3	1.689	mg/L	0.0107	3.377	mg/L	0.0215	0.64%
Sb 206.836†	201.3	0.00203	mg/L	0.002022	0.00406	mg/L	0.004045	99.72%
Se 196.026†	-103.2	-0.01885	mg/L	0.004316	-0.03770	mg/L	0.008632	22.90%
Si 288.158†	8281.4	6.564	mg/L	0.0211	13.13	mg/L	0.042	0.32%
Sn 189.927†	305.0	0.08858	mg/L	0.001589	0.1772	mg/L	0.00318	1.79%
Sr 421.552†	231993.2	0.4711	mg/L	0.00015	0.9422	mg/L	0.00030	0.03%
Ti 334.903†	178739.3	8.806	mg/L	0.0070	17.61	mg/L	0.014	0.08%
Tl 190.801†	-17.1	-0.03558	mg/L	0.003290	-0.07116	mg/L	0.006581	9.25%
V 292.402†	93816.4	0.7344	mg/L	0.00299	1.469	mg/L	0.0060	0.41%
Zn 206.200†	35524.0	15.23	mg/L	0.080	30.45	mg/L	0.160	0.53%

Sequence No.: 11
Sample ID: RG80 H SWC

Autosampler Location: 27
Date Collected: 8/11/2010 1:37:51 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 H SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1889647.6	106.3	%	0.54				0.50%
ScR 361.383	223111.4	108.8	%	0.50				0.46%
Ag 328.068†	1283.0	0.01482	mg/L	0.000241	0.02964	mg/L	0.000482	1.63%
Al 308.215†	225979.2	164.3	mg/L	0.26	328.6	mg/L	0.53	0.16%
As 188.979†	373.0	0.2346	mg/L	0.00246	0.4692	mg/L	0.00493	1.05%
B 249.677†	117.7	0.05434	mg/L	0.002802	0.1087	mg/L	0.00560	5.16%
Ba 233.527†	8574.8	1.055	mg/L	0.0035	2.110	mg/L	0.0071	0.33%
Be 313.042†	840.1	0.00151	mg/L	0.000040	0.00302	mg/L	0.000080	2.64%
Ca 317.933†	382431.8	40.86	mg/L	0.036	81.71	mg/L	0.072	0.09%
Cd 228.802†	4475.9	0.07976	mg/L	0.000743	0.1595	mg/L	0.00149	0.93%
Co 228.616†	5085.9	0.08708	mg/L	0.000986	0.1742	mg/L	0.00197	1.13%
Cr 267.716†	6434.0	1.615	mg/L	0.0061	3.230	mg/L	0.0122	0.38%
Cu 324.752†	1076779.6	5.021	mg/L	0.0043	10.04	mg/L	0.009	0.09%
Fe 273.955†	266917.3	233.2	mg/L	1.07	466.5	mg/L	2.15	0.46%
K 766.490†	9537.3	3.544	mg/L	0.0070	7.089	mg/L	0.0140	0.20%
Mg 279.077†	41866.9	37.84	mg/L	0.097	75.68	mg/L	0.194	0.26%
Mn 257.610†	108347.2	2.711	mg/L	0.0025	5.422	mg/L	0.0050	0.09%
Mo 202.031†	1026.5	0.08923	mg/L	0.000666	0.1785	mg/L	0.00133	0.75%
Na 589.592†	22301.1	3.557	mg/L	0.0049	7.114	mg/L	0.0098	0.14%
Na 330.237†	142.9	3.744	mg/L	0.2755	7.489	mg/L	0.5510	7.36%
Ni 231.604†	1721.3	0.9410	mg/L	0.00447	1.882	mg/L	0.0089	0.48%
Pb 220.353†	87222.8	10.92	mg/L	0.015	21.83	mg/L	0.030	0.14%
Sb 206.836†	337.5	0.07303	mg/L	0.001695	0.1461	mg/L	0.00339	2.32%
Se 196.026†	-81.5	-0.00644	mg/L	0.001417	-0.01288	mg/L	0.002834	22.01%
Si 288.158†	8241.2	6.530	mg/L	0.0188	13.06	mg/L	0.038	0.29%
Sn 189.927†	600.0	0.1593	mg/L	0.00072	0.3187	mg/L	0.00144	0.45%
Sr 421.552†	110427.3	0.2242	mg/L	0.00069	0.4485	mg/L	0.00138	0.31%
Ti 334.903†	121957.0	6.009	mg/L	0.0062	12.02	mg/L	0.012	0.10%
Tl 190.801†	-15.0	-0.02433	mg/L	0.004452	-0.04867	mg/L	0.008904	18.30%
V 292.402†	60923.0	0.4780	mg/L	0.00048	0.9560	mg/L	0.00095	0.10%
Zn 206.200†	24260.8	10.40	mg/L	0.035	20.80	mg/L	0.070	0.34%

Sequence No.: 12
Sample ID: RG80 O SWC

Autosampler Location: 28
Date Collected: 8/11/2010 1:43:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 O SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 O SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1910109.4	107.4	%	0.48				0.45%
ScR 361.383	211976.7	103.4	%	9.69				9.37%
Ag 328.068†	-918.1	0.00298	mg/L	0.000832	0.00595	mg/L	0.001664	27.97%
Al 308.215†	138365.2	100.6	mg/L	11.14	201.2	mg/L	22.28	11.08%
As 188.979†	42.3	0.03790	mg/L	0.002366	0.07580	mg/L	0.004732	6.24%
B 249.677†	242.9	0.1130	mg/L	0.01187	0.2259	mg/L	0.02374	10.51%
Ba 233.527†	10802.4	1.333	mg/L	0.1412	2.665	mg/L	0.2824	10.60%
Be 313.042†	696.1	0.00117	mg/L	0.000455	0.00234	mg/L	0.000910	38.96%
Ca 317.933†	757159.3	80.89	mg/L	9.182	161.8	mg/L	18.36	11.35%
Cd 228.802†	2752.5	0.04926	mg/L	0.000062	0.09852	mg/L	0.000123	0.12%
Co 228.616†	4363.3	0.07182	mg/L	0.001098	0.1436	mg/L	0.00220	1.53%
Cr 267.716†	4233.6	1.063	mg/L	0.1137	2.125	mg/L	0.2274	10.70%
Cu 324.752†	236718.8	1.118	mg/L	0.0092	2.235	mg/L	0.0184	0.82%
Fe 273.955†	254924.4	222.8	mg/L	24.92	445.5	mg/L	49.84	11.19%
K 766.490†	14413.3	5.356	mg/L	0.7178	10.71	mg/L	1.436	13.40%
Mg 279.077†	52773.5	47.74	mg/L	5.311	95.47	mg/L	10.622	11.13%
Mn 257.610†	121281.0	3.032	mg/L	0.3367	6.064	mg/L	0.6734	11.10%
Mo 202.031†	824.7	0.07180	mg/L	0.000325	0.1436	mg/L	0.00065	0.45%
Na 589.592†	29904.0	4.770	mg/L	0.5418	9.540	mg/L	1.0835	11.36%
Na 330.237†	132.7	4.270	mg/L	0.7964	8.541	mg/L	1.5928	18.65%
Ni 231.604†	1115.2	0.6096	mg/L	0.06539	1.219	mg/L	0.1308	10.73%
Pb 220.353†	7243.0	0.9189	mg/L	0.00323	1.838	mg/L	0.0065	0.35%
Sb 206.836†	123.7	-0.00514	mg/L	0.009011	-0.01027	mg/L	0.018021	175.45%
Se 196.026†	-70.1	-0.01045	mg/L	0.012075	-0.02089	mg/L	0.024150	115.60%
Si 288.158†	7869.5	6.237	mg/L	0.6445	12.47	mg/L	1.289	10.33%
Sn 189.927†	122.3	0.03962	mg/L	0.001214	0.07925	mg/L	0.002429	3.06%
Sr 421.552†	174482.1	0.3543	mg/L	0.03864	0.7086	mg/L	0.07729	10.91%
Ti 334.903†	137121.4	6.755	mg/L	0.7501	13.51	mg/L	1.500	11.10%
Tl 190.801†	-5.8	-0.02106	mg/L	0.005172	-0.04213	mg/L	0.010344	24.55%
V 292.402†	53301.5	0.4126	mg/L	0.00049	0.8252	mg/L	0.00099	0.12%
Zn 206.200†	16432.6	7.044	mg/L	0.7439	14.09	mg/L	1.488	10.56%

Sequence No.: 13
Sample ID: RG80 P SWC

Autosampler Location: 29
Date Collected: 8/11/2010 1:49:43 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 P SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

DC

Mean Data: RG80 P SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1932513.0	108.7	%	0.26				0.24%
ScR 361.383	225665.6	110.1	%	0.33				0.30%
Ag 328.068†	-809.8	0.00325	mg/L	0.000196	0.00649	mg/L	0.000392	6.05%
Al 308.215†	124386.1	90.42	mg/L	0.132	180.8	mg/L	0.26	0.15%
As 188.979†	97.2	0.06877	mg/L	0.004396	0.1375	mg/L	0.00879	6.39%
B 249.677†	90.3	0.04165	mg/L	0.000019	0.08331	mg/L	0.000039	0.05%
Ba 233.527†	5979.1	0.7336	mg/L	0.00286	1.467	mg/L	0.0057	0.39%
Be 313.042†	640.1	0.00104	mg/L	0.000031	0.00208	mg/L	0.000063	3.03%
Ca 317.933†	408700.0	43.66	mg/L	0.062	87.33	mg/L	0.125	0.14%
Cd 228.802†	1711.5	0.03068	mg/L	0.000208	0.06135	mg/L	0.000417	0.68%
Co 228.616†	4442.2	0.07534	mg/L	0.000435	0.1507	mg/L	0.00087	0.58%
Cr 267.716†	4542.1	1.140	mg/L	0.0029	2.281	mg/L	0.0059	0.26%
Cu 324.752†	223314.2	1.054	mg/L	0.0088	2.108	mg/L	0.0177	0.84%
Fe 273.955†	234467.9	204.9	mg/L	0.15	409.8	mg/L	0.30	0.07%
K 766.490†	11133.0	4.137	mg/L	0.0228	8.275	mg/L	0.0455	0.55%
Mg 279.077†	44589.0	40.32	mg/L	0.074	80.65	mg/L	0.147	0.18%
Mn 257.610†	92571.4	2.315	mg/L	0.0024	4.629	mg/L	0.0048	0.10%
Mo 202.031†	510.3	0.04428	mg/L	0.000514	0.08857	mg/L	0.001028	1.16%
Na 589.592†	18467.8	2.946	mg/L	0.0126	5.891	mg/L	0.0252	0.43%
Na 330.237†	104.9	3.505	mg/L	0.2707	7.009	mg/L	0.5414	7.72%
Ni 231.604†	1483.2	0.8108	mg/L	0.00124	1.622	mg/L	0.0025	0.15%
Pb 220.353†	18089.1	2.271	mg/L	0.0150	4.542	mg/L	0.0300	0.66%
Sb 206.836†	141.3	0.00610	mg/L	0.004503	0.01221	mg/L	0.009006	73.78%
Se 196.026†	-62.2	-0.00777	mg/L	0.002527	-0.01555	mg/L	0.005054	32.50%
Si 288.158†	9955.9	7.887	mg/L	0.0291	15.77	mg/L	0.058	0.37%
Sn 189.927†	224.8	0.06329	mg/L	0.000583	0.1266	mg/L	0.00117	0.92%
Sr 421.552†	123440.3	0.2507	mg/L	0.00023	0.5013	mg/L	0.00047	0.09%
Ti 334.903†	115413.2	5.687	mg/L	0.0064	11.37	mg/L	0.013	0.11%
Tl 190.801†	-14.3	-0.02239	mg/L	0.004403	-0.04477	mg/L	0.008806	19.67%
V 292.402†	51071.5	0.3975	mg/L	0.00285	0.7951	mg/L	0.00569	0.72%
Zn 206.200†	13548.3	5.807	mg/L	0.0132	11.61	mg/L	0.026	0.23%

Sequence No.: 14
Sample ID: RG80 CDUP SWC

Autosampler Location: 30
Date Collected: 8/11/2010 1:55:44 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CDUP SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

DL

Mean Data: RG80 CDUP SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1912200.5	107.5	%	0.85				0.79%
ScR 361.383	222339.0	108.5	%	0.68				0.63%
Ag 328.068†	302.5	0.00626	mg/L	0.000111	0.01252	mg/L	0.000222	1.77%
Al 308.215†	96425.8	70.09	mg/L	0.172	140.2	mg/L	0.34	0.25%
As 188.979†	28.6	0.02682	mg/L	0.003599	0.05364	mg/L	0.007197	13.42%
B 249.677†	139.7	0.06494	mg/L	0.001474	0.1299	mg/L	0.00295	2.27%
Ba 233.527†	4743.6	0.5832	mg/L	0.00496	1.166	mg/L	0.0099	0.85%
Be 313.042†	477.6	0.00072	mg/L	0.000053	0.00144	mg/L	0.000106	7.37%
Ca 317.933†	374700.7	40.03	mg/L	0.144	80.06	mg/L	0.287	0.36%
Cd 228.802†	1308.5	0.02341	mg/L	0.000366	0.04681	mg/L	0.000732	1.56%
Co 228.616†	3020.9	0.04918	mg/L	0.000640	0.09837	mg/L	0.001280	1.30%
Cr 267.716†	1949.8	0.4899	mg/L	0.00253	0.9798	mg/L	0.00505	0.52%
Cu 324.752†	159703.1	0.7527	mg/L	0.00694	1.505	mg/L	0.0139	0.92%
Fe 273.955†	156787.2	137.0	mg/L	0.77	274.0	mg/L	1.55	0.56%
K 766.490†	10688.2	3.972	mg/L	0.0102	7.944	mg/L	0.0204	0.26%
Mg 279.077†	26997.9	24.41	mg/L	0.103	48.82	mg/L	0.205	0.42%
Mn 257.610†	77706.2	1.943	mg/L	0.0034	3.886	mg/L	0.0068	0.18%
Mo 202.031†	374.4	0.03227	mg/L	0.000244	0.06455	mg/L	0.000488	0.76%
Na 589.592†	20139.3	3.212	mg/L	0.0146	6.425	mg/L	0.0292	0.45%
Na 330.237†	129.8	3.699	mg/L	0.2713	7.398	mg/L	0.5426	7.33%
Ni 231.604†	531.6	0.2906	mg/L	0.00081	0.5813	mg/L	0.00162	0.28%
Pb 220.353†	7308.4	0.9232	mg/L	0.01173	1.846	mg/L	0.0235	1.27%
Sb 206.836†	76.8	-0.00034	mg/L	0.000174	-0.00069	mg/L	0.000349	50.65%
Se 196.026†	-40.8	-0.00260	mg/L	0.002134	-0.00520	mg/L	0.004267	82.01%
Si 288.158†	6515.4	5.161	mg/L	0.0244	10.32	mg/L	0.049	0.47%
Sn 189.927†	119.7	0.03544	mg/L	0.000896	0.07089	mg/L	0.001792	2.53%
Sr 421.552†	103094.0	0.2094	mg/L	0.00027	0.4187	mg/L	0.00053	0.13%
Ti 334.903†	102367.7	5.044	mg/L	0.0045	10.09	mg/L	0.009	0.09%
Tl 190.801†	5.5	-0.01056	mg/L	0.000405	-0.02112	mg/L	0.000810	3.84%
V 292.402†	40169.2	0.3124	mg/L	0.00361	0.6249	mg/L	0.00721	1.15%
Zn 206.200†	19079.5	8.178	mg/L	0.0840	16.36	mg/L	0.168	1.03%

Sequence No.: 15
Sample ID: RG80 C SWC

Autosampler Location: 31
Date Collected: 8/11/2010 2:01:45 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 C SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1883683.0	105.9 %	%	0.30			0.28%
ScR 361.383	190657.6	93.00 %	%	24.336			26.17%
Ag 328.068†	37.2	0.00639 mg/L	mg/L	0.001846	0.01278 mg/L	0.003693	28.90%
Al 308.215†	124176.0	90.27 mg/L	mg/L	27.957	180.5 mg/L	55.91	30.97%
As 188.979†	32.2	0.02961 mg/L	mg/L	0.004233	0.05921 mg/L	0.008467	14.30%
B 249.677†	157.3	0.07317 mg/L	mg/L	0.018393	0.1463 mg/L	0.03679	25.14%
Ba 233.527†	5823.7	0.7156 mg/L	mg/L	0.22435	1.431 mg/L	0.4487	31.35%
Be 313.042†	707.1	0.00152 mg/L	mg/L	0.001334	0.00304 mg/L	0.002669	87.86%
Ca 317.933†	525847.7	56.18 mg/L	mg/L	17.352	112.4 mg/L	34.70	30.89%
Cd 228.802†	1219.8	0.02183 mg/L	mg/L	0.000112	0.04366 mg/L	0.000224	0.51%
Co 228.616†	2829.8	0.04489 mg/L	mg/L	0.002583	0.08978 mg/L	0.005165	5.75%
Cr 267.716†	2215.0	0.5567 mg/L	mg/L	0.16674	1.113 mg/L	0.3335	29.95%
Cu 324.752†	138979.7	0.6602 mg/L	mg/L	0.00446	1.320 mg/L	0.0089	0.67%
Fe 273.955†	205631.0	179.7 mg/L	mg/L	53.56	359.4 mg/L	107.12	29.81%
K 766.490†	16769.0	6.232 mg/L	mg/L	2.3148	12.46 mg/L	4.630	37.14%
Mg 279.077†	35325.4	31.94 mg/L	mg/L	9.825	63.87 mg/L	19.650	30.76%
Mn 257.610†	94075.5	2.352 mg/L	mg/L	0.7293	4.704 mg/L	1.4585	31.01%
Mo 202.031†	325.3	0.02792 mg/L	mg/L	0.000756	0.05583 mg/L	0.001512	2.71%
Na 589.592†	26493.3	4.226 mg/L	mg/L	1.4108	8.452 mg/L	2.8215	33.38%
Na 330.237†	108.1	2.523 mg/L	mg/L	2.5635	5.046 mg/L	5.1269	101.60%
Ni 231.604†	584.9	0.3198 mg/L	mg/L	0.08835	0.6395 mg/L	0.17670	27.63%
Pb 220.353†	6225.3	0.7911 mg/L	mg/L	0.00961	1.582 mg/L	0.0192	1.21%
Sb 206.836†	83.7	-0.00922 mg/L	mg/L	0.014170	-0.01844 mg/L	0.028340	153.68%
Se 196.026†	-43.5	0.00580 mg/L	mg/L	0.015192	0.01160 mg/L	0.030384	261.95%
Si 288.158†	8216.2	6.508 mg/L	mg/L	2.0077	13.02 mg/L	4.015	30.85%
Sn 189.927†	86.6	0.02818 mg/L	mg/L	0.001805	0.05635 mg/L	0.003611	6.41%
Sr 421.552†	138370.2	0.2810 mg/L	mg/L	0.08689	0.5620 mg/L	0.17379	30.92%
Ti 334.903†	109109.4	5.376 mg/L	mg/L	1.6688	10.75 mg/L	3.338	31.04%
Tl 190.801†	-9.1	-0.01859 mg/L	mg/L	0.002986	-0.03719 mg/L	0.005972	16.06%
V 292.402†	39409.0	0.3014 mg/L	mg/L	0.00719	0.6027 mg/L	0.01438	2.39%
Zn 206.200†	20682.0	8.865 mg/L	mg/L	2.6469	17.73 mg/L	5.294	29.86%

Sequence No.: 16

Sample ID: RG80 CSPK SWC

Autosampler Location: 32

Date Collected: 8/11/2010 2:07:46 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CSPK SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 CSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1925704.7	108.3	%	0.90			0.83%
ScR 361.383	223446.6	109.0	%	0.71			0.65%
Ag 328.068†	89315.2	0.4535	mg/L	0.00088	0.9070 mg/L	0.00176	0.19%
Al 308.215†	89876.3	65.33	mg/L	0.218	130.7 mg/L	0.44	0.33%
As 188.979†	2963.6	1.789	mg/L	0.0233	3.578 mg/L	0.0465	1.30%
B 249.677†	151.5	0.06905	mg/L	0.002629	0.1381 mg/L	0.00526	3.81%
Ba 233.527†	18874.7	2.340	mg/L	0.0202	4.679 mg/L	0.0404	0.86%
Be 313.042†	138530.2	0.4739	mg/L	0.00064	0.9478 mg/L	0.00128	0.14%
Ca 317.933†	438875.3	46.89	mg/L	0.030	93.77 mg/L	0.060	0.06%
Cd 228.802†	27076.0	0.4803	mg/L	0.00148	0.9606 mg/L	0.00296	0.31%
Co 228.616†	25832.6	0.4889	mg/L	0.00103	0.9778 mg/L	0.00206	0.21%
Cr 267.716†	3678.3	0.9231	mg/L	0.00621	1.846 mg/L	0.0124	0.67%
Cu 324.752†	270823.6	1.270	mg/L	0.0016	2.541 mg/L	0.0032	0.13%
Fe 273.955†	171636.9	150.0	mg/L	1.27	300.0 mg/L	2.55	0.85%
K 766.490†	33792.3	12.56	mg/L	0.053	25.12 mg/L	0.107	0.43%
Mg 279.077†	35501.4	32.11	mg/L	0.256	64.23 mg/L	0.512	0.80%
Mn 257.610†	94054.2	2.352	mg/L	0.0032	4.704 mg/L	0.0064	0.14%
Mo 202.031†	403.5	0.03480	mg/L	0.000468	0.06960 mg/L	0.000936	1.35%
Na 589.592†	76103.3	12.14	mg/L	0.069	24.28 mg/L	0.138	0.57%
Na 330.237†	343.6	12.57	mg/L	0.124	25.14 mg/L	0.249	0.99%
Ni 231.604†	1371.2	0.7488	mg/L	0.00538	1.498 mg/L	0.0108	0.72%
Pb 220.353†	20887.0	2.616	mg/L	0.0320	5.232 mg/L	0.0639	1.22%
Sb 206.836†	92.1	-0.00061	mg/L	0.003005	-0.00123 mg/L	0.006011	488.85%
Se 196.026†	1864.5	1.755	mg/L	0.0207	3.510 mg/L	0.0415	1.18%
Si 288.158†	6612.0	5.239	mg/L	0.0488	10.48 mg/L	0.098	0.93%
Sn 189.927†	98.8	0.03036	mg/L	0.000931	0.06072 mg/L	0.001862	3.07%
Sr 421.552†	328562.7	0.6672	mg/L	0.00246	1.334 mg/L	0.0049	0.37%
Ti 334.903†	85745.8	4.224	mg/L	0.0062	8.449 mg/L	0.0125	0.15%
Tl 190.801†	3648.2	1.724	mg/L	0.0196	3.448 mg/L	0.0392	1.14%
V 292.402†	93688.0	0.7530	mg/L	0.00169	1.506 mg/L	0.0034	0.22%
Zn 206.200†	18768.2	8.044	mg/L	0.0729	16.09 mg/L	0.146	0.91%

Sequence No.: 17
 Sample ID: RH55 MBSPK SWC
 Dilution: 2X

Autosampler Location: 33
 Date Collected: 8/11/2010 2:13:37 PM
 Data Type: Original

DEL

Nebulizer Parameters: RH55 MBSPK SWC
 Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RH55 MBSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1955673.0	110.0	%	0.95				0.86%
ScR 361.383	230584.3	112.5	%	0.47				0.41%
Ag 328.068†	90789.1	0.4557	mg/L	0.00297	0.9114	mg/L	0.00595	0.65%
Al 308.215†	3018.0	2.187	mg/L	0.0184	4.374	mg/L	0.0368	0.84%
As 188.979†	3081.0	1.851	mg/L	0.0184	3.703	mg/L	0.0368	0.99%
B 249.677†	-2.1	-0.00250	mg/L	0.001554	-0.00500	mg/L	0.003107	62.10%
Ba 233.527†	14915.5	1.854	mg/L	0.0113	3.709	mg/L	0.0225	0.61%
Be 313.042†	142086.6	0.4869	mg/L	0.00057	0.9739	mg/L	0.00114	0.12%
Ca 317.933†	92977.3	9.933	mg/L	0.0099	19.87	mg/L	0.020	0.10%
Cd 228.802†	26412.3	0.4683	mg/L	0.00381	0.9365	mg/L	0.00761	0.81%
Co 228.616†	24032.5	0.4617	mg/L	0.00434	0.9235	mg/L	0.00867	0.94%
Cr 267.716†	1916.4	0.4800	mg/L	0.00306	0.9599	mg/L	0.00612	0.64%
Cu 324.752†	102135.6	0.4748	mg/L	0.00362	0.9496	mg/L	0.00724	0.76%
Fe 273.955†	2974.5	2.599	mg/L	0.0174	5.198	mg/L	0.0348	0.67%
K 766.490†	25606.8	9.516	mg/L	0.0403	19.03	mg/L	0.081	0.42%
Mg 279.077†	10873.1	9.862	mg/L	0.0648	19.72	mg/L	0.130	0.66%
Mn 257.610†	18755.3	0.4695	mg/L	0.00336	0.9389	mg/L	0.00671	0.72%
Mo 202.031†	11.1	0.00089	mg/L	0.000148	0.00179	mg/L	0.000297	16.60%
Na 589.592†	58082.6	9.265	mg/L	0.0125	18.53	mg/L	0.025	0.14%
Na 330.237†	243.4	10.08	mg/L	0.166	20.16	mg/L	0.332	1.64%
Ni 231.604†	863.1	0.4710	mg/L	0.00252	0.9420	mg/L	0.00504	0.54%
Pb 220.353†	14975.2	1.870	mg/L	0.0201	3.739	mg/L	0.0402	1.08%
Sb 206.836†	-0.1	-0.00717	mg/L	0.000987	-0.01435	mg/L	0.001974	13.76%
Se 196.026†	2034.7	1.877	mg/L	0.0205	3.753	mg/L	0.0409	1.09%
Si 288.158†	27.8	0.02383	mg/L	0.002363	0.04766	mg/L	0.004727	9.92%
Sn 189.927†	-12.9	-0.00248	mg/L	0.000519	-0.00497	mg/L	0.001037	20.89%
Sr 421.552†	236083.9	0.4794	mg/L	0.00051	0.9588	mg/L	0.00103	0.11%
Ti 334.903†	329.6	0.01574	mg/L	0.000405	0.03149	mg/L	0.000810	2.57%
Tl 190.801†	3932.9	1.871	mg/L	0.0139	3.742	mg/L	0.0278	0.74%
V 292.402†	57837.2	0.4768	mg/L	0.00559	0.9535	mg/L	0.01117	1.17%
Zn 206.200†	1180.6	0.5062	mg/L	0.00437	1.012	mg/L	0.0087	0.86%

Sequence No.: 18

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 8/11/2010 2:19:41 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1936910.2	108.9 %	0.31			0.28%
ScR 361.383	224636.2	109.6 %	0.69			0.63%
Ag 328.068†	175754.6	0.8821 mg/L	0.01230	0.8821 mg/L	0.01230	1.39%
Al 308.215†	2682.6	1.915 mg/L	0.0133	1.915 mg/L	0.0133	0.69%
As 188.979†	2986.4	1.794 mg/L	0.0091	1.794 mg/L	0.0091	0.51%
B 249.677†	1957.1	0.9123 mg/L	0.00962	0.9123 mg/L	0.00962	1.05%
Ba 233.527†	7384.0	0.9177 mg/L	0.00648	0.9177 mg/L	0.00648	0.71%
Be 313.042†	272418.1	0.9336 mg/L	0.00141	0.9336 mg/L	0.00141	0.15%
Ca 317.933†	18231.7	1.948 mg/L	0.0124	1.948 mg/L	0.0124	0.64%
Cd 228.802†	52583.9	0.9357 mg/L	0.00963	0.9357 mg/L	0.00963	1.03%
Co 228.616†	47550.6	0.9130 mg/L	0.00810	0.9130 mg/L	0.00810	0.89%
Cr 267.716†	3739.9	0.9372 mg/L	0.00771	0.9372 mg/L	0.00771	0.82%
Cu 324.752†	210405.4	0.9773 mg/L	0.00752	0.9773 mg/L	0.00752	0.77%
Fe 273.955†	2189.3	1.912 mg/L	0.0128	1.912 mg/L	0.0128	0.67%
K 766.490†	50511.7	18.77 mg/L	0.045	18.77 mg/L	0.045	0.24%
Mg 279.077†	2091.7	1.900 mg/L	0.0172	1.900 mg/L	0.0172	0.91%
Mn 257.610†	37036.7	0.9266 mg/L	0.00210	0.9266 mg/L	0.00210	0.23%
Mo 202.031†	10291.5	0.9026 mg/L	0.00469	0.9026 mg/L	0.00469	0.52%
Na 589.592†	285256.9	45.50 mg/L	0.203	45.50 mg/L	0.203	0.45%
Na 330.237†	1120.1	47.29 mg/L	0.405	47.29 mg/L	0.405	0.86%
Ni 231.604†	1709.0	0.9349 mg/L	0.00782	0.9349 mg/L	0.00782	0.84%
Pb 220.353†	14710.7	1.837 mg/L	0.0198	1.837 mg/L	0.0198	1.08%
Sb 206.836†	4034.9	1.952 mg/L	0.0076	1.952 mg/L	0.0076	0.39%
Se 196.026†	1936.8	1.785 mg/L	0.0108	1.785 mg/L	0.0108	0.61%
Si 288.158†	2584.7	2.049 mg/L	0.0143	2.049 mg/L	0.0143	0.70%
Sn 189.927†	3286.7	0.8429 mg/L	0.00605	0.8429 mg/L	0.00605	0.72%
Sr 421.552†	467062.0	0.9485 mg/L	0.00270	0.9485 mg/L	0.00270	0.29%
Ti 334.903†	18712.7	0.9212 mg/L	0.00138	0.9212 mg/L	0.00138	0.15%
Tl 190.801†	3812.8	1.808 mg/L	0.0100	1.808 mg/L	0.0100	0.56%
V 292.402†	111316.2	0.9230 mg/L	0.00799	0.9230 mg/L	0.00799	0.87%
Zn 206.200†	2185.2	0.9358 mg/L	0.00419	0.9358 mg/L	0.00419	0.45%

Sequence No.: 19

Sample ID: CB 2

Autosampler Location: 1

Date Collected: 8/11/2010 2:25:43 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1968321.9	110.7	%	0.69				0.63%
ScR 361.383	222753.0	108.7	%	0.33				0.30%
Ag 328.068†	53.5	0.00027	mg/L	0.000248	0.00027	mg/L	0.000248	92.21%
Al 308.215†	28.5	0.02076	mg/L	0.006055	0.02076	mg/L	0.006055	29.17%
As 188.979†	-6.0	-0.00361	mg/L	0.001447	-0.00361	mg/L	0.001447	40.03%
B 249.677†	4.4	0.00205	mg/L	0.000930	0.00205	mg/L	0.000930	45.47%
Ba 233.527†	3.4	0.00042	mg/L	0.000420	0.00042	mg/L	0.000420	100.88%
Be 313.042†	-21.2	-0.00007	mg/L	0.000061	-0.00007	mg/L	0.000061	85.17%
Ca 317.933†	-1.8	-0.00019	mg/L	0.003297	-0.00019	mg/L	0.003297	>999.9%
Cd 228.802†	-2.0	-0.00003	mg/L	0.000055	-0.00003	mg/L	0.000055	195.15%
Co 228.616†	18.0	0.00035	mg/L	0.000164	0.00035	mg/L	0.000164	46.97%
Cr 267.716†	-6.2	-0.00155	mg/L	0.000946	-0.00155	mg/L	0.000946	61.07%
Cu 324.752†	422.2	0.00196	mg/L	0.000415	0.00196	mg/L	0.000415	21.16%
Fe 273.955†	9.3	0.00814	mg/L	0.001066	0.00814	mg/L	0.001066	13.09%
K 766.490†	-60.2	-0.02238	mg/L	0.001731	-0.02238	mg/L	0.001731	7.73%
Mg 279.077†	-6.7	-0.00606	mg/L	0.003849	-0.00606	mg/L	0.003849	63.54%
Mn 257.610†	-17.4	-0.00044	mg/L	0.000072	-0.00044	mg/L	0.000072	16.57%
Mo 202.031†	-1.6	-0.00014	mg/L	0.000076	-0.00014	mg/L	0.000076	53.69%
Na 589.592†	55.8	0.00889	mg/L	0.002983	0.00889	mg/L	0.002983	33.54%
Na 330.237†	18.0	0.7615	mg/L	0.21728	0.7615	mg/L	0.21728	28.53%
Ni 231.604†	5.4	0.00292	mg/L	0.002389	0.00292	mg/L	0.002389	81.78%
Pb 220.353†	-15.4	-0.00193	mg/L	0.000592	-0.00193	mg/L	0.000592	30.69%
Sb 206.836†	-16.1	-0.00780	mg/L	0.002700	-0.00780	mg/L	0.002700	34.64%
Se 196.026†	8.2	0.00758	mg/L	0.003961	0.00758	mg/L	0.003961	52.27%
Si 288.158†	7.8	0.00621	mg/L	0.001540	0.00621	mg/L	0.001540	24.82%
Sn 189.927†	1.8	0.00047	mg/L	0.000298	0.00047	mg/L	0.000298	63.78%
Sr 421.552†	7.8	0.00002	mg/L	0.000019	0.00002	mg/L	0.000019	121.86%
Ti 334.903†	-29.9	-0.00147	mg/L	0.001583	-0.00147	mg/L	0.001583	107.63%
Tl 190.801†	8.1	0.00389	mg/L	0.001088	0.00389	mg/L	0.001088	27.96%
V 292.402†	-42.4	-0.00036	mg/L	0.000155	-0.00036	mg/L	0.000155	43.30%
Zn 206.200†	10.4	0.00448	mg/L	0.000847	0.00448	mg/L	0.000847	18.92%

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Analysis Begun

Start Time: 8/11/2010 2:31:12 PM Plasma On Time: 8/11/2010 10:23:38 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif
Batch ID:
Results Data Set: PE100811
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1 Date Collected: 8/11/2010 2:31:15 PM
Sample ID: STD2 Data Type: Original

Nebulizer Parameters: STD2

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1973349.2	3444.40	0.17%	111.0	%
ScR 361.383	226088.5	2182.83	0.97%	110.3	%
Ba 233.527†	74448.8	139.23	0.19%	[10]	mg/L
Cd 228.802†	504705.2	1768.51	0.35%	[10]	mg/L
Co 228.616†	479848.0	852.68	0.18%	[10]	mg/L
Cr 267.716†	37502.1	118.52	0.32%	[10]	mg/L
Cu 324.752†	1973989.9	3715.86	0.19%	[10]	mg/L
Mn 257.610†	367870.8	480.46	0.13%	[10]	mg/L
V 292.402†	1123411.7	7167.72	0.64%	[10]	mg/L

Sequence No.: 2

Sample ID: STD3

Date Collected: 8/11/2010 2:33:40 PM

Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1939862.4	4624.70	0.24%	109.1	%
ScR 361.383	223850.8	287.20	0.13%	109.2	%
Ag 328.068†	179069.9	1001.60	0.56%	[1.0]	mg/L
As 188.979†	14946.6	198.07	1.33%	[10]	mg/L
B 249.677†	20216.8	118.23	0.58%	[10]	mg/L
Be 313.042†	1388471.4	6257.89	0.45%	[5.0]	mg/L
Na 589.592†	288252.9	1765.80	0.61%	[50]	mg/L
Ni 231.604†	17194.0	85.98	0.50%	[10]	mg/L
Pb 220.353†	73010.4	45.50	0.06%	[10]	mg/L
Se 196.026†	9731.0	119.22	1.23%	[10]	mg/L
Sr 421.552†	2328526.3	14830.99	0.64%	[5]	mg/L
Tl 190.801†	19287.8	252.31	1.31%	[10]	mg/L
Zn 206.200†	22044.8	51.80	0.23%	[10]	mg/L

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Analysis Begun

Start Time: 8/11/2010 2:47:18 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 3

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 2:47:20 PM

Data Type: Original
=====

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

=====
Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD		Conc.	Calib Units
	Intensity	Std.Dev.				
ScA 357.253	1967237.2	3943.35	0.20%		110.6	%
ScR 361.383	224493.2	1188.19	0.53%		109.5	%
Ag 328.068†	-117.8	33.09	28.08%		[0.00]	mg/L
Al 308.215†	-188.0	5.18	2.75%		[0.00]	mg/L
As 188.979†	14.7	3.21	21.88%		[0.00]	mg/L
B 249.677†	5.9	6.10	102.67%		[0.00]	mg/L
Ba 233.527†	23.3	6.20	26.65%		[0.00]	mg/L
Be 313.042†	499.4	5.67	1.14%		[0.00]	mg/L
Ca 317.933†	-97.5	13.86	14.22%		[0.00]	mg/L
Cd 228.802†	186.5	2.65	1.42%		[0.00]	mg/L
Co 228.616†	-156.5	4.52	2.89%		[0.00]	mg/L
Cr 267.716†	-38.7	6.50	16.79%		[0.00]	mg/L
Cu 324.752†	1903.9	37.18	1.95%		[0.00]	mg/L
Fe 273.955†	-21.0	0.98	4.67%		[0.00]	mg/L
K 766.490†	3373.3	25.98	0.77%		[0.00]	mg/L
Mg 279.077†	-60.3	5.55	9.19%		[0.00]	mg/L
Mn 257.610†	72.2	3.05	4.23%		[0.00]	mg/L
Mo 202.031†	22.3	2.01	9.04%		[0.00]	mg/L
Na 589.592†	1541.4	5.18	0.34%		[0.00]	mg/L
Na 330.237†	-222.2	5.24	2.36%		[0.00]	mg/L
Ni 231.604†	-57.8	2.46	4.25%		[0.00]	mg/L
Pb 220.353†	256.8	5.26	2.05%		[0.00]	mg/L
Sb 206.836†	149.1	4.22	2.83%		[0.00]	mg/L
Se 196.026†	-63.1	2.85	4.51%		[0.00]	mg/L
Si 288.158†	19.4	4.61	23.70%		[0.00]	mg/L
Sn 189.927†	-6.6	5.11	77.78%		[0.00]	mg/L
Sr 421.552†	473.3	40.29	8.51%		[0.00]	mg/L
Ti 334.903†	185.5	8.97	4.84%		[0.00]	mg/L
Tl 190.801†	-13.9	3.92	28.32%		[0.00]	mg/L
V 292.402†	459.8	17.45	3.79%		[0.00]	mg/L
Zn 206.200†	-9.9	1.62	16.39%		[0.00]	mg/L

=====
Analysis Begun

Start Time: 8/11/2010 2:51:38 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV 3

Date Collected: 8/11/2010 2:51:40 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1970030.4	110.8	%	0.72			0.65%
ScR 361.383	228209.9	111.3	%	1.56			1.40%
Ag 328.068†	172964.1	0.9659	mg/L	0.00338	0.9659 mg/L	0.00338	0.35%
Al 308.215†	2634.3	1.879	mg/L	0.0234	1.879 mg/L	0.0234	1.24%
As 188.979†	2934.7	1.963	mg/L	0.0035	1.963 mg/L	0.0035	0.18%
B 249.677†	1947.9	0.9619	mg/L	0.01276	0.9619 mg/L	0.01276	1.33%
Ba 233.527†	7362.8	0.9885	mg/L	0.01166	0.9885 mg/L	0.01166	1.18%
Be 313.042†	270671.6	0.9722	mg/L	0.01014	0.9722 mg/L	0.01014	1.04%
Ca 317.933†	18240.7	1.949	mg/L	0.0214	1.949 mg/L	0.0214	1.10%
Cd 228.802†	51615.1	1.019	mg/L	0.0074	1.019 mg/L	0.0074	0.72%
Co 228.616†	46792.8	0.9734	mg/L	0.00499	0.9734 mg/L	0.00499	0.51%
Cr 267.716†	3737.6	0.9966	mg/L	0.01091	0.9966 mg/L	0.01091	1.10%
Cu 324.752†	206119.5	1.044	mg/L	0.0062	1.044 mg/L	0.0062	0.59%
Fe 273.955†	2188.6	1.912	mg/L	0.0268	1.912 mg/L	0.0268	1.40%
K 766.490†	49914.8	18.55	mg/L	0.244	18.55 mg/L	0.244	1.32%
Mg 279.077†	2088.4	1.897	mg/L	0.0252	1.897 mg/L	0.0252	1.33%
Mn 257.610†	36641.1	0.9966	mg/L	0.01055	0.9966 mg/L	0.01055	1.06%
Mo 202.031†	10154.1	0.8905	mg/L	0.00309	0.8905 mg/L	0.00309	0.35%
Na 589.592†	281010.6	48.74	mg/L	0.555	48.74 mg/L	0.555	1.14%
Na 330.237†	1094.2	46.18	mg/L	0.076	46.18 mg/L	0.076	0.16%
Ni 231.604†	1695.5	0.9868	mg/L	0.00879	0.9868 mg/L	0.00879	0.89%
Pb 220.353†	14420.2	1.976	mg/L	0.0108	1.976 mg/L	0.0108	0.55%
Sb 206.836†	3988.7	1.929	mg/L	0.0079	1.929 mg/L	0.0079	0.41%
Se 196.026†	1907.1	1.958	mg/L	0.0097	1.958 mg/L	0.0097	0.50%
Si 288.158†	2570.0	2.037	mg/L	0.0219	2.037 mg/L	0.0219	1.07%
Sn 189.927†	3221.5	0.8262	mg/L	0.00264	0.8262 mg/L	0.00264	0.32%
Sr 421.552†	461838.4	0.9917	mg/L	0.01202	0.9917 mg/L	0.01202	1.21%
Ti 334.903†	18526.1	0.9120	mg/L	0.00983	0.9120 mg/L	0.00983	1.08%
Tl 190.801†	3744.4	1.928	mg/L	0.0086	1.928 mg/L	0.0086	0.44%
V 292.402†	109384.0	0.9848	mg/L	0.01068	0.9848 mg/L	0.01068	1.08%
Zn 206.200†	2175.3	0.9861	mg/L	0.01042	0.9861 mg/L	0.01042	1.06%

Sequence No.: 2

Sample ID: CB

3

Autosampler Location: 1

Date Collected: 8/11/2010 2:57:42 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1983669.9	111.5	%	1.27				1.14%
ScR 361.383	226386.8	110.4	%	0.73				0.66%
Ag 328.068†	19.1	0.00011	mg/L	0.000200	0.00011	mg/L	0.000200	187.02%
Al 308.215†	-3.2	-0.00236	mg/L	0.001679	-0.00236	mg/L	0.001679	71.08%
As 188.979†	0.4	0.00027	mg/L	0.000777	0.00027	mg/L	0.000777	292.26%
B 249.677†	4.1	0.00202	mg/L	0.002376	0.00202	mg/L	0.002376	117.50%
Ba 233.527†	2.5	0.00034	mg/L	0.000721	0.00034	mg/L	0.000721	212.15%
Be 313.042†	39.7	0.00014	mg/L	0.000060	0.00014	mg/L	0.000060	42.42%
Ca 317.933†	-1.2	-0.00013	mg/L	0.003671	-0.00013	mg/L	0.003671	>999.9%
Cd 228.802†	-2.1	-0.00004	mg/L	0.000075	-0.00004	mg/L	0.000075	172.86%
Co 228.616†	8.3	0.00017	mg/L	0.000132	0.00017	mg/L	0.000132	76.24%
Cr 267.716†	3.6	0.00096	mg/L	0.000692	0.00096	mg/L	0.000692	72.28%
Cu 324.752†	-233.0	-0.00118	mg/L	0.000050	-0.00118	mg/L	0.000050	4.20%
Fe 273.955†	-1.6	-0.00141	mg/L	0.003810	-0.00141	mg/L	0.003810	270.53%
K 766.490†	-9.7	-0.00360	mg/L	0.018846	-0.00360	mg/L	0.018846	522.83%
Mg 279.077†	2.9	0.00264	mg/L	0.002505	0.00264	mg/L	0.002505	95.04%
Mn 257.610†	3.6	0.00010	mg/L	0.000105	0.00010	mg/L	0.000105	106.14%
Mo 202.031†	3.5	0.00031	mg/L	0.000225	0.00031	mg/L	0.000225	72.65%
Na 589.592†	202.9	0.03519	mg/L	0.004584	0.03519	mg/L	0.004584	13.02%
Na 330.237†	-0.8	-0.03432	mg/L	0.325610	-0.03432	mg/L	0.325610	948.62%
Ni 231.604†	-4.9	-0.00282	mg/L	0.001229	-0.00282	mg/L	0.001229	43.55%
Pb 220.353†	1.6	0.00022	mg/L	0.000971	0.00022	mg/L	0.000971	448.40%
Sb 206.836†	-1.4	-0.00066	mg/L	0.001159	-0.00066	mg/L	0.001159	174.57%
Se 196.026†	4.0	0.00408	mg/L	0.003374	0.00408	mg/L	0.003374	82.66%
Si 288.158†	2.4	0.00189	mg/L	0.002057	0.00189	mg/L	0.002057	108.55%
Sn 189.927†	7.9	0.00203	mg/L	0.000928	0.00203	mg/L	0.000928	45.74%
Sr 421.552†	-9.9	-0.00002	mg/L	0.000071	-0.00002	mg/L	0.000071	334.09%
Ti 334.903†	3.2	0.00016	mg/L	0.000608	0.00016	mg/L	0.000608	384.69%
Tl 190.801†	1.7	0.00086	mg/L	0.002390	0.00086	mg/L	0.002390	277.12%
V 292.402†	29.1	0.00027	mg/L	0.000406	0.00027	mg/L	0.000406	152.30%
Zn 206.200†	-1.5	-0.00067	mg/L	0.000756	-0.00067	mg/L	0.000756	112.50%

Sequence No.: 3

Autosampler Location: 24

Sample ID: RG80 MB SWC

Date Collected: 8/11/2010 3:03:40 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2025063.1	113.9	%	0.98				0.86%
ScR 361.383	229892.2	112.1	%	1.25				1.11%
Ag 328.068†	-26.4	-0.00015	mg/L	0.000099	-0.00030	mg/L	0.000197	66.86%
Al 308.215†	9.8	0.00711	mg/L	0.007089	0.01421	mg/L	0.014177	99.75%
As 188.979†	-1.2	-0.00083	mg/L	0.002027	-0.00167	mg/L	0.004055	243.27%
B 249.677†	-8.0	-0.00396	mg/L	0.001101	-0.00793	mg/L	0.002201	27.77%
Ba 233.527†	6.1	0.00082	mg/L	0.000294	0.00164	mg/L	0.000587	35.75%
Be 313.042†	0.4	0.00000	mg/L	0.000051	0.00000	mg/L	0.000103	>999.9%
Ca 317.933†	82.1	0.00878	mg/L	0.000973	0.01755	mg/L	0.001946	11.09%
Cd 228.802†	-5.3	-0.00010	mg/L	0.000050	-0.00021	mg/L	0.000100	47.96%
Co 228.616†	9.1	0.00019	mg/L	0.000077	0.00038	mg/L	0.000154	40.59%
Cr 267.716†	1.5	0.00040	mg/L	0.001879	0.00080	mg/L	0.003758	469.36%
Cu 324.752†	-410.8	-0.00208	mg/L	0.000019	-0.00416	mg/L	0.000038	0.92%
Fe 273.955†	0.2	0.00020	mg/L	0.000890	0.00040	mg/L	0.001779	449.72%
K 766.490†	-57.7	-0.02144	mg/L	0.010436	-0.04287	mg/L	0.020873	48.69%
Mg 279.077†	5.8	0.00523	mg/L	0.001226	0.01046	mg/L	0.002451	23.44%
Mn 257.610†	1.3	0.00003	mg/L	0.000024	0.00007	mg/L	0.000048	68.87%
Mo 202.031†	3.5	0.00031	mg/L	0.000127	0.00062	mg/L	0.000255	41.10%
Na 589.592†	86.2	0.01495	mg/L	0.005020	0.02991	mg/L	0.010039	33.57%
Na 330.237†	8.3	0.3513	mg/L	0.38609	0.7026	mg/L	0.77218	109.91%
Ni 231.604†	-2.2	-0.00131	mg/L	0.001069	-0.00262	mg/L	0.002139	81.68%
Pb 220.353†	-4.0	-0.00055	mg/L	0.000456	-0.00109	mg/L	0.000911	83.53%
Sb 206.836†	-3.3	-0.00161	mg/L	0.001009	-0.00322	mg/L	0.002018	62.58%
Se 196.026†	4.2	0.00429	mg/L	0.003008	0.00858	mg/L	0.006015	70.14%
Si 288.158†	3.2	0.00251	mg/L	0.006864	0.00502	mg/L	0.013729	273.48%
Sn 189.927†	7.2	0.00185	mg/L	0.000338	0.00369	mg/L	0.000677	18.32%
Sr 421.552†	-44.9	-0.00010	mg/L	0.000102	-0.00019	mg/L	0.000205	106.19%
Ti 334.903†	5.4	0.00027	mg/L	0.000407	0.00053	mg/L	0.000814	153.13%
Tl 190.801†	3.7	0.00192	mg/L	0.001758	0.00385	mg/L	0.003516	91.37%
V 292.402†	-4.7	-0.00004	mg/L	0.000091	-0.00007	mg/L	0.000182	243.16%
Zn 206.200†	-1.2	-0.00053	mg/L	0.000820	-0.00105	mg/L	0.001641	156.18%

Sequence No.: 4

Sample ID: RG80 D SWC

Autosampler Location: 25

Date Collected: 8/11/2010 3:09:40 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2039248.6		114.7 %	0.36				0.31%
ScR 361.383	231631.5		113.0 %	0.87				0.77%
Ag 328.068†	-582.3	0.00168	mg/L	0.000108	0.00337	mg/L	0.000215	6.40%
Al 308.215†	31323.4	22.77	mg/L	0.010	45.54	mg/L	0.019	0.04%
As 188.979†	15.5	0.01289	mg/L	0.002308	0.02578	mg/L	0.004616	17.91%
B 249.677†	75.5	0.03722	mg/L	0.000140	0.07445	mg/L	0.000281	0.38%
Ba 233.527†	2074.4	0.2722	mg/L	0.00184	0.5444	mg/L	0.00368	0.68%
Be 313.042†	174.3	0.00021	mg/L	0.000019	0.00042	mg/L	0.000039	9.24%
Ca 317.933†	202940.3	21.68	mg/L	0.021	43.36	mg/L	0.043	0.10%
Cd 228.802†	948.9	0.01882	mg/L	0.000173	0.03763	mg/L	0.000346	0.92%
Co 228.616†	1096.0	0.02036	mg/L	0.000151	0.04072	mg/L	0.000301	0.74%
Cr 267.716†	928.9	0.2497	mg/L	0.00172	0.4994	mg/L	0.00344	0.69%
Cu 324.752†	207196.7	1.061	mg/L	0.0072	2.123	mg/L	0.0145	0.68%
Fe 273.955†	154323.9	134.8	mg/L	0.55	269.7	mg/L	1.10	0.41%
K 766.490†	3153.6	1.172	mg/L	0.0229	2.344	mg/L	0.0459	1.96%
Mg 279.077†	8564.3	7.689	mg/L	0.0695	15.38	mg/L	0.139	0.90%
Mn 257.610†	35956.2	0.9774	mg/L	0.00069	1.955	mg/L	0.0014	0.07%
Mo 202.031†	261.9	0.02236	mg/L	0.000403	0.04471	mg/L	0.000805	1.80%
Na 589.592†	7987.0	1.385	mg/L	0.0030	2.771	mg/L	0.0060	0.22%
Na 330.237†	88.4	0.9075	mg/L	0.27594	1.815	mg/L	0.5519	30.41%
Ni 231.604†	220.8	0.1284	mg/L	0.00163	0.2569	mg/L	0.00326	1.27%
Pb 220.353†	4167.4	0.5680	mg/L	0.00077	1.136	mg/L	0.0015	0.14%
Sb 206.836†	68.0	0.00498	mg/L	0.002109	0.00996	mg/L	0.004219	42.35%
Se 196.026†	-36.3	-0.01102	mg/L	0.003388	-0.02204	mg/L	0.006777	30.74%
Si 288.158†	4786.8	3.790	mg/L	0.0313	7.581	mg/L	0.0627	0.83%
Sn 189.927†	91.4	0.02534	mg/L	0.001271	0.05067	mg/L	0.002542	5.02%
Sr 421.552†	51796.0	0.1112	mg/L	0.00042	0.2224	mg/L	0.00084	0.38%
Ti 334.903†	28063.4	1.382	mg/L	0.0020	2.765	mg/L	0.0040	0.15%
Tl 190.801†	-20.3	-0.01510	mg/L	0.001692	-0.03019	mg/L	0.003383	11.21%
V 292.402†	17313.0	0.1390	mg/L	0.00136	0.2779	mg/L	0.00271	0.98%
Zn 206.200†	20723.2	9.401	mg/L	0.0238	18.80	mg/L	0.048	0.25%

Sequence No.: 5
Sample ID: RG80 G SWC

Autosampler Location: 26
Date Collected: 8/11/2010 3:15:40 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RG80 G SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 G SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2023705.7	113.8	%	0.35				0.31%
ScR 361.383	233607.6	114.0	%	0.64				0.56%
Ag 328.068†	-291.8	0.00266	mg/L	0.000094	0.01330	mg/L	0.000471	3.55%
Al 308.215†	68226.5	49.59	mg/L	0.036	248.0	mg/L	0.18	0.07%
As 188.979†	28.3	0.02491	mg/L	0.000651	0.1245	mg/L	0.00326	2.61%
B 249.677†	81.1	0.03983	mg/L	0.002111	0.1991	mg/L	0.01056	5.30%
Ba 233.527†	6023.7	0.8029	mg/L	0.00458	4.015	mg/L	0.0229	0.57%
Be 313.042†	363.4	0.00046	mg/L	0.000007	0.00230	mg/L	0.000034	1.49%
Ca 317.933†	366819.6	39.19	mg/L	0.077	195.9	mg/L	0.38	0.20%
Cd 228.802†	1231.1	0.02447	mg/L	0.000205	0.1223	mg/L	0.00102	0.84%
Co 228.616†	2539.9	0.04694	mg/L	0.000026	0.2347	mg/L	0.00013	0.06%
Cr 267.716†	2522.6	0.6739	mg/L	0.00369	3.369	mg/L	0.0185	0.55%
Cu 324.752†	177418.0	0.9093	mg/L	0.00781	4.547	mg/L	0.0390	0.86%
Fe 273.955†	145739.9	127.3	mg/L	0.07	636.7	mg/L	0.36	0.06%
K 766.490†	8051.4	2.992	mg/L	0.0097	14.96	mg/L	0.048	0.32%
Mg 279.077†	21729.5	19.64	mg/L	0.121	98.18	mg/L	0.604	0.62%
Mn 257.610†	87997.9	2.392	mg/L	0.0007	11.96	mg/L	0.004	0.03%
Mo 202.031†	629.0	0.05473	mg/L	0.000619	0.2736	mg/L	0.00309	1.13%
Na 589.592†	14178.5	2.459	mg/L	0.0062	12.30	mg/L	0.031	0.25%
Na 330.237†	91.5	2.389	mg/L	0.0778	11.94	mg/L	0.389	3.26%
Ni 231.604†	670.3	0.3899	mg/L	0.00643	1.949	mg/L	0.0322	1.65%
Pb 220.353†	5099.5	0.7047	mg/L	0.00288	3.524	mg/L	0.0144	0.41%
Sb 206.836†	70.6	-0.00266	mg/L	0.000787	-0.01331	mg/L	0.003937	29.57%
Se 196.026†	-33.4	-0.00560	mg/L	0.014531	-0.02799	mg/L	0.072657	259.58%
Si 288.158†	3286.3	2.605	mg/L	0.0101	13.02	mg/L	0.050	0.39%
Sn 189.927†	112.0	0.03263	mg/L	0.000668	0.1632	mg/L	0.00334	2.05%
Sr 421.552†	86857.8	0.1865	mg/L	0.00010	0.9325	mg/L	0.00048	0.05%
Ti 334.903†	67269.4	3.314	mg/L	0.0004	16.57	mg/L	0.002	0.01%
Tl 190.801†	-7.6	-0.01469	mg/L	0.003228	-0.07347	mg/L	0.016142	21.97%
V 292.402†	34934.2	0.2982	mg/L	0.00283	1.491	mg/L	0.0142	0.95%
Zn 206.200†	13367.0	6.065	mg/L	0.0364	30.32	mg/L	0.182	0.60%

Sequence No.: 6
Sample ID: RG80 H SWC

Autosampler Location: 27
Date Collected: 8/11/2010 3:21:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 H SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG80 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2007921.9	112.9	%	1.35				1.20%
ScR 361.383	236240.4	115.2	%	1.46				1.27%
Ag 328.068†	1233.8	0.01451	mg/L	0.000427	0.02902	mg/L	0.000855	2.94%
Al 308.215†	208889.1	151.9	mg/L	0.59	303.7	mg/L	1.19	0.39%
As 188.979†	344.3	0.2399	mg/L	0.00236	0.4798	mg/L	0.00473	0.99%
B 249.677†	94.6	0.04616	mg/L	0.002093	0.09231	mg/L	0.004187	4.54%
Ba 233.527†	7835.3	1.042	mg/L	0.0151	2.084	mg/L	0.0301	1.45%
Be 313.042†	770.7	0.00141	mg/L	0.000119	0.00282	mg/L	0.000238	8.42%
Ca 317.933†	350737.9	37.47	mg/L	0.093	74.94	mg/L	0.187	0.25%
Cd 228.802†	4126.7	0.08160	mg/L	0.001057	0.1632	mg/L	0.00211	1.30%
Co 228.616†	4696.1	0.08796	mg/L	0.001176	0.1759	mg/L	0.00235	1.34%
Cr 267.716†	5903.9	1.577	mg/L	0.0250	3.154	mg/L	0.0500	1.58%
Cu 324.752†	994115.7	5.054	mg/L	0.0085	10.11	mg/L	0.017	0.17%
Fe 273.955†	243692.2	212.9	mg/L	1.04	425.9	mg/L	2.09	0.49%
K 766.490†	8737.5	3.247	mg/L	0.0386	6.494	mg/L	0.0772	1.19%
Mg 279.077†	38451.1	34.75	mg/L	0.066	69.51	mg/L	0.132	0.19%
Mn 257.610†	99107.8	2.696	mg/L	0.0057	5.392	mg/L	0.0115	0.21%
Mo 202.031†	947.2	0.08231	mg/L	0.000928	0.1646	mg/L	0.00186	1.13%
Na 589.592†	20711.0	3.593	mg/L	0.0125	7.185	mg/L	0.0250	0.35%
Na 330.237†	130.2	3.251	mg/L	0.1114	6.501	mg/L	0.2229	3.43%
Ni 231.604†	1567.6	0.9119	mg/L	0.01101	1.824	mg/L	0.0220	1.21%
Pb 220.353†	79911.3	10.97	mg/L	0.015	21.95	mg/L	0.030	0.14%
Sb 206.836†	319.0	0.07003	mg/L	0.003353	0.1401	mg/L	0.00671	4.79%
Se 196.026†	-84.3	-0.02379	mg/L	0.009168	-0.04758	mg/L	0.018336	38.54%
Si 288.158†	7781.7	6.166	mg/L	0.0872	12.33	mg/L	0.174	1.41%
Sn 189.927†	558.6	0.1483	mg/L	0.00058	0.2965	mg/L	0.00117	0.39%
Sr 421.552†	101557.9	0.2181	mg/L	0.00093	0.4361	mg/L	0.00186	0.43%
Ti 334.903†	112089.4	5.523	mg/L	0.0130	11.05	mg/L	0.026	0.24%
Tl 190.801†	-15.0	-0.02411	mg/L	0.001081	-0.04821	mg/L	0.002162	4.48%
V 292.402†	55930.5	0.4791	mg/L	0.00112	0.9583	mg/L	0.00225	0.23%
Zn 206.200†	22074.4	10.02	mg/L	0.156	20.03	mg/L	0.312	1.56%

Sequence No.: 7
 Sample ID: RG80 O SWC

Autosampler Location: 28
 Date Collected: 8/11/2010 3:27:29 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 O SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 O SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2050989.5	115.3	%	0.26				0.23%
ScR 361.383	242045.3	118.1	%	0.19				0.16%
Ag 328.068†	-828.7	0.00188	mg/L	0.000059	0.00376	mg/L	0.000118	3.15%
Al 308.215†	119336.2	86.75	mg/L	0.309	173.5	mg/L	0.62	0.36%
As 188.979†	41.1	0.03824	mg/L	0.001857	0.07647	mg/L	0.003713	4.86%
B 249.677†	201.6	0.09928	mg/L	0.001565	0.1986	mg/L	0.00313	1.58%
Ba 233.527†	9337.1	1.245	mg/L	0.0054	2.490	mg/L	0.0108	0.43%
Be 313.042†	572.5	0.00084	mg/L	0.000029	0.00168	mg/L	0.000058	3.46%
Ca 317.933†	652655.8	69.73	mg/L	0.133	139.5	mg/L	0.27	0.19%
Cd 228.802†	2538.5	0.05040	mg/L	0.000157	0.1008	mg/L	0.00031	0.31%
Co 228.616†	4047.1	0.07383	mg/L	0.000217	0.1477	mg/L	0.00043	0.29%
Cr 267.716†	3646.2	0.9737	mg/L	0.00373	1.947	mg/L	0.0075	0.38%
Cu 324.752†	218325.7	1.122	mg/L	0.0045	2.243	mg/L	0.0091	0.40%
Fe 273.955†	219552.7	191.8	mg/L	1.16	383.7	mg/L	2.31	0.60%
K 766.490†	12117.4	4.503	mg/L	0.0125	9.006	mg/L	0.0250	0.28%
Mg 279.077†	45370.8	41.04	mg/L	0.111	82.08	mg/L	0.223	0.27%
Mn 257.610†	104145.4	2.831	mg/L	0.0098	5.661	mg/L	0.0196	0.35%
Mo 202.031†	764.1	0.06652	mg/L	0.000842	0.1330	mg/L	0.00168	1.27%
Na 589.592†	25858.6	4.485	mg/L	0.0219	8.971	mg/L	0.0438	0.49%
Na 330.237†	137.4	4.546	mg/L	0.2829	9.092	mg/L	0.5658	6.22%
Ni 231.604†	959.1	0.5579	mg/L	0.00349	1.116	mg/L	0.0070	0.63%
Pb 220.353†	6616.4	0.9192	mg/L	0.00478	1.838	mg/L	0.0096	0.52%
Sb 206.836†	119.2	0.00102	mg/L	0.003621	0.00205	mg/L	0.007243	353.41%
Se 196.026†	-65.8	-0.02113	mg/L	0.003613	-0.04226	mg/L	0.007226	17.10%
Si 288.158†	7718.1	6.116	mg/L	0.0196	12.23	mg/L	0.039	0.32%
Sn 189.927†	114.3	0.03644	mg/L	0.001201	0.07288	mg/L	0.002402	3.30%
Sr 421.552†	150751.6	0.3237	mg/L	0.00150	0.6474	mg/L	0.00299	0.46%
Ti 334.903†	118653.5	5.846	mg/L	0.0145	11.69	mg/L	0.029	0.25%
Tl 190.801†	-13.2	-0.02337	mg/L	0.002500	-0.04674	mg/L	0.005001	10.70%
V 292.402†	49583.9	0.4209	mg/L	0.00209	0.8419	mg/L	0.00419	0.50%
Zn 206.200†	14164.8	6.428	mg/L	0.0294	12.86	mg/L	0.059	0.46%

Sequence No.: 8
Sample ID: RG80 P SWC

Autosampler Location: 29
Date Collected: 8/11/2010 3:33:31 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 P SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG80 P SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2066344.2	116.2	%	0.38				0.33%
ScR 361.383	238427.5	116.3	%	0.30				0.26%
Ag 328.068†	-708.8	0.00286	mg/L	0.000214	0.00571	mg/L	0.000428	7.50%
Al 308.215†	116290.2	84.53	mg/L	0.202	169.1	mg/L	0.40	0.24%
As 188.979†	91.4	0.07078	mg/L	0.002881	0.1416	mg/L	0.00576	4.07%
B 249.677†	71.1	0.03462	mg/L	0.004766	0.06925	mg/L	0.009532	13.77%
Ba 233.527†	5583.6	0.7407	mg/L	0.00163	1.481	mg/L	0.0033	0.22%
Be 313.042†	610.7	0.00104	mg/L	0.000020	0.00209	mg/L	0.000040	1.90%
Ca 317.933†	380708.7	40.67	mg/L	0.008	81.34	mg/L	0.015	0.02%
Cd 228.802†	1571.9	0.03126	mg/L	0.000200	0.06252	mg/L	0.000399	0.64%
Co 228.616†	4103.0	0.07602	mg/L	0.000412	0.1520	mg/L	0.00082	0.54%
Cr 267.716†	4249.0	1.135	mg/L	0.0007	2.270	mg/L	0.0014	0.06%
Cu 324.752†	205838.9	1.059	mg/L	0.0044	2.117	mg/L	0.0087	0.41%
Fe 273.955†	219318.4	191.6	mg/L	1.80	383.3	mg/L	3.61	0.94%
K 766.490†	10347.8	3.846	mg/L	0.0179	7.691	mg/L	0.0358	0.47%
Mg 279.077†	41600.8	37.62	mg/L	0.078	75.24	mg/L	0.156	0.21%
Mn 257.610†	86387.2	2.348	mg/L	0.0041	4.697	mg/L	0.0082	0.17%
Mo 202.031†	469.9	0.04075	mg/L	0.000116	0.08150	mg/L	0.000232	0.28%
Na 589.592†	17343.3	3.008	mg/L	0.0154	6.017	mg/L	0.0307	0.51%
Na 330.237†	94.9	3.044	mg/L	0.2689	6.088	mg/L	0.5379	8.84%
Ni 231.604†	1379.7	0.8025	mg/L	0.00157	1.605	mg/L	0.0031	0.20%
Pb 220.353†	16579.5	2.284	mg/L	0.0048	4.567	mg/L	0.0095	0.21%
Sb 206.836†	131.7	0.00444	mg/L	0.002608	0.00888	mg/L	0.005216	58.76%
Se 196.026†	-59.0	-0.01451	mg/L	0.006671	-0.02903	mg/L	0.013343	45.96%
Si 288.158†	9492.0	7.520	mg/L	0.0042	15.04	mg/L	0.008	0.06%
Sn 189.927†	210.9	0.05935	mg/L	0.001202	0.1187	mg/L	0.00240	2.03%
Sr 421.552†	115592.8	0.2482	mg/L	0.00098	0.4964	mg/L	0.00195	0.39%
Ti 334.903†	107954.6	5.319	mg/L	0.0066	10.64	mg/L	0.013	0.12%
Tl 190.801†	-15.1	-0.02280	mg/L	0.001509	-0.04560	mg/L	0.003017	6.62%
V 292.402†	46963.7	0.3989	mg/L	0.00085	0.7977	mg/L	0.00169	0.21%
Zn 206.200†	12674.0	5.751	mg/L	0.0114	11.50	mg/L	0.023	0.20%

Sequence No.: 9

Sample ID: RG80 CDUP SWC

Autosampler Location: 30

Date Collected: 8/11/2010 3:39:32 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CDUP SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG80 CDUP SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2057522.2		115.7 %	1.12				0.97%
ScR 361.383	234913.5		114.6 %	0.23				0.20%
Ag 328.068†	325.3	0.00624	mg/L	0.000345	0.01248	mg/L	0.000691	5.53%
Al 308.215†	89865.5	65.32	mg/L	0.043	130.6	mg/L	0.09	0.07%
As 188.979†	31.8	0.03020	mg/L	0.003419	0.06039	mg/L	0.006838	11.32%
B 249.677†	120.1	0.05916	mg/L	0.000569	0.1183	mg/L	0.00114	0.96%
Ba 233.527†	4416.6	0.5870	mg/L	0.00121	1.174	mg/L	0.0024	0.21%
Be 313.042†	459.8	0.00073	mg/L	0.000036	0.00147	mg/L	0.000072	4.93%
Ca 317.933†	345794.6	36.94	mg/L	0.043	73.88	mg/L	0.086	0.12%
Cd 228.802†	1206.0	0.02393	mg/L	0.000292	0.04787	mg/L	0.000584	1.22%
Co 228.616†	2801.6	0.05009	mg/L	0.000370	0.1002	mg/L	0.00074	0.74%
Cr 267.716†	1821.9	0.4870	mg/L	0.00254	0.9741	mg/L	0.00508	0.52%
Cu 324.752†	147131.0	0.7556	mg/L	0.00269	1.511	mg/L	0.0054	0.36%
Fe 273.955†	146711.9	128.2	mg/L	0.17	256.4	mg/L	0.35	0.13%
K 766.490†	9954.8	3.700	mg/L	0.0333	7.399	mg/L	0.0667	0.90%
Mg 279.077†	24968.4	22.57	mg/L	0.037	45.14	mg/L	0.074	0.16%
Mn 257.610†	71899.5	1.954	mg/L	0.0004	3.909	mg/L	0.0008	0.02%
Mo 202.031†	351.5	0.03028	mg/L	0.000130	0.06056	mg/L	0.000260	0.43%
Na 589.592†	18873.9	3.274	mg/L	0.0079	6.548	mg/L	0.0157	0.24%
Na 330.237†	115.9	3.100	mg/L	0.1986	6.201	mg/L	0.3971	6.40%
Ni 231.604†	487.2	0.2834	mg/L	0.00116	0.5668	mg/L	0.00231	0.41%
Pb 220.353†	6752.3	0.9352	mg/L	0.01031	1.870	mg/L	0.0206	1.10%
Sb 206.836†	76.4	0.00148	mg/L	0.001058	0.00296	mg/L	0.002115	71.40%
Se 196.026†	-38.6	-0.00709	mg/L	0.003412	-0.01419	mg/L	0.006823	48.08%
Si 288.158†	6218.6	4.926	mg/L	0.0082	9.852	mg/L	0.0163	0.17%
Sn 189.927†	113.4	0.03349	mg/L	0.001276	0.06698	mg/L	0.002551	3.81%
Sr 421.552†	96265.7	0.2067	mg/L	0.00022	0.4134	mg/L	0.00044	0.11%
Ti 334.903†	94937.6	4.678	mg/L	0.0008	9.356	mg/L	0.0017	0.02%
Tl 190.801†	-2.1	-0.01366	mg/L	0.005409	-0.02731	mg/L	0.010818	39.61%
V 292.402†	37266.8	0.3163	mg/L	0.00120	0.6326	mg/L	0.00240	0.38%
Zn 206.200†	17705.9	8.033	mg/L	0.0234	16.07	mg/L	0.047	0.29%

Sequence No.: 10
Sample ID: RG80 C SWC

Autosampler Location: 31
Date Collected: 8/11/2010 3:45:33 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 C SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2023963.2	113.8	%	0.33				0.29%
ScR 361.383	229677.2	112.0	%	5.86				5.23%
Ag 328.068†	30.3	0.00503	mg/L	0.000220	0.01005	mg/L	0.000440	4.38%
Al 308.215†	96909.4	70.45	mg/L	4.174	140.9	mg/L	8.35	5.93%
As 188.979†	34.0	0.03069	mg/L	0.001881	0.06137	mg/L	0.003762	6.13%
B 249.677†	117.2	0.05771	mg/L	0.005300	0.1154	mg/L	0.01060	9.18%
Ba 233.527†	4545.8	0.6038	mg/L	0.03695	1.208	mg/L	0.0739	6.12%
Be 313.042†	481.5	0.00083	mg/L	0.000205	0.00166	mg/L	0.000410	24.66%
Ca 317.933†	408156.3	43.60	mg/L	2.556	87.21	mg/L	5.111	5.86%
Cd 228.802†	1125.8	0.02234	mg/L	0.000114	0.04468	mg/L	0.000227	0.51%
Co 228.616†	2623.6	0.04720	mg/L	0.000567	0.09439	mg/L	0.001135	1.20%
Cr 267.716†	1740.1	0.4653	mg/L	0.02662	0.9306	mg/L	0.05325	5.72%
Cu 324.752†	128829.1	0.6641	mg/L	0.00276	1.328	mg/L	0.0055	0.42%
Fe 273.955†	161257.9	140.9	mg/L	8.70	281.8	mg/L	17.40	6.17%
K 766.490†	12332.4	4.583	mg/L	0.3093	9.166	mg/L	0.6186	6.75%
Mg 279.077†	27588.1	24.94	mg/L	1.479	49.88	mg/L	2.957	5.93%
Mn 257.610†	73430.9	1.996	mg/L	0.1183	3.992	mg/L	0.2366	5.93%
Mo 202.031†	309.0	0.02659	mg/L	0.000162	0.05318	mg/L	0.000325	0.61%
Na 589.592†	20661.0	3.584	mg/L	0.2297	7.168	mg/L	0.4593	6.41%
Na 330.237†	116.0	3.168	mg/L	0.2672	6.336	mg/L	0.5344	8.43%
Ni 231.604†	462.0	0.2687	mg/L	0.01293	0.5375	mg/L	0.02585	4.81%
Pb 220.353†	5785.0	0.8034	mg/L	0.00189	1.607	mg/L	0.0038	0.24%
Sb 206.836†	80.8	0.00002	mg/L	0.002245	0.00005	mg/L	0.004490	>999.9%
Se 196.026†	-44.6	-0.01013	mg/L	0.004297	-0.02027	mg/L	0.008594	42.41%
Si 288.158†	6533.8	5.176	mg/L	0.3040	10.35	mg/L	0.608	5.87%
Sn 189.927†	86.0	0.02671	mg/L	0.000655	0.05343	mg/L	0.001309	2.45%
Sr 421.552†	107998.2	0.2319	mg/L	0.01380	0.4638	mg/L	0.02760	5.95%
Ti 334.903†	85354.3	4.205	mg/L	0.2478	8.411	mg/L	0.4956	5.89%
Tl 190.801†	-11.0	-0.01748	mg/L	0.000791	-0.03496	mg/L	0.001583	4.53%
V 292.402†	36700.4	0.3100	mg/L	0.00343	0.6200	mg/L	0.00686	1.11%
Zn 206.200†	16240.2	7.368	mg/L	0.4233	14.74	mg/L	0.847	5.75%

Sequence No.: 11
Sample ID: RG80 CSPK SWC

Autosampler Location: 32
Date Collected: 8/11/2010 3:51:36 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CSPK SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG80 CSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2048507.2	115.2	%	0.61				0.53%
ScR 361.383	239290.8	116.7	%	0.46				0.39%
Ag 328.068†	82671.3	0.4665	mg/L	0.00190	0.9330	mg/L	0.00379	0.41%
Al 308.215†	83658.0	60.80	mg/L	0.125	121.6	mg/L	0.25	0.21%
As 188.979†	2763.5	1.856	mg/L	0.0130	3.713	mg/L	0.0260	0.70%
B 249.677†	131.3	0.06328	mg/L	0.002480	0.1266	mg/L	0.00496	3.92%
Ba 233.527†	17611.7	2.359	mg/L	0.0108	4.717	mg/L	0.0216	0.46%
Be 313.042†	128719.5	0.4615	mg/L	0.00103	0.9230	mg/L	0.00207	0.22%
Ca 317.933†	408236.6	43.61	mg/L	0.098	87.23	mg/L	0.197	0.23%
Cd 228.802†	25050.9	0.4932	mg/L	0.00106	0.9864	mg/L	0.00212	0.22%
Co 228.616†	23871.1	0.4900	mg/L	0.00244	0.9799	mg/L	0.00488	0.50%
Cr 267.716†	3421.0	0.9134	mg/L	0.00459	1.827	mg/L	0.0092	0.50%
Cu 324.752†	250759.3	1.282	mg/L	0.0027	2.564	mg/L	0.0053	0.21%
Fe 273.955†	159834.4	139.7	mg/L	0.68	279.3	mg/L	1.35	0.49%
K 766.490†	31329.4	11.64	mg/L	0.054	23.29	mg/L	0.108	0.46%
Mg 279.077†	33046.8	29.89	mg/L	0.138	59.79	mg/L	0.276	0.46%
Mn 257.610†	87468.5	2.378	mg/L	0.0024	4.756	mg/L	0.0048	0.10%
Mo 202.031†	380.4	0.03278	mg/L	0.000741	0.06556	mg/L	0.001481	2.26%
Na 589.592†	71156.5	12.34	mg/L	0.007	24.69	mg/L	0.015	0.06%
Na 330.237†	329.1	11.95	mg/L	0.147	23.90	mg/L	0.294	1.23%
Ni 231.604†	1270.1	0.7380	mg/L	0.00486	1.476	mg/L	0.0097	0.66%
Pb 220.353†	19535.2	2.684	mg/L	0.0185	5.369	mg/L	0.0371	0.69%
Sb 206.836†	91.0	0.00132	mg/L	0.002883	0.00263	mg/L	0.005765	219.09%
Se 196.026†	1729.4	1.810	mg/L	0.0130	3.619	mg/L	0.0259	0.72%
Si 288.158†	6226.5	4.934	mg/L	0.0412	9.867	mg/L	0.0823	0.83%
Sn 189.927†	96.9	0.02954	mg/L	0.001150	0.05908	mg/L	0.002299	3.89%
Sr 421.552†	306594.2	0.6583	mg/L	0.00133	1.317	mg/L	0.0027	0.20%
Ti 334.903†	79721.3	3.928	mg/L	0.0014	7.855	mg/L	0.0028	0.04%
Tl 190.801†	3406.7	1.749	mg/L	0.0113	3.498	mg/L	0.0226	0.65%
V 292.402†	86815.5	0.7594	mg/L	0.00134	1.519	mg/L	0.0027	0.18%
Zn 206.200†	17490.8	7.936	mg/L	0.0431	15.87	mg/L	0.086	0.54%

Sequence No.: 12

Autosampler Location: 33

Sample ID: RH55 MBSPK SWC

Date Collected: 8/11/2010 3:57:28 PM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: RH55 MBSPK SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RH55 MBSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2093882.8	117.7	%	0.18				0.15%
ScR 361.383	242232.1	118.2	%	0.86				0.72%
Ag 328.068†	84497.4	0.4719	mg/L	0.00281	0.9438	mg/L	0.00562	0.60%
Al 308.215†	2625.1	1.902	mg/L	0.0306	3.803	mg/L	0.0612	1.61%
As 188.979†	2851.9	1.908	mg/L	0.0069	3.816	mg/L	0.0138	0.36%
B 249.677†	-12.0	-0.00744	mg/L	0.001797	-0.01488	mg/L	0.003593	24.15%
Ba 233.527†	13967.2	1.876	mg/L	0.0251	3.752	mg/L	0.0503	1.34%
Be 313.042†	133365.4	0.4790	mg/L	0.00086	0.9581	mg/L	0.00173	0.18%
Ca 317.933†	86617.8	9.254	mg/L	0.0255	18.51	mg/L	0.051	0.28%
Cd 228.802†	24504.1	0.4822	mg/L	0.00190	0.9643	mg/L	0.00379	0.39%
Co 228.616†	22319.2	0.4646	mg/L	0.00257	0.9291	mg/L	0.00513	0.55%
Cr 267.716†	1780.8	0.4746	mg/L	0.00595	0.9492	mg/L	0.01190	1.25%
Cu 324.752†	94512.0	0.4791	mg/L	0.00191	0.9583	mg/L	0.00383	0.40%
Fe 273.955†	2423.8	2.118	mg/L	0.0345	4.235	mg/L	0.0690	1.63%
K 766.490†	24257.9	9.015	mg/L	0.0238	18.03	mg/L	0.048	0.26%
Mg 279.077†	10104.7	9.165	mg/L	0.1221	18.33	mg/L	0.244	1.33%
Mn 257.610†	17808.5	0.4846	mg/L	0.00119	0.9692	mg/L	0.00237	0.24%
Mo 202.031†	10.4	0.00084	mg/L	0.000330	0.00168	mg/L	0.000660	39.27%
Na 589.592†	55283.4	9.589	mg/L	0.0076	19.18	mg/L	0.015	0.08%
Na 330.237†	232.5	9.631	mg/L	0.2560	19.26	mg/L	0.512	2.66%
Ni 231.604†	799.8	0.4644	mg/L	0.00599	0.9287	mg/L	0.01198	1.29%
Pb 220.353†	13859.2	1.899	mg/L	0.0103	3.798	mg/L	0.0206	0.54%
Sb 206.836†	4.4	-0.00480	mg/L	0.001384	-0.00961	mg/L	0.002769	28.82%
Se 196.026†	1873.2	1.924	mg/L	0.0107	3.849	mg/L	0.0214	0.56%
Si 288.158†	10.0	0.00963	mg/L	0.001150	0.01926	mg/L	0.002301	11.95%
Sn 189.927†	-14.9	-0.00306	mg/L	0.002884	-0.00612	mg/L	0.005768	94.32%
Sr 421.552†	222375.7	0.4775	mg/L	0.00144	0.9550	mg/L	0.00288	0.30%
Ti 334.903†	152.6	0.00705	mg/L	0.000320	0.01410	mg/L	0.000640	4.54%
Tl 190.801†	3642.0	1.882	mg/L	0.0084	3.763	mg/L	0.0169	0.45%
V 292.402†	53515.8	0.4792	mg/L	0.00280	0.9584	mg/L	0.00559	0.58%
Zn 206.200†	1059.6	0.4809	mg/L	0.00521	0.9618	mg/L	0.01041	1.08%

Sequence No.: 13

Sample ID: CV 4

Autosampler Location: 7

Date Collected: 8/11/2010 4:03:31 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2047902.8	115.2 %	0.72			0.63%
ScR 361.383	239715.3	116.9 %	0.41			0.35%
Ag 328.068†	166294.1	0.9286 mg/L	0.00918	0.9286 mg/L	0.00918	0.99%
Al 308.215†	2497.1	1.781 mg/L	0.0115	1.781 mg/L	0.0115	0.65%
As 188.979†	2827.6	1.892 mg/L	0.0049	1.892 mg/L	0.0049	0.26%
B 249.677†	1824.3	0.9008 mg/L	0.00778	0.9008 mg/L	0.00778	0.86%
Ba 233.527†	6948.7	0.9329 mg/L	0.00330	0.9329 mg/L	0.00330	0.35%
Be 313.042†	257820.1	0.9260 mg/L	0.00024	0.9260 mg/L	0.00024	0.03%
Ca 317.933†	17153.1	1.833 mg/L	0.0062	1.833 mg/L	0.0062	0.34%
Cd 228.802†	49642.6	0.9804 mg/L	0.00903	0.9804 mg/L	0.00903	0.92%
Co 228.616†	44946.0	0.9350 mg/L	0.00849	0.9350 mg/L	0.00849	0.91%
Cr 267.716†	3517.9	0.9381 mg/L	0.00421	0.9381 mg/L	0.00421	0.45%
Cu 324.752†	198338.9	1.005 mg/L	0.0103	1.005 mg/L	0.0103	1.02%
Fe 273.955†	2063.1	1.802 mg/L	0.0040	1.802 mg/L	0.0040	0.22%
K 766.490†	47441.1	17.63 mg/L	0.046	17.63 mg/L	0.046	0.26%
Mg 279.077†	1975.6	1.795 mg/L	0.0051	1.795 mg/L	0.0051	0.29%
Mn 257.610†	34959.5	0.9508 mg/L	0.00189	0.9508 mg/L	0.00189	0.20%
Mo 202.031†	9735.7	0.8538 mg/L	0.00340	0.8538 mg/L	0.00340	0.40%
Na 589.592†	268915.4	46.65 mg/L	0.164	46.65 mg/L	0.164	0.35%
Na 330.237†	1044.0	44.06 mg/L	0.149	44.06 mg/L	0.149	0.34%
Ni 231.604†	1597.6	0.9298 mg/L	0.00189	0.9298 mg/L	0.00189	0.20%
Pb 220.353†	13861.3	1.900 mg/L	0.0184	1.900 mg/L	0.0184	0.97%
Sb 206.836†	3829.6	1.852 mg/L	0.0099	1.852 mg/L	0.0099	0.54%
Se 196.026†	1831.9	1.881 mg/L	0.0098	1.881 mg/L	0.0098	0.52%
Si 288.158†	2430.7	1.927 mg/L	0.0067	1.927 mg/L	0.0067	0.35%
Sn 189.927†	3106.6	0.7967 mg/L	0.00557	0.7967 mg/L	0.00557	0.70%
Sr 421.552†	439771.8	0.9443 mg/L	0.00193	0.9443 mg/L	0.00193	0.20%
Ti 334.903†	17687.5	0.8707 mg/L	0.00123	0.8707 mg/L	0.00123	0.14%
Tl 190.801†	3595.7	1.851 mg/L	0.0047	1.851 mg/L	0.0047	0.25%
V 292.402†	104654.4	0.9421 mg/L	0.00992	0.9421 mg/L	0.00992	1.05%
Zn 206.200†	2062.9	0.9351 mg/L	0.00422	0.9351 mg/L	0.00422	0.45%

Sequence No.: 14
 Sample ID: CB 4

Autosampler Location: 1
 Date Collected: 8/11/2010 4:09:32 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2078062.6	116.8 %	0.24			0.21%
ScR 361.383	234789.3	114.5 %	0.52			0.46%
Ag 328.068†	-3.4	-0.00002 mg/L	0.000081	-0.00002 mg/L	0.000081	422.30%
Al 308.215†	8.6	0.00624 mg/L	0.015576	0.00624 mg/L	0.015576	249.66%
As 188.979†	0.8	0.00053 mg/L	0.001092	0.00053 mg/L	0.001092	206.03%
B 249.677†	-8.6	-0.00427 mg/L	0.000864	-0.00427 mg/L	0.000864	20.24%
Ba 233.527†	0.9	0.00011 mg/L	0.000291	0.00011 mg/L	0.000291	254.69%
Be 313.042†	8.6	0.00003 mg/L	0.000045	0.00003 mg/L	0.000045	144.40%
Ca 317.933†	5.4	0.00057 mg/L	0.001824	0.00057 mg/L	0.001824	317.63%
Cd 228.802†	-5.8	-0.00012 mg/L	0.000038	-0.00012 mg/L	0.000038	32.55%
Co 228.616†	15.2	0.00032 mg/L	0.000129	0.00032 mg/L	0.000129	40.65%
Cr 267.716†	3.9	0.00104 mg/L	0.001224	0.00104 mg/L	0.001224	117.40%
Cu 324.752†	-75.3	-0.00038 mg/L	0.000343	-0.00038 mg/L	0.000343	90.05%
Fe 273.955†	3.2	0.00278 mg/L	0.000736	0.00278 mg/L	0.000736	26.44%
K 766.490†	-153.1	-0.05691 mg/L	0.012898	-0.05691 mg/L	0.012898	22.66%
Mg 279.077†	2.8	0.00255 mg/L	0.003433	0.00255 mg/L	0.003433	134.59%
Mn 257.610†	-1.0	-0.00003 mg/L	0.000128	-0.00003 mg/L	0.000128	449.50%
Mo 202.031†	3.5	0.00031 mg/L	0.000218	0.00031 mg/L	0.000218	70.27%
Na 589.592†	116.7	0.02025 mg/L	0.003381	0.02025 mg/L	0.003381	16.70%
Na 330.237†	8.1	0.3423 mg/L	0.56159	0.3423 mg/L	0.56159	164.07%
Ni 231.604†	1.6	0.00093 mg/L	0.002667	0.00093 mg/L	0.002667	288.14%
Pb 220.353†	1.3	0.00018 mg/L	0.000193	0.00018 mg/L	0.000193	106.20%
Sb 206.836†	-4.5	-0.00217 mg/L	0.001575	-0.00217 mg/L	0.001575	72.45%
Se 196.026†	4.9	0.00508 mg/L	0.001698	0.00508 mg/L	0.001698	33.43%
Si 288.158†	-2.6	-0.00204 mg/L	0.004310	-0.00204 mg/L	0.004310	210.80%
Sn 189.927†	5.4	0.00139 mg/L	0.000247	0.00139 mg/L	0.000247	17.74%
Sr 421.552†	-20.7	-0.00004 mg/L	0.000044	-0.00004 mg/L	0.000044	98.55%
Ti 334.903†	-1.0	-0.00005 mg/L	0.000934	-0.00005 mg/L	0.000934	>999.9%
Tl 190.801†	10.1	0.00521 mg/L	0.001883	0.00521 mg/L	0.001883	36.15%
V 292.402†	-2.1	-0.00001 mg/L	0.000311	-0.00001 mg/L	0.000311	>999.9%
Zn 206.200†	4.8	0.00219 mg/L	0.001038	0.00219 mg/L	0.001038	47.29%

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Analysis Begun

Start Time: 8/11/2010 4:14:41 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 4:14:43 PM

Data Type: Original
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Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

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Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2087693.3	16448.05	0.79%	100.0	%
ScR 361.383	236827.4	1152.88	0.49%	100.0	%
Ag 328.068†	-177.8	56.74	31.91%	[0.00]	mg/L
Al 308.215†	-207.7	29.41	14.16%	[0.00]	mg/L
As 188.979†	17.4	3.47	19.91%	[0.00]	mg/L
B 249.677†	-11.7	4.83	41.23%	[0.00]	mg/L
Ba 233.527†	27.0	4.74	17.57%	[0.00]	mg/L
Be 313.042†	570.1	27.02	4.74%	[0.00]	mg/L
Ca 317.933†	-108.0	18.77	17.38%	[0.00]	mg/L
Cd 228.802†	214.6	3.06	1.42%	[0.00]	mg/L
Co 228.616†	-171.5	7.01	4.09%	[0.00]	mg/L
Cr 267.716†	-41.8	4.21	10.07%	[0.00]	mg/L
Cu 324.752†	1910.6	71.11	3.72%	[0.00]	mg/L
Fe 273.955†	-22.3	0.77	3.44%	[0.00]	mg/L
K 766.490†	3712.6	22.75	0.61%	[0.00]	mg/L
Mg 279.077†	-65.4	4.11	6.29%	[0.00]	mg/L
Mn 257.610†	79.0	4.32	5.47%	[0.00]	mg/L
Mo 202.031†	25.1	2.49	9.90%	[0.00]	mg/L
Na 589.592†	1775.6	15.95	0.90%	[0.00]	mg/L
Na 330.237†	-252.2	1.04	0.41%	[0.00]	mg/L
Ni 231.604†	-66.9	3.10	4.63%	[0.00]	mg/L
Pb 220.353†	296.5	4.46	1.50%	[0.00]	mg/L
Sb 206.836†	164.8	2.78	1.69%	[0.00]	mg/L
Se 196.026†	-67.7	4.00	5.91%	[0.00]	mg/L
Si 288.158†	20.7	4.03	19.45%	[0.00]	mg/L
Sn 189.927†	0.6	1.73	290.61%	[0.00]	mg/L
Sr 421.552†	488.3	7.65	1.57%	[0.00]	mg/L
Ti 334.903†	207.8	10.86	5.22%	[0.00]	mg/L
Tl 190.801†	-14.3	7.70	53.72%	[0.00]	mg/L
V 292.402†	552.3	14.40	2.61%	[0.00]	mg/L
Zn 206.200†	-7.5	2.38	31.92%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/11/2010 4:20:41 PM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2097879.7	9713.78	0.46%	100.5 %
ScR 361.383	241519.7	503.09	0.21%	102.0 %
Ba 233.527†	80425.6	515.71	0.64%	[10] mg/L
Cd 228.802†	553999.4	1391.72	0.25%	[10] mg/L
Co 228.616†	526397.2	432.56	0.08%	[10] mg/L
Cr 267.716†	40394.5	332.54	0.82%	[10] mg/L
Cu 324.752†	2169805.1	2396.42	0.11%	[10] mg/L
Mn 257.610†	397423.0	2694.90	0.68%	[10] mg/L
V 292.402†	1230964.7	4263.30	0.35%	[10] mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/11/2010 4:24:29 PM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib
	Intensity	Std.Dev.	RSD	
ScA 357.253	2067702.9	6213.01	0.30%	99.04 %
ScR 361.383	236797.8	1352.16	0.57%	99.99 %
Ag 328.068†	196727.8	874.45	0.44%	[1.0] mg/L
As 188.979†	16075.1	142.58	0.89%	[10] mg/L
B 249.677†	21702.1	99.10	0.46%	[10] mg/L
Be 313.042†	1466925.6	8434.67	0.57%	[5.0] mg/L
Na 589.592†	310841.8	1527.85	0.49%	[50] mg/L
Ni 231.604†	18458.5	99.67	0.54%	[10] mg/L
Pb 220.353†	79642.9	112.64	0.14%	[10] mg/L
Se 196.026†	10466.1	84.78	0.81%	[10] mg/L
Sr 421.552†	2486670.9	14033.51	0.56%	[5] mg/L
Tl 190.801†	20798.1	167.20	0.80%	[10] mg/L
Zn 206.200†	23642.0	176.09	0.74%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/11/2010 4:29:35 PM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2118971.4	12588.66	0.59%	101.5	%
ScR 361.383	242365.7	2171.43	0.90%	102.3	%
Mo 202.031†	112721.0	1175.03	1.04%	[10]	mg/L
Sb 206.836†	20338.7	215.23	1.06%	[10]	mg/L
Si 288.158†	13034.1	39.51	0.30%	[10]	mg/L
Sn 189.927†	38153.3	404.19	1.06%	[10]	mg/L
Ti 334.903†	200059.5	4371.33	2.19%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/11/2010 4:33:48 PM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2034733.8	6818.47	0.34%	97.46	%
ScR 361.383	238317.8	2078.77	0.87%	100.6	%
Al 308.215†	41396.6	497.96	1.20%	[30]	mg/L
Ca 317.933†	284970.7	399.31	0.14%	[30]	mg/L
Fe 273.955†	118427.2	364.47	0.31%	[100]	mg/L
K 766.490†	267792.5	696.87	0.26%	[100]	mg/L
Mg 279.077†	33533.9	379.51	1.13%	[30]	mg/L
Na 330.237†	2335.7	18.18	0.78%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	196700	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1380	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1608	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2170	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	8043	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	293400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	9499	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	55400	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	52640	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	4039	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	217000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1184	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2678	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1118	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	39740	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	11270	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6217	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	23.36	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1846	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7964	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2034	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1047	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1303	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3815	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	497300	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	20010	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2080	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	123100	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	2364	0.00000	1.000000	

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Analysis Begun

Start Time: 8/11/2010 4:47:00 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0805B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 4:47:03 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2093012.2	24664.86	1.18%	100.3	%
ScR 361.383	238427.3	1863.85	0.78%	100.7	%
Ag 328.068†	-140.1	34.03	24.30%	[0.00]	mg/L
Al 308.215†	-209.0	5.75	2.75%	[0.00]	mg/L
As 188.979†	17.5	2.87	16.42%	[0.00]	mg/L
B 249.677†	-6.1	1.90	31.28%	[0.00]	mg/L
Ba 233.527†	24.0	2.07	8.61%	[0.00]	mg/L
Be 313.042†	539.9	18.07	3.35%	[0.00]	mg/L
Ca 317.933†	-105.7	14.77	13.97%	[0.00]	mg/L
Cd 228.802†	214.6	5.33	2.48%	[0.00]	mg/L
Co 228.616†	-164.3	9.20	5.60%	[0.00]	mg/L
Cr 267.716†	-43.8	1.84	4.19%	[0.00]	mg/L
Cu 324.752†	1798.6	32.97	1.83%	[0.00]	mg/L
Fe 273.955†	-19.8	1.28	6.49%	[0.00]	mg/L
K 766.490†	3622.4	82.60	2.28%	[0.00]	mg/L
Mg 279.077†	-60.5	4.06	6.72%	[0.00]	mg/L
Mn 257.610†	73.1	0.60	0.82%	[0.00]	mg/L
Mo 202.031†	26.3	1.83	6.96%	[0.00]	mg/L
Na 589.592†	1716.2	6.12	0.36%	[0.00]	mg/L
Na 330.237†	-244.2	13.74	5.63%	[0.00]	mg/L
Ni 231.604†	-66.2	6.28	9.49%	[0.00]	mg/L
Pb 220.353†	284.8	5.65	1.98%	[0.00]	mg/L
Sb 206.836†	165.7	1.45	0.88%	[0.00]	mg/L
Se 196.026†	-65.2	1.81	2.78%	[0.00]	mg/L
Si 288.158†	12.7	10.90	85.94%	[0.00]	mg/L
Sn 189.927†	-2.4	6.12	255.98%	[0.00]	mg/L
Sr 421.552†	487.1	5.13	1.05%	[0.00]	mg/L
Ti 334.903†	219.9	18.48	8.40%	[0.00]	mg/L
Tl 190.801†	-9.0	1.96	21.73%	[0.00]	mg/L
V 292.402†	533.0	14.71	2.76%	[0.00]	mg/L
Zn 206.200†	-10.8	1.45	13.36%	[0.00]	mg/L

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Analysis Begun

Start Time: 8/11/2010 4:51:26 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0805B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 4:51:28 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2074199.1	99.35 %	0.959			0.97%
ScR 361.383	243396.5	102.8 %	0.95			0.93%
Ag 328.068†	191607.7	0.9740 mg/L	0.00322	0.9740 mg/L	0.00322	0.33%
Al 308.215†	2820.8	2.005 mg/L	0.0175	2.005 mg/L	0.0175	0.87%
As 188.979†	3242.7	2.017 mg/L	0.0169	2.017 mg/L	0.0169	0.84%
B 249.677†	2090.7	0.9618 mg/L	0.01032	0.9618 mg/L	0.01032	1.07%
Ba 233.527†	7861.7	0.9770 mg/L	0.00810	0.9770 mg/L	0.00810	0.83%
Be 313.042†	291002.6	0.9893 mg/L	0.00155	0.9893 mg/L	0.00155	0.16%
Ca 317.933†	19428.2	2.045 mg/L	0.0159	2.045 mg/L	0.0159	0.78%
Cd 228.802†	57341.8	1.032 mg/L	0.0084	1.032 mg/L	0.0084	0.81%
Co 228.616†	51941.0	0.9849 mg/L	0.00906	0.9849 mg/L	0.00906	0.92%
Cr 267.716†	3986.3	0.9868 mg/L	0.00455	0.9868 mg/L	0.00455	0.46%
Cu 324.752†	229132.0	1.056 mg/L	0.0050	1.056 mg/L	0.0050	0.47%
Fe 273.955†	2325.2	1.963 mg/L	0.0173	1.963 mg/L	0.0173	0.88%
K 766.490†	53574.9	20.01 mg/L	0.056	20.01 mg/L	0.056	0.28%
Mg 279.077†	2219.9	1.989 mg/L	0.0194	1.989 mg/L	0.0194	0.97%
Mn 257.610†	39327.5	0.9901 mg/L	0.00192	0.9901 mg/L	0.00192	0.19%
Mo 202.031†	11246.6	0.9976 mg/L	0.00999	0.9976 mg/L	0.00999	1.00%
Na 589.592†	304488.6	48.98 mg/L	0.117	48.98 mg/L	0.117	0.24%
Na 330.237†	1176.0	50.23 mg/L	0.151	50.23 mg/L	0.151	0.30%
Ni 231.604†	1812.3	0.9826 mg/L	0.00630	0.9826 mg/L	0.00630	0.64%
Pb 220.353†	16005.8	2.011 mg/L	0.0160	2.011 mg/L	0.0160	0.80%
Sb 206.836†	4405.4	2.163 mg/L	0.0206	2.163 mg/L	0.0206	0.95%
Se 196.026†	2093.8	1.999 mg/L	0.0107	1.999 mg/L	0.0107	0.54%
Si 288.158†	2755.4	2.117 mg/L	0.0217	2.117 mg/L	0.0217	1.02%
Sn 189.927†	3553.4	0.9319 mg/L	0.00856	0.9319 mg/L	0.00856	0.92%
Sr 421.552†	495267.6	0.9958 mg/L	0.00576	0.9958 mg/L	0.00576	0.58%
Ti 334.903†	19869.3	0.9919 mg/L	0.00215	0.9919 mg/L	0.00215	0.22%
Tl 190.801†	4129.1	1.972 mg/L	0.0167	1.972 mg/L	0.0167	0.85%
V 292.402†	121469.2	0.9984 mg/L	0.00450	0.9984 mg/L	0.00450	0.45%
Zn 206.200†	2319.7	0.9804 mg/L	0.00726	0.9804 mg/L	0.00726	0.74%

Sequence No.: 2
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/11/2010 4:57:30 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	2076523.5	99.46	%	0.479			0.48%
ScR 361.383	236797.2	99.99	%	2.087			2.09%
Ag 328.068†	3.1	0.00002	mg/L	0.000167	0.00002 mg/L	0.000167	>999.9%
Al 308.215†	4.1	0.00294	mg/L	0.009157	0.00294 mg/L	0.009157	311.09%
As 188.979†	1.9	0.00118	mg/L	0.002869	0.00118 mg/L	0.002869	243.01%
B 249.677†	13.1	0.00605	mg/L	0.000962	0.00605 mg/L	0.000962	15.92%
Ba 233.527†	3.8	0.00047	mg/L	0.000211	0.00047 mg/L	0.000211	44.83%
Be 313.042†	45.5	0.00015	mg/L	0.000007	0.00015 mg/L	0.000007	4.68%
Ca 317.933†	-0.5	-0.00005	mg/L	0.001685	-0.00005 mg/L	0.001685	>999.9%
Cd 228.802†	4.1	0.00007	mg/L	0.000080	0.00007 mg/L	0.000080	110.45%
Co 228.616†	-0.7	-0.00001	mg/L	0.000069	-0.00001 mg/L	0.000069	644.12%
Cr 267.716†	5.5	0.00137	mg/L	0.000916	0.00137 mg/L	0.000916	67.01%
Cu 324.752†	-19.5	-0.00009	mg/L	0.000288	-0.00009 mg/L	0.000288	320.35%
Fe 273.955†	-5.7	-0.00478	mg/L	0.001402	-0.00478 mg/L	0.001402	29.32%
K 766.490†	79.1	0.02955	mg/L	0.036021	0.02955 mg/L	0.036021	121.88%
Mg 279.077†	-2.6	-0.00231	mg/L	0.001720	-0.00231 mg/L	0.001720	74.57%
Mn 257.610†	11.1	0.00028	mg/L	0.000172	0.00028 mg/L	0.000172	61.83%
Mo 202.031†	0.9	0.00008	mg/L	0.000257	0.00008 mg/L	0.000257	317.63%
Na 589.592†	204.4	0.03288	mg/L	0.005049	0.03288 mg/L	0.005049	15.35%
Na 330.237†	4.4	0.1880	mg/L	0.34487	0.1880 mg/L	0.34487	183.40%
Ni 231.604†	1.7	0.00092	mg/L	0.000960	0.00092 mg/L	0.000960	104.04%
Pb 220.353†	2.2	0.00028	mg/L	0.000889	0.00028 mg/L	0.000889	316.68%
Sb 206.836†	-0.6	-0.00031	mg/L	0.003457	-0.00031 mg/L	0.003457	>999.9%
Se 196.026†	-5.4	-0.00520	mg/L	0.002288	-0.00520 mg/L	0.002288	43.98%
Si 288.158†	5.1	0.00393	mg/L	0.006176	0.00393 mg/L	0.006176	157.10%
Sn 189.927†	3.0	0.00079	mg/L	0.000657	0.00079 mg/L	0.000657	83.37%
Sr 421.552†	-13.8	-0.00003	mg/L	0.000056	-0.00003 mg/L	0.000056	200.59%
Ti 334.903†	-22.8	-0.00114	mg/L	0.000728	-0.00114 mg/L	0.000728	63.91%
Tl 190.801†	-0.4	-0.00019	mg/L	0.001976	-0.00019 mg/L	0.001976	>999.9%
V 292.402†	8.1	0.00008	mg/L	0.000206	0.00008 mg/L	0.000206	269.55%
Zn 206.200†	0.8	0.00035	mg/L	0.000509	0.00035 mg/L	0.000509	146.20%

Sequence No.: 3

Sample ID: CRI

Autosampler Location: 21

Date Collected: 8/11/2010 5:03:29 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2104178.1	100.8	%	0.29			0.29%
ScR 361.383	239975.9	101.3	%	0.77			0.76%
Ag 328.068†	566.1	0.00288	mg/L	0.000163	0.00288 mg/L	0.000163	5.68%
Al 308.215†	61.2	0.04419	mg/L	0.005322	0.04419 mg/L	0.005322	12.04%
As 188.979†	78.3	0.04870	mg/L	0.002689	0.04870 mg/L	0.002689	5.52%
B 249.677†	43.5	0.02002	mg/L	0.001456	0.02002 mg/L	0.001456	7.27%
Ba 233.527†	26.6	0.00330	mg/L	0.000740	0.00330 mg/L	0.000740	22.39%
Be 313.042†	317.3	0.00107	mg/L	0.000077	0.00107 mg/L	0.000077	7.17%
Ca 317.933†	473.1	0.04981	mg/L	0.002144	0.04981 mg/L	0.002144	4.30%
Cd 228.802†	118.6	0.00206	mg/L	0.000113	0.00206 mg/L	0.000113	5.52%
Co 228.616†	163.3	0.00309	mg/L	0.000028	0.00309 mg/L	0.000028	0.89%
Cr 267.716†	20.2	0.00500	mg/L	0.001090	0.00500 mg/L	0.001090	21.81%
Cu 324.752†	227.0	0.00105	mg/L	0.000093	0.00105 mg/L	0.000093	8.90%
Fe 273.955†	54.2	0.04575	mg/L	0.001333	0.04575 mg/L	0.001333	2.91%
K 766.490†	1447.6	0.5406	mg/L	0.03232	0.5406 mg/L	0.03232	5.98%
Mg 279.077†	57.4	0.05133	mg/L	0.001932	0.05133 mg/L	0.001932	3.76%
Mn 257.610†	43.8	0.00111	mg/L	0.000050	0.00111 mg/L	0.000050	4.53%
Mo 202.031†	61.6	0.00547	mg/L	0.000253	0.00547 mg/L	0.000253	4.63%
Na 589.592†	3225.8	0.5189	mg/L	0.00192	0.5189 mg/L	0.00192	0.37%
Na 330.237†	18.4	0.7869	mg/L	0.72037	0.7869 mg/L	0.72037	91.54%
Ni 231.604†	19.2	0.01043	mg/L	0.001671	0.01043 mg/L	0.001671	16.03%
Pb 220.353†	156.3	0.01964	mg/L	0.000232	0.01964 mg/L	0.000232	1.18%
Sb 206.836†	105.7	0.05198	mg/L	0.001334	0.05198 mg/L	0.001334	2.57%
Se 196.026†	52.1	0.04983	mg/L	0.002947	0.04983 mg/L	0.002947	5.91%
Si 288.158†	90.2	0.06920	mg/L	0.004060	0.06920 mg/L	0.004060	5.87%
Sn 189.927†	41.1	0.01079	mg/L	0.000323	0.01079 mg/L	0.000323	2.99%
Sr 421.552†	520.9	0.00105	mg/L	0.000064	0.00105 mg/L	0.000064	6.15%
Ti 334.903†	97.3	0.00486	mg/L	0.001223	0.00486 mg/L	0.001223	25.20%
Tl 190.801†	92.7	0.04454	mg/L	0.001660	0.04454 mg/L	0.001660	3.73%
V 292.402†	365.6	0.00303	mg/L	0.000177	0.00303 mg/L	0.000177	5.85%
Zn 206.200†	22.8	0.00964	mg/L	0.000157	0.00964 mg/L	0.000157	1.62%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 8/11/2010 5:09:29 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2030496.9	97.26	%	0.622				0.64%
ScR 361.383	241032.6	101.8	%	0.24				0.24%
Ag 328.068†	-1234.4	0.00045	mg/L	0.000369	0.00045	mg/L	0.000369	82.07%
Al 308.215†	274580.4	199.0	mg/L	0.04	199.0	mg/L	0.04	0.02%
As 188.979†	-7.9	-0.00493	mg/L	0.002270	-0.00493	mg/L	0.002270	46.03%
B 249.677†	31.7	0.01459	mg/L	0.001694	0.01459	mg/L	0.001694	11.61%
Ba 233.527†	85.7	0.00158	mg/L	0.000541	0.00158	mg/L	0.000541	34.15%
Be 313.042†	2.9	-0.00005	mg/L	0.000041	-0.00005	mg/L	0.000041	85.82%
Ca 317.933†	913430.9	96.16	mg/L	0.245	96.16	mg/L	0.245	0.25%
Cd 228.802†	49.3	0.00090	mg/L	0.000090	0.00090	mg/L	0.000090	10.01%
Co 228.616†	38.0	0.00071	mg/L	0.000138	0.00071	mg/L	0.000138	19.35%
Cr 267.716†	11.2	0.00226	mg/L	0.000901	0.00226	mg/L	0.000901	39.93%
Cu 324.752†	-3620.2	0.00045	mg/L	0.000306	0.00045	mg/L	0.000306	68.61%
Fe 273.955†	227882.7	192.4	mg/L	0.59	192.4	mg/L	0.59	0.31%
K 766.490†	-153.6	-0.05737	mg/L	0.005906	-0.05737	mg/L	0.005906	10.29%
Mg 279.077†	109645.4	97.98	mg/L	0.544	97.98	mg/L	0.544	0.55%
Mn 257.610†	29.8	-0.00059	mg/L	0.000032	-0.00059	mg/L	0.000032	5.41%
Mo 202.031†	19.9	0.00177	mg/L	0.000408	0.00177	mg/L	0.000408	23.10%
Na 589.592†	115.9	0.01864	mg/L	0.002517	0.01864	mg/L	0.002517	13.50%
Na 330.237†	18.8	0.1730	mg/L	0.15850	0.1730	mg/L	0.15850	91.61%
Ni 231.604†	-2.7	-0.00139	mg/L	0.000992	-0.00139	mg/L	0.000992	71.49%
Pb 220.353†	-304.3	0.00521	mg/L	0.000103	0.00521	mg/L	0.000103	1.97%
Sb 206.836†	148.0	-0.00450	mg/L	0.000669	-0.00450	mg/L	0.000669	14.86%
Se 196.026†	-96.0	-0.01888	mg/L	0.004361	-0.01888	mg/L	0.004361	23.10%
Si 288.158†	-22.4	-0.00410	mg/L	0.007873	-0.00410	mg/L	0.007873	192.16%
Sn 189.927†	-66.9	-0.00961	mg/L	0.000585	-0.00961	mg/L	0.000585	6.09%
Sr 421.552†	1825.8	0.00367	mg/L	0.000064	0.00367	mg/L	0.000064	1.75%
Ti 334.903†	86.7	0.00058	mg/L	0.000533	0.00058	mg/L	0.000533	91.67%
Tl 190.801†	-58.7	-0.02833	mg/L	0.001059	-0.02833	mg/L	0.001059	3.74%
V 292.402†	2723.7	-0.00046	mg/L	0.000629	-0.00046	mg/L	0.000629	136.72%
Zn 206.200†	-13.8	-0.00102	mg/L	0.001058	-0.00102	mg/L	0.001058	103.48%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/11/2010 5:15:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2005056.6	96.04	%	0.630				0.66%
ScR 361.383	238291.3	100.6	%	0.79				0.79%
Ag 328.068†	198046.1	1.014	mg/L	0.0108	1.014	mg/L	0.0108	1.06%
Al 308.215†	275496.7	199.6	mg/L	0.88	199.6	mg/L	0.88	0.44%
As 188.979†	1601.7	0.9965	mg/L	0.00969	0.9965	mg/L	0.00969	0.97%
B 249.677†	42.2	0.01647	mg/L	0.000958	0.01647	mg/L	0.000958	5.82%
Ba 233.527†	7848.4	0.9664	mg/L	0.00694	0.9664	mg/L	0.00694	0.72%
Be 313.042†	294078.8	0.9998	mg/L	0.00329	0.9998	mg/L	0.00329	0.33%
Ca 317.933†	914837.0	96.31	mg/L	0.519	96.31	mg/L	0.519	0.54%
Cd 228.802†	55556.3	1.001	mg/L	0.0076	1.001	mg/L	0.0076	0.76%
Co 228.616†	48264.7	0.9165	mg/L	0.00456	0.9165	mg/L	0.00456	0.50%
Cr 267.716†	3927.2	0.9718	mg/L	0.01007	0.9718	mg/L	0.01007	1.04%
Cu 324.752†	224716.7	1.053	mg/L	0.0084	1.053	mg/L	0.0084	0.79%
Fe 273.955†	228251.0	192.7	mg/L	1.17	192.7	mg/L	1.17	0.61%
K 766.490†	-110.7	-0.04132	mg/L	0.025574	-0.04132	mg/L	0.025574	61.89%
Mg 279.077†	112335.6	100.4	mg/L	0.60	100.4	mg/L	0.60	0.60%
Mn 257.610†	38513.6	0.9680	mg/L	0.00739	0.9680	mg/L	0.00739	0.76%
Mo 202.031†	28.4	0.00238	mg/L	0.000097	0.00238	mg/L	0.000097	4.10%
Na 589.592†	160.8	0.02586	mg/L	0.005965	0.02586	mg/L	0.005965	23.06%
Na 330.237†	35.3	0.5862	mg/L	0.18281	0.5862	mg/L	0.18281	31.19%
Ni 231.604†	1743.6	0.9452	mg/L	0.00937	0.9452	mg/L	0.00937	0.99%
Pb 220.353†	7150.7	0.9423	mg/L	0.00868	0.9423	mg/L	0.00868	0.92%
Sb 206.836†	2375.4	1.078	mg/L	0.0098	1.078	mg/L	0.0098	0.91%
Se 196.026†	959.8	0.9875	mg/L	0.00536	0.9875	mg/L	0.00536	0.54%
Si 288.158†	-17.5	0.00089	mg/L	0.004419	0.00089	mg/L	0.004419	495.70%
Sn 189.927†	-68.8	-0.01002	mg/L	0.000737	-0.01002	mg/L	0.000737	7.35%
Sr 421.552†	2109.9	0.00424	mg/L	0.000147	0.00424	mg/L	0.000147	3.46%
Ti 334.903†	70.3	-0.00047	mg/L	0.000234	-0.00047	mg/L	0.000234	49.42%
Tl 190.801†	1945.3	0.9220	mg/L	0.00926	0.9220	mg/L	0.00926	1.00%
V 292.402†	123334.4	0.9856	mg/L	0.00714	0.9856	mg/L	0.00714	0.72%
Zn 206.200†	2155.1	0.9158	mg/L	0.00647	0.9158	mg/L	0.00647	0.71%

Sequence No.: 6

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/11/2010 5:22:46 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2093866.3	100.3 %	0.40			0.39%
ScR 361.383	244428.6	103.2 %	0.35			0.33%
Ag 328.068†	188242.7	0.9568 mg/L	0.00945	0.9568 mg/L	0.00945	0.99%
Al 308.215†	2803.7	1.994 mg/L	0.0064	1.994 mg/L	0.0064	0.32%
As 188.979†	3188.0	1.983 mg/L	0.0225	1.983 mg/L	0.0225	1.13%
B 249.677†	2058.6	0.9471 mg/L	0.00558	0.9471 mg/L	0.00558	0.59%
Ba 233.527†	7797.8	0.9691 mg/L	0.00416	0.9691 mg/L	0.00416	0.43%
Be 313.042†	287579.9	0.9777 mg/L	0.00088	0.9777 mg/L	0.00088	0.09%
Ca 317.933†	19268.8	2.029 mg/L	0.0113	2.029 mg/L	0.0113	0.56%
Cd 228.802†	56205.7	1.011 mg/L	0.0060	1.011 mg/L	0.0060	0.60%
Co 228.616†	50804.7	0.9633 mg/L	0.00656	0.9633 mg/L	0.00656	0.68%
Cr 267.716†	3941.1	0.9756 mg/L	0.00076	0.9756 mg/L	0.00076	0.08%
Cu 324.752†	224515.7	1.035 mg/L	0.0049	1.035 mg/L	0.0049	0.48%
Fe 273.955†	2307.9	1.948 mg/L	0.0066	1.948 mg/L	0.0066	0.34%
K 766.490†	52891.2	19.75 mg/L	0.100	19.75 mg/L	0.100	0.51%
Mg 279.077†	2206.9	1.977 mg/L	0.0084	1.977 mg/L	0.0084	0.42%
Mn 257.610†	38928.2	0.9800 mg/L	0.00187	0.9800 mg/L	0.00187	0.19%
Mo 202.031†	11009.7	0.9766 mg/L	0.00928	0.9766 mg/L	0.00928	0.95%
Na 589.592†	301024.3	48.42 mg/L	0.128	48.42 mg/L	0.128	0.26%
Na 330.237†	1168.4	49.91 mg/L	0.294	49.91 mg/L	0.294	0.59%
Ni 231.604†	1790.8	0.9710 mg/L	0.00164	0.9710 mg/L	0.00164	0.17%
Pb 220.353†	15640.8	1.965 mg/L	0.0089	1.965 mg/L	0.0089	0.45%
Sb 206.836†	4338.6	2.130 mg/L	0.0207	2.130 mg/L	0.0207	0.97%
Se 196.026†	2059.7	1.966 mg/L	0.0236	1.966 mg/L	0.0236	1.20%
Si 288.158†	2724.3	2.093 mg/L	0.0093	2.093 mg/L	0.0093	0.45%
Sn 189.927†	3495.0	0.9166 mg/L	0.00900	0.9166 mg/L	0.00900	0.98%
Sr 421.552†	490554.6	0.9864 mg/L	0.00327	0.9864 mg/L	0.00327	0.33%
Ti 334.903†	19668.1	0.9819 mg/L	0.00136	0.9819 mg/L	0.00136	0.14%
Tl 190.801†	4060.7	1.939 mg/L	0.0149	1.939 mg/L	0.0149	0.77%
V 292.402†	118382.8	0.9731 mg/L	0.00429	0.9731 mg/L	0.00429	0.44%
Zn 206.200†	2297.0	0.9709 mg/L	0.00661	0.9709 mg/L	0.00661	0.68%

Sequence No.: 7
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/11/2010 5:28:49 PM
 Data Type: Original

Dilution: 1X

 Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

 Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2116377.9	101.4 %		0.66			0.65%
ScR 361.383	241732.6	102.1 %		0.88			0.86%
Ag 328.068†	2.3	0.00001 mg/L		0.000144	0.00001 mg/L	0.000144	>999.9%
Al 308.215†	5.1	0.00371 mg/L		0.001259	0.00371 mg/L	0.001259	33.92%
As 188.979†	-4.7	-0.00290 mg/L		0.001308	-0.00290 mg/L	0.001308	45.02%
B 249.677†	5.0	0.00229 mg/L		0.001962	0.00229 mg/L	0.001962	85.54%
Ba 233.527†	5.2	0.00064 mg/L		0.000272	0.00064 mg/L	0.000272	42.24%
Be 313.042†	30.6	0.00010 mg/L		0.000116	0.00010 mg/L	0.000116	110.86%
Ca 317.933†	6.9	0.00072 mg/L		0.000763	0.00072 mg/L	0.000763	105.45%
Cd 228.802†	-0.3	0.00000 mg/L		0.000127	0.00000 mg/L	0.000127	>999.9%
Co 228.616†	4.7	0.00009 mg/L		0.000070	0.00009 mg/L	0.000070	77.03%
Cr 267.716†	1.7	0.00041 mg/L		0.000680	0.00041 mg/L	0.000680	164.72%
Cu 324.752†	60.1	0.00028 mg/L		0.000324	0.00028 mg/L	0.000324	117.00%
Fe 273.955†	-4.1	-0.00345 mg/L		0.001568	-0.00345 mg/L	0.001568	45.44%
K 766.490†	-27.4	-0.01025 mg/L		0.005624	-0.01025 mg/L	0.005624	54.90%
Mg 279.077†	-1.1	-0.00098 mg/L		0.004450	-0.00098 mg/L	0.004450	454.85%
Mn 257.610†	7.1	0.00018 mg/L		0.000062	0.00018 mg/L	0.000062	34.93%
Mo 202.031†	6.0	0.00053 mg/L		0.000053	0.00053 mg/L	0.000053	9.98%
Na 589.592†	138.1	0.02222 mg/L		0.006480	0.02222 mg/L	0.006480	29.17%
Na 330.237†	12.6	0.5392 mg/L		0.34490	0.5392 mg/L	0.34490	63.96%
Ni 231.604†	3.5	0.00188 mg/L		0.002874	0.00188 mg/L	0.002874	152.82%
Pb 220.353†	-0.8	-0.00009 mg/L		0.001244	-0.00009 mg/L	0.001244	>999.9%
Sb 206.836†	-6.4	-0.00316 mg/L		0.001360	-0.00316 mg/L	0.001360	42.99%
Se 196.026†	0.2	0.00015 mg/L		0.004256	0.00015 mg/L	0.004256	>999.9%
Si 288.158†	4.4	0.00339 mg/L		0.004420	0.00339 mg/L	0.004420	130.31%
Sn 189.927†	5.1	0.00134 mg/L		0.000387	0.00134 mg/L	0.000387	28.95%
Sr 421.552†	30.5	0.00006 mg/L		0.000095	0.00006 mg/L	0.000095	155.46%
Ti 334.903†	-20.9	-0.00105 mg/L		0.000909	-0.00105 mg/L	0.000909	86.86%
Tl 190.801†	0.4	0.00021 mg/L		0.002202	0.00021 mg/L	0.002202	>999.9%
V 292.402†	-20.2	-0.00016 mg/L		0.000057	-0.00016 mg/L	0.000057	36.34%
Zn 206.200†	-0.6	-0.00024 mg/L		0.000843	-0.00024 mg/L	0.000843	348.82%

Sequence No.: 8
Sample ID: RG64 A TWC

Autosampler Location: 24
Date Collected: 8/11/2010 5:34:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 A TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 A TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2090339.9	100.1	%	1.01			1.01%
ScR 361.383	243201.7	102.7	%	0.02			0.02%
Ag 328.068†	146.3	0.00008	mg/L	0.000147	0.00008	mg/L	0.000147 194.48%
Al 308.215†	208.5	0.1510	mg/L	0.00338	0.1510	mg/L	0.00338 2.24%
As 188.979†	-3.5	-0.00216	mg/L	0.000299	-0.00216	mg/L	0.000299 13.86%
B 249.677†	38.8	0.01789	mg/L	0.001930	0.01789	mg/L	0.001930 10.79%
Ba 233.527†	164.5	0.02042	mg/L	0.000646	0.02042	mg/L	0.000646 3.16%
Be 313.042†	24.8	0.00008	mg/L	0.000077	0.00008	mg/L	0.000077 95.23%
Ca 317.933†	560844.0	59.04	mg/L	0.079	59.04	mg/L	0.079 0.13%
Cd 228.802†	-4.6	-0.00008	mg/L	0.000070	-0.00008	mg/L	0.000070 91.69%
Co 228.616†	69.9	0.00131	mg/L	0.000105	0.00131	mg/L	0.000105 8.01%
Cr 267.716†	11.6	0.00099	mg/L	0.001906	0.00099	mg/L	0.001906 192.09%
Cu 324.752†	-19.7	-0.00004	mg/L	0.000102	-0.00004	mg/L	0.000102 230.18%
Fe 273.955†	650.0	0.5489	mg/L	0.00300	0.5489	mg/L	0.00300 0.55%
K 766.490†	8294.2	3.097	mg/L	0.0129	3.097	mg/L	0.0129 0.42%
Mg 279.077†	36990.4	33.09	mg/L	0.092	33.09	mg/L	0.092 0.28%
Mn 257.610†	49824.6	1.254	mg/L	0.0032	1.254	mg/L	0.0032 0.25%
Mo 202.031†	24.7	0.00219	mg/L	0.000416	0.00219	mg/L	0.000416 19.00%
Na 589.592†	68599.0	11.03	mg/L	0.035	11.03	mg/L	0.035 0.32%
Na 330.237†	280.1	11.61	mg/L	0.082	11.61	mg/L	0.082 0.70%
Ni 231.604†	23.1	0.01250	mg/L	0.001203	0.01250	mg/L	0.001203 9.62%
Pb 220.353†	-11.4	-0.00143	mg/L	0.000505	-0.00143	mg/L	0.000505 35.38%
Sb 206.836†	-7.8	-0.00412	mg/L	0.001432	-0.00412	mg/L	0.001432 34.76%
Se 196.026†	-1.5	-0.00256	mg/L	0.003455	-0.00256	mg/L	0.003455 134.85%
Si 288.158†	21852.2	16.77	mg/L	0.151	16.77	mg/L	0.151 0.90%
Sn 189.927†	-43.9	-0.00740	mg/L	0.000779	-0.00740	mg/L	0.000779 10.53%
Sr 421.552†	129486.7	0.2604	mg/L	0.00020	0.2604	mg/L	0.00020 0.08%
Ti 334.903†	162.7	0.00583	mg/L	0.001424	0.00583	mg/L	0.001424 24.43%
Tl 190.801†	-6.6	-0.00486	mg/L	0.003354	-0.00486	mg/L	0.003354 69.02%
V 292.402†	160.8	0.00145	mg/L	0.000065	0.00145	mg/L	0.000065 4.50%
Zn 206.200†	-10.0	-0.00186	mg/L	0.000271	-0.00186	mg/L	0.000271 14.51%

Sequence No.: 9

Autosampler Location: 25

Sample ID: RG64 B TWC

Date Collected: 8/11/2010 5:41:04 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: RG64 B TWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 B TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2097841.9	100.5	%	1.00			1.00%
ScR 361.383	238546.8	100.7	%	0.61			0.60%
Ag 328.068†	123.8	0.00000	mg/L	0.000162	0.00000 mg/L	0.000162	>999.9%
Al 308.215†	16.3	0.01162	mg/L	0.003417	0.01162 mg/L	0.003417	29.41%
As 188.979†	1.9	0.00116	mg/L	0.003675	0.00116 mg/L	0.003675	318.12%
B 249.677†	69.8	0.03215	mg/L	0.003359	0.03215 mg/L	0.003359	10.45%
Ba 233.527†	210.1	0.02611	mg/L	0.000160	0.02611 mg/L	0.000160	0.61%
Be 313.042†	7.5	0.00001	mg/L	0.000043	0.00001 mg/L	0.000043	481.26%
Ca 317.933†	741842.7	78.10	mg/L	0.143	78.10 mg/L	0.143	0.18%
Cd 228.802†	-10.7	-0.00019	mg/L	0.000120	-0.00019 mg/L	0.000120	64.13%
Co 228.616†	43.9	0.00082	mg/L	0.000115	0.00082 mg/L	0.000115	14.08%
Cr 267.716†	15.0	0.00096	mg/L	0.001149	0.00096 mg/L	0.001149	119.84%
Cu 324.752†	-54.6	-0.00024	mg/L	0.000143	-0.00024 mg/L	0.000143	60.57%
Fe 273.955†	224.8	0.1898	mg/L	0.00132	0.1898 mg/L	0.00132	0.70%
K 766.490†	16258.5	6.071	mg/L	0.0388	6.071 mg/L	0.0388	0.64%
Mg 279.077†	60322.7	53.97	mg/L	0.079	53.97 mg/L	0.079	0.15%
Mn 257.610†	3996.6	0.1006	mg/L	0.00016	0.1006 mg/L	0.00016	0.16%
Mo 202.031†	26.6	0.00236	mg/L	0.000314	0.00236 mg/L	0.000314	13.34%
Na 589.592†	104114.3	16.75	mg/L	0.025	16.75 mg/L	0.025	0.15%
Na 330.237†	424.8	17.67	mg/L	0.343	17.67 mg/L	0.343	1.94%
Ni 231.604†	51.3	0.02777	mg/L	0.000900	0.02777 mg/L	0.000900	3.24%
Pb 220.353†	-13.7	-0.00172	mg/L	0.000616	-0.00172 mg/L	0.000616	35.76%
Sb 206.836†	-12.2	-0.00623	mg/L	0.002431	-0.00623 mg/L	0.002431	39.01%
Se 196.026†	-9.2	-0.00887	mg/L	0.007248	-0.00887 mg/L	0.007248	81.75%
Si 288.158†	21317.4	16.36	mg/L	0.112	16.36 mg/L	0.112	0.68%
Sn 189.927†	-59.4	-0.00986	mg/L	0.000435	-0.00986 mg/L	0.000435	4.42%
Sr 421.552†	241983.2	0.4866	mg/L	0.00106	0.4866 mg/L	0.00106	0.22%
Ti 334.903†	56.7	-0.00021	mg/L	0.001273	-0.00021 mg/L	0.001273	598.28%
Tl 190.801†	-7.1	-0.00359	mg/L	0.001378	-0.00359 mg/L	0.001378	38.39%
V 292.402†	800.1	0.00653	mg/L	0.000181	0.00653 mg/L	0.000181	2.78%
Zn 206.200†	-12.6	-0.00198	mg/L	0.001117	-0.00198 mg/L	0.001117	56.29%

Sequence No.: 10
Sample ID: RG64 D TWC

Autosampler Location: 26
Date Collected: 8/11/2010 5:47:05 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 D TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 D TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2084596.4	99.85	%	0.478			0.48%
ScR 361.383	243106.5	102.7	%	0.78			0.76%
Ag 328.068†	257.9	0.00019	mg/L	0.000117	0.00019 mg/L	0.000117	60.52%
Al 308.215†	25.7	0.01856	mg/L	0.004503	0.01856 mg/L	0.004503	24.26%
As 188.979†	-0.9	-0.00059	mg/L	0.000891	-0.00059 mg/L	0.000891	150.93%
B 249.677†	36.2	0.01670	mg/L	0.001112	0.01670 mg/L	0.001112	6.66%
Ba 233.527†	496.1	0.06150	mg/L	0.000455	0.06150 mg/L	0.000455	0.74%
Be 313.042†	-10.6	-0.00004	mg/L	0.000044	-0.00004 mg/L	0.000044	119.06%
Ca 317.933†	840158.9	88.45	mg/L	0.141	88.45 mg/L	0.141	0.16%
Cd 228.802†	-8.2	-0.00015	mg/L	0.000119	-0.00015 mg/L	0.000119	81.91%
Co 228.616†	6.5	0.00010	mg/L	0.000022	0.00010 mg/L	0.000022	21.97%
Cr 267.716†	15.5	0.00127	mg/L	0.000707	0.00127 mg/L	0.000707	55.50%
Cu 324.752†	-291.8	-0.00101	mg/L	0.000148	-0.00101 mg/L	0.000148	14.73%
Fe 273.955†	4537.6	3.832	mg/L	0.0332	3.832 mg/L	0.0332	0.87%
K 766.490†	14705.9	5.492	mg/L	0.0345	5.492 mg/L	0.0345	0.63%
Mg 279.077†	47583.1	42.57	mg/L	0.119	42.57 mg/L	0.119	0.28%
Mn 257.610†	127565.2	3.210	mg/L	0.0075	3.210 mg/L	0.0075	0.23%
Mo 202.031†	23.5	0.00209	mg/L	0.000189	0.00209 mg/L	0.000189	9.05%
Na 589.592†	101077.8	16.26	mg/L	0.053	16.26 mg/L	0.053	0.32%
Na 330.237†	412.7	17.09	mg/L	0.087	17.09 mg/L	0.087	0.51%
Ni 231.604†	5.5	0.00299	mg/L	0.002269	0.00299 mg/L	0.002269	75.83%
Pb 220.353†	-14.5	-0.00206	mg/L	0.000755	-0.00206 mg/L	0.000755	36.66%
Sb 206.836†	-8.6	-0.00507	mg/L	0.003427	-0.00507 mg/L	0.003427	67.65%
Se 196.026†	-10.7	-0.01270	mg/L	0.006571	-0.01270 mg/L	0.006571	51.73%
Si 288.158†	23467.2	18.01	mg/L	0.217	18.01 mg/L	0.217	1.21%
Sn 189.927†	-57.5	-0.00909	mg/L	0.000219	-0.00909 mg/L	0.000219	2.41%
Sr 421.552†	234642.0	0.4718	mg/L	0.00186	0.4718 mg/L	0.00186	0.39%
Ti 334.903†	63.8	-0.00026	mg/L	0.000584	-0.00026 mg/L	0.000584	221.04%
Tl 190.801†	-5.2	-0.00673	mg/L	0.002217	-0.00673 mg/L	0.002217	32.95%
V 292.402†	26.2	0.00026	mg/L	0.000064	0.00026 mg/L	0.000064	24.24%
Zn 206.200†	-16.3	-0.00351	mg/L	0.000494	-0.00351 mg/L	0.000494	14.09%

Sequence No.: 11
Sample ID: RG64 F TWC

Autosampler Location: 27
Date Collected: 8/11/2010 5:53:07 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 F TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 F TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2136469.7	102.3	%	0.70			0.68%
ScR 361.383	243043.2	102.6	%	0.34			0.33%
Ag 328.068†	93.8	0.00001	mg/L	0.000178	0.00001	0.000178	>999.9%
Al 308.215†	6.3	0.00452	mg/L	0.006231	0.00452	0.006231	137.79%
As 188.979†	-7.4	-0.00464	mg/L	0.002254	-0.00464	0.002254	48.59%
B 249.677†	79.3	0.03652	mg/L	0.000935	0.03652	0.000935	2.56%
Ba 233.527†	89.0	0.01106	mg/L	0.000634	0.01106	0.000634	5.74%
Be 313.042†	2.3	0.00001	mg/L	0.000036	0.00001	0.000036	414.33%
Ca 317.933†	321517.1	33.85	mg/L	0.045	33.85	0.045	0.13%
Cd 228.802†	-8.3	-0.00014	mg/L	0.000040	-0.00014	0.000040	28.54%
Co 228.616†	25.7	0.00048	mg/L	0.000081	0.00048	0.000081	16.67%
Cr 267.716†	12.2	0.00188	mg/L	0.001495	0.00188	0.001495	79.58%
Cu 324.752†	-129.9	-0.00059	mg/L	0.000031	-0.00059	0.000031	5.34%
Fe 273.955†	135.8	0.1147	mg/L	0.00137	0.1147	0.00137	1.20%
K 766.490†	2567.6	0.9588	mg/L	0.01500	0.9588	0.01500	1.56%
Mg 279.077†	23742.8	21.24	mg/L	0.015	21.24	0.015	0.07%
Mn 257.610†	45518.9	1.145	mg/L	0.0019	1.145	0.0019	0.17%
Mo 202.031†	17.8	0.00158	mg/L	0.000634	0.00158	0.000634	40.05%
Na 589.592†	97892.9	15.75	mg/L	0.075	15.75	0.075	0.47%
Na 330.237†	399.3	16.87	mg/L	0.152	16.87	0.152	0.90%
Ni 231.604†	9.5	0.00515	mg/L	0.002982	0.00515	0.002982	57.90%
Pb 220.353†	-14.4	-0.00181	mg/L	0.000433	-0.00181	0.000433	23.93%
Sb 206.836†	-9.0	-0.00456	mg/L	0.002210	-0.00456	0.002210	48.46%
Se 196.026†	-1.9	-0.00295	mg/L	0.003962	-0.00295	0.003962	134.20%
Si 288.158†	15270.2	11.72	mg/L	0.036	11.72	0.036	0.31%
Sn 189.927†	-29.4	-0.00527	mg/L	0.000508	-0.00527	0.000508	9.63%
Sr 421.552†	121187.3	0.2437	mg/L	0.00023	0.2437	0.00023	0.09%
Ti 334.903†	8.6	-0.00089	mg/L	0.000729	-0.00089	0.000729	81.51%
Tl 190.801†	-5.4	-0.00409	mg/L	0.001311	-0.00409	0.001311	32.05%
V 292.402†	-49.2	-0.00022	mg/L	0.000096	-0.00022	0.000096	44.26%
Zn 206.200†	-4.4	-0.00046	mg/L	0.000753	-0.00046	0.000753	163.25%

Sequence No.: 12

Sample ID: RG64 EDUP TWC

Autosampler Location: 28

Date Collected: 8/11/2010 5:59:07 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 EDUP TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 EDUP TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2104534.4	100.8	%	0.91				0.91%
ScR 361.383	247497.7	104.5	%	0.24				0.23%
Ag 328.068†	426.0	0.00001	mg/L	0.000105	0.00001	mg/L	0.000105	710.00%
Al 308.215†	79.2	0.05735	mg/L	0.006218	0.05735	mg/L	0.006218	10.84%
As 188.979†	-1.9	-0.00116	mg/L	0.000491	-0.00116	mg/L	0.000491	42.43%
B 249.677†	54.8	0.02526	mg/L	0.000815	0.02526	mg/L	0.000815	3.23%
Ba 233.527†	200.6	0.02482	mg/L	0.000536	0.02482	mg/L	0.000536	2.16%
Be 313.042†	-15.6	-0.00005	mg/L	0.000039	-0.00005	mg/L	0.000039	77.31%
Ca 317.933†	740216.0	77.93	mg/L	0.255	77.93	mg/L	0.255	0.33%
Cd 228.802†	-15.0	-0.00027	mg/L	0.000015	-0.00027	mg/L	0.000015	5.73%
Co 228.616†	197.4	0.00374	mg/L	0.000143	0.00374	mg/L	0.000143	3.82%
Cr 267.716†	11.1	0.00077	mg/L	0.000899	0.00077	mg/L	0.000899	116.37%
Cu 324.752†	-323.9	-0.00127	mg/L	0.000247	-0.00127	mg/L	0.000247	19.52%
Fe 273.955†	3023.4	2.553	mg/L	0.0070	2.553	mg/L	0.0070	0.27%
K 766.490†	7697.2	2.874	mg/L	0.0260	2.874	mg/L	0.0260	0.90%
Mg 279.077†	28747.5	25.72	mg/L	0.061	25.72	mg/L	0.061	0.24%
Mn 257.610†	369242.6	9.291	mg/L	0.0276	9.291	mg/L	0.0276	0.30%
Mo 202.031†	27.9	0.00247	mg/L	0.000302	0.00247	mg/L	0.000302	12.20%
Na 589.592†	88285.7	14.20	mg/L	0.045	14.20	mg/L	0.045	0.31%
Na 330.237†	361.5	14.96	mg/L	0.437	14.96	mg/L	0.437	2.92%
Ni 231.604†	8.3	0.00447	mg/L	0.002124	0.00447	mg/L	0.002124	47.50%
Pb 220.353†	-6.5	-0.00096	mg/L	0.001700	-0.00096	mg/L	0.001700	176.85%
Sb 206.836†	-8.9	-0.00497	mg/L	0.001816	-0.00497	mg/L	0.001816	36.52%
Se 196.026†	0.7	-0.00790	mg/L	0.002032	-0.00790	mg/L	0.002032	25.74%
Si 288.158†	17862.4	13.71	mg/L	0.097	13.71	mg/L	0.097	0.71%
Sn 189.927†	-51.1	-0.00845	mg/L	0.000114	-0.00845	mg/L	0.000114	1.34%
Sr 421.552†	262208.5	0.5272	mg/L	0.00154	0.5272	mg/L	0.00154	0.29%
Ti 334.903†	69.7	0.00044	mg/L	0.000694	0.00044	mg/L	0.000694	157.47%
Tl 190.801†	15.0	-0.00508	mg/L	0.001413	-0.00508	mg/L	0.001413	27.80%
V 292.402†	-120.2	0.00010	mg/L	0.000035	0.00010	mg/L	0.000035	33.76%
Zn 206.200†	-12.9	-0.00276	mg/L	0.001520	-0.00276	mg/L	0.001520	55.03%

Sequence No.: 13

Sample ID: RG64 E TWC

Autosampler Location: 29

Date Collected: 8/11/2010 6:05:09 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 E TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 E TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2129217.6	102.0	%	0.23				0.22%
ScR 361.383	247521.0	104.5	%	0.42				0.40%
Ag 328.068†	424.4	0.00006	mg/L	0.000250	0.00006	mg/L	0.000250	392.56%
Al 308.215†	82.4	0.05965	mg/L	0.014142	0.05965	mg/L	0.014142	23.71%
As 188.979†	-1.7	-0.00106	mg/L	0.000950	-0.00106	mg/L	0.000950	89.87%
B 249.677†	51.3	0.02365	mg/L	0.002241	0.02365	mg/L	0.002241	9.47%
Ba 233.527†	192.9	0.02387	mg/L	0.000140	0.02387	mg/L	0.000140	0.59%
Be 313.042†	-0.2	0.00000	mg/L	0.000027	0.00000	mg/L	0.000027	>999.9%
Ca 317.933†	720176.6	75.82	mg/L	0.033	75.82	mg/L	0.033	0.04%
Cd 228.802†	-16.8	-0.00030	mg/L	0.000026	-0.00030	mg/L	0.000026	8.83%
Co 228.616†	200.8	0.00380	mg/L	0.000184	0.00380	mg/L	0.000184	4.83%
Cr 267.716†	15.7	0.00197	mg/L	0.000732	0.00197	mg/L	0.000732	37.12%
Cu 324.752†	-389.7	-0.00158	mg/L	0.000077	-0.00158	mg/L	0.000077	4.86%
Fe 273.955†	2941.4	2.484	mg/L	0.0061	2.484	mg/L	0.0061	0.25%
K 766.490†	7607.6	2.841	mg/L	0.0087	2.841	mg/L	0.0087	0.31%
Mg 279.077†	27564.2	24.66	mg/L	0.135	24.66	mg/L	0.135	0.55%
Mn 257.610†	359563.0	9.047	mg/L	0.0119	9.047	mg/L	0.0119	0.13%
Mo 202.031†	24.3	0.00215	mg/L	0.000258	0.00215	mg/L	0.000258	11.99%
Na 589.592†	86243.6	13.87	mg/L	0.049	13.87	mg/L	0.049	0.35%
Na 330.237†	356.8	14.78	mg/L	0.547	14.78	mg/L	0.547	3.70%
Ni 231.604†	9.4	0.00510	mg/L	0.000727	0.00510	mg/L	0.000727	14.26%
Pb 220.353†	-11.3	-0.00155	mg/L	0.000311	-0.00155	mg/L	0.000311	20.05%
Sb 206.836†	-9.9	-0.00547	mg/L	0.004385	-0.00547	mg/L	0.004385	80.11%
Se 196.026†	4.2	-0.00436	mg/L	0.002606	-0.00436	mg/L	0.002606	59.72%
Si 288.158†	14233.1	10.92	mg/L	0.040	10.92	mg/L	0.040	0.37%
Sn 189.927†	-51.2	-0.00864	mg/L	0.000876	-0.00864	mg/L	0.000876	10.13%
Sr 421.552†	255559.0	0.5139	mg/L	0.00078	0.5139	mg/L	0.00078	0.15%
Ti 334.903†	84.9	0.00128	mg/L	0.001266	0.00128	mg/L	0.001266	98.52%
Tl 190.801†	14.7	-0.00488	mg/L	0.001675	-0.00488	mg/L	0.001675	34.33%
V 292.402†	-125.1	0.00004	mg/L	0.000068	0.00004	mg/L	0.000068	162.14%
Zn 206.200†	-6.6	-0.00015	mg/L	0.000771	-0.00015	mg/L	0.000771	527.37%

Sequence No.: 14

Sample ID: RG64 ESPK TWC

Autosampler Location: 30

Date Collected: 8/11/2010 6:11:26 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 ESPK TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 ESPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2112179.7	101.2	%	0.53				0.53%
ScR 361.383	246383.6	104.0	%	0.50				0.49%
Ag 328.068†	95695.6	0.4842	mg/L	0.00208	0.4842	mg/L	0.00208	0.43%
Al 308.215†	2813.3	2.031	mg/L	0.0122	2.031	mg/L	0.0122	0.60%
As 188.979†	3222.8	2.005	mg/L	0.0059	2.005	mg/L	0.0059	0.29%
B 249.677†	57.8	0.02517	mg/L	0.000712	0.02517	mg/L	0.000712	2.83%
Ba 233.527†	15273.9	1.899	mg/L	0.0137	1.899	mg/L	0.0137	0.72%
Be 313.042†	144615.1	0.4917	mg/L	0.00123	0.4917	mg/L	0.00123	0.25%
Ca 317.933†	869585.8	91.54	mg/L	0.108	91.54	mg/L	0.108	0.12%
Cd 228.802†	27198.7	0.4874	mg/L	0.00224	0.4874	mg/L	0.00224	0.46%
Co 228.616†	24004.2	0.4554	mg/L	0.00253	0.4554	mg/L	0.00253	0.56%
Cr 267.716†	1939.3	0.4777	mg/L	0.00238	0.4777	mg/L	0.00238	0.50%
Cu 324.752†	102396.9	0.4725	mg/L	0.00194	0.4725	mg/L	0.00194	0.41%
Fe 273.955†	5511.6	4.654	mg/L	0.0333	4.654	mg/L	0.0333	0.72%
K 766.490†	34824.0	13.00	mg/L	0.090	13.00	mg/L	0.090	0.69%
Mg 279.077†	41114.7	36.78	mg/L	0.079	36.78	mg/L	0.079	0.21%
Mn 257.610†	410280.3	10.32	mg/L	0.024	10.32	mg/L	0.024	0.23%
Mo 202.031†	32.5	0.00281	mg/L	0.000270	0.00281	mg/L	0.000270	9.59%
Na 589.592†	153006.2	24.61	mg/L	0.070	24.61	mg/L	0.070	0.28%
Na 330.237†	619.4	25.77	mg/L	0.346	25.77	mg/L	0.346	1.34%
Ni 231.604†	848.0	0.4586	mg/L	0.00498	0.4586	mg/L	0.00498	1.09%
Pb 220.353†	15088.2	1.895	mg/L	0.0077	1.895	mg/L	0.0077	0.41%
Sb 206.836†	7.1	-0.00404	mg/L	0.003211	-0.00404	mg/L	0.003211	79.40%
Se 196.026†	2100.1	1.997	mg/L	0.0145	1.997	mg/L	0.0145	0.73%
Si 288.158†	17915.1	13.75	mg/L	0.115	13.75	mg/L	0.115	0.84%
Sn 189.927†	-62.7	-0.01046	mg/L	0.001064	-0.01046	mg/L	0.001064	10.18%
Sr 421.552†	519283.5	1.044	mg/L	0.0037	1.044	mg/L	0.0037	0.35%
Ti 334.903†	89.6	0.00079	mg/L	0.000408	0.00079	mg/L	0.000408	51.51%
Tl 190.801†	3898.5	1.855	mg/L	0.0018	1.855	mg/L	0.0018	0.10%
V 292.402†	60000.5	0.4914	mg/L	0.00275	0.4914	mg/L	0.00275	0.56%
Zn 206.200†	1046.1	0.4456	mg/L	0.00481	0.4456	mg/L	0.00481	1.08%

Sequence No.: 15
Sample ID: RG80 C SWC

Autosampler Location: 31
Date Collected: 8/11/2010 6:17:30 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 C SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2134008.6	102.2	%	0.21			0.20%
ScR 361.383	246325.2	104.0	%	0.33			0.31%
Ag 328.068†	41.6	0.00512	mg/L	0.000545	0.01025 mg/L	0.001090	10.64%
Al 308.215†	102653.1	74.37	mg/L	0.113	148.7 mg/L	0.23	0.15%
As 188.979†	35.7	0.03072	mg/L	0.003716	0.06144 mg/L	0.007432	12.10%
B 249.677†	135.3	0.06209	mg/L	0.001724	0.1242 mg/L	0.00345	2.78%
Ba 233.527†	4784.3	0.5880	mg/L	0.00273	1.176 mg/L	0.0055	0.46%
Be 313.042†	505.7	0.00081	mg/L	0.000039	0.00163 mg/L	0.000078	4.78%
Ca 317.933†	427996.0	45.06	mg/L	0.026	90.11 mg/L	0.052	0.06%
Cd 228.802†	1244.5	0.02250	mg/L	0.000097	0.04499 mg/L	0.000194	0.43%
Co 228.616†	2865.8	0.04648	mg/L	0.000202	0.09296 mg/L	0.000404	0.43%
Cr 267.716†	1815.7	0.4508	mg/L	0.00037	0.9015 mg/L	0.00074	0.08%
Cu 324.752†	141344.0	0.6630	mg/L	0.00568	1.326 mg/L	0.0114	0.86%
Fe 273.955†	168631.2	142.4	mg/L	1.01	284.8 mg/L	2.02	0.71%
K 766.490†	13146.9	4.909	mg/L	0.0116	9.819 mg/L	0.0232	0.24%
Mg 279.077†	29042.4	25.90	mg/L	0.045	51.80 mg/L	0.090	0.17%
Mn 257.610†	77286.0	1.944	mg/L	0.0041	3.889 mg/L	0.0082	0.21%
Mo 202.031†	337.9	0.02948	mg/L	0.000503	0.05896 mg/L	0.001006	1.71%
Na 589.592†	22051.4	3.547	mg/L	0.0044	7.094 mg/L	0.0088	0.12%
Na 330.237†	141.1	4.405	mg/L	0.2857	8.811 mg/L	0.5715	6.49%
Ni 231.604†	491.9	0.2665	mg/L	0.00169	0.5331 mg/L	0.00338	0.63%
Pb 220.353†	6358.0	0.8103	mg/L	0.00098	1.621 mg/L	0.0020	0.12%
Sb 206.836†	91.9	0.00558	mg/L	0.002578	0.01117 mg/L	0.005155	46.15%
Se 196.026†	-55.3	-0.01602	mg/L	0.002303	-0.03204 mg/L	0.004606	14.38%
Si 288.158†	7066.1	5.425	mg/L	0.0150	10.85 mg/L	0.030	0.28%
Sn 189.927†	101.6	0.03151	mg/L	0.001620	0.06302 mg/L	0.003240	5.14%
Sr 421.552†	114178.2	0.2296	mg/L	0.00062	0.4592 mg/L	0.00125	0.27%
Ti 334.903†	89804.9	4.487	mg/L	0.0022	8.974 mg/L	0.0043	0.05%
Tl 190.801†	-10.3	-0.01715	mg/L	0.004178	-0.03430 mg/L	0.008355	24.36%
V 292.402†	40302.1	0.3102	mg/L	0.00240	0.6205 mg/L	0.00479	0.77%
Zn 206.200†	17001.1	7.193	mg/L	0.0212	14.39 mg/L	0.042	0.30%

Sequence No.: 16
Sample ID: RG80 U SWC

Autosampler Location: 32
Date Collected: 8/11/2010 6:23:33 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 U SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

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Mean Data: RG80 U SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2139067.6	102.5 %		1.03			1.01%
ScR 361.383	248930.0	105.1 %		0.62			0.59%
Ag 328.068†	10549.6	0.07159 mg/L		0.000898	0.1432 mg/L	0.00180	1.25%
Al 308.215†	109692.0	79.46 mg/L		0.838	158.9 mg/L	1.68	1.05%
As 188.979†	215.2	0.1479 mg/L		0.00560	0.2958 mg/L	0.01120	3.79%
B 249.677†	84.8	0.03842 mg/L		0.000450	0.07683 mg/L	0.000900	1.17%
Ba 233.527†	4024.6	0.4772 mg/L		0.00233	0.9543 mg/L	0.00466	0.49%
Be 313.042†	680.0	0.00064 mg/L		0.000058	0.00129 mg/L	0.000116	8.99%
Ca 317.933†	400532.1	42.17 mg/L		0.508	84.33 mg/L	1.015	1.20%
Cd 228.802†	2737.3	0.04948 mg/L		0.000734	0.09895 mg/L	0.001467	1.48%
Co 228.616†	5791.4	0.09631 mg/L		0.001773	0.1926 mg/L	0.00355	1.84%
Cr 267.716†	6587.8	1.639 mg/L		0.0093	3.277 mg/L	0.0187	0.57%
Cu 324.752†	728911.9	3.461 mg/L		0.0073	6.801 mg/L	0.0146	0.21%
Fe 273.955†	575270.0	485.8 mg/L		5.78	971.5 mg/L	11.56	1.19%
K 766.490†	11395.8	4.255 mg/L		0.0553	8.511 mg/L	0.1106	1.30%
Mg 279.077†	36204.0	32.10 mg/L		0.121	64.21 mg/L	0.242	0.38%
Mn 257.610†	164031.7	4.128 mg/L		0.0446	8.256 mg/L	0.0893	1.08%
Mo 202.031†	1173.2	0.1032 mg/L		0.00230	0.2064 mg/L	0.00461	2.23%
Na 589.592†	23379.9	3.761 mg/L		0.0337	7.521 mg/L	0.0674	0.90%
Na 330.237†	140.7	3.675 mg/L		0.2060	7.350 mg/L	0.4120	5.61%
Ni 231.604†	2025.9	1.098 mg/L		0.0021	2.195 mg/L	0.0042	0.19%
Pb 220.353†	34658.1	4.343 mg/L		0.0155	8.686 mg/L	0.0311	0.36%
Sb 206.836†	312.0	0.04895 mg/L		0.004572	0.09791 mg/L	0.009145	9.34%
Se 196.026†	-144.4	-0.04499 mg/L		0.001931	-0.08998 mg/L	0.003861	4.29%
Si 288.158†	8086.2	6.210 mg/L		0.0289	12.42 mg/L	0.058	0.47%
Sn 189.927†	1742.3	0.4628 mg/L		0.00634	0.9256 mg/L	0.01267	1.37%
Sr 421.552†	115193.6	0.2316 mg/L		0.00243	0.4632 mg/L	0.00486	1.05%
Ti 334.903†	155897.6	7.790 mg/L		0.0913	15.58 mg/L	0.183	1.17%
Tl 190.801†	-59.3	-0.05113 mg/L		0.001047	-0.1023 mg/L	0.00209	2.05%
V 292.402†	74606.3	0.5541 mg/L		0.00179	1.108 mg/L	0.0036	0.32%
Zn 206.200†	27650.7	11.70 mg/L		0.125	23.39 mg/L	0.249	1.06%

Sequence No.: 17

Autosampler Location: 33

Sample ID: RG80 MBSPK SWC

Date Collected: 8/11/2010 6:29:27 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MBSPK SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG80 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2147646.0	102.9 %	0.49			0.48%
ScR 361.383	248270.5	104.8 %	0.21			0.20%
Ag 328.068†	93659.6	0.4761 mg/L	0.00178	0.9522 mg/L	0.00356	0.37%
Al 308.215†	2711.2	1.958 mg/L	0.0054	3.915 mg/L	0.0109	0.28%
As 188.979†	3135.4	1.951 mg/L	0.0224	3.901 mg/L	0.0448	1.15%
B 249.677†	-2.7	-0.00273 mg/L	0.001365	-0.00546 mg/L	0.002731	50.05%
Ba 233.527†	15071.5	1.874 mg/L	0.0066	3.747 mg/L	0.0133	0.35%
Be 313.042†	142887.8	0.4858 mg/L	0.00110	0.9716 mg/L	0.00220	0.23%
Ca 317.933†	92483.1	9.736 mg/L	0.0286	19.47 mg/L	0.057	0.29%
Cd 228.802†	26901.0	0.4821 mg/L	0.00291	0.9643 mg/L	0.00582	0.60%
Co 228.616†	24397.4	0.4629 mg/L	0.00208	0.9258 mg/L	0.00416	0.45%
Cr 267.716†	1930.2	0.4776 mg/L	0.00242	0.9551 mg/L	0.00485	0.51%
Cu 324.752†	103087.8	0.4754 mg/L	0.00211	0.9509 mg/L	0.00423	0.44%
Fe 273.955†	2327.1	1.965 mg/L	0.0069	3.929 mg/L	0.0137	0.35%
K 766.490†	26435.0	9.871 mg/L	0.0140	19.74 mg/L	0.028	0.14%
Mg 279.077†	10863.5	9.718 mg/L	0.0464	19.44 mg/L	0.093	0.48%
Mn 257.610†	18748.5	0.4723 mg/L	0.00208	0.9445 mg/L	0.00415	0.44%
Mo 202.031†	13.9	0.00116 mg/L	0.000274	0.00232 mg/L	0.000548	23.65%
Na 589.592†	60507.1	9.733 mg/L	0.0314	19.47 mg/L	0.063	0.32%
Na 330.237†	247.9	10.40 mg/L	0.122	20.80 mg/L	0.244	1.17%
Ni 231.604†	855.8	0.4628 mg/L	0.00379	0.9256 mg/L	0.00758	0.82%
Pb 220.353†	15151.6	1.903 mg/L	0.0066	3.807 mg/L	0.0133	0.35%
Sb 206.836†	2.2	-0.00586 mg/L	0.001315	-0.01172 mg/L	0.002630	22.44%
Se 196.026†	2047.1	1.955 mg/L	0.0242	3.911 mg/L	0.0485	1.24%
Si 288.158†	7.4	0.00747 mg/L	0.003886	0.01494 mg/L	0.007771	52.03%
Sn 189.927†	-12.3	-0.00242 mg/L	0.000783	-0.00485 mg/L	0.001566	32.29%
Sr 421.552†	240089.1	0.4828 mg/L	0.00091	0.9655 mg/L	0.00183	0.19%
Ti 334.903†	-4.5	-0.00072 mg/L	0.000476	-0.00144 mg/L	0.000952	66.11%
Tl 190.801†	3993.4	1.913 mg/L	0.0212	3.827 mg/L	0.0425	1.11%
V 292.402†	58974.7	0.4820 mg/L	0.00231	0.9639 mg/L	0.00462	0.48%
Zn 206.200†	1109.8	0.4697 mg/L	0.00194	0.9395 mg/L	0.00387	0.41%

Sequence No.: 18

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 8/11/2010 6:35:30 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2148770.5	102.9 %	0.42			0.41%
ScR 361.383	250707.4	105.9 %	0.48			0.45%
Ag 328.068†	183855.5	0.9345 mg/L	0.00829	0.9345 mg/L	0.00829	0.89%
Al 308.215†	2726.2	1.939 mg/L	0.0126	1.939 mg/L	0.0126	0.65%
As 188.979†	3081.3	1.917 mg/L	0.0140	1.917 mg/L	0.0140	0.73%
B 249.677†	1995.0	0.9178 mg/L	0.01126	0.9178 mg/L	0.01126	1.23%
Ba 233.527†	7561.3	0.9397 mg/L	0.00482	0.9397 mg/L	0.00482	0.51%
Be 313.042†	279352.2	0.9497 mg/L	0.00197	0.9497 mg/L	0.00197	0.21%
Ca 317.933†	18715.2	1.970 mg/L	0.0095	1.970 mg/L	0.0095	0.48%
Cd 228.802†	54794.2	0.9858 mg/L	0.01068	0.9858 mg/L	0.01068	1.08%
Co 228.616†	49573.3	0.9400 mg/L	0.01064	0.9400 mg/L	0.01064	1.13%
Cr 267.716†	3826.3	0.9472 mg/L	0.00598	0.9472 mg/L	0.00598	0.63%
Cu 324.752†	219264.4	1.011 mg/L	0.0097	1.011 mg/L	0.0097	0.96%
Fe 273.955†	2230.6	1.883 mg/L	0.0140	1.883 mg/L	0.0140	0.74%
K 766.490†	51694.8	19.30 mg/L	0.070	19.30 mg/L	0.070	0.36%
Mg 279.077†	2138.7	1.916 mg/L	0.0129	1.916 mg/L	0.0129	0.67%
Mn 257.610†	37905.8	0.9543 mg/L	0.00167	0.9543 mg/L	0.00167	0.17%
Mo 202.031†	10638.4	0.9436 mg/L	0.00270	0.9436 mg/L	0.00270	0.29%
Na 589.592†	294612.1	47.39 mg/L	0.220	47.39 mg/L	0.220	0.46%
Na 330.237†	1146.6	48.98 mg/L	0.264	48.98 mg/L	0.264	0.54%
Ni 231.604†	1737.3	0.9420 mg/L	0.00599	0.9420 mg/L	0.00599	0.64%
Pb 220.353†	15258.8	1.917 mg/L	0.0228	1.917 mg/L	0.0228	1.19%
Sb 206.836†	4175.8	2.050 mg/L	0.0121	2.050 mg/L	0.0121	0.59%
Se 196.026†	1997.4	1.907 mg/L	0.0189	1.907 mg/L	0.0189	0.99%
Si 288.158†	2645.3	2.032 mg/L	0.0096	2.032 mg/L	0.0096	0.47%
Sn 189.927†	3385.1	0.8878 mg/L	0.00318	0.8878 mg/L	0.00318	0.36%
Sr 421.552†	476652.8	0.9584 mg/L	0.00216	0.9584 mg/L	0.00216	0.23%
Ti 334.903†	19140.3	0.9555 mg/L	0.00192	0.9555 mg/L	0.00192	0.20%
Tl 190.801†	3930.7	1.877 mg/L	0.0099	1.877 mg/L	0.0099	0.53%
V 292.402†	115602.9	0.9502 mg/L	0.01062	0.9502 mg/L	0.01062	1.12%
Zn 206.200†	2231.0	0.9430 mg/L	0.00475	0.9430 mg/L	0.00475	0.50%

Sequence No.: 19

Sample ID: CB 2

Autosampler Location: 1

Date Collected: 8/11/2010 6:41:31 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2141006.7	102.6	%	0.42			0.41%
ScR 361.383	241411.5	101.9	%	0.40			0.39%
Ag 328.068†	-4.2	-0.00002	mg/L	0.000124	-0.00002 mg/L	0.000124	586.85%
Al 308.215†	11.1	0.00806	mg/L	0.011926	0.00806 mg/L	0.011926	148.01%
As 188.979†	-1.6	-0.00103	mg/L	0.002433	-0.00103 mg/L	0.002433	237.25%
B 249.677†	1.6	0.00072	mg/L	0.003766	0.00072 mg/L	0.003766	520.10%
Ba 233.527†	-0.1	-0.00002	mg/L	0.000818	-0.00002 mg/L	0.000818	>999.9%
Be 313.042†	21.4	0.00007	mg/L	0.000030	0.00007 mg/L	0.000030	41.07%
Ca 317.933†	9.3	0.00098	mg/L	0.001068	0.00098 mg/L	0.001068	109.04%
Cd 228.802†	0.1	0.00000	mg/L	0.000030	0.00000 mg/L	0.000030	642.87%
Co 228.616†	3.1	0.00006	mg/L	0.000155	0.00006 mg/L	0.000155	264.31%
Cr 267.716†	5.8	0.00144	mg/L	0.000676	0.00144 mg/L	0.000676	47.01%
Cu 324.752†	277.8	0.00128	mg/L	0.000394	0.00128 mg/L	0.000394	30.77%
Fe 273.955†	4.8	0.00402	mg/L	0.001439	0.00402 mg/L	0.001439	35.83%
K 766.490†	-106.4	-0.03972	mg/L	0.008080	-0.03972 mg/L	0.008080	20.34%
Mg 279.077†	0.6	0.00055	mg/L	0.006045	0.00055 mg/L	0.006045	>999.9%
Mn 257.610†	8.3	0.00021	mg/L	0.000095	0.00021 mg/L	0.000095	45.69%
Mo 202.031†	6.2	0.00055	mg/L	0.000263	0.00055 mg/L	0.000263	47.74%
Na 589.592†	105.3	0.01694	mg/L	0.005568	0.01694 mg/L	0.005568	32.87%
Na 330.237†	19.2	0.8225	mg/L	0.40125	0.8225 mg/L	0.40125	48.79%
Ni 231.604†	4.0	0.00216	mg/L	0.001551	0.00216 mg/L	0.001551	71.75%
Pb 220.353†	6.5	0.00082	mg/L	0.001397	0.00082 mg/L	0.001397	169.83%
Sb 206.836†	-9.4	-0.00465	mg/L	0.001506	-0.00465 mg/L	0.001506	32.37%
Se 196.026†	0.0	0.00000	mg/L	0.000561	0.00000 mg/L	0.000561	>999.9%
Si 288.158†	6.3	0.00482	mg/L	0.004549	0.00482 mg/L	0.004549	94.31%
Sn 189.927†	0.6	0.00015	mg/L	0.000894	0.00015 mg/L	0.000894	581.51%
Sr 421.552†	-13.9	-0.00003	mg/L	0.000089	-0.00003 mg/L	0.000089	318.76%
Ti 334.903†	-0.6	-0.00003	mg/L	0.000518	-0.00003 mg/L	0.000518	>999.9%
Tl 190.801†	-0.1	-0.00006	mg/L	0.000987	-0.00006 mg/L	0.000987	>999.9%
V 292.402†	-28.3	-0.00022	mg/L	0.000114	-0.00022 mg/L	0.000114	52.32%
Zn 206.200†	2.6	0.00111	mg/L	0.000586	0.00111 mg/L	0.000586	53.02%

Sequence No.: 20
 Sample ID: RG64 MB2 WMN

Autosampler Location: 34
 Date Collected: 8/11/2010 6:47:29 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB2 WMN

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

Mean Data: RG64 MB2 WMN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2201186.3	105.4	%	0.14			0.13%
ScR 361.383	249476.2	105.3	%	0.67			0.63%
Ag 328.068†	-1.7	-0.00001	mg/L	0.000176	-0.00001 mg/L	0.000176	>999.9%
Al 308.215†	13.6	0.00989	mg/L	0.009595	0.00989 mg/L	0.009595	97.02%
As 188.979†	-3.6	-0.00224	mg/L	0.001376	-0.00224 mg/L	0.001376	61.31%
B 249.677†	-7.9	-0.00365	mg/L	0.000133	-0.00365 mg/L	0.000133	3.65%
Ba 233.527†	-1.6	-0.00020	mg/L	0.000044	-0.00020 mg/L	0.000044	21.57%
Be 313.042†	-2.9	-0.00001	mg/L	0.000011	-0.00001 mg/L	0.000011	124.43%
Ca 317.933†	6.2	0.00065	mg/L	0.001229	0.00065 mg/L	0.001229	189.57%
Cd 228.802†	-4.5	-0.00008	mg/L	0.000075	-0.00008 mg/L	0.000075	97.78%
Co 228.616†	8.4	0.00016	mg/L	0.000072	0.00016 mg/L	0.000072	44.91%
Cr 267.716†	2.4	0.00060	mg/L	0.001362	0.00060 mg/L	0.001362	226.44%
Cu 324.752†	-624.2	-0.00288	mg/L	0.000153	-0.00288 mg/L	0.000153	5.31%
Fe 273.955†	-13.6	-0.01147	mg/L	0.001791	-0.01147 mg/L	0.001791	15.61%
K 766.490†	-193.2	-0.07215	mg/L	0.024802	-0.07215 mg/L	0.024802	34.37%
Mg 279.077†	4.5	0.00400	mg/L	0.002178	0.00400 mg/L	0.002178	54.48%
Mn 257.610†	-7.1	-0.00018	mg/L	0.000086	-0.00018 mg/L	0.000086	48.03%
Mo 202.031†	-3.6	-0.00032	mg/L	0.000478	-0.00032 mg/L	0.000478	151.24%
Na 589.592†	-81.3	-0.01308	mg/L	0.006122	-0.01308 mg/L	0.006122	46.79%
Na 330.237†	25.9	1.110	mg/L	0.3073	1.110 mg/L	0.3073	27.67%
Ni 231.604†	4.6	0.00246	mg/L	0.002068	0.00246 mg/L	0.002068	84.00%
Pb 220.353†	-12.7	-0.00159	mg/L	0.000365	-0.00159 mg/L	0.000365	22.94%
Sb 206.836†	-15.7	-0.00768	mg/L	0.002095	-0.00768 mg/L	0.002095	27.29%
Se 196.026†	3.0	0.00289	mg/L	0.002230	0.00289 mg/L	0.002230	77.12%
Si 288.158†	-3.8	-0.00289	mg/L	0.003186	-0.00289 mg/L	0.003186	110.21%
Sn 189.927†	14.1	0.00370	mg/L	0.000589	0.00370 mg/L	0.000589	15.92%
Sr 421.552†	-1.6	0.00000	mg/L	0.000016	0.00000 mg/L	0.000016	511.92%
Ti 334.903†	-6.3	-0.00032	mg/L	0.000339	-0.00032 mg/L	0.000339	107.58%
Tl 190.801†	-4.1	-0.00198	mg/L	0.000274	-0.00198 mg/L	0.000274	13.87%
V 292.402†	-42.7	-0.00034	mg/L	0.000121	-0.00034 mg/L	0.000121	35.28%
Zn 206.200†	-1.9	-0.00079	mg/L	0.000810	-0.00079 mg/L	0.000810	102.46%

Sequence No.: 21

Sample ID: RG64 MB1 TWC

Autosampler Location: 35

Date Collected: 8/11/2010 6:53:31 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB1 TWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 MB1 TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2176196.6	104.2	%	0.54				0.52%
ScR 361.383	242639.4	102.5	%	3.42				3.34%
Ag 328.068†	-6.1	-0.00003	mg/L	0.000154	-0.00003	mg/L	0.000154	495.61%
Al 308.215†	-4.2	-0.00301	mg/L	0.013230	-0.00301	mg/L	0.013230	439.68%
As 188.979†	-2.9	-0.00178	mg/L	0.000777	-0.00178	mg/L	0.000777	43.59%
B 249.677†	-9.5	-0.00439	mg/L	0.001653	-0.00439	mg/L	0.001653	37.69%
Ba 233.527†	7.4	0.00091	mg/L	0.000114	0.00091	mg/L	0.000114	12.47%
Be 313.042†	6.0	0.00002	mg/L	0.000115	0.00002	mg/L	0.000115	539.33%
Ca 317.933†	106.7	0.01124	mg/L	0.003001	0.01124	mg/L	0.003001	26.71%
Cd 228.802†	-8.5	-0.00015	mg/L	0.000071	-0.00015	mg/L	0.000071	47.26%
Co 228.616†	0.1	0.00000	mg/L	0.000062	0.00000	mg/L	0.000062	>999.9%
Cr 267.716†	3.5	0.00087	mg/L	0.001535	0.00087	mg/L	0.001535	176.79%
Cu 324.752†	-149.5	-0.00069	mg/L	0.000221	-0.00069	mg/L	0.000221	32.15%
Fe 273.955†	1.2	0.00099	mg/L	0.002630	0.00099	mg/L	0.002630	266.32%
K 766.490†	-45.4	-0.01697	mg/L	0.042426	-0.01697	mg/L	0.042426	250.02%
Mg 279.077†	0.7	0.00064	mg/L	0.001867	0.00064	mg/L	0.001867	290.29%
Mn 257.610†	10.8	0.00027	mg/L	0.000151	0.00027	mg/L	0.000151	55.44%
Mo 202.031†	-0.4	-0.00003	mg/L	0.000407	-0.00003	mg/L	0.000407	>999.9%
Na 589.592†	35.5	0.00571	mg/L	0.004185	0.00571	mg/L	0.004185	73.28%
Na 330.237†	11.4	0.4877	mg/L	0.38134	0.4877	mg/L	0.38134	78.20%
Ni 231.604†	1.3	0.00068	mg/L	0.002341	0.00068	mg/L	0.002341	342.71%
Pb 220.353†	-9.9	-0.00124	mg/L	0.000577	-0.00124	mg/L	0.000577	46.34%
Sb 206.836†	-9.7	-0.00478	mg/L	0.002836	-0.00478	mg/L	0.002836	59.38%
Se 196.026†	-3.1	-0.00292	mg/L	0.001986	-0.00292	mg/L	0.001986	67.97%
Si 288.158†	12.2	0.00937	mg/L	0.004433	0.00937	mg/L	0.004433	47.30%
Sn 189.927†	1.6	0.00041	mg/L	0.000539	0.00041	mg/L	0.000539	130.45%
Sr 421.552†	-22.9	-0.00005	mg/L	0.000077	-0.00005	mg/L	0.000077	167.74%
Ti 334.903†	-1.6	-0.00008	mg/L	0.000821	-0.00008	mg/L	0.000821	>999.9%
Tl 190.801†	-2.0	-0.00096	mg/L	0.000465	-0.00096	mg/L	0.000465	48.48%
V 292.402†	-37.3	-0.00030	mg/L	0.000166	-0.00030	mg/L	0.000166	55.93%
Zn 206.200†	0.1	0.00006	mg/L	0.000626	0.00006	mg/L	0.000626	>999.9%

Sequence No.: 22
Sample ID: RG64 G TWC

Autosampler Location: 36
Date Collected: 8/11/2010 6:59:33 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 G TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 G TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2157076.8	103.3	%	0.77				0.74%
ScR 361.383	249236.8	105.2	%	0.35				0.33%
Ag 328.068†	70.8	0.00013	mg/L	0.000213	0.00013	mg/L	0.000213	159.72%
Al 308.215†	18.5	0.01333	mg/L	0.006238	0.01333	mg/L	0.006238	46.78%
As 188.979†	-5.0	-0.00314	mg/L	0.003045	-0.00314	mg/L	0.003045	97.04%
B 249.677†	120.6	0.05557	mg/L	0.001044	0.05557	mg/L	0.001044	1.88%
Ba 233.527†	73.7	0.00916	mg/L	0.000200	0.00916	mg/L	0.000200	2.18%
Be 313.042†	-15.5	-0.00006	mg/L	0.000053	-0.00006	mg/L	0.000053	89.75%
Ca 317.933†	262745.9	27.66	mg/L	0.014	27.66	mg/L	0.014	0.05%
Cd 228.802†	-7.8	-0.00013	mg/L	0.000004	-0.00013	mg/L	0.000004	3.26%
Co 228.616†	39.3	0.00074	mg/L	0.000167	0.00074	mg/L	0.000167	22.52%
Cr 267.716†	13.0	0.00218	mg/L	0.000499	0.00218	mg/L	0.000499	22.88%
Cu 324.752†	-81.9	-0.00037	mg/L	0.000034	-0.00037	mg/L	0.000034	9.19%
Fe 273.955†	71.0	0.05997	mg/L	0.000538	0.05997	mg/L	0.000538	0.90%
K 766.490†	3723.5	1.390	mg/L	0.0160	1.390	mg/L	0.0160	1.15%
Mg 279.077†	24512.6	21.93	mg/L	0.022	21.93	mg/L	0.022	0.10%
Mn 257.610†	2126.6	0.05351	mg/L	0.000227	0.05351	mg/L	0.000227	0.42%
Mo 202.031†	16.9	0.00150	mg/L	0.000213	0.00150	mg/L	0.000213	14.19%
Na 589.592†	74109.7	11.92	mg/L	0.052	11.92	mg/L	0.052	0.44%
Na 330.237†	295.5	12.47	mg/L	0.390	12.47	mg/L	0.390	3.13%
Ni 231.604†	11.6	0.00630	mg/L	0.001603	0.00630	mg/L	0.001603	25.44%
Pb 220.353†	-11.7	-0.00147	mg/L	0.000179	-0.00147	mg/L	0.000179	12.17%
Sb 206.836†	-10.2	-0.00515	mg/L	0.003570	-0.00515	mg/L	0.003570	69.36%
Se 196.026†	-1.5	-0.00144	mg/L	0.004832	-0.00144	mg/L	0.004832	334.75%
Si 288.158†	19693.2	15.11	mg/L	0.100	15.11	mg/L	0.100	0.66%
Sn 189.927†	-26.6	-0.00488	mg/L	0.000938	-0.00488	mg/L	0.000938	19.23%
Sr 421.552†	95843.8	0.1927	mg/L	0.00028	0.1927	mg/L	0.00028	0.14%
Ti 334.903†	17.7	-0.00020	mg/L	0.000548	-0.00020	mg/L	0.000548	276.43%
Tl 190.801†	-4.2	-0.00209	mg/L	0.001897	-0.00209	mg/L	0.001897	90.81%
V 292.402†	299.8	0.00247	mg/L	0.000169	0.00247	mg/L	0.000169	6.87%
Zn 206.200†	-4.3	-0.00057	mg/L	0.000641	-0.00057	mg/L	0.000641	111.83%

Sequence No.: 23
Sample ID: RG64 H TWC

Autosampler Location: 37
Date Collected: 8/11/2010 7:05:33 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 H TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 H TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2142200.5	102.6	%	0.50				0.49%
ScR 361.383	249811.8	105.5	%	0.48				0.46%
Ag 328.068†	426.4	0.00007	mg/L	0.000297	0.00007	mg/L	0.000297	433.82%
Al 308.215†	90.6	0.06560	mg/L	0.003038	0.06560	mg/L	0.003038	4.63%
As 188.979†	-0.3	-0.00021	mg/L	0.000327	-0.00021	mg/L	0.000327	154.53%
B 249.677†	49.6	0.02286	mg/L	0.001550	0.02286	mg/L	0.001550	6.78%
Ba 233.527†	196.1	0.02425	mg/L	0.000943	0.02425	mg/L	0.000943	3.89%
Be 313.042†	-27.6	-0.00009	mg/L	0.000020	-0.00009	mg/L	0.000020	21.98%
Ca 317.933†	722712.7	76.08	mg/L	0.143	76.08	mg/L	0.143	0.19%
Cd 228.802†	-24.1	-0.00043	mg/L	0.000003	-0.00043	mg/L	0.000003	0.67%
Co 228.616†	204.2	0.00387	mg/L	0.000021	0.00387	mg/L	0.000021	0.54%
Cr 267.716†	11.8	0.00098	mg/L	0.000518	0.00098	mg/L	0.000518	52.74%
Cu 324.752†	-138.5	-0.00039	mg/L	0.000098	-0.00039	mg/L	0.000098	25.03%
Fe 273.955†	3300.1	2.787	mg/L	0.0196	2.787	mg/L	0.0196	0.70%
K 766.490†	7548.7	2.819	mg/L	0.0124	2.819	mg/L	0.0124	0.44%
Mg 279.077†	28103.1	25.14	mg/L	0.060	25.14	mg/L	0.060	0.24%
Mn 257.610†	363001.9	9.134	mg/L	0.0108	9.134	mg/L	0.0108	0.12%
Mo 202.031†	20.8	0.00185	mg/L	0.000359	0.00185	mg/L	0.000359	19.45%
Na 589.592†	87361.8	14.05	mg/L	0.028	14.05	mg/L	0.028	0.20%
Na 330.237†	373.9	15.51	mg/L	0.446	15.51	mg/L	0.446	2.88%
Ni 231.604†	9.1	0.00494	mg/L	0.001276	0.00494	mg/L	0.001276	25.81%
Pb 220.353†	-14.1	-0.00193	mg/L	0.001631	-0.00193	mg/L	0.001631	84.46%
Sb 206.836†	-13.7	-0.00738	mg/L	0.002603	-0.00738	mg/L	0.002603	35.29%
Se 196.026†	-6.2	-0.01438	mg/L	0.003290	-0.01438	mg/L	0.003290	22.88%
Si 288.158†	17609.7	13.51	mg/L	0.027	13.51	mg/L	0.027	0.20%
Sn 189.927†	-52.5	-0.00894	mg/L	0.000541	-0.00894	mg/L	0.000541	6.06%
Sr 421.552†	257617.3	0.5180	mg/L	0.00013	0.5180	mg/L	0.00013	0.02%
Ti 334.903†	78.2	0.00094	mg/L	0.000888	0.00094	mg/L	0.000888	94.46%
Tl 190.801†	12.9	-0.00588	mg/L	0.002341	-0.00588	mg/L	0.002341	39.79%
V 292.402†	-125.5	0.00001	mg/L	0.000105	0.00001	mg/L	0.000105	>999.9%
Zn 206.200†	-4.7	0.00065	mg/L	0.000975	0.00065	mg/L	0.000975	150.52%

Sequence No.: 24

Autosampler Location: 38

Sample ID: RG64 J WMN

Date Collected: 8/11/2010 7:11:35 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: RG64 J WMN

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 J WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2208928.8	105.8	%	0.29				0.27%
ScR 361.383	254151.7	107.3	%	0.74				0.69%
Ag 328.068†	159.2	0.00015	mg/L	0.000175	0.00015	mg/L	0.000175	119.94%
Al 308.215†	20.8	0.01497	mg/L	0.001689	0.01497	mg/L	0.001689	11.28%
As 188.979†	-7.3	-0.00453	mg/L	0.001337	-0.00453	mg/L	0.001337	29.50%
B 249.677†	31.6	0.01455	mg/L	0.001593	0.01455	mg/L	0.001593	10.95%
Ba 233.527†	142.2	0.01768	mg/L	0.000325	0.01768	mg/L	0.000325	1.84%
Be 313.042†	-23.5	-0.00008	mg/L	0.000004	-0.00008	mg/L	0.000004	5.21%
Ca 317.933†	564322.7	59.41	mg/L	0.303	59.41	mg/L	0.303	0.51%
Cd 228.802†	-18.9	-0.00033	mg/L	0.000064	-0.00033	mg/L	0.000064	19.55%
Co 228.616†	39.8	0.00075	mg/L	0.000081	0.00075	mg/L	0.000081	10.75%
Cr 267.716†	9.6	0.00046	mg/L	0.001587	0.00046	mg/L	0.001587	341.99%
Cu 324.752†	-594.9	-0.00274	mg/L	0.000080	-0.00274	mg/L	0.000080	2.93%
Fe 273.955†	-0.2	-0.00015	mg/L	0.002777	-0.00015	mg/L	0.002777	>999.9%
K 766.490†	8183.0	3.056	mg/L	0.0421	3.056	mg/L	0.0421	1.38%
Mg 279.077†	38373.9	34.33	mg/L	0.200	34.33	mg/L	0.200	0.58%
Mn 257.610†	43100.7	1.085	mg/L	0.0075	1.085	mg/L	0.0075	0.69%
Mo 202.031†	38.8	0.00344	mg/L	0.000065	0.00344	mg/L	0.000065	1.89%
Na 589.592†	70187.2	11.29	mg/L	0.075	11.29	mg/L	0.075	0.67%
Na 330.237†	290.5	12.05	mg/L	0.535	12.05	mg/L	0.535	4.44%
Ni 231.604†	29.2	0.01581	mg/L	0.002281	0.01581	mg/L	0.002281	14.43%
Pb 220.353†	-23.9	-0.00299	mg/L	0.000926	-0.00299	mg/L	0.000926	30.97%
Sb 206.836†	-20.8	-0.01033	mg/L	0.000983	-0.01033	mg/L	0.000983	9.51%
Se 196.026†	-5.6	-0.00647	mg/L	0.005142	-0.00647	mg/L	0.005142	79.50%
Si 288.158†	24845.0	19.07	mg/L	0.161	19.07	mg/L	0.161	0.84%
Sn 189.927†	-21.3	-0.00141	mg/L	0.001516	-0.00141	mg/L	0.001516	107.86%
Sr 421.552†	132058.7	0.2655	mg/L	0.00193	0.2655	mg/L	0.00193	0.73%
Ti 334.903†	6.4	-0.00200	mg/L	0.000574	-0.00200	mg/L	0.000574	28.66%
Tl 190.801†	-8.4	-0.00545	mg/L	0.002992	-0.00545	mg/L	0.002992	54.85%
V 292.402†	-22.2	0.00001	mg/L	0.000129	0.00001	mg/L	0.000129	921.82%
Zn 206.200†	-16.8	-0.00469	mg/L	0.001451	-0.00469	mg/L	0.001451	30.91%

Sequence No.: 25

Autosampler Location: 39

Sample ID: RG64 MDUP WMN

Date Collected: 8/11/2010 7:17:37 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MDUP WMN

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 MDUP WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2183644.0	104.6	%	0.60			0.58%
ScR 361.383	258314.4	109.1	%	0.70			0.65%
Ag 328.068†	434.2	-0.00002	mg/L	0.000208	-0.00002	mg/L	0.000208 >999.9%
Al 308.215†	33.2	0.02402	mg/L	0.012345	0.02402	mg/L	0.012345 51.40%
As 188.979†	-0.5	-0.00029	mg/L	0.001156	-0.00029	mg/L	0.001156 396.39%
B 249.677†	48.2	0.02221	mg/L	0.001027	0.02221	mg/L	0.001027 4.63%
Ba 233.527†	194.0	0.02403	mg/L	0.000240	0.02403	mg/L	0.000240 1.00%
Be 313.042†	-28.9	-0.00010	mg/L	0.000012	-0.00010	mg/L	0.000012 12.67%
Ca 317.933†	752491.1	79.22	mg/L	0.404	79.22	mg/L	0.404 0.51%
Cd 228.802†	-23.6	-0.00042	mg/L	0.000075	-0.00042	mg/L	0.000075 17.70%
Co 228.616†	209.6	0.00397	mg/L	0.000049	0.00397	mg/L	0.000049 1.24%
Cr 267.716†	14.0	0.00144	mg/L	0.000457	0.00144	mg/L	0.000457 31.77%
Cu 324.752†	-670.3	-0.00291	mg/L	0.000047	-0.00291	mg/L	0.000047 1.63%
Fe 273.955†	2350.8	1.985	mg/L	0.0207	1.985	mg/L	0.0207 1.04%
K 766.490†	7763.0	2.899	mg/L	0.0166	2.899	mg/L	0.0166 0.57%
Mg 279.077†	29178.8	26.10	mg/L	0.209	26.10	mg/L	0.209 0.80%
Mn 257.610†	378629.0	9.527	mg/L	0.0185	9.527	mg/L	0.0185 0.19%
Mo 202.031†	23.5	0.00208	mg/L	0.000256	0.00208	mg/L	0.000256 12.26%
Na 589.592†	91396.7	14.70	mg/L	0.041	14.70	mg/L	0.041 0.28%
Na 330.237†	383.5	15.90	mg/L	0.262	15.90	mg/L	0.262 1.65%
Ni 231.604†	8.3	0.00448	mg/L	0.001542	0.00448	mg/L	0.001542 34.41%
Pb 220.353†	-26.8	-0.00348	mg/L	0.000724	-0.00348	mg/L	0.000724 20.80%
Sb 206.836†	-23.9	-0.01223	mg/L	0.002031	-0.01223	mg/L	0.002031 16.60%
Se 196.026†	-0.4	-0.00932	mg/L	0.004951	-0.00932	mg/L	0.004951 53.15%
Si 288.158†	18691.4	14.34	mg/L	0.078	14.34	mg/L	0.078 0.55%
Sn 189.927†	-35.1	-0.00419	mg/L	0.001209	-0.00419	mg/L	0.001209 28.82%
Sr 421.552†	269706.4	0.5423	mg/L	0.00121	0.5423	mg/L	0.00121 0.22%
Ti 334.903†	27.3	-0.00173	mg/L	0.000264	-0.00173	mg/L	0.000264 15.25%
Tl 190.801†	15.3	-0.00525	mg/L	0.002939	-0.00525	mg/L	0.002939 55.97%
V 292.402†	-166.4	-0.00017	mg/L	0.000061	-0.00017	mg/L	0.000061 36.60%
Zn 206.200†	-11.7	-0.00219	mg/L	0.000765	-0.00219	mg/L	0.000765 34.91%

Sequence No.: 26
Sample ID: RG64 M WMN

Autosampler Location: 40
Date Collected: 8/11/2010 7:23:56 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 M WMN

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 M WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2211606.0	105.9	%	0.77			0.73%
ScR 361.383	256249.5	108.2	%	0.10			0.10%
Ag 328.068†	461.5	0.00012	mg/L	0.000182	0.00012	mg/L	0.000182 155.55%
Al 308.215†	26.4	0.01908	mg/L	0.002759	0.01908	mg/L	0.002759 14.46%
As 188.979†	-2.0	-0.00125	mg/L	0.002270	-0.00125	mg/L	0.002270 181.55%
B 249.677†	47.4	0.02183	mg/L	0.002882	0.02183	mg/L	0.002882 13.20%
Ba 233.527†	201.3	0.02493	mg/L	0.000311	0.02493	mg/L	0.000311 1.25%
Be 313.042†	-20.6	-0.00007	mg/L	0.000006	-0.00007	mg/L	0.000006 9.32%
Ca 317.933†	753688.7	79.34	mg/L	0.278	79.34	mg/L	0.278 0.35%
Cd 228.802†	-22.3	-0.00040	mg/L	0.000131	-0.00040	mg/L	0.000131 32.86%
Co 228.616†	218.0	0.00413	mg/L	0.000086	0.00413	mg/L	0.000086 2.08%
Cr 267.716†	19.9	0.00288	mg/L	0.000481	0.00288	mg/L	0.000481 16.71%
Cu 324.752†	-696.3	-0.00303	mg/L	0.000054	-0.00303	mg/L	0.000054 1.80%
Fe 273.955†	2335.2	1.972	mg/L	0.0129	1.972	mg/L	0.0129 0.66%
K 766.490†	7742.4	2.891	mg/L	0.0275	2.891	mg/L	0.0275 0.95%
Mg 279.077†	29516.9	26.41	mg/L	0.103	26.41	mg/L	0.103 0.39%
Mn 257.610†	379267.4	9.543	mg/L	0.0260	9.543	mg/L	0.0260 0.27%
Mo 202.031†	23.2	0.00206	mg/L	0.000318	0.00206	mg/L	0.000318 15.45%
Na 589.592†	91791.4	14.76	mg/L	0.012	14.76	mg/L	0.012 0.08%
Na 330.237†	386.8	16.04	mg/L	0.360	16.04	mg/L	0.360 2.24%
Ni 231.604†	12.8	0.00691	mg/L	0.001872	0.00691	mg/L	0.001872 27.11%
Pb 220.353†	-27.7	-0.00359	mg/L	0.001168	-0.00359	mg/L	0.001168 32.57%
Sb 206.836†	-21.6	-0.01117	mg/L	0.001167	-0.01117	mg/L	0.001167 10.45%
Se 196.026†	8.4	-0.00096	mg/L	0.004704	-0.00096	mg/L	0.004704 491.66%
Si 288.158†	18946.5	14.54	mg/L	0.050	14.54	mg/L	0.050 0.34%
Sn 189.927†	-45.1	-0.00679	mg/L	0.000458	-0.00679	mg/L	0.000458 6.74%
Sr 421.552†	270167.2	0.5432	mg/L	0.00191	0.5432	mg/L	0.00191 0.35%
Ti 334.903†	46.0	-0.00080	mg/L	0.001046	-0.00080	mg/L	0.001046 130.71%
Tl 190.801†	15.9	-0.00496	mg/L	0.000999	-0.00496	mg/L	0.000999 20.12%
V 292.402†	-185.9	-0.00031	mg/L	0.000102	-0.00031	mg/L	0.000102 32.66%
Zn 206.200†	-13.0	-0.00275	mg/L	0.001736	-0.00275	mg/L	0.001736 63.12%

Sequence No.: 27

Autosampler Location: 41

Sample ID: RG64 MSPK WMN

Date Collected: 8/11/2010 7:30:14 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MSPK WMN

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 MSPK WMN

Analyte	Mean Corrected		Calib.		Sample			RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	
ScA 357.253	2178281.7	104.3	%	0.49				0.47%
ScR 361.383	253128.0	106.9	%	0.55				0.52%
Ag 328.068†	80743.6	0.4083	mg/L	0.01438	0.4083	mg/L	0.01438	3.52%
Al 308.215†	2839.9	2.051	mg/L	0.0118	2.051	mg/L	0.0118	0.68%
As 188.979†	3340.8	2.078	mg/L	0.0141	2.078	mg/L	0.0141	0.68%
B 249.677†	52.1	0.02247	mg/L	0.001878	0.02247	mg/L	0.001878	8.36%
Ba 233.527†	15462.2	1.922	mg/L	0.0138	1.922	mg/L	0.0138	0.72%
Be 313.042†	144576.6	0.4915	mg/L	0.00157	0.4915	mg/L	0.00157	0.32%
Ca 317.933†	828012.8	87.17	mg/L	0.365	87.17	mg/L	0.365	0.42%
Cd 228.802†	28653.0	0.5135	mg/L	0.00118	0.5135	mg/L	0.00118	0.23%
Co 228.616†	25032.1	0.4750	mg/L	0.00054	0.4750	mg/L	0.00054	0.11%
Cr 267.716†	1990.9	0.4906	mg/L	0.00235	0.4906	mg/L	0.00235	0.48%
Cu 324.752†	102370.6	0.4723	mg/L	0.00026	0.4723	mg/L	0.00026	0.05%
Fe 273.955†	4627.5	3.907	mg/L	0.0232	3.907	mg/L	0.0232	0.59%
K 766.490†	34931.2	13.04	mg/L	0.037	13.04	mg/L	0.037	0.29%
Mg 279.077†	39810.8	35.61	mg/L	0.172	35.61	mg/L	0.172	0.48%
Mn 257.610†	392064.0	9.866	mg/L	0.0350	9.866	mg/L	0.0350	0.35%
Mo 202.031†	27.8	0.00239	mg/L	0.000485	0.00239	mg/L	0.000485	20.30%
Na 589.592†	152121.8	24.47	mg/L	0.088	24.47	mg/L	0.088	0.36%
Na 330.237†	612.9	25.52	mg/L	0.094	25.52	mg/L	0.094	0.37%
Ni 231.604†	859.8	0.4649	mg/L	0.00343	0.4649	mg/L	0.00343	0.74%
Pb 220.353†	15428.2	1.938	mg/L	0.0055	1.938	mg/L	0.0055	0.29%
Sb 206.836†	-3.5	-0.00931	mg/L	0.000482	-0.00931	mg/L	0.000482	5.17%
Se 196.026†	2319.8	2.207	mg/L	0.0288	2.207	mg/L	0.0288	1.31%
Si 288.158†	18599.8	14.28	mg/L	0.103	14.28	mg/L	0.103	0.72%
Sn 189.927†	-53.7	-0.00837	mg/L	0.000685	-0.00837	mg/L	0.000685	8.19%
Sr 421.552†	510150.4	1.026	mg/L	0.0030	1.026	mg/L	0.0030	0.29%
Ti 334.903†	36.8	-0.00168	mg/L	0.000655	-0.00168	mg/L	0.000655	39.06%
Tl 190.801†	4124.2	1.964	mg/L	0.0159	1.964	mg/L	0.0159	0.81%
V 292.402†	60692.0	0.4972	mg/L	0.00160	0.4972	mg/L	0.00160	0.32%
Zn 206.200†	1053.8	0.4487	mg/L	0.00360	0.4487	mg/L	0.00360	0.80%

Sequence No.: 28

Autosampler Location: 42

Sample ID: RG64 MB2SPK WMN

Date Collected: 8/11/2010 7:36:18 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: RG64 MB2SPK WMN

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 MB2SPK WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2216011.3	106.1	%	0.55				0.52%
ScR 361.383	256770.0	108.4	%	0.40				0.37%
Ag 328.068†	85658.9	0.4354	mg/L	0.00802	0.4354	mg/L	0.00802	1.84%
Al 308.215†	2791.2	2.015	mg/L	0.0130	2.015	mg/L	0.0130	0.64%
As 188.979†	3284.3	2.043	mg/L	0.0136	2.043	mg/L	0.0136	0.67%
B 249.677†	-6.9	-0.00479	mg/L	0.001673	-0.00479	mg/L	0.001673	34.96%
Ba 233.527†	15607.7	1.940	mg/L	0.0072	1.940	mg/L	0.0072	0.37%
Be 313.042†	145978.6	0.4963	mg/L	0.00257	0.4963	mg/L	0.00257	0.52%
Ca 317.933†	93650.9	9.859	mg/L	0.0478	9.859	mg/L	0.0478	0.48%
Cd 228.802†	28834.3	0.5169	mg/L	0.00590	0.5169	mg/L	0.00590	1.14%
Co 228.616†	25844.8	0.4904	mg/L	0.00478	0.4904	mg/L	0.00478	0.98%
Cr 267.716†	1994.2	0.4934	mg/L	0.00259	0.4934	mg/L	0.00259	0.53%
Cu 324.752†	106305.4	0.4903	mg/L	0.00334	0.4903	mg/L	0.00334	0.68%
Fe 273.955†	2341.0	1.976	mg/L	0.0031	1.976	mg/L	0.0031	0.16%
K 766.490†	26979.1	10.07	mg/L	0.023	10.07	mg/L	0.023	0.23%
Mg 279.077†	10954.4	9.800	mg/L	0.0173	9.800	mg/L	0.0173	0.18%
Mn 257.610†	19539.5	0.4922	mg/L	0.00095	0.4922	mg/L	0.00095	0.19%
Mo 202.031†	7.9	0.00062	mg/L	0.000088	0.00062	mg/L	0.000088	14.07%
Na 589.592†	61740.0	9.931	mg/L	0.0309	9.931	mg/L	0.0309	0.31%
Na 330.237†	258.4	10.84	mg/L	0.463	10.84	mg/L	0.463	4.27%
Ni 231.604†	904.8	0.4893	mg/L	0.00495	0.4893	mg/L	0.00495	1.01%
Pb 220.353†	15788.0	1.983	mg/L	0.0175	1.983	mg/L	0.0175	0.88%
Sb 206.836†	-3.6	-0.00892	mg/L	0.002190	-0.00892	mg/L	0.002190	24.57%
Se 196.026†	2314.4	2.211	mg/L	0.0147	2.211	mg/L	0.0147	0.67%
Si 288.158†	-5.6	-0.00251	mg/L	0.003149	-0.00251	mg/L	0.003149	125.53%
Sn 189.927†	-11.2	-0.00214	mg/L	0.000381	-0.00214	mg/L	0.000381	17.82%
Sr 421.552†	244760.0	0.4921	mg/L	0.00069	0.4921	mg/L	0.00069	0.14%
Ti 334.903†	-24.1	-0.00170	mg/L	0.000307	-0.00170	mg/L	0.000307	18.00%
Tl 190.801†	4206.9	2.016	mg/L	0.0150	2.016	mg/L	0.0150	0.74%
V 292.402†	60698.8	0.4961	mg/L	0.00376	0.4961	mg/L	0.00376	0.76%
Zn 206.200†	1139.2	0.4822	mg/L	0.00264	0.4822	mg/L	0.00264	0.55%

Sequence No.: 29

Autosampler Location: 43

Sample ID: RG64 MB1SPK TWC

Date Collected: 8/11/2010 7:42:20 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB1SPK TWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG64 MB1SPK TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2188226.0	104.8	%	0.27			0.25%
ScR 361.383	246297.0	104.0	%	0.62			0.60%
Ag 328.068†	91907.3	0.4672	mg/L	0.00400	0.4672	mg/L	0.00400 0.86%
Al 308.215†	2685.2	1.939	mg/L	0.0144	1.939	mg/L	0.0144 0.74%
As 188.979†	3070.3	1.910	mg/L	0.0073	1.910	mg/L	0.0073 0.38%
B 249.677†	-5.0	-0.00381	mg/L	0.000890	-0.00381	mg/L	0.000890 23.39%
Ba 233.527†	15067.5	1.873	mg/L	0.0092	1.873	mg/L	0.0092 0.49%
Be 313.042†	140684.7	0.4783	mg/L	0.00159	0.4783	mg/L	0.00159 0.33%
Ca 317.933†	91100.4	9.590	mg/L	0.0416	9.590	mg/L	0.0416 0.43%
Cd 228.802†	26557.6	0.4760	mg/L	0.00473	0.4760	mg/L	0.00473 0.99%
Co 228.616†	24049.8	0.4563	mg/L	0.00459	0.4563	mg/L	0.00459 1.01%
Cr 267.716†	1910.7	0.4727	mg/L	0.00506	0.4727	mg/L	0.00506 1.07%
Cu 324.752†	102660.3	0.4735	mg/L	0.00311	0.4735	mg/L	0.00311 0.66%
Fe 273.955†	2292.3	1.935	mg/L	0.0130	1.935	mg/L	0.0130 0.67%
K 766.490†	26320.9	9.829	mg/L	0.0269	9.829	mg/L	0.0269 0.27%
Mg 279.077†	10844.2	9.701	mg/L	0.0549	9.701	mg/L	0.0549 0.57%
Mn 257.610†	18884.6	0.4757	mg/L	0.00091	0.4757	mg/L	0.00091 0.19%
Mo 202.031†	11.4	0.00094	mg/L	0.000196	0.00094	mg/L	0.000196 20.96%
Na 589.592†	60389.5	9.714	mg/L	0.0154	9.714	mg/L	0.0154 0.16%
Na 330.237†	249.9	10.49	mg/L	0.056	10.49	mg/L	0.056 0.53%
Ni 231.604†	858.7	0.4644	mg/L	0.00403	0.4644	mg/L	0.00403 0.87%
Pb 220.353†	15022.9	1.887	mg/L	0.0209	1.887	mg/L	0.0209 1.11%
Sb 206.836†	1.5	-0.00612	mg/L	0.001656	-0.00612	mg/L	0.001656 27.07%
Se 196.026†	1998.8	1.909	mg/L	0.0057	1.909	mg/L	0.0057 0.30%
Si 288.158†	6.8	0.00696	mg/L	0.000955	0.00696	mg/L	0.000955 13.73%
Sn 189.927†	-12.5	-0.00249	mg/L	0.001276	-0.00249	mg/L	0.001276 51.28%
Sr 421.552†	238332.5	0.4792	mg/L	0.00107	0.4792	mg/L	0.00107 0.22%
Ti 334.903†	-7.9	-0.00088	mg/L	0.000359	-0.00088	mg/L	0.000359 40.77%
Tl 190.801†	3912.0	1.874	mg/L	0.0101	1.874	mg/L	0.0101 0.54%
V 292.402†	58437.2	0.4776	mg/L	0.00396	0.4776	mg/L	0.00396 0.83%
Zn 206.200†	1081.9	0.4579	mg/L	0.00308	0.4579	mg/L	0.00308 0.67%

Sequence No.: 30

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/11/2010 7:48:22 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2163928.7	103.7 %	0.70			0.67%
ScR 361.383	247645.5	104.6 %	0.67			0.64%
Ag 328.068†	178530.8	0.9075 mg/L	0.00264	0.9075 mg/L	0.00264	0.29%
Al 308.215†	2693.0	1.915 mg/L	0.0116	1.915 mg/L	0.0116	0.61%
As 188.979†	3037.6	1.889 mg/L	0.0111	1.889 mg/L	0.0111	0.59%
B 249.677†	1960.5	0.9020 mg/L	0.00183	0.9020 mg/L	0.00183	0.20%
Ba 233.527†	7421.1	0.9223 mg/L	0.00436	0.9223 mg/L	0.00436	0.47%
Be 313.042†	271063.0	0.9215 mg/L	0.00336	0.9215 mg/L	0.00336	0.36%
Ca 317.933†	18207.9	1.917 mg/L	0.0086	1.917 mg/L	0.0086	0.45%
Cd 228.802†	53547.8	0.9633 mg/L	0.00461	0.9633 mg/L	0.00461	0.48%
Co 228.616†	48414.9	0.9180 mg/L	0.00256	0.9180 mg/L	0.00256	0.28%
Cr 267.716†	3739.6	0.9257 mg/L	0.00594	0.9257 mg/L	0.00594	0.64%
Cu 324.752†	214553.4	0.9888 mg/L	0.00434	0.9888 mg/L	0.00434	0.44%
Fe 273.955†	2175.9	1.837 mg/L	0.0103	1.837 mg/L	0.0103	0.56%
K 766.490†	51526.6	19.24 mg/L	0.044	19.24 mg/L	0.044	0.23%
Mg 279.077†	2094.3	1.877 mg/L	0.0082	1.877 mg/L	0.0082	0.44%
Mn 257.610†	37180.1	0.9360 mg/L	0.00282	0.9360 mg/L	0.00282	0.30%
Mo 202.031†	10502.1	0.9315 mg/L	0.00601	0.9315 mg/L	0.00601	0.64%
Na 589.592†	293408.0	47.20 mg/L	0.197	47.20 mg/L	0.197	0.42%
Na 330.237†	1129.0	48.23 mg/L	0.357	48.23 mg/L	0.357	0.74%
Ni 231.604†	1701.1	0.9223 mg/L	0.00859	0.9223 mg/L	0.00859	0.93%
Pb 220.353†	14902.0	1.872 mg/L	0.0078	1.872 mg/L	0.0078	0.42%
Sb 206.836†	4117.2	2.021 mg/L	0.0130	2.021 mg/L	0.0130	0.65%
Se 196.026†	1966.9	1.877 mg/L	0.0080	1.877 mg/L	0.0080	0.42%
Si 288.158†	2625.6	2.017 mg/L	0.0054	2.017 mg/L	0.0054	0.27%
Sn 189.927†	3342.1	0.8765 mg/L	0.00445	0.8765 mg/L	0.00445	0.51%
Sr 421.552†	470531.5	0.9461 mg/L	0.00074	0.9461 mg/L	0.00074	0.08%
Ti 334.903†	18794.8	0.9383 mg/L	0.00221	0.9383 mg/L	0.00221	0.24%
Tl 190.801†	3879.0	1.852 mg/L	0.0076	1.852 mg/L	0.0076	0.41%
V 292.402†	113187.8	0.9304 mg/L	0.00519	0.9304 mg/L	0.00519	0.56%
Zn 206.200†	2160.1	0.9130 mg/L	0.00758	0.9130 mg/L	0.00758	0.83%

Sequence No.: 31

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 8/11/2010 7:54:24 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2172633.1	104.1	%	0.44			0.42%
ScR 361.383	246579.8	104.1	%	0.84			0.81%
Ag 328.068†	7.2	0.00004	mg/L	0.000149	0.00004 mg/L	0.000149	413.18%
Al 308.215†	6.6	0.00480	mg/L	0.002864	0.00480 mg/L	0.002864	59.68%
As 188.979†	-1.4	-0.00086	mg/L	0.002838	-0.00086 mg/L	0.002838	331.01%
B 249.677†	0.3	0.00014	mg/L	0.003265	0.00014 mg/L	0.003265	>999.9%
Ba 233.527†	1.0	0.00013	mg/L	0.000313	0.00013 mg/L	0.000313	247.41%
Be 313.042†	10.7	0.00004	mg/L	0.000044	0.00004 mg/L	0.000044	118.29%
Ca 317.933†	12.5	0.00132	mg/L	0.001424	0.00132 mg/L	0.001424	107.82%
Cd 228.802†	2.4	0.00005	mg/L	0.000085	0.00005 mg/L	0.000085	186.01%
Co 228.616†	5.5	0.00011	mg/L	0.000064	0.00011 mg/L	0.000064	60.51%
Cr 267.716†	1.3	0.00032	mg/L	0.000679	0.00032 mg/L	0.000679	212.87%
Cu 324.752†	137.5	0.00063	mg/L	0.000124	0.00063 mg/L	0.000124	19.56%
Fe 273.955†	0.2	0.00014	mg/L	0.001365	0.00014 mg/L	0.001365	956.94%
K 766.490†	-133.3	-0.04978	mg/L	0.027577	-0.04978 mg/L	0.027577	55.40%
Mg 279.077†	-0.7	-0.00064	mg/L	0.002791	-0.00064 mg/L	0.002791	433.78%
Mn 257.610†	31.1	0.00078	mg/L	0.000022	0.00078 mg/L	0.000022	2.81%
Mo 202.031†	5.5	0.00048	mg/L	0.000116	0.00048 mg/L	0.000116	24.05%
Na 589.592†	179.1	0.02881	mg/L	0.006512	0.02881 mg/L	0.006512	22.60%
Na 330.237†	17.8	0.7625	mg/L	0.18197	0.7625 mg/L	0.18197	23.86%
Ni 231.604†	8.5	0.00462	mg/L	0.001989	0.00462 mg/L	0.001989	43.00%
Pb 220.353†	5.5	0.00069	mg/L	0.000737	0.00069 mg/L	0.000737	107.48%
Sb 206.836†	-14.6	-0.00720	mg/L	0.000385	-0.00720 mg/L	0.000385	5.35%
Se 196.026†	-0.3	-0.00029	mg/L	0.003015	-0.00029 mg/L	0.003015	>999.9%
Si 288.158†	9.5	0.00730	mg/L	0.001525	0.00730 mg/L	0.001525	20.91%
Sn 189.927†	3.0	0.00078	mg/L	0.000910	0.00078 mg/L	0.000910	116.08%
Sr 421.552†	-20.9	-0.00004	mg/L	0.000065	-0.00004 mg/L	0.000065	154.05%
Ti 334.903†	-27.3	-0.00137	mg/L	0.001079	-0.00137 mg/L	0.001079	79.00%
Tl 190.801†	-1.1	-0.00055	mg/L	0.000800	-0.00055 mg/L	0.000800	146.40%
V 292.402†	-34.5	-0.00027	mg/L	0.000093	-0.00027 mg/L	0.000093	34.11%
Zn 206.200†	0.1	0.00003	mg/L	0.000594	0.00003 mg/L	0.000594	>999.9%

Sequence No.: 32
Sample ID: RG87 MB TWC

Autosampler Location: 44
Date Collected: 8/11/2010 8:00:22 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 MB TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG87 MB TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2222689.2		106.5 %	0.76				0.72%
ScR 361.383	247733.2		104.6 %	0.91				0.87%
Ag 328.068†	39.6	0.00020	mg/L	0.000145	0.00020	mg/L	0.000145	72.33%
Al 308.215†	-5.3	-0.00380	mg/L	0.004925	-0.00380	mg/L	0.004925	129.63%
As 188.979†	-0.5	-0.00032	mg/L	0.001327	-0.00032	mg/L	0.001327	414.87%
B 249.677†	-3.5	-0.00162	mg/L	0.003028	-0.00162	mg/L	0.003028	186.75%
Ba 233.527†	-6.6	-0.00082	mg/L	0.000121	-0.00082	mg/L	0.000121	14.80%
Be 313.042†	-4.5	-0.00001	mg/L	0.000029	-0.00001	mg/L	0.000029	198.22%
Ca 317.933†	99.1	0.01043	mg/L	0.000159	0.01043	mg/L	0.000159	1.52%
Cd 228.802†	-4.9	-0.00009	mg/L	0.000054	-0.00009	mg/L	0.000054	61.41%
Co 228.616†	8.6	0.00017	mg/L	0.000062	0.00017	mg/L	0.000062	37.13%
Cr 267.716†	2.2	0.00054	mg/L	0.001103	0.00054	mg/L	0.001103	205.21%
Cu 324.752†	-107.0	-0.00049	mg/L	0.000142	-0.00049	mg/L	0.000142	28.84%
Fe 273.955†	0.4	0.00038	mg/L	0.003174	0.00038	mg/L	0.003174	837.75%
K 766.490†	-160.0	-0.05973	mg/L	0.018428	-0.05973	mg/L	0.018428	30.85%
Mg 279.077†	-2.5	-0.00221	mg/L	0.001629	-0.00221	mg/L	0.001629	73.81%
Mn 257.610†	33.7	0.00085	mg/L	0.000092	0.00085	mg/L	0.000092	10.90%
Mo 202.031†	-0.9	-0.00008	mg/L	0.000680	-0.00008	mg/L	0.000680	882.52%
Na 589.592†	32.8	0.00527	mg/L	0.000994	0.00527	mg/L	0.000994	18.87%
Na 330.237†	10.9	0.4658	mg/L	0.33450	0.4658	mg/L	0.33450	71.81%
Ni 231.604†	1.1	0.00058	mg/L	0.002030	0.00058	mg/L	0.002030	350.21%
Pb 220.353†	-4.2	-0.00053	mg/L	0.000932	-0.00053	mg/L	0.000932	175.10%
Sb 206.836†	-11.1	-0.00548	mg/L	0.000576	-0.00548	mg/L	0.000576	10.52%
Se 196.026†	0.7	0.00068	mg/L	0.004020	0.00068	mg/L	0.004020	594.84%
Si 288.158†	4.4	0.00334	mg/L	0.004632	0.00334	mg/L	0.004632	138.50%
Sn 189.927†	-0.8	-0.00020	mg/L	0.000843	-0.00020	mg/L	0.000843	423.61%
Sr 421.552†	-42.4	-0.00009	mg/L	0.000092	-0.00009	mg/L	0.000092	107.43%
Ti 334.903†	-29.4	-0.00147	mg/L	0.000888	-0.00147	mg/L	0.000888	60.32%
Tl 190.801†	-4.4	-0.00210	mg/L	0.001535	-0.00210	mg/L	0.001535	73.24%
V 292.402†	-37.3	-0.00030	mg/L	0.000170	-0.00030	mg/L	0.000170	56.91%
Zn 206.200†	-0.4	-0.00018	mg/L	0.000627	-0.00018	mg/L	0.000627	357.78%

Sequence No.: 33

Sample ID: RG87 B TWC

Autosampler Location: 45

Date Collected: 8/11/2010 8:06:23 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 B TWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG87 B TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2132066.5	102.1	%	0.87			0.86%
ScR 361.383	247053.7	104.3	%	0.89			0.85%
Ag 328.068†	223.7	0.00016	mg/L	0.000340	0.00016 mg/L	0.000340	212.23%
Al 308.215†	20.0	0.01439	mg/L	0.007998	0.01439 mg/L	0.007998	55.59%
As 188.979†	17.6	0.01094	mg/L	0.002842	0.01094 mg/L	0.002842	25.98%
B 249.677†	1453.7	0.6698	mg/L	0.00238	0.6698 mg/L	0.00238	0.36%
Ba 233.527†	782.5	0.09715	mg/L	0.000957	0.09715 mg/L	0.000957	0.98%
Be 313.042†	-20.3	-0.00007	mg/L	0.000029	-0.00007 mg/L	0.000029	39.45%
Ca 317.933†	776434.3	81.74	mg/L	0.148	81.74 mg/L	0.148	0.18%
Cd 228.802†	-2.2	-0.00005	mg/L	0.000038	-0.00005 mg/L	0.000038	72.79%
Co 228.616†	486.9	0.00921	mg/L	0.000016	0.00921 mg/L	0.000016	0.17%
Cr 267.716†	26.9	0.00387	mg/L	0.000549	0.00387 mg/L	0.000549	14.18%
Cu 324.752†	-24.6	0.00016	mg/L	0.000171	0.00016 mg/L	0.000171	110.54%
Fe 273.955†	3560.5	3.006	mg/L	0.0224	3.006 mg/L	0.0224	0.75%
K 766.490†	145019.4	54.15	mg/L	0.198	54.15 mg/L	0.198	0.37%
Mg 279.077†	61516.2	55.03	mg/L	0.400	55.03 mg/L	0.400	0.73%
Mn 257.610†	100363.3	2.525	mg/L	0.0171	2.525 mg/L	0.0171	0.68%
Mo 202.031†	36.6	0.00325	mg/L	0.000149	0.00325 mg/L	0.000149	4.59%
Na 589.592†	1172835.4	188.7	mg/L	0.96	188.7 mg/L	0.96	0.51%
Na 330.237†	4506.9	192.4	mg/L	0.66	192.4 mg/L	0.66	0.35%
Ni 231.604†	51.6	0.02797	mg/L	0.001438	0.02797 mg/L	0.001438	5.14%
Pb 220.353†	-14.6	-0.00202	mg/L	0.001337	-0.00202 mg/L	0.001337	66.17%
Sb 206.836†	-14.3	-0.00773	mg/L	0.000600	-0.00773 mg/L	0.000600	7.76%
Se 196.026†	-5.5	-0.00725	mg/L	0.005681	-0.00725 mg/L	0.005681	78.38%
Si 288.158†	10482.3	8.050	mg/L	0.0257	8.050 mg/L	0.0257	0.32%
Sn 189.927†	-55.2	-0.00851	mg/L	0.000811	-0.00851 mg/L	0.000811	9.53%
Sr 421.552†	339121.5	0.6819	mg/L	0.00191	0.6819 mg/L	0.00191	0.28%
Ti 334.903†	113.1	0.00246	mg/L	0.001752	0.00246 mg/L	0.001752	71.16%
Tl 190.801†	-8.2	-0.00736	mg/L	0.002958	-0.00736 mg/L	0.002958	40.17%
V 292.402†	148.2	0.00128	mg/L	0.000053	0.00128 mg/L	0.000053	4.12%
Zn 206.200†	-4.3	0.00165	mg/L	0.001214	0.00165 mg/L	0.001214	73.49%

Sequence No.: 34
 Sample ID: RG64 K WMN

Autosampler Location: 46
 Date Collected: 8/11/2010 8:12:44 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 K WMN

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG64 K WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2239544.9	107.3	%	0.50			0.46%
ScR 361.383	260728.3	110.1	%	0.77			0.70%
Ag 328.068†	96.3	-0.00016	mg/L	0.000135	-0.00016	mg/L	0.000135 84.84%
Al 308.215†	26.8	0.01922	mg/L	0.004576	0.01922	mg/L	0.004576 23.81%
As 188.979†	-0.1	-0.00006	mg/L	0.001003	-0.00006	mg/L	0.001003 >999.9%
B 249.677†	76.7	0.03537	mg/L	0.002006	0.03537	mg/L	0.002006 5.67%
Ba 233.527†	204.3	0.02540	mg/L	0.000705	0.02540	mg/L	0.000705 2.78%
Be 313.042†	-27.0	-0.00011	mg/L	0.000024	-0.00011	mg/L	0.000024 22.15%
Ca 317.933†	758999.1	79.90	mg/L	0.452	79.90	mg/L	0.452 0.57%
Cd 228.802†	-16.1	-0.00028	mg/L	0.000026	-0.00028	mg/L	0.000026 9.09%
Co 228.616†	64.4	0.00121	mg/L	0.000094	0.00121	mg/L	0.000094 7.75%
Cr 267.716†	18.1	0.00168	mg/L	0.000639	0.00168	mg/L	0.000639 38.01%
Cu 324.752†	-429.8	-0.00197	mg/L	0.000166	-0.00197	mg/L	0.000166 8.41%
Fe 273.955†	136.0	0.1149	mg/L	0.00280	0.1149	mg/L	0.00280 2.44%
K 766.490†	16012.2	5.979	mg/L	0.0504	5.979	mg/L	0.0504 0.84%
Mg 279.077†	61286.8	54.83	mg/L	0.556	54.83	mg/L	0.556 1.01%
Mn 257.610†	4070.2	0.1024	mg/L	0.00116	0.1024	mg/L	0.00116 1.13%
Mo 202.031†	49.3	0.00437	mg/L	0.000199	0.00437	mg/L	0.000199 4.56%
Na 589.592†	106936.7	17.20	mg/L	0.074	17.20	mg/L	0.074 0.43%
Na 330.237†	444.1	18.49	mg/L	0.034	18.49	mg/L	0.034 0.19%
Ni 231.604†	54.2	0.02934	mg/L	0.001986	0.02934	mg/L	0.001986 6.77%
Pb 220.353†	-28.3	-0.00355	mg/L	0.000674	-0.00355	mg/L	0.000674 18.98%
Sb 206.836†	-26.2	-0.01309	mg/L	0.000751	-0.01309	mg/L	0.000751 5.74%
Se 196.026†	-4.8	-0.00470	mg/L	0.006317	-0.00470	mg/L	0.006317 134.50%
Si 288.158†	26082.7	20.02	mg/L	0.183	20.02	mg/L	0.183 0.91%
Sn 189.927†	-47.4	-0.00656	mg/L	0.001532	-0.00656	mg/L	0.001532 23.33%
Sr 421.552†	247229.1	0.4971	mg/L	0.00288	0.4971	mg/L	0.00288 0.58%
Ti 334.903†	53.2	-0.00046	mg/L	0.000332	-0.00046	mg/L	0.000332 71.79%
Tl 190.801†	-13.0	-0.00640	mg/L	0.001450	-0.00640	mg/L	0.001450 22.65%
V 292.402†	772.1	0.00633	mg/L	0.000146	0.00633	mg/L	0.000146 2.30%
Zn 206.200†	-20.6	-0.00530	mg/L	0.000517	-0.00530	mg/L	0.000517 9.76%

Sequence No.: 35
Sample ID: RG64 L WMN

Autosampler Location: 47
Date Collected: 8/11/2010 8:19:03 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 L WMN

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG64 L WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2224345.1	106.5	%	0.22			0.21%
ScR 361.383	257852.4	108.9	%	0.11			0.10%
Ag 328.068†	258.8	0.00015	mg/L	0.000067	0.00015	mg/L	0.000067 45.27%
Al 308.215†	30.4	0.02197	mg/L	0.004179	0.02197	mg/L	0.004179 19.02%
As 188.979†	-0.3	-0.00021	mg/L	0.002690	-0.00021	mg/L	0.002690 >999.9%
B 249.677†	35.6	0.01641	mg/L	0.001420	0.01641	mg/L	0.001420 8.65%
Ba 233.527†	517.5	0.06416	mg/L	0.000529	0.06416	mg/L	0.000529 0.82%
Be 313.042†	-18.3	-0.00006	mg/L	0.000011	-0.00006	mg/L	0.000011 18.18%
Ca 317.933†	872569.9	91.86	mg/L	0.221	91.86	mg/L	0.221 0.24%
Cd 228.802†	-18.9	-0.00034	mg/L	0.000019	-0.00034	mg/L	0.000019 5.55%
Co 228.616†	17.2	0.00031	mg/L	0.000035	0.00031	mg/L	0.000035 11.54%
Cr 267.716†	15.8	0.00124	mg/L	0.000967	0.00124	mg/L	0.000967 78.01%
Cu 324.752†	-657.2	-0.00267	mg/L	0.000070	-0.00267	mg/L	0.000070 2.62%
Fe 273.955†	4799.2	4.052	mg/L	0.0328	4.052	mg/L	0.0328 0.81%
K 766.490†	14715.4	5.495	mg/L	0.0250	5.495	mg/L	0.0250 0.45%
Mg 279.077†	49526.9	44.31	mg/L	0.142	44.31	mg/L	0.142 0.32%
Mn 257.610†	134370.5	3.381	mg/L	0.0104	3.381	mg/L	0.0104 0.31%
Mo 202.031†	42.5	0.00377	mg/L	0.000320	0.00377	mg/L	0.000320 8.48%
Na 589.592†	105275.5	16.93	mg/L	0.047	16.93	mg/L	0.047 0.28%
Na 330.237†	438.3	18.16	mg/L	0.299	18.16	mg/L	0.299 1.64%
Ni 231.604†	11.1	0.00602	mg/L	0.001745	0.00602	mg/L	0.001745 28.97%
Pb 220.353†	-33.7	-0.00449	mg/L	0.000868	-0.00449	mg/L	0.000868 19.36%
Sb 206.836†	-27.6	-0.01441	mg/L	0.001460	-0.01441	mg/L	0.001460 10.13%
Se 196.026†	-5.3	-0.00769	mg/L	0.004036	-0.00769	mg/L	0.004036 52.48%
Si 288.158†	25859.0	19.85	mg/L	0.109	19.85	mg/L	0.109 0.55%
Sn 189.927†	-48.5	-0.00650	mg/L	0.000669	-0.00650	mg/L	0.000669 10.30%
Sr 421.552†	246634.6	0.4959	mg/L	0.00100	0.4959	mg/L	0.00100 0.20%
Ti 334.903†	48.2	-0.00118	mg/L	0.000379	-0.00118	mg/L	0.000379 32.14%
Tl 190.801†	-2.9	-0.00583	mg/L	0.000492	-0.00583	mg/L	0.000492 8.43%
V 292.402†	-18.1	-0.00009	mg/L	0.000030	-0.00009	mg/L	0.000030 35.07%
Zn 206.200†	-17.3	-0.00382	mg/L	0.000068	-0.00382	mg/L	0.000068 1.78%

Sequence No.: 36
Sample ID: RG64 N WMN

Autosampler Location: 48
Date Collected: 8/11/2010 8:25:23 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 N WMN

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG64 N WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2265799.9	108.5	%	1.45				1.34%
ScR 361.383	257601.8	108.8	%	0.56				0.52%
Ag 328.068†	111.2	0.00010	mg/L	0.000145	0.00010	mg/L	0.000145	137.94%
Al 308.215†	4.7	0.00339	mg/L	0.010870	0.00339	mg/L	0.010870	320.66%
As 188.979†	-3.3	-0.00209	mg/L	0.000696	-0.00209	mg/L	0.000696	33.36%
B 249.677†	78.9	0.03634	mg/L	0.002702	0.03634	mg/L	0.002702	7.44%
Ba 233.068†	86.7	0.01077	mg/L	0.000231	0.01077	mg/L	0.000231	2.14%
Be 313.042†	-33.2	-0.00011	mg/L	0.000025	-0.00011	mg/L	0.000025	22.03%
Ca 317.933†	319075.7	33.59	mg/L	0.154	33.59	mg/L	0.154	0.46%
Cd 228.802†	-11.0	-0.00019	mg/L	0.000120	-0.00019	mg/L	0.000120	62.23%
Co 228.616†	35.8	0.00068	mg/L	0.000097	0.00068	mg/L	0.000097	14.39%
Cr 267.716†	11.3	0.00166	mg/L	0.000903	0.00166	mg/L	0.000903	54.54%
Cu 324.752†	-445.6	-0.00205	mg/L	0.000132	-0.00205	mg/L	0.000132	6.43%
Fe 273.955†	32.1	0.02707	mg/L	0.001270	0.02707	mg/L	0.001270	4.69%
K 766.490†	2298.6	0.8584	mg/L	0.01655	0.8584	mg/L	0.01655	1.93%
Mg 279.077†	23605.8	21.12	mg/L	0.074	21.12	mg/L	0.074	0.35%
Mn 257.610†	43876.6	1.104	mg/L	0.0012	1.104	mg/L	0.0012	0.11%
Mo 202.031†	21.4	0.00190	mg/L	0.000211	0.00190	mg/L	0.000211	11.14%
Na 589.592†	98173.2	15.79	mg/L	0.041	15.79	mg/L	0.041	0.26%
Na 330.237†	394.0	16.65	mg/L	0.704	16.65	mg/L	0.704	4.23%
Ni 231.604†	7.3	0.00396	mg/L	0.001753	0.00396	mg/L	0.001753	44.26%
Pb 220.353†	-21.0	-0.00264	mg/L	0.001616	-0.00264	mg/L	0.001616	61.29%
Sb 206.836†	-25.7	-0.01273	mg/L	0.001785	-0.01273	mg/L	0.001785	14.02%
Se 196.026†	-4.2	-0.00511	mg/L	0.002838	-0.00511	mg/L	0.002838	55.49%
Si 288.158†	16121.5	12.37	mg/L	0.011	12.37	mg/L	0.011	0.09%
Sn 189.927†	-23.6	-0.00378	mg/L	0.000654	-0.00378	mg/L	0.000654	17.32%
Sr 421.552†	120367.0	0.2420	mg/L	0.00055	0.2420	mg/L	0.00055	0.23%
Ti 334.903†	18.9	-0.00037	mg/L	0.000903	-0.00037	mg/L	0.000903	243.89%
Tl 190.801†	-10.4	-0.00648	mg/L	0.002948	-0.00648	mg/L	0.002948	45.49%
V 292.402†	-90.2	-0.00055	mg/L	0.000058	-0.00055	mg/L	0.000058	10.61%
Zn 206.200†	-10.0	-0.00285	mg/L	0.001295	-0.00285	mg/L	0.001295	45.42%

Sequence No.: 37
 Sample ID: RG64 O WMN

Autosampler Location: 49
 Date Collected: 8/11/2010 8:31:25 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 O WMN

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG64 O WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2258574.8	108.2	%	0.17			0.16%
ScR 361.383	255691.6	108.0	%	0.44			0.41%
Ag 328.068†	67.5	0.00012	mg/L	0.000235	0.00012	mg/L	0.000235 201.22%
Al 308.215†	18.3	0.01322	mg/L	0.004907	0.01322	mg/L	0.004907 37.12%
As 188.979†	-5.3	-0.00333	mg/L	0.002151	-0.00333	mg/L	0.002151 64.65%
B 249.677†	120.4	0.05546	mg/L	0.001745	0.05546	mg/L	0.001745 3.15%
Ba 233.527†	70.4	0.00875	mg/L	0.000394	0.00875	mg/L	0.000394 4.50%
Be 313.042†	-11.0	-0.00004	mg/L	0.000027	-0.00004	mg/L	0.000027 64.38%
Ca 317.933†	261381.6	27.52	mg/L	0.062	27.52	mg/L	0.062 0.22%
Cd 228.802†	-10.9	-0.00019	mg/L	0.000078	-0.00019	mg/L	0.000078 41.57%
Co 228.616†	55.4	0.00105	mg/L	0.000068	0.00105	mg/L	0.000068 6.48%
Cr 267.716†	12.8	0.00212	mg/L	0.000670	0.00212	mg/L	0.000670 31.57%
Cu 324.752†	-667.5	-0.00307	mg/L	0.000223	-0.00307	mg/L	0.000223 7.24%
Fe 273.955†	53.4	0.04512	mg/L	0.002982	0.04512	mg/L	0.002982 6.61%
K 766.490†	3641.3	1.360	mg/L	0.0136	1.360	mg/L	0.0136 1.00%
Mg 279.077†	24440.9	21.87	mg/L	0.032	21.87	mg/L	0.032 0.15%
Mn 257.610†	2142.1	0.05390	mg/L	0.000251	0.05390	mg/L	0.000251 0.47%
Mo 202.031†	12.0	0.00107	mg/L	0.000247	0.00107	mg/L	0.000247 23.16%
Na 589.592†	74363.3	11.96	mg/L	0.046	11.96	mg/L	0.046 0.39%
Na 330.237†	304.9	12.88	mg/L	0.435	12.88	mg/L	0.435 3.38%
Ni 231.604†	16.3	0.00885	mg/L	0.002456	0.00885	mg/L	0.002456 27.75%
Pb 220.353†	-24.5	-0.00307	mg/L	0.001057	-0.00307	mg/L	0.001057 34.40%
Sb 206.836†	-21.8	-0.01084	mg/L	0.002648	-0.01084	mg/L	0.002648 24.43%
Se 196.026†	3.5	0.00327	mg/L	0.005191	0.00327	mg/L	0.005191 158.54%
Si 288.158†	20888.2	16.03	mg/L	0.075	16.03	mg/L	0.075 0.47%
Sn 189.927†	-21.4	-0.00350	mg/L	0.001529	-0.00350	mg/L	0.001529 43.63%
Sr 421.552†	95355.9	0.1917	mg/L	0.00020	0.1917	mg/L	0.00020 0.11%
Ti 334.903†	0.5	-0.00105	mg/L	0.001726	-0.00105	mg/L	0.001726 164.58%
Tl 190.801†	-5.9	-0.00294	mg/L	0.001299	-0.00294	mg/L	0.001299 44.24%
V 292.402†	252.9	0.00208	mg/L	0.000056	0.00208	mg/L	0.000056 2.70%
Zn 206.200†	-10.5	-0.00320	mg/L	0.000390	-0.00320	mg/L	0.000390 12.17%

Sequence No.: 38
Sample ID: RG64 P WMN

Autosampler Location: 50
Date Collected: 8/11/2010 8:37:27 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 P WMN

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG64 P WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2244586.9	107.5	%	0.99				0.92%
ScR 361.383	260616.4	110.0	%	1.71				1.56%
Ag 328.068†	455.9	0.00012	mg/L	0.000141	0.00012	mg/L	0.000141	120.10%
Al 308.215†	25.3	0.01824	mg/L	0.006958	0.01824	mg/L	0.006958	38.15%
As 188.979†	-3.7	-0.00231	mg/L	0.001272	-0.00231	mg/L	0.001272	55.11%
B 249.677†	46.2	0.02128	mg/L	0.000368	0.02128	mg/L	0.000368	1.73%
Ba 233.527†	192.9	0.02390	mg/L	0.000404	0.02390	mg/L	0.000404	1.69%
Be 313.042†	-34.9	-0.00012	mg/L	0.000010	-0.00012	mg/L	0.000010	8.56%
Ca 317.933†	745753.1	78.51	mg/L	1.082	78.51	mg/L	1.082	1.38%
Cd 228.802†	-22.7	-0.00040	mg/L	0.000042	-0.00040	mg/L	0.000042	10.51%
Co 228.616†	213.2	0.00404	mg/L	0.000089	0.00404	mg/L	0.000089	2.21%
Cr 267.716†	17.9	0.00242	mg/L	0.000486	0.00242	mg/L	0.000486	20.04%
Cu 324.752†	-685.7	-0.00299	mg/L	0.000242	-0.00299	mg/L	0.000242	8.09%
Fe 273.955†	2289.0	1.933	mg/L	0.0406	1.933	mg/L	0.0406	2.10%
K 766.490†	7636.3	2.852	mg/L	0.1179	2.852	mg/L	0.1179	4.14%
Mg 279.077†	29132.6	26.06	mg/L	0.409	26.06	mg/L	0.409	1.57%
Mn 257.610†	373839.1	9.407	mg/L	0.0847	9.407	mg/L	0.0847	0.90%
Mo 202.031†	44.7	0.00397	mg/L	0.000188	0.00397	mg/L	0.000188	4.73%
Na 589.592†	90263.7	14.52	mg/L	0.140	14.52	mg/L	0.140	0.96%
Na 330.237†	376.7	15.61	mg/L	0.517	15.61	mg/L	0.517	3.31%
Ni 231.604†	14.5	0.00782	mg/L	0.002611	0.00782	mg/L	0.002611	33.39%
Pb 220.353†	-30.2	-0.00391	mg/L	0.001971	-0.00391	mg/L	0.001971	50.44%
Sb 206.836†	-22.9	-0.01176	mg/L	0.002520	-0.01176	mg/L	0.002520	21.43%
Se 196.026†	4.4	-0.00467	mg/L	0.002602	-0.00467	mg/L	0.002602	55.66%
Si 288.158†	18654.6	14.32	mg/L	0.198	14.32	mg/L	0.198	1.38%
Sn 189.927†	-39.2	-0.00530	mg/L	0.001379	-0.00530	mg/L	0.001379	26.00%
Sr 421.552†	265109.0	0.5331	mg/L	0.00456	0.5331	mg/L	0.00456	0.86%
Ti 334.903†	22.5	-0.00194	mg/L	0.000341	-0.00194	mg/L	0.000341	17.58%
Tl 190.801†	17.0	-0.00428	mg/L	0.001294	-0.00428	mg/L	0.001294	30.24%
V 292.402†	-178.6	-0.00026	mg/L	0.000065	-0.00026	mg/L	0.000065	25.00%
Zn 206.200†	-14.1	-0.00324	mg/L	0.000565	-0.00324	mg/L	0.000565	17.43%

Sequence No.: 39

Sample ID: RG78 A SWC

Autosampler Location: 51

Date Collected: 8/11/2010 8:43:47 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG78 A SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG78 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2242409.9	107.4	%	0.23				0.21%
ScR 361.383	254598.2	107.5	%	0.43				0.40%
Ag 328.068†	-876.4	0.00020	mg/L	0.000353	0.00020	mg/L	0.000353	178.49%
Al 308.215†	132669.8	96.13	mg/L	0.155	96.13	mg/L	0.155	0.16%
As 188.979†	30.3	0.02932	mg/L	0.001442	0.02932	mg/L	0.001442	4.92%
B 249.677†	27.4	0.01231	mg/L	0.002513	0.01231	mg/L	0.002513	20.40%
Ba 233.527†	3246.9	0.3973	mg/L	0.00274	0.3973	mg/L	0.00274	0.69%
Be 313.042†	571.5	0.00100	mg/L	0.000021	0.00100	mg/L	0.000021	2.11%
Ca 317.933†	311257.3	32.77	mg/L	0.046	32.77	mg/L	0.046	0.14%
Cd 228.802†	46.8	0.00091	mg/L	0.000023	0.00091	mg/L	0.000023	2.48%
Co 228.616†	3736.7	0.06156	mg/L	0.000370	0.06156	mg/L	0.000370	0.60%
Cr 267.716†	1116.9	0.2773	mg/L	0.00256	0.2773	mg/L	0.00256	0.92%
Cu 324.752†	27155.7	0.1356	mg/L	0.00061	0.1356	mg/L	0.00061	0.45%
Fe 273.955†	156437.5	132.1	mg/L	0.85	132.1	mg/L	0.85	0.65%
K 766.490†	12957.4	4.839	mg/L	0.0149	4.839	mg/L	0.0149	0.31%
Mg 279.077†	51420.9	45.92	mg/L	0.050	45.92	mg/L	0.050	0.11%
Mn 257.610†	69113.6	1.738	mg/L	0.0019	1.738	mg/L	0.0019	0.11%
Mo 202.031†	30.6	0.00267	mg/L	0.000445	0.00267	mg/L	0.000445	16.68%
Na 589.592†	11319.0	1.821	mg/L	0.0061	1.821	mg/L	0.0061	0.34%
Na 330.237†	47.7	2.872	mg/L	0.3040	2.872	mg/L	0.3040	10.58%
Ni 231.604†	699.7	0.3791	mg/L	0.00217	0.3791	mg/L	0.00217	0.57%
Pb 220.353†	-22.2	0.01603	mg/L	0.000500	0.01603	mg/L	0.000500	3.12%
Sb 206.836†	63.4	-0.00806	mg/L	0.000450	-0.00806	mg/L	0.000450	5.59%
Se 196.026†	-54.8	-0.01285	mg/L	0.009316	-0.01285	mg/L	0.009316	72.52%
Si 288.158†	1655.4	1.276	mg/L	0.0084	1.276	mg/L	0.0084	0.66%
Sn 189.927†	-34.7	-0.00401	mg/L	0.001467	-0.00401	mg/L	0.001467	36.59%
Sr 421.552†	111599.2	0.2244	mg/L	0.00055	0.2244	mg/L	0.00055	0.25%
Ti 334.903†	106966.3	5.345	mg/L	0.0079	5.345	mg/L	0.0079	0.15%
Tl 190.801†	-13.1	-0.01983	mg/L	0.001023	-0.01983	mg/L	0.001023	5.16%
V 292.402†	41447.4	0.3187	mg/L	0.00196	0.3187	mg/L	0.00196	0.62%
Zn 206.200†	576.1	0.2454	mg/L	0.00163	0.2454	mg/L	0.00163	0.66%

Sequence No.: 40
Sample ID: RG78 B SWC

Autosampler Location: 52
Date Collected: 8/11/2010 8:49:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG78 B SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG78 B SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2224367.5	106.5	%	0.42				0.39%
ScR 361.383	254806.8	107.6	%	0.80				0.74%
Ag 328.068†	-939.6	0.00038	mg/L	0.000226	0.00038	mg/L	0.000226	59.63%
Al 308.215†	170523.6	123.6	mg/L	0.23	123.6	mg/L	0.23	0.19%
As 188.979†	10.6	0.01939	mg/L	0.001286	0.01939	mg/L	0.001286	6.63%
B 249.677†	33.2	0.01496	mg/L	0.002125	0.01496	mg/L	0.002125	14.21%
Ba 233.527†	3384.7	0.4135	mg/L	0.00418	0.4135	mg/L	0.00418	1.01%
Be 313.042†	692.0	0.00129	mg/L	0.000020	0.00129	mg/L	0.000020	1.53%
Ca 317.933†	358866.2	37.78	mg/L	0.096	37.78	mg/L	0.096	0.25%
Cd 228.802†	52.9	0.00105	mg/L	0.000020	0.00105	mg/L	0.000020	1.90%
Co 228.616†	4267.8	0.06962	mg/L	0.000664	0.06962	mg/L	0.000664	0.95%
Cr 267.716†	1142.3	0.2837	mg/L	0.00283	0.2837	mg/L	0.00283	1.00%
Cu 324.752†	30363.6	0.1518	mg/L	0.00058	0.1518	mg/L	0.00058	0.38%
Fe 273.955†	179299.8	151.4	mg/L	1.10	151.4	mg/L	1.10	0.73%
K 766.490†	13979.3	5.220	mg/L	0.0035	5.220	mg/L	0.0035	0.07%
Mg 279.077†	59445.6	53.09	mg/L	0.156	53.09	mg/L	0.156	0.29%
Mn 257.610†	118511.8	2.981	mg/L	0.0056	2.981	mg/L	0.0056	0.19%
Mo 202.031†	42.1	0.00369	mg/L	0.000094	0.00369	mg/L	0.000094	2.55%
Na 589.592†	9088.6	1.462	mg/L	0.0076	1.462	mg/L	0.0076	0.52%
Na 330.237†	33.3	2.454	mg/L	0.2306	2.454	mg/L	0.2306	9.40%
Ni 231.604†	707.9	0.3836	mg/L	0.00099	0.3836	mg/L	0.00099	0.26%
Pb 220.353†	-53.9	0.01850	mg/L	0.000927	0.01850	mg/L	0.000927	5.01%
Sb 206.836†	78.1	-0.00866	mg/L	0.002439	-0.00866	mg/L	0.002439	28.17%
Se 196.026†	-63.2	-0.01332	mg/L	0.000545	-0.01332	mg/L	0.000545	4.09%
Si 288.158†	1885.5	1.454	mg/L	0.0129	1.454	mg/L	0.0129	0.89%
Sn 189.927†	-46.0	-0.00605	mg/L	0.000099	-0.00605	mg/L	0.000099	1.63%
Sr 421.552†	133699.3	0.2688	mg/L	0.00067	0.2688	mg/L	0.00067	0.25%
Ti 334.903†	130290.7	6.511	mg/L	0.0156	6.511	mg/L	0.0156	0.24%
Tl 190.801†	-10.6	-0.02249	mg/L	0.000784	-0.02249	mg/L	0.000784	3.49%
V 292.402†	46644.9	0.3579	mg/L	0.00068	0.3579	mg/L	0.00068	0.19%
Zn 206.200†	658.4	0.2805	mg/L	0.00187	0.2805	mg/L	0.00187	0.67%

Sequence No.: 41
 Sample ID: RG87 MBSPK TWC

Autosampler Location: 53
 Date Collected: 8/11/2010 8:55:50 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 MBSPK TWC

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG87 MBSPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2231197.0	106.9	%	0.73				0.68%
ScR 361.383	254764.4	107.6	%	1.55				1.44%
Ag 328.068†	90539.8	0.4603	mg/L	0.00367	0.4603	mg/L	0.00367	0.80%
Al 308.215†	2575.6	1.860	mg/L	0.0152	1.860	mg/L	0.0152	0.82%
As 188.979†	2975.1	1.851	mg/L	0.0236	1.851	mg/L	0.0236	1.27%
B 249.677†	-4.2	-0.00335	mg/L	0.002270	-0.00335	mg/L	0.002270	67.71%
Ba 233.527†	14333.9	1.782	mg/L	0.0178	1.782	mg/L	0.0178	1.00%
Be 313.042†	134815.7	0.4583	mg/L	0.00129	0.4583	mg/L	0.00129	0.28%
Ca 317.933†	87106.1	9.170	mg/L	0.0265	9.170	mg/L	0.0265	0.29%
Cd 228.802†	25824.3	0.4629	mg/L	0.00291	0.4629	mg/L	0.00291	0.63%
Co 228.616†	23162.9	0.4395	mg/L	0.00207	0.4395	mg/L	0.00207	0.47%
Cr 267.716†	1827.8	0.4522	mg/L	0.00446	0.4522	mg/L	0.00446	0.99%
Cu 324.752†	98242.9	0.4531	mg/L	0.00249	0.4531	mg/L	0.00249	0.55%
Fe 273.955†	2206.9	1.863	mg/L	0.0237	1.863	mg/L	0.0237	1.27%
K 766.490†	25296.0	9.446	mg/L	0.0650	9.446	mg/L	0.0650	0.69%
Mg 279.077†	10327.5	9.239	mg/L	0.0823	9.239	mg/L	0.0823	0.89%
Mn 257.610†	17820.5	0.4489	mg/L	0.00442	0.4489	mg/L	0.00442	0.98%
Mo 202.031†	8.1	0.00065	mg/L	0.000124	0.00065	mg/L	0.000124	19.07%
Na 589.592†	58028.9	9.334	mg/L	0.0544	9.334	mg/L	0.0544	0.58%
Na 330.237†	252.2	10.60	mg/L	0.253	10.60	mg/L	0.253	2.38%
Ni 231.604†	823.0	0.4451	mg/L	0.00531	0.4451	mg/L	0.00531	1.19%
Pb 220.353†	14536.9	1.826	mg/L	0.0112	1.826	mg/L	0.0112	0.62%
Sb 206.836†	1.8	-0.00568	mg/L	0.002408	-0.00568	mg/L	0.002408	42.37%
Se 196.026†	1959.5	1.872	mg/L	0.0228	1.872	mg/L	0.0228	1.22%
Si 288.158†	7.3	0.00727	mg/L	0.008626	0.00727	mg/L	0.008626	118.68%
Sn 189.927†	-12.8	-0.00259	mg/L	0.000625	-0.00259	mg/L	0.000625	24.12%
Sr 421.552†	226946.9	0.4563	mg/L	0.00298	0.4563	mg/L	0.00298	0.65%
Ti 334.903†	-20.6	-0.00150	mg/L	0.000284	-0.00150	mg/L	0.000284	18.98%
Tl 190.801†	3822.0	1.831	mg/L	0.0201	1.831	mg/L	0.0201	1.10%
V 292.402†	56172.1	0.4591	mg/L	0.00323	0.4591	mg/L	0.00323	0.70%
Zn 206.200†	1035.0	0.4381	mg/L	0.00333	0.4381	mg/L	0.00333	0.76%

Sequence No.: 42

Sample ID: CV 4

Autosampler Location: 7

Date Collected: 8/11/2010 9:01:52 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2220895.9	106.4	%	0.09				0.08%
ScR 361.383	239386.9	101.1	%	10.38				0.78%
Ag 328.068†	175755.2	0.8934	mg/L	0.00693	0.8934	mg/L	0.00693	10.27%
Al 308.215†	2836.5	2.020	mg/L	0.2088	2.020	mg/L	0.2088	10.34%
As 188.979†	2980.8	1.854	mg/L	0.0054	1.854	mg/L	0.0054	0.29%
B 249.677†	2075.6	0.9550	mg/L	0.10184	0.9550	mg/L	0.10184	10.66%
Ba 233.527†	7862.5	0.9771	mg/L	0.11120	0.9771	mg/L	0.11120	11.38%
Be 313.042†	287029.3	0.9760	mg/L	0.11572	0.9760	mg/L	0.11572	11.86%
Ca 317.933†	19326.7	2.035	mg/L	0.2300	2.035	mg/L	0.2300	11.30%
Cd 228.802†	52491.0	0.9443	mg/L	0.00924	0.9443	mg/L	0.00924	0.98%
Co 228.616†	47508.2	0.9006	mg/L	0.00971	0.9006	mg/L	0.00971	1.08%
Cr 267.716†	3960.9	0.9805	mg/L	0.10640	0.9805	mg/L	0.10640	10.85%
Cu 324.752†	209885.3	0.9673	mg/L	0.01018	0.9673	mg/L	0.01018	1.05%
Fe 273.955†	2320.0	1.958	mg/L	0.2182	1.958	mg/L	0.2182	11.14%
K 766.490†	54311.5	20.28	mg/L	2.603	20.28	mg/L	2.603	12.83%
Mg 279.077†	2212.6	1.982	mg/L	0.2290	1.982	mg/L	0.2290	11.55%
Mn 257.610†	39300.1	0.9894	mg/L	0.11932	0.9894	mg/L	0.11932	12.06%
Mo 202.031†	10296.3	0.9133	mg/L	0.00406	0.9133	mg/L	0.00406	0.44%
Na 589.592†	309663.1	49.81	mg/L	5.929	49.81	mg/L	5.929	11.90%
Na 330.237†	1179.6	50.39	mg/L	4.425	50.39	mg/L	4.425	8.78%
Ni 231.604†	1807.3	0.9799	mg/L	0.10697	0.9799	mg/L	0.10697	10.92%
Pb 220.353†	14625.4	1.838	mg/L	0.0219	1.838	mg/L	0.0219	1.19%
Sb 206.836†	4034.6	1.980	mg/L	0.0072	1.980	mg/L	0.0072	0.36%
Se 196.026†	1927.3	1.840	mg/L	0.0026	1.840	mg/L	0.0026	0.14%
Si 288.158†	2778.4	2.134	mg/L	0.2386	2.134	mg/L	0.2386	11.18%
Sn 189.927†	3278.3	0.8598	mg/L	0.00195	0.8598	mg/L	0.00195	0.23%
Sr 421.552†	496136.2	0.9976	mg/L	0.12028	0.9976	mg/L	0.12028	12.06%
Ti 334.903†	19869.4	0.9920	mg/L	0.12045	0.9920	mg/L	0.12045	12.14%
Tl 190.801†	3803.8	1.816	mg/L	0.0073	1.816	mg/L	0.0073	0.40%
V 292.402†	111153.8	0.9140	mg/L	0.01065	0.9140	mg/L	0.01065	1.17%
Zn 206.200†	2304.8	0.9742	mg/L	0.10848	0.9742	mg/L	0.10848	11.14%

Sequence No.: 43

Sample ID: CB 4

Autosampler Location: 1

Date Collected: 8/11/2010 9:07:54 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2257890.2	108.2	%	0.73				0.68%
ScR 361.383	252119.2	106.5	%	0.83				0.78%
Ag 328.068†	43.3	0.00022	mg/L	0.000081	0.00022	mg/L	0.000081	37.04%
Al 308.215†	-8.1	-0.00584	mg/L	0.009640	-0.00584	mg/L	0.009640	164.95%
As 188.979†	-4.4	-0.00273	mg/L	0.001133	-0.00273	mg/L	0.001133	41.49%
B 249.677†	7.0	0.00322	mg/L	0.001670	0.00322	mg/L	0.001670	51.81%
Ba 233.527†	-0.0	0.00000	mg/L	0.000627	0.00000	mg/L	0.000627	>999.9%
Be 313.042†	-5.9	-0.00002	mg/L	0.000053	-0.00002	mg/L	0.000053	272.64%
Ca 317.933†	15.6	0.00164	mg/L	0.001977	0.00164	mg/L	0.001977	120.47%
Cd 228.802†	-5.8	-0.00010	mg/L	0.000088	-0.00010	mg/L	0.000088	88.92%
Co 228.616†	1.6	0.00003	mg/L	0.000090	0.00003	mg/L	0.000090	264.25%
Cr 267.716†	5.0	0.00124	mg/L	0.001131	0.00124	mg/L	0.001131	91.06%
Cu 324.752†	-225.9	-0.00104	mg/L	0.000101	-0.00104	mg/L	0.000101	9.74%
Fe 273.955†	5.6	0.00471	mg/L	0.000832	0.00471	mg/L	0.000832	17.69%
K 766.490†	-164.3	-0.06134	mg/L	0.018607	-0.06134	mg/L	0.018607	30.34%
Mg 279.077†	1.4	0.00125	mg/L	0.000580	0.00125	mg/L	0.000580	46.30%
Mn 257.610†	37.3	0.00094	mg/L	0.000095	0.00094	mg/L	0.000095	10.15%
Mo 202.031†	-0.0	0.00000	mg/L	0.000461	0.00000	mg/L	0.000461	>999.9%
Na 589.592†	135.6	0.02182	mg/L	0.007964	0.02182	mg/L	0.007964	36.50%
Na 330.237†	13.8	0.5890	mg/L	0.39149	0.5890	mg/L	0.39149	66.47%
Ni 231.604†	2.0	0.00109	mg/L	0.001749	0.00109	mg/L	0.001749	159.72%
Pb 220.353†	-13.2	-0.00166	mg/L	0.000751	-0.00166	mg/L	0.000751	45.23%
Sb 206.836†	-12.8	-0.00631	mg/L	0.001087	-0.00631	mg/L	0.001087	17.22%
Se 196.026†	5.4	0.00511	mg/L	0.001507	0.00511	mg/L	0.001507	29.46%
Si 288.158†	4.0	0.00306	mg/L	0.001472	0.00306	mg/L	0.001472	48.14%
Sn 189.927†	4.8	0.00127	mg/L	0.000444	0.00127	mg/L	0.000444	35.06%
Sr 421.552†	-32.5	-0.00007	mg/L	0.000010	-0.00007	mg/L	0.000010	15.19%
Ti 334.903†	-41.8	-0.00209	mg/L	0.001101	-0.00209	mg/L	0.001101	52.72%
Tl 190.801†	-2.4	-0.00115	mg/L	0.001918	-0.00115	mg/L	0.001918	166.82%
V 292.402†	-31.1	-0.00024	mg/L	0.000123	-0.00024	mg/L	0.000123	50.50%
Zn 206.200†	-3.7	-0.00158	mg/L	0.000483	-0.00158	mg/L	0.000483	30.62%

Sequence No.: 44

Sample ID: RG78 MBl SWC

Autosampler Location: 54

Date Collected: 8/11/2010 9:13:52 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 MBl SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG78 MBl SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2290175.1	109.7	%	0.53			0.48%
ScR 361.383	256847.4	108.5	%	1.39			1.29%
Ag 328.068†	12.6	0.00006	mg/L	0.000271	0.00013	mg/L	0.000543 425.84%
Al 308.215†	10.9	0.00794	mg/L	0.003337	0.01589	mg/L	0.006674 42.01%
As 188.979†	-3.6	-0.00223	mg/L	0.002023	-0.00447	mg/L	0.004045 90.57%
B 249.677†	-7.5	-0.00347	mg/L	0.001854	-0.00694	mg/L	0.003709 53.45%
Ba 233.527†	-1.6	-0.00020	mg/L	0.000585	-0.00040	mg/L	0.001170 294.91%
Be 313.042†	-11.3	-0.00004	mg/L	0.000004	-0.00008	mg/L	0.000008 10.77%
Ca 317.933†	118.8	0.01250	mg/L	0.002406	0.02501	mg/L	0.004811 19.24%
Cd 228.802†	-4.1	-0.00007	mg/L	0.000078	-0.00014	mg/L	0.000157 113.54%
Co 228.616†	9.4	0.00018	mg/L	0.000105	0.00036	mg/L	0.000209 58.01%
Cr 267.716†	5.7	0.00141	mg/L	0.000727	0.00283	mg/L	0.001453 51.40%
Cu 324.752†	-380.3	-0.00175	mg/L	0.000152	-0.00350	mg/L	0.000304 8.69%
Fe 273.955†	4.2	0.00352	mg/L	0.001224	0.00703	mg/L	0.002449 34.82%
K 766.490†	-253.0	-0.09448	mg/L	0.016339	-0.1890	mg/L	0.03268 17.29%
Mg 279.077†	4.0	0.00355	mg/L	0.005975	0.00711	mg/L	0.011950 168.15%
Mn 257.610†	32.9	0.00083	mg/L	0.000097	0.00165	mg/L	0.000195 11.79%
Mo 202.031†	-1.9	-0.00017	mg/L	0.000392	-0.00034	mg/L	0.000784 231.51%
Na 589.592†	110.8	0.01783	mg/L	0.000238	0.03565	mg/L	0.000475 1.33%
Na 330.237†	22.0	0.9414	mg/L	0.52157	1.883	mg/L	1.0431 55.40%
Ni 231.604†	6.0	0.00325	mg/L	0.001224	0.00650	mg/L	0.002448 37.67%
Pb 220.353†	-20.4	-0.00256	mg/L	0.001055	-0.00512	mg/L	0.002110 41.22%
Sb 206.836†	-14.0	-0.00691	mg/L	0.000340	-0.01381	mg/L	0.000681 4.93%
Se 196.026†	4.9	0.00464	mg/L	0.002836	0.00927	mg/L	0.005672 61.18%
Si 288.158†	4.4	0.00338	mg/L	0.007955	0.00676	mg/L	0.015911 235.48%
Sn 189.927†	0.6	0.00015	mg/L	0.000351	0.00029	mg/L	0.000701 241.30%
Sr 421.552†	-40.1	-0.00008	mg/L	0.000112	-0.00016	mg/L	0.000224 139.28%
Ti 334.903†	-30.7	-0.00153	mg/L	0.000608	-0.00307	mg/L	0.001215 39.62%
Tl 190.801†	-2.6	-0.00123	mg/L	0.000310	-0.00247	mg/L	0.000620 25.10%
V 292.402†	-38.9	-0.00031	mg/L	0.000037	-0.00061	mg/L	0.000074 11.98%
Zn 206.200†	-2.1	-0.00088	mg/L	0.000412	-0.00177	mg/L	0.000824 46.54%

Sequence No.: 45
Sample ID: RG78 C SWC

Autosampler Location: 55
Date Collected: 8/11/2010 9:19:52 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 C SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG78 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2254395.1	108.0 %	%	0.71			0.66%
ScR 361.383	260908.3	110.2 %	%	0.72			0.65%
Ag 328.068†	-997.5	0.00015 mg/L	mg/L	0.000229	0.00030 mg/L	0.000458	152.53%
Al 308.215†	180050.0	130.5 mg/L	mg/L	0.14	260.9 mg/L	0.27	0.11%
As 188.979†	13.6	0.02106 mg/L	mg/L	0.000697	0.04212 mg/L	0.001395	3.31%
B 249.677†	33.7	0.01520 mg/L	mg/L	0.001492	0.03040 mg/L	0.002984	9.82%
Ba 233.527†	3546.8	0.4336 mg/L	mg/L	0.00225	0.8672 mg/L	0.00450	0.52%
Be 313.042†	742.6	0.00141 mg/L	mg/L	0.000054	0.00283 mg/L	0.000109	3.84%
Ca 317.933†	362450.6	38.16 mg/L	mg/L	0.073	76.31 mg/L	0.146	0.19%
Cd 228.802†	51.9	0.00103 mg/L	mg/L	0.000110	0.00207 mg/L	0.000221	10.66%
Co 228.616†	4247.0	0.06938 mg/L	mg/L	0.000523	0.1388 mg/L	0.00105	0.75%
Cr 267.716†	1139.4	0.2829 mg/L	mg/L	0.00213	0.5659 mg/L	0.00425	0.75%
Cu 324.752†	28589.4	0.1437 mg/L	mg/L	0.00175	0.2875 mg/L	0.00350	1.22%
Fe 273.955†	180494.9	152.4 mg/L	mg/L	0.92	304.8 mg/L	1.84	0.60%
K 766.490†	14562.0	5.438 mg/L	mg/L	0.0173	10.88 mg/L	0.035	0.32%
Mg 279.077†	60744.9	54.25 mg/L	mg/L	0.140	108.5 mg/L	0.28	0.26%
Mn 257.610†	113034.8	2.843 mg/L	mg/L	0.0029	5.687 mg/L	0.0058	0.10%
Mo 202.031†	32.2	0.00281 mg/L	mg/L	0.000305	0.00563 mg/L	0.000611	10.86%
Na 589.592†	7320.8	1.178 mg/L	mg/L	0.0040	2.355 mg/L	0.0080	0.34%
Na 330.237†	29.0	2.248 mg/L	mg/L	0.2658	4.496 mg/L	0.5316	11.82%
Ni 231.604†	762.5	0.4132 mg/L	mg/L	0.00452	0.8263 mg/L	0.00904	1.09%
Pb 220.353†	-73.2	0.01795 mg/L	mg/L	0.000636	0.03590 mg/L	0.001272	3.54%
Sb 206.836†	77.7	-0.01069 mg/L	mg/L	0.004446	-0.02138 mg/L	0.008892	41.58%
Se 196.026†	-64.8	-0.01317 mg/L	mg/L	0.005400	-0.02634 mg/L	0.010801	41.00%
Si 288.158†	2890.0	2.225 mg/L	mg/L	0.0063	4.450 mg/L	0.0126	0.28%
Sn 189.927†	-44.8	-0.00571 mg/L	mg/L	0.001413	-0.01143 mg/L	0.002827	24.73%
Sr 421.552†	124876.6	0.2511 mg/L	mg/L	0.00061	0.5022 mg/L	0.00122	0.24%
Ti 334.903†	128382.4	6.416 mg/L	mg/L	0.0032	12.83 mg/L	0.006	0.05%
Tl 190.801†	-10.3	-0.02207 mg/L	mg/L	0.002066	-0.04415 mg/L	0.004131	9.36%
V 292.402†	48891.7	0.3761 mg/L	mg/L	0.00526	0.7522 mg/L	0.01051	1.40%
Zn 206.200†	655.2	0.2792 mg/L	mg/L	0.00335	0.5583 mg/L	0.00671	1.20%

Sequence No.: 46
Sample ID: RG78 D SWC

Autosampler Location: 56
Date Collected: 8/11/2010 9:25:55 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 D SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG78 D SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2282326.1		109.3 %	0.52				0.48%
ScR 361.383	260724.1		110.1 %	0.81				0.74%
Ag 328.068†	-994.5	0.00017	mg/L	0.000648	0.00034	mg/L	0.001296	376.16%
Al 308.215†	183284.9		132.8 mg/L	0.29	265.6	mg/L	0.59	0.22%
As 188.979†	14.1	0.02004	mg/L	0.003040	0.04008	mg/L	0.006079	15.17%
B 249.677†	31.2	0.01404	mg/L	0.003002	0.02807	mg/L	0.006003	21.38%
Ba 233.527†	3619.4	0.4427	mg/L	0.00138	0.8854	mg/L	0.00277	0.31%
Be 313.042†	715.6	0.00143	mg/L	0.000054	0.00287	mg/L	0.000108	3.75%
Ca 317.933†	324903.8		34.20 mg/L	0.163	68.41	mg/L	0.327	0.48%
Cd 228.802†	48.0	0.00096	mg/L	0.000038	0.00192	mg/L	0.000077	4.00%
Co 228.616†	4450.5	0.07443	mg/L	0.000232	0.1489	mg/L	0.00046	0.31%
Cr 267.716†	1130.6	0.2809	mg/L	0.00143	0.5618	mg/L	0.00285	0.51%
Cu 324.752†	32525.8	0.1620	mg/L	0.00076	0.3241	mg/L	0.00153	0.47%
Fe 273.955†	180207.3		152.2 mg/L	0.84	304.3	mg/L	1.67	0.55%
K 766.490†	15387.1	5.746	mg/L	0.0385	11.49	mg/L	0.077	0.67%
Mg 279.077†	57370.1	51.23	mg/L	0.254	102.5	mg/L	0.51	0.50%
Mn 257.610†	114154.4	2.871	mg/L	0.0091	5.743	mg/L	0.0183	0.32%
Mo 202.031†	96.5	0.00852	mg/L	0.000311	0.01703	mg/L	0.000623	3.66%
Na 589.592†	7774.5	1.251	mg/L	0.0022	2.501	mg/L	0.0043	0.17%
Na 330.237†	37.4	2.490	mg/L	0.1401	4.980	mg/L	0.2802	5.63%
Ni 231.604†	757.1	0.4102	mg/L	0.00255	0.8204	mg/L	0.00510	0.62%
Pb 220.353†	-76.3	0.01821	mg/L	0.001348	0.03643	mg/L	0.002697	7.40%
Sb 206.836†	80.7	-0.01082	mg/L	0.002039	-0.02163	mg/L	0.004079	18.85%
Se 196.026†	-70.3	-0.01802	mg/L	0.000957	-0.03604	mg/L	0.001915	5.31%
Si 288.158†	3130.2	2.409	mg/L	0.0099	4.817	mg/L	0.0199	0.41%
Sn 189.927†	-42.5	-0.00568	mg/L	0.000584	-0.01136	mg/L	0.001168	10.28%
Sr 421.552†	129752.5	0.2609	mg/L	0.00052	0.5218	mg/L	0.00104	0.20%
Ti 334.903†	114809.3	5.737	mg/L	0.0163	11.47	mg/L	0.033	0.28%
Tl 190.801†	-10.5	-0.02091	mg/L	0.002172	-0.04183	mg/L	0.004345	10.39%
V 292.402†	44016.6	0.3371	mg/L	0.00230	0.6743	mg/L	0.00460	0.68%
Zn 206.200†	667.4	0.2842	mg/L	0.00219	0.5683	mg/L	0.00438	0.77%

Sequence No.: 47

Sample ID: RG78 E SWC

Autosampler Location: 57

Date Collected: 8/11/2010 9:31:56 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 E SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 E SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2276252.8	109.0	%	0.48				0.44%
ScR 361.383	261528.2	110.4	%	0.68				0.61%
Ag 328.068†	-939.3	0.00026	mg/L	0.000146	0.00053	mg/L	0.000292	55.61%
Al 308.215†	206591.4	149.7	mg/L	0.18	299.4	mg/L	0.37	0.12%
As 188.979†	101.5	0.07619	mg/L	0.001324	0.1524	mg/L	0.00265	1.74%
B 249.677†	35.4	0.01605	mg/L	0.000748	0.03211	mg/L	0.001496	4.66%
Ba 233.527†	6103.0	0.7518	mg/L	0.00259	1.504	mg/L	0.0052	0.34%
Be 313.042†	904.3	0.00202	mg/L	0.000023	0.00404	mg/L	0.000046	1.14%
Ca 317.933†	267096.5	28.12	mg/L	0.064	56.24	mg/L	0.129	0.23%
Cd 228.802†	188.1	0.00337	mg/L	0.000064	0.00674	mg/L	0.000127	1.89%
Co 228.616†	3584.5	0.05632	mg/L	0.000395	0.1126	mg/L	0.00079	0.70%
Cr 267.716†	1100.8	0.2738	mg/L	0.00164	0.5476	mg/L	0.00328	0.60%
Cu 324.752†	34610.0	0.1707	mg/L	0.00140	0.3415	mg/L	0.00280	0.82%
Fe 273.955†	171428.6	144.8	mg/L	0.91	289.5	mg/L	1.82	0.63%
K 766.490†	10463.0	3.907	mg/L	0.0088	7.814	mg/L	0.0177	0.23%
Mg 279.077†	43564.2	38.89	mg/L	0.079	77.78	mg/L	0.159	0.20%
Mn 257.610†	103852.8	2.612	mg/L	0.0009	5.225	mg/L	0.0019	0.04%
Mo 202.031†	79.4	0.00698	mg/L	0.000780	0.01395	mg/L	0.001561	11.19%
Na 589.592†	7394.1	1.189	mg/L	0.0047	2.379	mg/L	0.0095	0.40%
Na 330.237†	29.9	2.274	mg/L	0.0783	4.547	mg/L	0.1567	3.45%
Ni 231.604†	592.9	0.3212	mg/L	0.00104	0.6425	mg/L	0.00208	0.32%
Pb 220.353†	3388.6	0.4585	mg/L	0.00243	0.9170	mg/L	0.00486	0.53%
Sb 206.836†	88.6	-0.00821	mg/L	0.001522	-0.01642	mg/L	0.003044	18.54%
Se 196.026†	-60.2	-0.00583	mg/L	0.001461	-0.01166	mg/L	0.002923	25.06%
Si 288.158†	4037.0	3.103	mg/L	0.0151	6.205	mg/L	0.0302	0.49%
Sn 189.927†	-14.2	0.00143	mg/L	0.000382	0.00285	mg/L	0.000765	26.81%
Sr 421.552†	92648.6	0.1863	mg/L	0.00066	0.3726	mg/L	0.00132	0.35%
Ti 334.903†	133033.4	6.649	mg/L	0.0101	13.30	mg/L	0.020	0.15%
Tl 190.801†	-5.6	-0.01973	mg/L	0.001770	-0.03945	mg/L	0.003541	8.97%
V 292.402†	46150.5	0.3545	mg/L	0.00294	0.7090	mg/L	0.00588	0.83%
Zn 206.200†	1616.6	0.6853	mg/L	0.00205	1.371	mg/L	0.0041	0.30%

Sequence No.: 48
Sample ID: RG78 F SWC

Autosampler Location: 58
Date Collected: 8/11/2010 9:37:58 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 F SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG78 F SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2270303.8		108.7 %	0.40				0.37%
ScR 361.383	264559.8		111.7 %	0.78				0.70%
Ag 328.068†	-946.8	0.00012	mg/L	0.000099	0.00025	mg/L	0.000199	80.48%
Al 308.215†	170531.7		123.6 mg/L	0.26	247.1	mg/L	0.51	0.21%
As 188.979†	31.3	0.03275	mg/L	0.002886	0.06549	mg/L	0.005772	8.81%
B 249.677†	32.4	0.01466	mg/L	0.001782	0.02931	mg/L	0.003564	12.16%
Ba 233.527†	5230.2	0.6434	mg/L	0.00269	1.287	mg/L	0.0054	0.42%
Be 313.042†	698.2	0.00135	mg/L	0.000034	0.00269	mg/L	0.000069	2.55%
Ca 317.933†	311597.2		32.80 mg/L	0.064	65.61	mg/L	0.128	0.20%
Cd 228.802†	169.8	0.00309	mg/L	0.000118	0.00619	mg/L	0.000236	3.81%
Co 228.616†	3668.3	0.05778	mg/L	0.000363	0.1156	mg/L	0.00073	0.63%
Cr 267.716†	1011.5	0.2515	mg/L	0.00195	0.5030	mg/L	0.00390	0.78%
Cu 324.752†	39259.5	0.1920	mg/L	0.00148	0.3840	mg/L	0.00296	0.77%
Fe 273.955†	169861.0		143.4 mg/L	0.24	286.9	mg/L	0.48	0.17%
K 766.490†	13224.6	4.938	mg/L	0.0135	9.877	mg/L	0.0270	0.27%
Mg 279.077†	46905.0	41.88	mg/L	0.047	83.76	mg/L	0.094	0.11%
Mn 257.610†	105981.9	2.666	mg/L	0.0027	5.332	mg/L	0.0054	0.10%
Mo 202.031†	85.0	0.00748	mg/L	0.000299	0.01495	mg/L	0.000598	4.00%
Na 589.592†	12854.4	2.068	mg/L	0.0042	4.135	mg/L	0.0084	0.20%
Na 330.237†	52.7	3.245	mg/L	0.1870	6.489	mg/L	0.3739	5.76%
Ni 231.604†	452.1	0.2450	mg/L	0.00104	0.4899	mg/L	0.00208	0.42%
Pb 220.353†	3100.4	0.4150	mg/L	0.00123	0.8300	mg/L	0.00247	0.30%
Sb 206.836†	68.9	-0.01088	mg/L	0.003322	-0.02175	mg/L	0.006644	30.54%
Se 196.026†	-58.2	-0.00942	mg/L	0.002592	-0.01883	mg/L	0.005183	27.52%
Si 288.158†	1223.2	0.9443	mg/L	0.00586	1.889	mg/L	0.0117	0.62%
Sn 189.927†	48.8	0.01831	mg/L	0.000734	0.03663	mg/L	0.001468	4.01%
Sr 421.552†	98874.6	0.1988	mg/L	0.00037	0.3976	mg/L	0.00075	0.19%
Ti 334.903†	134992.2	6.746	mg/L	0.0008	13.49	mg/L	0.002	0.01%
Tl 190.801†	-5.2	-0.01970	mg/L	0.001338	-0.03940	mg/L	0.002676	6.79%
V 292.402†	44626.1	0.3420	mg/L	0.00305	0.6841	mg/L	0.00611	0.89%
Zn 206.200†	1590.4	0.6744	mg/L	0.00187	1.349	mg/L	0.0037	0.28%

Sequence No.: 49
Sample ID: RG78 JDUP SWC

Autosampler Location: 59
Date Collected: 8/11/2010 9:44:00 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 JDUP SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG78 JDUP SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2263566.2	108.4 %		0.96			0.88%
ScR 361.383	260399.4	110.0 %		0.76			0.69%
Ag 328.068†	-851.8	0.00033 mg/L		0.000035	0.00065 mg/L	0.000070	10.71%
Al 308.215†	202227.8	146.5 mg/L		0.28	293.1 mg/L	0.55	0.19%
As 188.979†	77.8	0.05879 mg/L		0.001256	0.1176 mg/L	0.00251	2.14%
B 249.677†	42.4	0.01932 mg/L		0.001124	0.03864 mg/L	0.002247	5.82%
Ba 233.527†	5072.0	0.6240 mg/L		0.00242	1.248 mg/L	0.0048	0.39%
Be 313.042†	882.2	0.00205 mg/L		0.000034	0.00410 mg/L	0.000068	1.66%
Ca 317.933†	274403.7	28.89 mg/L		0.067	57.78 mg/L	0.133	0.23%
Cd 228.802†	178.5	0.00321 mg/L		0.000134	0.00642 mg/L	0.000269	4.19%
Co 228.616†	3156.8	0.05060 mg/L		0.000533	0.1012 mg/L	0.00107	1.05%
Cr 267.716†	807.1	0.2010 mg/L		0.00062	0.4019 mg/L	0.00124	0.31%
Cu 324.752†	30984.8	0.1538 mg/L		0.00255	0.3076 mg/L	0.00511	1.66%
Fe 273.955†	163997.1	138.5 mg/L		0.42	277.0 mg/L	0.83	0.30%
K 766.490†	11486.6	4.289 mg/L		0.0277	8.579 mg/L	0.0554	0.65%
Mg 279.077†	43424.7	38.77 mg/L		0.068	77.53 mg/L	0.136	0.18%
Mn 257.610†	131671.2	3.312 mg/L		0.0036	6.624 mg/L	0.0072	0.11%
Mo 202.031†	51.7	0.00452 mg/L		0.000094	0.00903 mg/L	0.000188	2.08%
Na 589.592†	7411.3	1.192 mg/L		0.0057	2.384 mg/L	0.0114	0.48%
Na 330.237†	38.6	2.311 mg/L		0.2724	4.622 mg/L	0.5447	11.79%
Ni 231.604†	513.6	0.2783 mg/L		0.00068	0.5565 mg/L	0.00135	0.24%
Pb 220.353†	2103.9	0.2966 mg/L		0.00221	0.5932 mg/L	0.00442	0.75%
Sb 206.836†	83.8	-0.00962 mg/L		0.002898	-0.01924 mg/L	0.005796	30.12%
Se 196.026†	-63.6	-0.01138 mg/L		0.003084	-0.02275 mg/L	0.006169	27.11%
Si 288.158†	1394.1	1.075 mg/L		0.0069	2.150 mg/L	0.0138	0.64%
Sn 189.927†	-11.6	0.00163 mg/L		0.000112	0.00325 mg/L	0.000224	6.90%
Sr 421.552†	60849.0	0.1224 mg/L		0.00042	0.2447 mg/L	0.00085	0.35%
Ti 334.903†	105664.8	5.280 mg/L		0.0064	10.56 mg/L	0.013	0.12%
Tl 190.801†	-11.8	-0.02110 mg/L		0.002687	-0.04220 mg/L	0.005375	12.74%
V 292.402†	42154.6	0.3235 mg/L		0.00752	0.6471 mg/L	0.01504	2.32%
Zn 206.200†	1938.8	0.8216 mg/L		0.00316	1.643 mg/L	0.0063	0.38%

Sequence No.: 50

Sample ID: RG78 J SWC

Autosampler Location: 60

Date Collected: 8/11/2010 9:50:01 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 J SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 J SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2224093.9	106.5	%	0.49			0.46%
ScR 361.383	255374.6	107.8	%	0.54			0.50%
Ag 328.068†	-883.2	0.00028	mg/L	0.000128	0.00056	mg/L	0.000256 46.05%
Al 308.215†	219119.8	158.8	mg/L	0.60	317.6	mg/L	1.21 0.38%
As 188.979†	82.9	0.06162	mg/L	0.001039	0.1232	mg/L	0.00208 1.69%
B 249.677†	46.5	0.02117	mg/L	0.002352	0.04235	mg/L	0.004704 11.11%
Ba 233.527†	5955.0	0.7336	mg/L	0.00763	1.467	mg/L	0.0153 1.04%
Be 313.042†	932.6	0.00223	mg/L	0.000056	0.00445	mg/L	0.000112 2.52%
Ca 317.933†	255490.0	26.90	mg/L	0.167	53.79	mg/L	0.335 0.62%
Cd 228.802†	191.8	0.00345	mg/L	0.000118	0.00691	mg/L	0.000236 3.41%
Co 228.616†	3465.3	0.05670	mg/L	0.000309	0.1134	mg/L	0.00062 0.55%
Cr 267.716†	977.5	0.2432	mg/L	0.00226	0.4863	mg/L	0.00452 0.93%
Cu 324.752†	32199.6	0.1597	mg/L	0.00232	0.3194	mg/L	0.00465 1.46%
Fe 273.955†	167228.3	141.2	mg/L	0.44	282.4	mg/L	0.88 0.31%
K 766.490†	10993.7	4.105	mg/L	0.0371	8.211	mg/L	0.0741 0.90%
Mg 279.077†	45726.1	40.82	mg/L	0.216	81.65	mg/L	0.432 0.53%
Mn 257.610†	134198.0	3.376	mg/L	0.0143	6.751	mg/L	0.0286 0.42%
Mo 202.031†	54.4	0.00475	mg/L	0.000397	0.00950	mg/L	0.000794 8.36%
Na 589.592†	10456.4	1.682	mg/L	0.0037	3.364	mg/L	0.0075 0.22%
Na 330.237†	51.5	2.814	mg/L	0.0627	5.627	mg/L	0.1253 2.23%
Ni 231.604†	578.6	0.3135	mg/L	0.00296	0.6270	mg/L	0.00591 0.94%
Pb 220.353†	1806.4	0.2626	mg/L	0.00101	0.5252	mg/L	0.00201 0.38%
Sb 206.836†	102.1	-0.00492	mg/L	0.003955	-0.00983	mg/L	0.007911 80.45%
Se 196.026†	-70.2	-0.01484	mg/L	0.001928	-0.02969	mg/L	0.003855 12.99%
Si 288.158†	1416.4	1.092	mg/L	0.0101	2.185	mg/L	0.0201 0.92%
Sn 189.927†	-12.6	0.00125	mg/L	0.000128	0.00249	mg/L	0.000256 10.29%
Sr 421.552†	73959.3	0.1487	mg/L	0.00060	0.2974	mg/L	0.00120 0.40%
Ti 334.903†	102577.4	5.126	mg/L	0.0241	10.25	mg/L	0.048 0.47%
Tl 190.801†	-4.9	-0.01763	mg/L	0.000069	-0.03526	mg/L	0.000137 0.39%
V 292.402†	41887.2	0.3214	mg/L	0.00543	0.6429	mg/L	0.01086 1.69%
Zn 206.200†	2152.1	0.9118	mg/L	0.01063	1.824	mg/L	0.0213 1.17%

Sequence No.: 51

Sample ID: RG78 JSPK SWC

Autosampler Location: 61

Date Collected: 8/11/2010 9:56:02 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 JSPK SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 JSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2249574.8	107.8	%	0.53			0.49%
ScR 361.383	260496.4	110.0	%	0.20			0.18%
Ag 328.068†	86508.9	0.4442	mg/L	0.00077	0.8885	mg/L	0.00154 0.17%
Al 308.215†	204212.9	148.0	mg/L	0.53	295.9	mg/L	1.06 0.36%
As 188.979†	2927.4	1.831	mg/L	0.0091	3.662	mg/L	0.0181 0.50%
B 249.677†	47.2	0.02011	mg/L	0.002234	0.04023	mg/L	0.004467 11.10%
Ba 233.527†	18805.1	2.332	mg/L	0.0056	4.663	mg/L	0.0113 0.24%
Be 313.042†	133553.8	0.4532	mg/L	0.00137	0.9064	mg/L	0.00273 0.30%
Ca 317.933†	319162.3	33.60	mg/L	0.100	67.20	mg/L	0.200 0.30%
Cd 228.802†	25258.2	0.4528	mg/L	0.00155	0.9056	mg/L	0.00310 0.34%
Co 228.616†	25356.4	0.4722	mg/L	0.00214	0.9445	mg/L	0.00427 0.45%
Cr 267.716†	2754.2	0.6826	mg/L	0.00385	1.365	mg/L	0.0077 0.56%
Cu 324.752†	129920.3	0.6096	mg/L	0.00096	1.219	mg/L	0.0019 0.16%
Fe 273.955†	158597.6	133.9	mg/L	1.17	267.8	mg/L	2.33 0.87%
K 766.490†	33208.1	12.40	mg/L	0.023	24.80	mg/L	0.045 0.18%
Mg 279.077†	54939.0	49.07	mg/L	0.148	98.14	mg/L	0.295 0.30%
Mn 257.610†	139506.4	3.510	mg/L	0.0076	7.020	mg/L	0.0152 0.22%
Mo 202.031†	62.1	0.00537	mg/L	0.000774	0.01073	mg/L	0.001548 14.43%
Na 589.592†	63308.6	10.18	mg/L	0.040	20.37	mg/L	0.080 0.40%
Na 330.237†	253.5	11.30	mg/L	0.082	22.60	mg/L	0.165 0.73%
Ni 231.604†	1300.1	0.7036	mg/L	0.00199	1.407	mg/L	0.0040 0.28%
Pb 220.353†	15259.7	1.950	mg/L	0.0055	3.899	mg/L	0.0110 0.28%
Sb 206.836†	103.2	-0.00651	mg/L	0.002203	-0.01303	mg/L	0.004407 33.83%
Se 196.026†	1825.2	1.792	mg/L	0.0040	3.584	mg/L	0.0079 0.22%
Si 288.158†	1455.0	1.123	mg/L	0.0100	2.247	mg/L	0.0200 0.89%
Sn 189.927†	6.6	0.00685	mg/L	0.001016	0.01370	mg/L	0.002031 14.83%
Sr 421.552†	281241.4	0.5655	mg/L	0.00259	1.131	mg/L	0.0052 0.46%
Ti 334.903†	100845.6	5.039	mg/L	0.0145	10.08	mg/L	0.029 0.29%
Tl 190.801†	3602.2	1.711	mg/L	0.0073	3.423	mg/L	0.0146 0.43%
V 292.402†	93165.3	0.7418	mg/L	0.00128	1.484	mg/L	0.0026 0.17%
Zn 206.200†	2904.7	1.230	mg/L	0.0085	2.461	mg/L	0.0170 0.69%

Sequence No.: 52

Sample ID: RG78 REF1 SWC

Autosampler Location: 62

Date Collected: 8/11/2010 10:01:53 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 REF1 SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 REF1 SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2291739.1	109.8	%	0.98			0.89%
ScR 361.383	270915.1	114.4	%	0.55			0.48%
Ag 328.068†	181844.7	0.9283	mg/L	0.01347	1.857 mg/L	0.0269	1.45%
Al 308.215†	110130.6	79.79	mg/L	0.439	159.6 mg/L	0.88	0.55%
As 188.979†	1911.5	1.192	mg/L	0.0120	2.383 mg/L	0.0240	1.01%
B 249.677†	2105.9	0.9689	mg/L	0.01214	1.938 mg/L	0.0243	1.25%
Ba 233.527†	22264.7	2.762	mg/L	0.0178	5.525 mg/L	0.0355	0.64%
Be 313.042†	236508.6	0.8042	mg/L	0.00465	1.608 mg/L	0.0093	0.58%
Ca 317.933†	347276.5	36.56	mg/L	0.202	73.12 mg/L	0.405	0.55%
Cd 228.802†	35367.9	0.6363	mg/L	0.01132	1.273 mg/L	0.0226	1.78%
Co 228.616†	34061.3	0.6433	mg/L	0.00866	1.287 mg/L	0.0173	1.35%
Cr 267.716†	2618.0	0.6493	mg/L	0.00612	1.299 mg/L	0.0122	0.94%
Cu 324.752†	132217.2	0.6201	mg/L	0.00763	1.240 mg/L	0.0153	1.23%
Fe 273.955†	146669.9	123.8	mg/L	1.10	247.7 mg/L	2.20	0.89%
K 766.490†	83543.6	31.20	mg/L	0.143	62.39 mg/L	0.285	0.46%
Mg 279.077†	26500.7	23.64	mg/L	0.149	47.27 mg/L	0.299	0.63%
Mn 257.610†	159751.5	4.019	mg/L	0.0172	8.039 mg/L	0.0344	0.43%
Mo 202.031†	4584.3	0.4065	mg/L	0.00192	0.8131 mg/L	0.00385	0.47%
Na 589.592†	31316.7	5.037	mg/L	0.0156	10.07 mg/L	0.031	0.31%
Na 330.237†	149.0	6.019	mg/L	0.2026	12.04 mg/L	0.405	3.37%
Ni 231.604†	907.7	0.4917	mg/L	0.00475	0.9834 mg/L	0.00950	0.97%
Pb 220.353†	8971.2	1.141	mg/L	0.0065	2.283 mg/L	0.0130	0.57%
Sb 206.836†	1001.6	0.4633	mg/L	0.00506	0.9266 mg/L	0.01011	1.09%
Se 196.026†	1520.0	1.485	mg/L	0.0120	2.969 mg/L	0.0239	0.81%
Si 288.158†	2263.3	1.741	mg/L	0.0104	3.482 mg/L	0.0209	0.60%
Sn 189.927†	5483.8	1.441	mg/L	0.0066	2.881 mg/L	0.0133	0.46%
Sr 421.552†	248057.8	0.4988	mg/L	0.00321	0.9975 mg/L	0.00643	0.64%
Ti 334.903†	35004.9	1.748	mg/L	0.0069	3.496 mg/L	0.0139	0.40%
Tl 190.801†	2546.9	1.208	mg/L	0.0074	2.417 mg/L	0.0148	0.61%
V 292.402†	91096.7	0.7313	mg/L	0.01339	1.463 mg/L	0.0268	1.83%
Zn 206.200†	3625.6	1.535	mg/L	0.0094	3.069 mg/L	0.0189	0.61%

Sequence No.: 53

Autosampler Location: 63

Sample ID: RG78 MB1SPK SWC

Date Collected: 8/11/2010 10:07:45 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 MB1SPK SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG78 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2297139.9	110.0	%	0.76				0.70%
ScR 361.383	261089.1	110.2	%	0.76				0.69%
Ag 328.068†	89915.5	0.4571	mg/L	0.00351	0.9142	mg/L	0.00702	0.77%
Al 308.215†	2662.5	1.922	mg/L	0.0105	3.845	mg/L	0.0210	0.55%
As 188.979†	3018.2	1.878	mg/L	0.0125	3.755	mg/L	0.0250	0.67%
B 249.677†	5.6	0.00111	mg/L	0.001550	0.00221	mg/L	0.003100	140.17%
Ba 233.527†	14645.3	1.821	mg/L	0.0123	3.641	mg/L	0.0247	0.68%
Be 313.042†	137894.2	0.4688	mg/L	0.00153	0.9376	mg/L	0.00306	0.33%
Ca 317.933†	89164.3	9.387	mg/L	0.0317	18.77	mg/L	0.063	0.34%
Cd 228.802†	26061.1	0.4671	mg/L	0.00584	0.9342	mg/L	0.01168	1.25%
Co 228.616†	23688.5	0.4495	mg/L	0.00493	0.8989	mg/L	0.00986	1.10%
Cr 267.716†	1880.9	0.4653	mg/L	0.00440	0.9307	mg/L	0.00879	0.94%
Cu 324.752†	99115.3	0.4571	mg/L	0.00480	0.9143	mg/L	0.00960	1.05%
Fe 273.955†	2294.9	1.937	mg/L	0.0165	3.875	mg/L	0.0329	0.85%
K 766.490†	25350.4	9.466	mg/L	0.0431	18.93	mg/L	0.086	0.46%
Mg 279.077†	10579.4	9.464	mg/L	0.0409	18.93	mg/L	0.082	0.43%
Mn 257.610†	18210.1	0.4587	mg/L	0.00225	0.9174	mg/L	0.00451	0.49%
Mo 202.031†	8.1	0.00065	mg/L	0.000551	0.00130	mg/L	0.001102	84.82%
Na 589.592†	58118.8	9.349	mg/L	0.0346	18.70	mg/L	0.069	0.37%
Na 330.237†	250.9	10.53	mg/L	0.073	21.07	mg/L	0.145	0.69%
Ni 231.604†	839.2	0.4538	mg/L	0.00444	0.9077	mg/L	0.00889	0.98%
Pb 220.353†	14701.3	1.847	mg/L	0.0223	3.694	mg/L	0.0447	1.21%
Sb 206.836†	1.6	-0.00599	mg/L	0.001636	-0.01199	mg/L	0.003273	27.30%
Se 196.026†	1984.2	1.895	mg/L	0.0081	3.791	mg/L	0.0162	0.43%
Si 288.158†	4.5	0.00516	mg/L	0.002145	0.01032	mg/L	0.004290	41.59%
Sn 189.927†	-8.4	-0.00143	mg/L	0.000541	-0.00286	mg/L	0.001083	37.84%
Sr 421.552†	231478.4	0.4654	mg/L	0.00150	0.9309	mg/L	0.00300	0.32%
Ti 334.903†	-8.5	-0.00090	mg/L	0.000471	-0.00180	mg/L	0.000942	52.32%
Tl 190.801†	3842.6	1.841	mg/L	0.0070	3.682	mg/L	0.0140	0.38%
V 292.402†	57030.6	0.4661	mg/L	0.00503	0.9322	mg/L	0.01005	1.08%
Zn 206.200†	1067.5	0.4518	mg/L	0.00219	0.9036	mg/L	0.00437	0.48%

Sequence No.: 54

Sample ID: CV S

Autosampler Location: 7

Date Collected: 8/11/2010 10:13:48 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2287720.4	109.6	%	0.19				0.17%
ScR 361.383	263339.4	111.2	%	1.07				0.96%
Ag 328.068†	173935.7	0.8841	mg/L	0.00379	0.8841	mg/L	0.00379	0.43%
Al 308.215†	2605.4	1.853	mg/L	0.0108	1.853	mg/L	0.0108	0.58%
As 188.979†	2931.9	1.824	mg/L	0.0093	1.824	mg/L	0.0093	0.51%
B 249.677†	1901.1	0.8746	mg/L	0.00947	0.8746	mg/L	0.00947	1.08%
Ba 233.527†	7194.9	0.8942	mg/L	0.00842	0.8942	mg/L	0.00842	0.94%
Be 313.042†	264179.4	0.8981	mg/L	0.00165	0.8981	mg/L	0.00165	0.18%
Ca 317.933†	17704.2	1.864	mg/L	0.0165	1.864	mg/L	0.0165	0.88%
Cd 228.802†	52174.6	0.9387	mg/L	0.00786	0.9387	mg/L	0.00786	0.84%
Co 228.616†	47245.1	0.8958	mg/L	0.00657	0.8958	mg/L	0.00657	0.73%
Cr 267.716†	3634.8	0.8998	mg/L	0.00880	0.8998	mg/L	0.00880	0.98%
Cu 324.752†	207861.3	0.9580	mg/L	0.00628	0.9580	mg/L	0.00628	0.66%
Fe 273.955†	2123.6	1.792	mg/L	0.0194	1.792	mg/L	0.0194	1.08%
K 766.490†	49393.7	18.44	mg/L	0.018	18.44	mg/L	0.018	0.10%
Mg 279.077†	2039.7	1.828	mg/L	0.0167	1.828	mg/L	0.0167	0.92%
Mn 257.610†	36054.8	0.9077	mg/L	0.00173	0.9077	mg/L	0.00173	0.19%
Mo 202.031†	10080.3	0.8941	mg/L	0.00429	0.8941	mg/L	0.00429	0.48%
Na 589.592†	282044.6	45.37	mg/L	0.092	45.37	mg/L	0.092	0.20%
Na 330.237†	1096.3	46.83	mg/L	0.278	46.83	mg/L	0.278	0.59%
Ni 231.604†	1658.8	0.8994	mg/L	0.00737	0.8994	mg/L	0.00737	0.82%
Pb 220.353†	14567.2	1.830	mg/L	0.0159	1.830	mg/L	0.0159	0.87%
Sb 206.836†	3955.9	1.942	mg/L	0.0124	1.942	mg/L	0.0124	0.64%
Se 196.026†	1899.4	1.813	mg/L	0.0102	1.813	mg/L	0.0102	0.56%
Si 288.158†	2535.4	1.948	mg/L	0.0218	1.948	mg/L	0.0218	1.12%
Sn 189.927†	3222.6	0.8451	mg/L	0.00637	0.8451	mg/L	0.00637	0.75%
Sr 421.552†	453800.1	0.9125	mg/L	0.00264	0.9125	mg/L	0.00264	0.29%
Ti 334.903†	18193.2	0.9083	mg/L	0.00276	0.9083	mg/L	0.00276	0.30%
Tl 190.801†	3732.6	1.782	mg/L	0.0069	1.782	mg/L	0.0069	0.38%
V 292.402†	110231.7	0.9060	mg/L	0.00754	0.9060	mg/L	0.00754	0.83%
Zn 206.200†	2125.3	0.8983	mg/L	0.00697	0.8983	mg/L	0.00697	0.78%

Sequence No.: 55

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 10:19:49 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2250720.4	107.8	%	2.94				2.73%
ScR 361.383	260954.6	110.2	%	0.62				0.56%
Ag 328.068†	-22.8	-0.00012	mg/L	0.000154	-0.00012	mg/L	0.000154	132.44%
Al 308.215†	7.4	0.00535	mg/L	0.012828	0.00535	mg/L	0.012828	239.57%
As 188.979†	-0.9	-0.00055	mg/L	0.001509	-0.00055	mg/L	0.001509	274.57%
B 249.677†	3.2	0.00146	mg/L	0.002839	0.00146	mg/L	0.002839	195.07%
Ba 233.527†	-2.8	-0.00034	mg/L	0.000029	-0.00034	mg/L	0.000029	8.48%
Be 313.042†	-18.7	-0.00006	mg/L	0.000072	-0.00006	mg/L	0.000072	115.32%
Ca 317.933†	6.8	0.00071	mg/L	0.002268	0.00071	mg/L	0.002268	317.84%
Cd 228.802†	-1.2	-0.00002	mg/L	0.000159	-0.00002	mg/L	0.000159	854.86%
Co 228.616†	11.8	0.00023	mg/L	0.000108	0.00023	mg/L	0.000108	47.84%
Cr 267.716†	6.2	0.00152	mg/L	0.000900	0.00152	mg/L	0.000900	59.10%
Cu 324.752†	-84.1	-0.00039	mg/L	0.000222	-0.00039	mg/L	0.000222	57.30%
Fe 273.955†	6.1	0.00515	mg/L	0.001614	0.00515	mg/L	0.001614	31.35%
K 766.490†	-267.7	-0.09996	mg/L	0.013128	-0.09996	mg/L	0.013128	13.13%
Mg 279.077†	2.6	0.00231	mg/L	0.001461	0.00231	mg/L	0.001461	63.29%
Mn 257.610†	17.0	0.00043	mg/L	0.000026	0.00043	mg/L	0.000026	6.15%
Mo 202.031†	-0.1	-0.00001	mg/L	0.000296	-0.00001	mg/L	0.000296	>999.9%
Na 589.592†	46.6	0.00750	mg/L	0.007062	0.00750	mg/L	0.007062	94.21%
Na 330.237†	24.6	1.054	mg/L	0.1859	1.054	mg/L	0.1859	17.64%
Ni 231.604†	10.0	0.00542	mg/L	0.001719	0.00542	mg/L	0.001719	31.75%
Pb 220.353†	-9.8	-0.00122	mg/L	0.000358	-0.00122	mg/L	0.000358	29.28%
Sb 206.836†	-10.4	-0.00514	mg/L	0.004252	-0.00514	mg/L	0.004252	82.65%
Se 196.026†	-0.4	-0.00038	mg/L	0.004394	-0.00038	mg/L	0.004394	>999.9%
Si 288.158†	3.1	0.00237	mg/L	0.000538	0.00237	mg/L	0.000538	22.66%
Sn 189.927†	3.2	0.00083	mg/L	0.000542	0.00083	mg/L	0.000542	65.39%
Sr 421.552†	-71.7	-0.00014	mg/L	0.000086	-0.00014	mg/L	0.000086	59.39%
Ti 334.903†	-19.2	-0.00096	mg/L	0.000893	-0.00096	mg/L	0.000893	92.99%
Tl 190.801†	-3.1	-0.00151	mg/L	0.000893	-0.00151	mg/L	0.000893	59.15%
V 292.402†	-47.7	-0.00038	mg/L	0.000204	-0.00038	mg/L	0.000204	54.11%
Zn 206.200†	0.3	0.00015	mg/L	0.000736	0.00015	mg/L	0.000736	504.29%

Sequence No.: 56
Sample ID: RG78 G SWC

Autosampler Location: 64
Date Collected: 8/11/2010 10:25:47 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 G SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2272755.5	108.9	%	1.32			1.21%
ScR 361.383	260947.4	110.2	%	1.78			1.61%
Ag 328.068†	-895.2	0.00057	mg/L	0.000513	0.00113 mg/L	0.001027	90.70%
Al 308.215†	197850.2	143.4	mg/L	2.32	286.7 mg/L	4.65	1.62%
As 188.979†	30.7	0.03233	mg/L	0.000507	0.06466 mg/L	0.001013	1.57%
B 249.677†	55.3	0.02517	mg/L	0.002757	0.05034 mg/L	0.005515	10.95%
Ba 233.527†	5863.9	0.7218	mg/L	0.00921	1.444 mg/L	0.0184	1.28%
Be 313.042†	821.7	0.00170	mg/L	0.000063	0.00340 mg/L	0.000127	3.73%
Ca 317.933†	364075.4	38.33	mg/L	0.522	76.66 mg/L	1.045	1.36%
Cd 228.802†	181.9	0.00333	mg/L	0.000122	0.00666 mg/L	0.000244	3.67%
Co 228.616†	3926.5	0.06267	mg/L	0.000555	0.1253 mg/L	0.00111	0.89%
Cr 267.716†	1179.8	0.2931	mg/L	0.00211	0.5861 mg/L	0.00423	0.72%
Cu 324.752†	35324.6	0.1746	mg/L	0.00289	0.3493 mg/L	0.00577	1.65%
Fe 273.955†	179842.5	151.9	mg/L	2.80	303.7 mg/L	5.60	1.84%
K 766.490†	16102.6	6.013	mg/L	0.1058	12.03 mg/L	0.212	1.76%
Mg 279.077†	54694.6	48.84	mg/L	0.726	97.68 mg/L	1.453	1.49%
Mn 257.610†	130978.1	3.295	mg/L	0.0537	6.590 mg/L	0.1074	1.63%
Mo 202.031†	50.5	0.00440	mg/L	0.000188	0.00881 mg/L	0.000377	4.28%
Na 589.592†	11366.3	1.828	mg/L	0.0319	3.657 mg/L	0.0638	1.74%
Na 330.237†	49.3	3.035	mg/L	0.2023	6.069 mg/L	0.4046	6.67%
Ni 231.604†	559.3	0.3030	mg/L	0.00184	0.6061 mg/L	0.00368	0.61%
Pb 220.353†	2484.6	0.3428	mg/L	0.00222	0.6856 mg/L	0.00444	0.65%
Sb 206.836†	87.7	-0.00833	mg/L	0.002874	-0.01666 mg/L	0.005748	34.51%
Se 196.026†	-61.1	-0.00739	mg/L	0.002458	-0.01478 mg/L	0.004916	33.26%
Si 288.158†	2149.8	1.656	mg/L	0.0182	3.312 mg/L	0.0363	1.10%
Sn 189.927†	12.1	0.00917	mg/L	0.000841	0.01835 mg/L	0.001682	9.17%
Sr 421.552†	104823.9	0.2108	mg/L	0.00364	0.4215 mg/L	0.00729	1.73%
Ti 334.903†	134844.1	6.739	mg/L	0.1011	13.48 mg/L	0.202	1.50%
Tl 190.801†	-2.5	-0.01941	mg/L	0.001866	-0.03881 mg/L	0.003731	9.61%
V 292.402†	47799.9	0.3672	mg/L	0.00614	0.7344 mg/L	0.01228	1.67%
Zn 206.200†	1770.0	0.7506	mg/L	0.00763	1.501 mg/L	0.0153	1.02%

Sequence No.: 57

Sample ID: RG78 H SWC

Autosampler Location: 65

Date Collected: 8/11/2010 10:31:50 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 H SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG78 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2269434.5	108.7	%	0.84				0.77%
ScR 361.383	264824.4	111.8	%	1.32				1.18%
Ag 328.068†	-926.6	0.00066	mg/L	0.000328	0.00132	mg/L	0.000657	49.69%
Al 308.215†	200164.9	145.0	mg/L	0.32	290.1	mg/L	0.63	0.22%
As 188.979†	37.6	0.03641	mg/L	0.002551	0.07283	mg/L	0.005102	7.01%
B 249.677†	57.4	0.02616	mg/L	0.001894	0.05232	mg/L	0.003788	7.24%
Ba 233.527†	6063.7	0.7464	mg/L	0.00744	1.493	mg/L	0.0149	1.00%
Be 313.042†	822.2	0.00166	mg/L	0.000032	0.00332	mg/L	0.000063	1.90%
Ca 317.933†	396624.5	41.75	mg/L	0.071	83.51	mg/L	0.142	0.17%
Cd 228.802†	199.0	0.00363	mg/L	0.000142	0.00726	mg/L	0.000284	3.92%
Co 228.616†	3656.4	0.05772	mg/L	0.000838	0.1154	mg/L	0.00168	1.45%
Cr 267.716†	1159.0	0.2878	mg/L	0.00153	0.5756	mg/L	0.00306	0.53%
Cu 324.752†	36758.1	0.1817	mg/L	0.00054	0.3633	mg/L	0.00109	0.30%
Fe 273.955†	185093.9	156.3	mg/L	0.86	312.6	mg/L	1.73	0.55%
K 766.490†	14234.0	5.315	mg/L	0.0639	10.63	mg/L	0.128	1.20%
Mg 279.077†	60648.9	54.17	mg/L	0.107	108.3	mg/L	0.21	0.20%
Mn 257.610†	107260.0	2.698	mg/L	0.0023	5.396	mg/L	0.0047	0.09%
Mo 202.031†	54.7	0.00477	mg/L	0.000185	0.00954	mg/L	0.000369	3.87%
Na 589.592†	23336.9	3.754	mg/L	0.0196	7.508	mg/L	0.0392	0.52%
Na 330.237†	99.0	5.090	mg/L	0.1330	10.18	mg/L	0.266	2.61%
Ni 231.604†	542.5	0.2939	mg/L	0.00350	0.5879	mg/L	0.00700	1.19%
Pb 220.353†	2545.5	0.3506	mg/L	0.00447	0.7012	mg/L	0.00894	1.27%
Sb 206.836†	90.1	-0.00825	mg/L	0.000386	-0.01649	mg/L	0.000773	4.68%
Se 196.026†	-63.9	-0.00842	mg/L	0.002633	-0.01684	mg/L	0.005266	31.27%
Si 288.158†	2023.0	1.560	mg/L	0.0152	3.119	mg/L	0.0303	0.97%
Sn 189.927†	7.8	0.00834	mg/L	0.001550	0.01668	mg/L	0.003100	18.58%
Sr 421.552†	131711.6	0.2648	mg/L	0.00085	0.5297	mg/L	0.00169	0.32%
Ti 334.903†	132685.0	6.631	mg/L	0.0070	13.26	mg/L	0.014	0.11%
Tl 190.801†	-6.9	-0.02060	mg/L	0.000418	-0.04120	mg/L	0.000837	2.03%
V 292.402†	49947.0	0.3841	mg/L	0.00152	0.7682	mg/L	0.00305	0.40%
Zn 206.200†	1997.2	0.8469	mg/L	0.00744	1.694	mg/L	0.0149	0.88%

Sequence No.: 58
 Sample ID: RG78 I SWC

Autosampler Location: 66
 Date Collected: 8/11/2010 10:37:54 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 I SWC

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

Mean Data: RG78 I SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2274915.2	109.0	%	0.28				0.25%
ScR 361.383	264448.6	111.7	%	0.54				0.48%
Ag 328.068†	-865.6	0.00040	mg/L	0.000182	0.00081	mg/L	0.000364	44.95%
Al 308.215†	200616.1	145.4	mg/L	0.83	290.7	mg/L	1.67	0.57%
As 188.979†	39.2	0.03631	mg/L	0.000666	0.07262	mg/L	0.001332	1.83%
B 249.677†	52.5	0.02391	mg/L	0.001084	0.04782	mg/L	0.002168	4.53%
Ba 233.527†	6576.2	0.8107	mg/L	0.00796	1.621	mg/L	0.0159	0.98%
Be 313.042†	783.4	0.00166	mg/L	0.000011	0.00332	mg/L	0.000022	0.66%
Ca 317.933†	347913.4	36.63	mg/L	0.238	73.25	mg/L	0.476	0.65%
Cd 228.802†	205.3	0.00374	mg/L	0.000068	0.00749	mg/L	0.000137	1.83%
Co 228.616†	3681.8	0.05917	mg/L	0.000412	0.1183	mg/L	0.00082	0.70%
Cr 267.716†	1097.4	0.2725	mg/L	0.00144	0.5450	mg/L	0.00289	0.53%
Cu 324.752†	41541.1	0.2028	mg/L	0.00121	0.4056	mg/L	0.00242	0.60%
Fe 273.955†	170896.5	144.3	mg/L	0.93	288.6	mg/L	1.86	0.64%
K 766.490†	15296.6	5.712	mg/L	0.0253	11.42	mg/L	0.051	0.44%
Mg 279.077†	55930.0	49.95	mg/L	0.335	99.90	mg/L	0.671	0.67%
Mn 257.610†	136304.2	3.429	mg/L	0.0213	6.858	mg/L	0.0426	0.62%
Mo 202.031†	103.7	0.00913	mg/L	0.000135	0.01826	mg/L	0.000271	1.48%
Na 589.592†	12586.2	2.025	mg/L	0.0041	4.049	mg/L	0.0082	0.20%
Na 330.237†	58.0	3.286	mg/L	0.2798	6.571	mg/L	0.5597	8.52%
Ni 231.604†	570.4	0.3091	mg/L	0.00263	0.6182	mg/L	0.00526	0.85%
Pb 220.353†	2373.9	0.3299	mg/L	0.00027	0.6598	mg/L	0.00054	0.08%
Sb 206.836†	89.0	-0.00777	mg/L	0.000998	-0.01553	mg/L	0.001995	12.84%
Se 196.026†	-60.1	-0.00749	mg/L	0.002973	-0.01497	mg/L	0.005945	39.71%
Si 288.158†	1570.4	1.212	mg/L	0.0091	2.424	mg/L	0.0181	0.75%
Sn 189.927†	-5.5	0.00425	mg/L	0.000956	0.00849	mg/L	0.001912	22.50%
Sr 421.552†	114303.1	0.2298	mg/L	0.00119	0.4597	mg/L	0.00239	0.52%
Ti 334.903†	121281.3	6.061	mg/L	0.0373	12.12	mg/L	0.075	0.62%
Tl 190.801†	-11.3	-0.02247	mg/L	0.002721	-0.04495	mg/L	0.005442	12.11%
V 292.402†	43919.7	0.3370	mg/L	0.00153	0.6741	mg/L	0.00306	0.45%
Zn 206.200†	1713.0	0.7265	mg/L	0.00739	1.453	mg/L	0.0148	1.02%

Sequence No.: 59

Autosampler Location: 67

Sample ID: RG78 K SWC

Date Collected: 8/11/2010 10:43:57 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 K SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 K SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2336839.1	111.9	%	0.14				0.12%
ScR 361.383	266459.0	112.5	%	0.39				0.35%
Ag 328.068†	-985.3	0.00057	mg/L	0.000139	0.00113	mg/L	0.000277	24.49%
Al 308.215†	162531.5	117.8	mg/L	0.23	235.5	mg/L	0.47	0.20%
As 188.979†	25.4	0.02904	mg/L	0.002482	0.05807	mg/L	0.004964	8.55%
B 249.677†	35.3	0.01596	mg/L	0.002141	0.03193	mg/L	0.004283	13.41%
Ba 233.527†	3698.7	0.4522	mg/L	0.00094	0.9043	mg/L	0.00188	0.21%
Be 313.042†	726.2	0.00128	mg/L	0.000041	0.00257	mg/L	0.000082	3.22%
Ca 317.933†	352376.4	37.10	mg/L	0.171	74.19	mg/L	0.342	0.46%
Cd 228.802†	47.1	0.00089	mg/L	0.000048	0.00178	mg/L	0.000096	5.40%
Co 228.616†	3705.0	0.05851	mg/L	0.000163	0.1170	mg/L	0.00033	0.28%
Cr 267.716†	1201.7	0.2987	mg/L	0.00079	0.5974	mg/L	0.00159	0.27%
Cu 324.752†	22724.0	0.1173	mg/L	0.00078	0.2345	mg/L	0.00155	0.66%
Fe 273.955†	189021.1	159.6	mg/L	0.31	319.2	mg/L	0.61	0.19%
K 766.490†	17665.9	6.597	mg/L	0.0141	13.19	mg/L	0.028	0.21%
Mg 279.077†	53049.0	47.36	mg/L	0.067	94.73	mg/L	0.134	0.14%
Mn 257.610†	99609.6	2.506	mg/L	0.0042	5.011	mg/L	0.0084	0.17%
Mo 202.031†	61.9	0.00545	mg/L	0.000425	0.01091	mg/L	0.000849	7.79%
Na 589.592†	10225.3	1.645	mg/L	0.0011	3.290	mg/L	0.0022	0.07%
Na 330.237†	45.4	3.041	mg/L	0.0655	6.082	mg/L	0.1309	2.15%
Ni 231.604†	491.2	0.2662	mg/L	0.00282	0.5323	mg/L	0.00565	1.06%
Pb 220.353†	-7.4	0.02225	mg/L	0.001593	0.04450	mg/L	0.003185	7.16%
Sb 206.836†	67.8	-0.01339	mg/L	0.003178	-0.02677	mg/L	0.006356	23.74%
Se 196.026†	-59.2	-0.00868	mg/L	0.007059	-0.01735	mg/L	0.014119	81.37%
Si 288.158†	2216.9	1.707	mg/L	0.0200	3.415	mg/L	0.0399	1.17%
Sn 189.927†	-43.1	-0.00539	mg/L	0.000399	-0.01078	mg/L	0.000798	7.41%
Sr 421.552†	89104.0	0.1792	mg/L	0.00015	0.3583	mg/L	0.00030	0.08%
Ti 334.903†	135139.0	6.753	mg/L	0.0098	13.51	mg/L	0.020	0.15%
Tl 190.801†	-9.4	-0.02184	mg/L	0.001694	-0.04368	mg/L	0.003389	7.76%
V 292.402†	52264.6	0.4025	mg/L	0.00392	0.8049	mg/L	0.00784	0.97%
Zn 206.200†	580.1	0.2472	mg/L	0.00304	0.4944	mg/L	0.00607	1.23%

Sequence No.: 60
Sample ID: RG78 L SWC

Autosampler Location: 68
Date Collected: 8/11/2010 10:49:58 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 L SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 L SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2335680.0	111.9	%	0.54				0.48%
ScR 361.383	268398.0	113.3	%	1.03				0.91%
Ag 328.068†	-902.2	0.00037	mg/L	0.000035	0.00073	mg/L	0.000070	9.61%
Al 308.215†	156994.4	113.8	mg/L	0.41	227.5	mg/L	0.82	0.36%
As 188.979†	12.6	0.01741	mg/L	0.001153	0.03481	mg/L	0.002306	6.62%
B 249.677†	35.4	0.01601	mg/L	0.001348	0.03201	mg/L	0.002696	8.42%
Ba 233.527†	3736.3	0.4575	mg/L	0.00420	0.9150	mg/L	0.00841	0.92%
Be 313.042†	621.6	0.00115	mg/L	0.000057	0.00229	mg/L	0.000115	5.01%
Ca 317.933†	358799.7	37.77	mg/L	0.070	75.54	mg/L	0.140	0.19%
Cd 228.802†	47.8	0.00095	mg/L	0.000068	0.00190	mg/L	0.000136	7.16%
Co 228.616†	4181.2	0.07079	mg/L	0.000393	0.1416	mg/L	0.00079	0.56%
Cr 267.716†	1115.0	0.2768	mg/L	0.00254	0.5536	mg/L	0.00509	0.92%
Cu 324.752†	35702.0	0.1763	mg/L	0.00221	0.3527	mg/L	0.00442	1.25%
Fe 273.955†	172850.7	146.0	mg/L	0.68	291.9	mg/L	1.35	0.46%
K 766.490†	15980.0	5.967	mg/L	0.0220	11.93	mg/L	0.044	0.37%
Mg 279.077†	60881.4	54.38	mg/L	0.115	108.8	mg/L	0.23	0.21%
Mn 257.610†	115017.1	2.893	mg/L	0.0077	5.787	mg/L	0.0154	0.27%
Mo 202.031†	37.5	0.00328	mg/L	0.000243	0.00656	mg/L	0.000485	7.40%
Na 589.592†	14097.4	2.268	mg/L	0.0154	4.535	mg/L	0.0308	0.68%
Na 330.237†	76.6	3.970	mg/L	0.2482	7.940	mg/L	0.4964	6.25%
Ni 231.604†	683.9	0.3706	mg/L	0.00177	0.7411	mg/L	0.00355	0.48%
Pb 220.353†	-52.6	0.01622	mg/L	0.000405	0.03244	mg/L	0.000810	2.50%
Sb 206.836†	69.2	-0.01215	mg/L	0.001147	-0.02429	mg/L	0.002294	9.44%
Se 196.026†	-58.4	-0.01146	mg/L	0.001775	-0.02291	mg/L	0.003549	15.49%
Si 288.158†	1934.1	1.491	mg/L	0.0100	2.983	mg/L	0.0200	0.67%
Sn 189.927†	-44.3	-0.00619	mg/L	0.001021	-0.01237	mg/L	0.002041	16.50%
Sr 421.552†	160006.7	0.3217	mg/L	0.00123	0.6435	mg/L	0.00246	0.38%
Ti 334.903†	97784.6	4.886	mg/L	0.0116	9.772	mg/L	0.0233	0.24%
Tl 190.801†	-16.4	-0.02230	mg/L	0.002905	-0.04460	mg/L	0.005810	13.03%
V 292.402†	43004.6	0.3303	mg/L	0.00311	0.6606	mg/L	0.00622	0.94%
Zn 206.200†	643.3	0.2741	mg/L	0.00116	0.5483	mg/L	0.00232	0.42%

Sequence No.: 61
 Sample ID: RG78 S SWC

Autosampler Location: 69
 Date Collected: 8/11/2010 10:56:00 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 S SWC

Analyte Back Pressure Flow
 All 181.0 kPa 0.55 L/min

Mean Data: RG78 S SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2325401.3	111.4	%	0.35			0.32%
ScR 361.383	267534.3	113.0	%	0.76			0.67%
Ag 328.068†	1024.6	0.00043	mg/L	0.000327	0.00085	mg/L	0.000654 76.82%
Al 308.215†	149207.3	108.1	mg/L	0.41	216.2	mg/L	0.81 0.38%
As 188.979†	15.4	0.02177	mg/L	0.000215	0.04354	mg/L	0.000429 0.99%
B 249.677†	33.8	0.01525	mg/L	0.001740	0.03050	mg/L	0.003481 11.41%
Ba 233.527†	10334.9	1.276	mg/L	0.0140	2.552	mg/L	0.0279 1.09%
Be 313.042†	619.7	0.00111	mg/L	0.000055	0.00223	mg/L	0.000110 4.93%
Ca 317.933†	339657.5	35.76	mg/L	0.042	71.51	mg/L	0.085 0.12%
Cd 228.802†	60.1	0.00133	mg/L	0.000039	0.00266	mg/L	0.000078 2.94%
Co 228.616†	5157.6	0.08675	mg/L	0.000316	0.1735	mg/L	0.00063 0.36%
Cr 267.716†	1144.3	0.2849	mg/L	0.00303	0.5698	mg/L	0.00605 1.06%
Cu 324.752†	29340.5	0.1499	mg/L	0.00113	0.2998	mg/L	0.00226 0.75%
Fe 273.955†	215477.2	181.9	mg/L	0.46	363.9	mg/L	0.92 0.25%
K 766.490†	13820.2	5.161	mg/L	0.0174	10.32	mg/L	0.035 0.34%
Mg 279.077†	55190.2	49.27	mg/L	0.148	98.53	mg/L	0.296 0.30%
Mn 257.610†	2642264.1	66.48	mg/L	0.649	133.0	mg/L	1.30 0.98%
Mo 202.031†	181.1	0.01602	mg/L	0.000416	0.03204	mg/L	0.000831 2.59%
Na 589.592†	7803.9	1.255	mg/L	0.0098	2.511	mg/L	0.0197 0.78%
Na 330.237†	34.3	2.444	mg/L	0.1953	4.888	mg/L	0.3905 7.99%
Ni 231.604†	1718.7	0.9311	mg/L	0.00794	1.862	mg/L	0.0159 0.85%
Pb 220.353†	27.0	0.02217	mg/L	0.000391	0.04434	mg/L	0.000783 1.76%
Sb 206.836†	82.0	-0.00840	mg/L	0.000975	-0.01679	mg/L	0.001951 11.62%
Se 196.026†	-39.5	-0.05105	mg/L	0.005055	-0.1021	mg/L	0.01011 9.90%
Si 288.158†	1676.9	1.293	mg/L	0.0191	2.587	mg/L	0.0382 1.48%
Sn 189.927†	-76.8	-0.01446	mg/L	0.000493	-0.02891	mg/L	0.000986 3.41%
Sr 421.552†	143114.6	0.2878	mg/L	0.00192	0.5755	mg/L	0.00384 0.67%
Ti 334.903†	124268.1	6.210	mg/L	0.0595	12.42	mg/L	0.119 0.96%
Tl 190.801†	159.0	-0.02423	mg/L	0.001218	-0.04846	mg/L	0.002437 5.03%
V 292.402†	43315.0	0.3369	mg/L	0.00224	0.6737	mg/L	0.00447 0.66%
Zn 206.200†	680.5	0.2897	mg/L	0.00408	0.5794	mg/L	0.00816 1.41%

Sequence No.: 62

Sample ID: RG79 A SWC

Autosampler Location: 70

Date Collected: 8/11/2010 11:02:22 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 A SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG79 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2325844.8	111.4	%	0.69			0.62%
ScR 361.383	271339.2	114.6	%	0.44			0.38%
Ag 328.068†	-1023.2	0.00012	mg/L	0.000152	0.00024	mg/L	0.000304 125.26%
Al 308.215†	189099.1	137.0	mg/L	0.45	274.0	mg/L	0.91 0.33%
As 188.979†	34.3	0.03588	mg/L	0.002675	0.07176	mg/L	0.005349 7.45%
B 249.677†	40.9	0.01853	mg/L	0.003485	0.03706	mg/L	0.006971 18.81%
Ba 233.527†	5564.9	0.6843	mg/L	0.00492	1.369	mg/L	0.0098 0.72%
Be 313.042†	820.8	0.00163	mg/L	0.000065	0.00326	mg/L	0.000131 4.01%
Ca 317.933†	435679.4	45.87	mg/L	0.088	91.73	mg/L	0.175 0.19%
Cd 228.802†	96.9	0.00177	mg/L	0.000063	0.00355	mg/L	0.000126 3.55%
Co 228.616†	3938.8	0.06176	mg/L	0.000579	0.1235	mg/L	0.00116 0.94%
Cr 267.716†	1315.2	0.3268	mg/L	0.00176	0.6536	mg/L	0.00353 0.54%
Cu 324.752†	32081.2	0.1601	mg/L	0.00105	0.3202	mg/L	0.00211 0.66%
Fe 273.955†	187455.9	158.3	mg/L	1.29	316.6	mg/L	2.57 0.81%
K 766.490†	13994.3	5.226	mg/L	0.0240	10.45	mg/L	0.048 0.46%
Mg 279.077†	45920.9	40.99	mg/L	0.129	81.98	mg/L	0.258 0.31%
Mn 257.610†	128381.2	3.229	mg/L	0.0076	6.459	mg/L	0.0151 0.23%
Mo 202.031†	128.4	0.01134	mg/L	0.000486	0.02268	mg/L	0.000972 4.28%
Na 589.592†	19621.5	3.156	mg/L	0.0094	6.312	mg/L	0.0188 0.30%
Na 330.237†	77.3	4.440	mg/L	0.3337	8.880	mg/L	0.6675 7.52%
Ni 231.604†	440.7	0.2388	mg/L	0.00054	0.4776	mg/L	0.00107 0.23%
Pb 220.353†	636.7	0.1087	mg/L	0.00091	0.2173	mg/L	0.00181 0.83%
Sb 206.836†	78.9	-0.01186	mg/L	0.005839	-0.02372	mg/L	0.011678 49.23%
Se 196.026†	-67.7	-0.01379	mg/L	0.006850	-0.02758	mg/L	0.013701 49.67%
Si 288.158†	8748.3	6.718	mg/L	0.0627	13.44	mg/L	0.125 0.93%
Sn 189.927†	-36.0	-0.00299	mg/L	0.000373	-0.00599	mg/L	0.000747 12.48%
Sr 421.552†	199347.5	0.4008	mg/L	0.00150	0.8017	mg/L	0.00299 0.37%
Ti 334.903†	148175.2	7.405	mg/L	0.0139	14.81	mg/L	0.028 0.19%
Tl 190.801†	-6.0	-0.02220	mg/L	0.003350	-0.04440	mg/L	0.006700 15.09%
V 292.402†	50513.4	0.3882	mg/L	0.00144	0.7763	mg/L	0.00287 0.37%
Zn 206.200†	927.5	0.3943	mg/L	0.00144	0.7885	mg/L	0.00289 0.37%

Sequence No.: 63
Sample ID: RG79 B SWC

Autosampler Location: 71
Date Collected: 8/11/2010 11:08:25 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 B SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG79 B SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2310931.6	110.7	%	1.24				1.12%
ScR 361.383	267830.9	113.1	%	0.40				0.36%
Ag 328.068†	-960.2	0.00028	mg/L	0.000268	0.00057	mg/L	0.000536	94.40%
Al 308.215†	175425.5	127.1	mg/L	0.21	254.2	mg/L	0.41	0.16%
As 188.979†	54.5	0.04508	mg/L	0.000742	0.09016	mg/L	0.001484	1.65%
B 249.677†	58.8	0.02671	mg/L	0.001630	0.05341	mg/L	0.003259	6.10%
Ba 233.527†	23794.0	2.951	mg/L	0.0096	5.902	mg/L	0.0192	0.33%
Be 313.042†	763.6	0.00164	mg/L	0.000010	0.00328	mg/L	0.000021	0.63%
Ca 317.933†	347904.0	36.63	mg/L	0.037	73.25	mg/L	0.074	0.10%
Cd 228.802†	1115.5	0.02016	mg/L	0.000122	0.04031	mg/L	0.000244	0.61%
Co 228.616†	5078.1	0.08567	mg/L	0.000640	0.1713	mg/L	0.00128	0.75%
Cr 267.716†	1751.6	0.4347	mg/L	0.00206	0.8695	mg/L	0.00412	0.47%
Cu 324.752†	102932.3	0.4865	mg/L	0.00401	0.9731	mg/L	0.00802	0.82%
Fe 273.955†	180583.4	152.5	mg/L	0.60	305.0	mg/L	1.20	0.39%
K 766.490†	10180.6	3.802	mg/L	0.0300	7.603	mg/L	0.0599	0.79%
Mg 279.077†	50759.3	45.32	mg/L	0.056	90.64	mg/L	0.112	0.12%
Mn 257.610†	125984.2	3.170	mg/L	0.0039	6.340	mg/L	0.0077	0.12%
Mo 202.031†	59.5	0.00499	mg/L	0.000275	0.00998	mg/L	0.000550	5.51%
Na 589.592†	7826.4	1.259	mg/L	0.0095	2.518	mg/L	0.0189	0.75%
Na 330.237†	63.5	2.450	mg/L	0.1133	4.901	mg/L	0.2265	4.62%
Ni 231.604†	576.9	0.3126	mg/L	0.00210	0.6252	mg/L	0.00420	0.67%
Pb 220.353†	22359.0	2.834	mg/L	0.0195	5.667	mg/L	0.0390	0.69%
Sb 206.836†	93.1	-0.00570	mg/L	0.002461	-0.01139	mg/L	0.004922	43.20%
Se 196.026†	-70.9	-0.01984	mg/L	0.009276	-0.03968	mg/L	0.018552	46.76%
Si 288.158†	6935.6	5.328	mg/L	0.0151	10.66	mg/L	0.030	0.28%
Sn 189.927†	99.0	0.03138	mg/L	0.001296	0.06276	mg/L	0.002592	4.13%
Sr 421.552†	92314.8	0.1856	mg/L	0.00028	0.3712	mg/L	0.00057	0.15%
Ti 334.903†	114809.7	5.737	mg/L	0.0068	11.47	mg/L	0.014	0.12%
Tl 190.801†	-9.9	-0.02110	mg/L	0.003599	-0.04220	mg/L	0.007199	17.06%
V 292.402†	41955.4	0.3214	mg/L	0.00252	0.6427	mg/L	0.00504	0.78%
Zn 206.200†	9191.9	3.890	mg/L	0.0123	7.780	mg/L	0.0246	0.32%

Sequence No.: 64
Sample ID: RG79 C SWC

Autosampler Location: 72
Date Collected: 8/11/2010 11:14:28 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 C SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG79 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2323153.0	111.3	%	0.72			0.64%
ScR 361.383	268996.8	113.6	%	0.92			0.81%
Ag 328.068†	-1238.4	0.00163	mg/L	0.000187	0.00327	mg/L	0.000375 11.47%
Al 308.215†	175928.1	127.5	mg/L	0.18	254.9	mg/L	0.36 0.14%
As 188.979†	77.6	0.06057	mg/L	0.002586	0.1211	mg/L	0.00517 4.27%
B 249.677†	83.3	0.03788	mg/L	0.004832	0.07575	mg/L	0.009663 12.76%
Ba 233.527†	30226.7	3.747	mg/L	0.0199	7.495	mg/L	0.0397 0.53%
Be 313.042†	1123.1	0.00176	mg/L	0.000051	0.00351	mg/L	0.000102 2.89%
Ca 317.933†	418398.6	44.05	mg/L	0.027	88.09	mg/L	0.055 0.06%
Cd 228.802†	6112.7	0.1105	mg/L	0.00075	0.2210	mg/L	0.00151 0.68%
Co 228.616†	6286.3	0.1070	mg/L	0.00065	0.2140	mg/L	0.00130 0.61%
Cr 267.716†	3171.1	0.7873	mg/L	0.00182	1.575	mg/L	0.0036 0.23%
Cu 324.752†	761658.4	3.529	mg/L	0.0040	7.057	mg/L	0.0079 0.11%
Fe 273.955†	265186.2	223.9	mg/L	0.55	447.8	mg/L	1.10 0.25%
K 766.490†	16323.9	6.096	mg/L	0.0073	12.19	mg/L	0.015 0.12%
Mg 279.077†	52162.1	46.53	mg/L	0.013	93.07	mg/L	0.026 0.03%
Mn 257.610†	138189.4	3.480	mg/L	0.0031	6.961	mg/L	0.0061 0.09%
Mo 202.031†	407.6	0.03562	mg/L	0.000216	0.07125	mg/L	0.000433 0.61%
Na 589.592†	27932.2	4.493	mg/L	0.0136	8.986	mg/L	0.0273 0.30%
Na 330.237†	158.8	5.569	mg/L	0.1126	11.14	mg/L	0.225 2.02%
Ni 231.604†	1670.5	0.9051	mg/L	0.00355	1.810	mg/L	0.0071 0.39%
Pb 220.353†	121103.4	15.23	mg/L	0.090	30.45	mg/L	0.181 0.59%
Sb 206.836†	155.2	0.01270	mg/L	0.002377	0.02540	mg/L	0.004754 18.72%
Se 196.026†	-76.9	-0.01458	mg/L	0.003742	-0.02915	mg/L	0.007485 25.67%
Si 288.158†	4880.4	3.751	mg/L	0.0146	7.503	mg/L	0.0291 0.39%
Sn 189.927†	919.1	0.2471	mg/L	0.00127	0.4941	mg/L	0.00254 0.51%
Sr 421.552†	120614.0	0.2425	mg/L	0.00058	0.4850	mg/L	0.00116 0.24%
Ti 334.903†	130581.0	6.525	mg/L	0.0071	13.05	mg/L	0.014 0.11%
Tl 190.801†	-16.9	-0.02846	mg/L	0.003765	-0.05692	mg/L	0.007531 13.23%
V 292.402†	94505.1	0.7417	mg/L	0.00400	1.483	mg/L	0.0080 0.54%
Zn 206.200†	17239.0	7.295	mg/L	0.0372	14.59	mg/L	0.074 0.51%

Sequence No.: 65
 Sample ID: RG79 D SWC

Autosampler Location: 73
 Date Collected: 8/11/2010 11:20:32 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 D SWC

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

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Mean Data: RG79 D SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2265190.9		108.5 %	4.88			4.50%
ScR 361.383	270090.7		114.0 %	1.16			1.01%
Ag 328.068†	-1215.7	0.00144	mg/L	0.000405	0.00289	mg/L	0.000809 28.03%
Al 308.215†	157523.4	114.1	mg/L	0.33	228.3	mg/L	0.66 0.29%
As 188.979†	67.7	0.05278	mg/L	0.002151	0.1056	mg/L	0.00430 4.08%
B 249.677†	85.3	0.03891	mg/L	0.002521	0.07781	mg/L	0.005041 6.48%
Ba 233.527†	26455.7	3.279	mg/L	0.0542	6.558	mg/L	0.1084 1.65%
Be 313.042†	707.0	0.00141	mg/L	0.000044	0.00283	mg/L	0.000088 3.12%
Ca 317.933†	421791.7	44.40	mg/L	0.099	88.81	mg/L	0.198 0.22%
Cd 228.802†	8502.9	0.1535	mg/L	0.00688	0.3070	mg/L	0.01376 4.48%
Co 228.616†	5273.7	0.08960	mg/L	0.004516	0.1792	mg/L	0.00903 5.04%
Cr 267.716†	2171.8	0.5400	mg/L	0.00964	1.080	mg/L	0.0193 1.79%
Cu 324.752†	854637.1	3.957	mg/L	0.1975	7.914	mg/L	0.3950 4.99%
Fe 273.955†	258730.1	218.5	mg/L	0.16	436.9	mg/L	0.32 0.07%
K 766.490†	13677.8	5.108	mg/L	0.0133	10.22	mg/L	0.027 0.26%
Mg 279.077†	47215.1	42.11	mg/L	0.131	84.22	mg/L	0.261 0.31%
Mn 257.610†	136707.7	3.445	mg/L	0.0068	6.890	mg/L	0.0135 0.20%
Mo 202.031†	271.2	0.02358	mg/L	0.000947	0.04716	mg/L	0.001893 4.01%
Na 589.592†	13769.8	2.215	mg/L	0.0180	4.430	mg/L	0.0360 0.81%
Na 330.237†	108.1	3.355	mg/L	0.1450	6.711	mg/L	0.2901 4.32%
Ni 231.604†	625.8	0.3391	mg/L	0.00664	0.6782	mg/L	0.01328 1.96%
Pb 220.353†	177953.1	22.36	mg/L	1.049	44.72	mg/L	2.099 4.69%
Sb 206.836†	163.1	0.02275	mg/L	0.006030	0.04549	mg/L	0.012060 26.51%
Se 196.026†	-80.0	-0.02021	mg/L	0.004163	-0.04042	mg/L	0.008326 20.60%
Si 288.158†	6241.1	4.795	mg/L	0.0769	9.589	mg/L	0.1537 1.60%
Sn 189.927†	1317.5	0.3510	mg/L	0.01702	0.7021	mg/L	0.03403 4.85%
Sr 421.552†	111376.1	0.2239	mg/L	0.00048	0.4479	mg/L	0.00097 0.22%
Ti 334.903†	111268.3	5.560	mg/L	0.0103	11.12	mg/L	0.021 0.18%
Tl 190.801†	-24.7	-0.02834	mg/L	0.003254	-0.05667	mg/L	0.006509 11.48%
V 292.402†	43714.2	0.3289	mg/L	0.01738	0.6577	mg/L	0.03475 5.28%
Zn 206.200†	16004.5	6.773	mg/L	0.1117	13.55	mg/L	0.223 1.65%

Sequence No.: 66

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 11:26:37 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2298047.2	110.1	%	0.98				0.89%
ScR 361.383	265521.0	112.1	%	0.07				0.07%
Ag 328.068†	173168.9	0.8802	mg/L	0.00675	0.8802	mg/L	0.00675	0.77%
Al 308.215†	2598.1	1.848	mg/L	0.0095	1.848	mg/L	0.0095	0.51%
As 188.979†	2921.4	1.817	mg/L	0.0199	1.817	mg/L	0.0199	1.10%
B 249.677†	1892.5	0.8706	mg/L	0.00924	0.8706	mg/L	0.00924	1.06%
Ba 233.527†	7207.2	0.8957	mg/L	0.00142	0.8957	mg/L	0.00142	0.16%
Be 313.042†	264795.7	0.9002	mg/L	0.00251	0.9002	mg/L	0.00251	0.28%
Ca 317.933†	17776.5	1.871	mg/L	0.0039	1.871	mg/L	0.0039	0.21%
Cd 228.802†	51919.3	0.9341	mg/L	0.00637	0.9341	mg/L	0.00637	0.68%
Co 228.616†	47250.2	0.8959	mg/L	0.00467	0.8959	mg/L	0.00467	0.52%
Cr 267.716†	3650.0	0.9036	mg/L	0.00186	0.9036	mg/L	0.00186	0.21%
Cu 324.752†	209663.0	0.9663	mg/L	0.00619	0.9663	mg/L	0.00619	0.64%
Fe 273.955†	2147.2	1.812	mg/L	0.0063	1.812	mg/L	0.0063	0.35%
K 766.490†	48827.0	18.23	mg/L	0.015	18.23	mg/L	0.015	0.08%
Mg 279.077†	2044.0	1.832	mg/L	0.0050	1.832	mg/L	0.0050	0.27%
Mn 257.610†	35967.7	0.9055	mg/L	0.00226	0.9055	mg/L	0.00226	0.25%
Mo 202.031†	10053.0	0.8917	mg/L	0.00804	0.8917	mg/L	0.00804	0.90%
Na 589.592†	279316.9	44.93	mg/L	0.137	44.93	mg/L	0.137	0.31%
Na 330.237†	1089.7	46.54	mg/L	0.165	46.54	mg/L	0.165	0.36%
Ni 231.604†	1662.2	0.9012	mg/L	0.00387	0.9012	mg/L	0.00387	0.43%
Pb 220.353†	14554.2	1.829	mg/L	0.0098	1.829	mg/L	0.0098	0.53%
Sb 206.836†	3944.1	1.936	mg/L	0.0141	1.936	mg/L	0.0141	0.73%
Se 196.026†	1887.5	1.802	mg/L	0.0177	1.802	mg/L	0.0177	0.98%
Si 288.158†	2534.8	1.947	mg/L	0.0044	1.947	mg/L	0.0044	0.22%
Sn 189.927†	3201.5	0.8396	mg/L	0.00723	0.8396	mg/L	0.00723	0.86%
Sr 421.552†	452061.5	0.9090	mg/L	0.00122	0.9090	mg/L	0.00122	0.13%
Ti 334.903†	18132.4	0.9052	mg/L	0.00265	0.9052	mg/L	0.00265	0.29%
Tl 190.801†	3718.3	1.775	mg/L	0.0208	1.775	mg/L	0.0208	1.17%
V 292.402†	110196.6	0.9057	mg/L	0.00644	0.9057	mg/L	0.00644	0.71%
Zn 206.200†	2165.2	0.9152	mg/L	0.00267	0.9152	mg/L	0.00267	0.29%

Sequence No.: 67

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 11:32:39 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2319887.2	111.1	%	1.03			0.92%
ScR 361.383	263109.2	111.1	%	0.21			0.19%
Ag 328.068†	-5.0	-0.00003	mg/L	0.000039	-0.00003	mg/L	0.000039 152.24%
Al 308.215†	26.5	0.01922	mg/L	0.006931	0.01922	mg/L	0.006931 36.05%
As 188.979†	-2.7	-0.00169	mg/L	0.000469	-0.00169	mg/L	0.000469 27.70%
B 249.677†	1.8	0.00083	mg/L	0.000076	0.00083	mg/L	0.000076 9.15%
Ba 233.527†	3.5	0.00044	mg/L	0.000506	0.00044	mg/L	0.000506 115.12%
Be 313.042†	-22.9	-0.00008	mg/L	0.000059	-0.00008	mg/L	0.000059 76.77%
Ca 317.933†	19.9	0.00210	mg/L	0.000427	0.00210	mg/L	0.000427 20.36%
Cd 228.802†	-2.3	-0.00004	mg/L	0.000077	-0.00004	mg/L	0.000077 205.92%
Co 228.616†	9.9	0.00019	mg/L	0.000051	0.00019	mg/L	0.000051 26.87%
Cr 267.716†	4.9	0.00121	mg/L	0.000837	0.00121	mg/L	0.000837 69.30%
Cu 324.752†	1162.9	0.00536	mg/L	0.000286	0.00536	mg/L	0.000286 5.33%
Fe 273.955†	5.0	0.00418	mg/L	0.001482	0.00418	mg/L	0.001482 35.45%
K 766.490†	-285.5	-0.1066	mg/L	0.01539	-0.1066	mg/L	0.01539 14.43%
Mg 279.077†	-2.6	-0.00233	mg/L	0.006462	-0.00233	mg/L	0.006462 277.07%
Mn 257.610†	29.7	0.00075	mg/L	0.000048	0.00075	mg/L	0.000048 6.47%
Mo 202.031†	-3.4	-0.00030	mg/L	0.000197	-0.00030	mg/L	0.000197 64.82%
Na 589.592†	9.5	0.00152	mg/L	0.007408	0.00152	mg/L	0.007408 486.51%
Na 330.237†	23.9	1.023	mg/L	0.0826	1.023	mg/L	0.0826 8.08%
Ni 231.604†	6.5	0.00354	mg/L	0.003304	0.00354	mg/L	0.003304 93.44%
Pb 220.353†	7.3	0.00091	mg/L	0.001684	0.00091	mg/L	0.001684 184.30%
Sb 206.836†	-17.1	-0.00844	mg/L	0.000810	-0.00844	mg/L	0.000810 9.60%
Se 196.026†	5.7	0.00541	mg/L	0.005521	0.00541	mg/L	0.005521 101.97%
Si 288.158†	1.3	0.00099	mg/L	0.001761	0.00099	mg/L	0.001761 177.49%
Sn 189.927†	0.9	0.00025	mg/L	0.000344	0.00025	mg/L	0.000344 140.38%
Sr 421.552†	-43.4	-0.00009	mg/L	0.000050	-0.00009	mg/L	0.000050 57.06%
Ti 334.903†	-30.1	-0.00151	mg/L	0.001129	-0.00151	mg/L	0.001129 75.03%
Tl 190.801†	-2.4	-0.00115	mg/L	0.001701	-0.00115	mg/L	0.001701 147.79%
V 292.402†	-76.8	-0.00062	mg/L	0.000252	-0.00062	mg/L	0.000252 40.89%
Zn 206.200†	8.3	0.00352	mg/L	0.000740	0.00352	mg/L	0.000740 21.04%



IEC Date: 6.24.10

Analysis Date: 8.12.10

Analyst: VJB

LR Date: 6.25.10

Page: 1 of 4

All corrections made by analyst unless otherwise noted. 8.12.10-VJB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SDO			2749-5
		↓ 2			2748-11
		↓ 3			2749-1
		↓ 4			↓ -2
		↓ 5			↓ -3
		ICV			2732-14
		ICB			
		ICE			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
		RG85 MBI	SWC	2	✓
		RG10 MBI	TWC		✓
		↓ A	↓		
		RG85 A	SWC	2	
		↓ B	↓	↓	
		↓ MBI spk	↓	↓	✓
		↓ MBI spk	↓	↓	✓
		RG10 MBI spk	TWC		✓
		CCV2			
		CCB2			
		RG94 MBI	SWC	2	✓
		↓ A	↓	↓	



IEC Date: _____
LR Date: _____

Analysis Date: 8.12.10

Analyst: JB
Page: 2 of 4

All corrections made by analyst unless otherwise noted. 8/12/10 JB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG94 B	SWC	2	
		C			
		D			
		E			
		F			
		G			
		I			
		MB KPK			✓
		CCV3			
		CCB3			
		RG94 MB2	TWC		✓
		HRP	SWC	2	✓
		H			
		HSK			✓
		J			
		K	TWC		
		MB KPK			
		CCV4			See notes re: ^{reanalysis} on control
		CCV5			
		CCB4			
		CCV6			
		CCV7			
		RG79 MB1	SWC	2	✓
		RG80 U		5	



IEC Date: _____
LR Date: _____

Analysis Date: 8.12.10

Analyst: JLB
Page: 3 of 4

All corrections made by analyst unless otherwise noted.

8.13.10 JLB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG79 D	SWC	2	
		G			
		H			
		K			
		L			
		M			
		REF1			✓
		MB15pk			✓
		CCV7			
		CCB6			
		RG79 EDUP	SWC	2	re-run Pb 100% ED
		E		1	
✓		ESPK			✓
		EDUP			confirming orig:
		N			
		O			
		P			
		Q			
		RG79 MSpk	WMV	1	✓ 0.04ml room temp water Caest 0.08ml ICPSPK cross spike from
		DL			
		CCY8			
		CCB7			
		RG87 MB	TWC		✓
		RH40 MB	b		

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Metals Data Review Checklist

Method: ICP-MS GFA CVA

Analysis Date: 8.12.10

	Analyst	Peer	Comment
<i>JZ</i>	<i>J.B.10</i>	<i>MS-13</i>	
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	<i>SEE LOG</i>
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	<i>RG79 CAF</i>
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	<i>RG79</i>

Analysis Begun

Start Time: 8/12/2010 9:34:55 AM
 Logged In Analyst: metals
 Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 8/12/2010 8:37:11 AM
 Technique: ICP Continuous

Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:
 Results Data Set: I2100812
 Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded
 Method Name: 7300bcESI2FAST
 IEC File: IEC5.iec
 Method Description: 12Axial Elements

Method Last Saved: 8/12/2010 9:28:39 AM
 MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ca 317.933	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cu 324.752	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScA 357.253	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	ScR 361.383	No
Mo 202.031	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Si 288.158	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sn 189.927	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ti 334.903	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	n/a	n/a
ScA 357.253	Lin, Calc Int	Peak Area	Radial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1
 Sample ID: Calib Blank 1
 Autosampler Location: 1
 Date Collected: 8/12/2010 9:34:56 AM
 Data Type: Original

Nebulizer Parameters: Calib Blank 1
 Analyte Back Pressure Flow
 All 188.0 kPa 0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
ScA 357.253	1674616.0	16130.97	0.96%	100.0 %
ScR 361.383	271668.2	1754.55	0.65%	100.0 %
Ag 328.068†	-203.2	32.43	15.96%	[0.00] mg/L
Al 308.215†	-40.6	6.53	16.06%	[0.00] mg/L
As 188.979†	-15.9	5.66	35.52%	[0.00] mg/L

B 249.677†	-32.9	3.15	9.58%	[0.00]	mg/L
Ba 233.527†	26.0	3.04	11.69%	[0.00]	mg/L
Be 313.042†	811.9	20.78	2.56%	[0.00]	mg/L
Ca 317.933†	115.0	8.34	7.26%	[0.00]	mg/L
Cd 228.802†	64.8	4.80	7.40%	[0.00]	mg/L
Co 228.616†	-80.3	4.58	5.70%	[0.00]	mg/L
Cr 267.716†	-50.8	1.60	3.16%	[0.00]	mg/L
Cu 324.752†	9047.1	114.64	1.27%	[0.00]	mg/L
Fe 273.955†	8.3	2.76	33.13%	[0.00]	mg/L
K 766.490†	-35.7	23.41	65.65%	[0.00]	mg/L
Mg 279.077†	-32.4	5.01	15.45%	[0.00]	mg/L
Mn 257.610†	36.5	5.38	14.74%	[0.00]	mg/L
Mo 202.031†	89.7	3.97	4.43%	[0.00]	mg/L
Na 589.592†	56.4	22.06	39.11%	[0.00]	mg/L
Na 330.237†	-70.4	4.73	6.72%	[0.00]	mg/L
Ni 231.604†	-1.1	1.62	142.66%	[0.00]	mg/L
Pb 220.353†	-86.1	5.42	6.29%	[0.00]	mg/L
Sb 206.836†	82.9	6.64	8.01%	[0.00]	mg/L
Se 196.026†	-54.8	3.90	7.13%	[0.00]	mg/L
Si 288.158†	69.8	5.83	8.36%	[0.00]	mg/L
Sn 189.927†	-7.4	0.93	12.61%	[0.00]	mg/L
Sr 421.552†	208.0	16.47	7.92%	[0.00]	mg/L
Ti 334.903†	-67.3	16.12	23.95%	[0.00]	mg/L
Tl 190.801†	-31.7	1.23	3.87%	[0.00]	mg/L
V 292.402†	248.2	4.39	1.77%	[0.00]	mg/L
Zn 206.200†	1.1	0.88	77.86%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/12/2010 9:38:53 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: STD2

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	1689049.9	20164.36	1.19%	100.9	%
ScR 361.383	275783.7	1372.94	0.50%	101.5	%
Ba 233.527†	26569.5	106.82	0.40%	[10]	mg/L
Cd 228.802†	182941.3	3115.39	1.70%	[10]	mg/L
Co 228.616†	238791.3	4189.12	1.75%	[10]	mg/L
Cr 267.716†	44012.0	157.58	0.36%	[10]	mg/L
Cu 324.752†	2624893.8	39371.37	1.50%	[10]	mg/L
Mn 257.610†	258078.6	828.37	0.32%	[10]	mg/L
V 292.402†	874543.2	13998.64	1.60%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/12/2010 9:40:35 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1692927.9	18546.68	1.10%	101.1	%
ScR 361.383	284705.1	2645.46	0.93%	104.8	%
Ag 328.068†	163310.0	1916.58	1.17%	[1.0]	mg/L
As 188.979†	11524.4	168.37	1.46%	[10]	mg/L
B 249.677†	30495.9	637.07	2.09%	[10]	mg/L
Be 313.042†	2422491.7	19726.10	0.81%	[5.0]	mg/L
Na 589.592†	550633.8	5048.19	0.92%	[50]	mg/L
Ni 231.604†	13039.7	208.65	1.60%	[10]	mg/L
Pb 220.353†	57455.4	961.65	1.67%	[10]	mg/L
Se 196.026†	10959.0	143.38	1.31%	[10]	mg/L
Sr 421.552†	2923733.2	33684.17	1.15%	[5]	mg/L
Tl 190.801†	13822.4	200.03	1.45%	[10]	mg/L
Zn 206.200†	4540.4	89.01	1.96%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/12/2010 9:43:05 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1716025.1	3942.81	0.23%	102.5	%
ScR 361.383	295103.7	1020.97	0.35%	108.6	%
Mo 202.031†	146203.6	596.51	0.41%	[10]	mg/L
Sb 206.836†	24272.6	77.99	0.32%	[10]	mg/L
Si 288.158†	12575.8	205.44	1.63%	[10]	mg/L
Sn 189.927†	30455.6	146.04	0.48%	[10]	mg/L
Ti 334.903†	192990.8	755.39	0.39%	[10]	mg/L

Sequence No.: 5
 Sample ID: STD5

Autosampler Location: 5
 Date Collected: 8/12/2010 9:45:16 AM
 Data Type: Original

Nebulizer Parameters: STD5

Analyte Back Pressure Flow
 All 188.0 kPa 0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1617821.4	10950.08	0.68%	96.61	%
ScR 361.383	292417.7	2642.30	0.90%	107.6	%
Al 308.215†	33331.5	425.98	1.28%	[30]	mg/L
Ca 317.933†	348768.4	3217.92	0.92%	[30]	mg/L
Fe 273.955†	92674.2	1376.53	1.49%	[100]	mg/L
K 766.490†	138915.6	677.10	0.49%	[100]	mg/L
Mg 279.077†	22634.6	299.91	1.32%	[30]	mg/L
Na 330.237†	2649.6	36.75	1.39%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	163300	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1111	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1152	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3050	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	2657	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	484500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	11630	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	18290	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	23880	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	4401	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	262500	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	926.7	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1389	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	754.5	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	25810	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	14620	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	11010	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	26.50	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1304	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	5746	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2427	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1096	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1258	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3046	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	584700	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	19300	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1382	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	87450	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	454.0	0.00000	1.000000	

=====
Analysis Begun

Start Time: 8/12/2010 9:52:00 AM Plasma On Time: 8/12/2010 8:37:11 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRIS1.sif
Batch ID:
Results Data Set: I2100812
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 7
Sample ID: CV Date Collected: 8/12/2010 9:52:01 AM
Data Type: Original
Dilution: 1X

Nebulizer Parameters: CV
Analyte Back Pressure Flow
All 187.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	1709793.4	102.1 %	1.67			1.63%
SCR 361.383	293056.4	107.9 %	0.83			0.77%
Ag 328.068†	168024.2	1.029 mg/L	0.0218	1.029 mg/L	0.0218	2.12%
Al 308.215†	2361.8	2.094 mg/L	0.0202	2.094 mg/L	0.0202	0.97%
As 188.979†	2316.8	2.027 mg/L	0.0405	2.027 mg/L	0.0405	2.00%
B 249.677†	2993.2	0.9798 mg/L	0.00823	0.9798 mg/L	0.00823	0.84%
Ba 233.527†	2584.0	0.9718 mg/L	0.00378	0.9718 mg/L	0.00378	0.39%
Be 313.042†	464583.8	0.9584 mg/L	0.00606	0.9584 mg/L	0.00606	0.63%
Ca 317.933†	24392.8	2.098 mg/L	0.0242	2.098 mg/L	0.0242	1.16%
Cd 228.802†	18825.7	1.023 mg/L	0.0220	1.023 mg/L	0.0220	2.15%
Co 228.616†	23643.3	0.9882 mg/L	0.02106	0.9882 mg/L	0.02106	2.13%
Cr 267.716†	4335.9	0.9846 mg/L	0.00857	0.9846 mg/L	0.00857	0.87%
Cu 324.752†	265790.5	1.012 mg/L	0.0214	1.012 mg/L	0.0214	2.11%
Fe 273.955†	1849.9	1.991 mg/L	0.0112	1.991 mg/L	0.0112	0.56%
K 766.490†	28245.8	20.33 mg/L	0.356	20.33 mg/L	0.356	1.75%
Mg 279.077†	1542.7	2.050 mg/L	0.0140	2.050 mg/L	0.0140	0.68%
Mn 257.610†	24195.9	0.9380 mg/L	0.00938	0.9380 mg/L	0.00938	1.00%
Mo 202.031†	14600.9	0.9986 mg/L	0.01960	0.9986 mg/L	0.01960	1.96%
Na 589.592†	537940.2	48.85 mg/L	0.242	48.85 mg/L	0.242	0.50%
Na 330.237†	1403.9	53.04 mg/L	0.396	53.04 mg/L	0.396	0.75%
Ni 231.604†	1296.8	0.9959 mg/L	0.00709	0.9959 mg/L	0.00709	0.71%
Pb 220.353†	11556.3	2.013 mg/L	0.0405	2.013 mg/L	0.0405	2.01%
Sb 206.836†	5000.3	2.066 mg/L	0.0451	2.066 mg/L	0.0451	2.18%
Se 196.026†	2208.8	2.015 mg/L	0.0455	2.015 mg/L	0.0455	2.26%
Si 288.158†	2626.0	2.092 mg/L	0.0261	2.092 mg/L	0.0261	1.25%
Sn 189.927†	3036.9	0.9990 mg/L	0.02166	0.9990 mg/L	0.02166	2.17%
Sr 421.552†	575463.6	0.9841 mg/L	0.01028	0.9841 mg/L	0.01028	1.04%
Ti 334.903†	19521.3	1.010 mg/L	0.0111	1.010 mg/L	0.0111	1.10%
Tl 190.801†	2766.6	2.002 mg/L	0.0371	2.002 mg/L	0.0371	1.85%
V 292.402†	85948.1	0.9869 mg/L	0.01842	0.9869 mg/L	0.01842	1.87%
Zn 206.200†	440.9	0.9705 mg/L	0.01130	0.9705 mg/L	0.01130	1.16%

Sequence No.: 2
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/12/2010 9:58:17 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 187.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1708625.1	102.0	%	2.43			2.38%
ScR 361.383	297250.7	109.4	%	0.29			0.27%
Ag 328.068†	-13.2	-0.00008	mg/L	0.000166	-0.00008 mg/L	0.000166	204.87%
Al 308.215†	-1.4	-0.00129	mg/L	0.004880	-0.00129 mg/L	0.004880	377.71%
As 188.979†	2.5	0.00215	mg/L	0.001401	0.00215 mg/L	0.001401	65.25%
B 249.677†	7.8	0.00255	mg/L	0.001011	0.00255 mg/L	0.001011	39.62%
Ba 233.527†	0.4	0.00016	mg/L	0.000150	0.00016 mg/L	0.000150	95.92%
Be 313.042†	-34.3	-0.00007	mg/L	0.000034	-0.00007 mg/L	0.000034	47.32%
Ca 317.933†	6.0	0.00052	mg/L	0.001617	0.00052 mg/L	0.001617	312.95%
Cd 228.802†	6.3	0.00034	mg/L	0.000247	0.00034 mg/L	0.000247	73.46%
Co 228.616†	-7.1	-0.00030	mg/L	0.000042	-0.00030 mg/L	0.000042	14.15%
Cr 267.716†	3.4	0.00078	mg/L	0.001113	0.00078 mg/L	0.001113	143.16%
Cu 324.752†	-116.0	-0.00044	mg/L	0.000783	-0.00044 mg/L	0.000783	176.44%
Fe 273.955†	-2.9	-0.00309	mg/L	0.001390	-0.00309 mg/L	0.001390	45.03%
K 766.490†	-28.9	-0.02084	mg/L	0.020031	-0.02084 mg/L	0.020031	96.13%
Mg 279.077†	4.7	0.00629	mg/L	0.010316	0.00629 mg/L	0.010316	164.03%
Mn 257.610†	-0.1	0.00000	mg/L	0.000069	0.00000 mg/L	0.000069	>999.9%
Mo 202.031†	25.9	0.00177	mg/L	0.000538	0.00177 mg/L	0.000538	30.32%
Na 589.592†	5.6	0.00051	mg/L	0.000848	0.00051 mg/L	0.000848	167.44%
Na 330.237†	13.7	0.5160	mg/L	0.48903	0.5160 mg/L	0.48903	94.78%
Ni 231.604†	-0.8	-0.00063	mg/L	0.002418	-0.00063 mg/L	0.002418	382.37%
Pb 220.353†	3.3	0.00057	mg/L	0.000388	0.00057 mg/L	0.000388	68.20%
Sb 206.836†	5.9	0.00242	mg/L	0.002880	0.00242 mg/L	0.002880	119.01%
Se 196.026†	-0.4	-0.00039	mg/L	0.005874	-0.00039 mg/L	0.005874	>999.9%
Si 288.158†	-8.6	-0.00686	mg/L	0.006353	-0.00686 mg/L	0.006353	92.61%
Sn 189.927†	2.6	0.00087	mg/L	0.001039	0.00087 mg/L	0.001039	119.50%
Sr 421.552†	-9.8	-0.00002	mg/L	0.000074	-0.00002 mg/L	0.000074	439.23%
Ti 334.903†	15.4	0.00080	mg/L	0.000511	0.00080 mg/L	0.000511	64.25%
Tl 190.801†	3.9	0.00286	mg/L	0.000797	0.00286 mg/L	0.000797	27.89%
V 292.402†	3.9	0.00005	mg/L	0.000213	0.00005 mg/L	0.000213	429.92%
Zn 206.200†	-0.4	-0.00089	mg/L	0.001155	-0.00089 mg/L	0.001155	130.44%

User canceled analysis.

=====
Analysis Begun

Start Time: 8/12/2010 10:02:35 AM

Plasma On Time: 8/12/2010 8:37:11 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2100812

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 3

Autosampler Location: 301

Sample ID: CRI

Date Collected: 8/12/2010 10:02:36 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1673196.8	99.92 %	3.058			3.06%
ScR 361.383	298052.2	109.7 %	1.98			1.80%
Ag 328.068†	477.0	0.00292 mg/L	0.000110	0.00292 mg/L	0.000110	3.78%
Al 308.215†	62.1	0.05575 mg/L	0.006271	0.05575 mg/L	0.006271	11.25%
As 188.979†	59.3	0.05152 mg/L	0.002646	0.05152 mg/L	0.002646	5.14%
B 249.677†	68.5	0.02247 mg/L	0.000568	0.02247 mg/L	0.000568	2.53%
Ba 233.527†	7.4	0.00279 mg/L	0.000375	0.00279 mg/L	0.000375	13.43%
Be 313.042†	424.2	0.00087 mg/L	0.000065	0.00087 mg/L	0.000065	7.45%
Ca 317.933†	562.3	0.04837 mg/L	0.002805	0.04837 mg/L	0.002805	5.80%
Cd 228.802†	51.2	0.00263 mg/L	0.000298	0.00263 mg/L	0.000298	11.33%
Co 228.616†	68.4	0.00285 mg/L	0.000118	0.00285 mg/L	0.000118	4.14%
Cr 267.716†	25.4	0.00577 mg/L	0.001347	0.00577 mg/L	0.001347	23.36%
Cu 324.752†	696.8	0.00265 mg/L	0.001450	0.00265 mg/L	0.001450	54.69%
Fe 273.955†	43.3	0.04675 mg/L	0.000850	0.04675 mg/L	0.000850	1.82%
K 766.490†	687.2	0.4947 mg/L	0.01431	0.4947 mg/L	0.01431	2.89%
Mg 279.077†	38.3	0.05080 mg/L	0.003562	0.05080 mg/L	0.003562	7.01%
Mn 257.610†	23.6	0.00092 mg/L	0.000026	0.00092 mg/L	0.000026	2.83%
Mo 202.031†	83.0	0.00567 mg/L	0.000341	0.00567 mg/L	0.000341	6.01%
Na 589.592†	5283.9	0.4798 mg/L	0.01459	0.4798 mg/L	0.01459	3.04%
Na 330.237†	22.4	0.8435 mg/L	0.45269	0.8435 mg/L	0.45269	53.67%
Ni 231.604†	15.9	0.01223 mg/L	0.002656	0.01223 mg/L	0.002656	21.72%
Pb 220.353†	106.0	0.01846 mg/L	0.000301	0.01846 mg/L	0.000301	1.63%
Sb 206.836†	129.4	0.05338 mg/L	0.003680	0.05338 mg/L	0.003680	6.89%
Se 196.026†	58.0	0.05295 mg/L	0.004483	0.05295 mg/L	0.004483	8.47%
Si 288.158†	65.8	0.05232 mg/L	0.001131	0.05232 mg/L	0.001131	2.16%
Sn 189.927†	31.1	0.01027 mg/L	0.000322	0.01027 mg/L	0.000322	3.13%
Sr 421.552†	564.9	0.00097 mg/L	0.000074	0.00097 mg/L	0.000074	7.64%
Ti 334.903†	97.8	0.00506 mg/L	0.000114	0.00506 mg/L	0.000114	2.25%
Tl 190.801†	67.4	0.04880 mg/L	0.000562	0.04880 mg/L	0.000562	1.15%
V 292.402†	258.7	0.00298 mg/L	0.000132	0.00298 mg/L	0.000132	4.43%
Zn 206.200†	4.5	0.00997 mg/L	0.003187	0.00997 mg/L	0.003187	31.96%

User canceled analysis.

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Analysis Begun

Start Time: 8/12/2010 10:07:51 AM

Plasma On Time: 8/12/2010 8:37:11 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRIS11.sif

Batch ID:

Results Data Set: I2100812

Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 4

Autosampler Location: 302

Sample ID: ICSA

Date Collected: 8/12/2010 10:07:52 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1684930.4	100.6 %	1.59			1.58%
ScR 361.383	293237.2	107.9 %	0.58			0.54%
Ag 328.068†	-155.8	-0.00095 mg/L	0.000058	-0.00095 mg/L	0.000058	6.13%
Al 308.215†	223070.2	200.8 mg/L	1.65	200.8 mg/L	1.65	0.82%
As 188.979†	10.1	0.00594 mg/L	0.006633	0.00594 mg/L	0.006633	111.62%
B 249.677†	12.9	0.00422 mg/L	0.002197	0.00422 mg/L	0.002197	52.08%
Ba 233.527†	53.5	0.00160 mg/L	0.001934	0.00160 mg/L	0.001934	120.86%
Be 313.042†	-13.6	-0.00004 mg/L	0.000032	-0.00004 mg/L	0.000032	79.99%
Ca 317.933†	1154411.6	99.30 mg/L	0.934	99.30 mg/L	0.934	0.94%
Cd 228.802†	44.4	0.00240 mg/L	0.000129	0.00240 mg/L	0.000129	5.38%
Co 228.616†	48.3	-0.00040 mg/L	0.000009	-0.00040 mg/L	0.000009	2.39%
Cr 267.716†	29.0	0.00090 mg/L	0.000900	0.00090 mg/L	0.000900	99.49%
Cu 324.752†	-3365.8	-0.00128 mg/L	0.000443	-0.00128 mg/L	0.000443	34.62%
Fe 273.955†	178208.7	192.3 mg/L	1.33	192.3 mg/L	1.33	0.69%
K 766.490†	56.7	0.04085 mg/L	0.034890	0.04085 mg/L	0.034890	85.41%
Mg 279.077†	73978.8	97.94 mg/L	0.639	97.94 mg/L	0.639	0.65%
Mn 257.610†	42.0	0.00103 mg/L	0.000116	0.00103 mg/L	0.000116	11.28%
Mo 202.031†	86.3	0.00418 mg/L	0.000537	0.00418 mg/L	0.000537	12.85%
Na 589.592†	50.4	0.00458 mg/L	0.003034	0.00458 mg/L	0.003034	66.24%
Na 330.237†	4.7	0.7735 mg/L	0.41477	0.7735 mg/L	0.41477	53.62%
Ni 231.604†	1.5	0.00119 mg/L	0.000721	0.00119 mg/L	0.000721	60.55%
Pb 220.353†	-150.3	-0.00559 mg/L	0.001048	-0.00559 mg/L	0.001048	18.74%
Sb 206.836†	48.5	0.01980 mg/L	0.001873	0.01980 mg/L	0.001873	9.46%
Se 196.026†	54.7	0.04314 mg/L	0.006799	0.04314 mg/L	0.006799	15.76%
Si 288.158†	-26.8	-0.02128 mg/L	0.002056	-0.02128 mg/L	0.002056	9.66%
Sn 189.927†	-53.7	-0.01302 mg/L	0.003047	-0.01302 mg/L	0.003047	23.41%
Sr 421.552†	2072.8	0.00354 mg/L	0.000037	0.00354 mg/L	0.000037	1.06%
Ti 334.903†	169.6	0.00259 mg/L	0.001136	0.00259 mg/L	0.001136	43.90%
Tl 190.801†	-29.1	0.00784 mg/L	0.001693	0.00784 mg/L	0.001693	21.61%
V 292.402†	1988.2	0.00218 mg/L	0.000423	0.00218 mg/L	0.000423	19.43%
Zn 206.200†	0.0	-0.00550 mg/L	0.001775	-0.00550 mg/L	0.001775	32.26%

Sequence No.: 5
 Sample ID: ICSAB

Autosampler Location: 303
 Date Collected: 8/12/2010 10:12:05 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB
 Analyte Back Pressure Flow
 All 188.0 kPa 0.75 L/min

Mean Data: ICSAB		Calib.		Std.Dev.	Sample	Std.Dev.	RSD
Analyte	Mean Corrected Intensity	Conc. Units	Units		Conc. Units		
ScA 357.253	1682814.9	100.5	%	0.41			0.41%
ScR 361.383	292914.7	107.8	%	1.61			1.49%
Ag 328.068†	165032.9	1.011	mg/L	0.0023	1.011 mg/L	0.0023	0.22%
Al 308.215†	222551.6	200.3	mg/L	2.16	200.3 mg/L	2.16	1.08%
As 188.979†	1170.4	1.013	mg/L	0.0097	1.013 mg/L	0.0097	0.95%
B 249.677†	18.8	0.00370	mg/L	0.002191	0.00370 mg/L	0.002191	59.20%
Ba 233.527†	2588.9	0.9554	mg/L	0.01606	0.9554 mg/L	0.01606	1.68%
Be 313.042†	471330.8	0.9723	mg/L	0.01052	0.9723 mg/L	0.01052	1.08%
Ca 317.933†	1157869.2	99.60	mg/L	1.024	99.60 mg/L	1.024	1.03%
Cd 228.802†	19253.8	1.050	mg/L	0.0091	1.050 mg/L	0.0091	0.86%
Co 228.616†	23357.5	0.9754	mg/L	0.00725	0.9754 mg/L	0.00725	0.74%
Cr 267.716†	4313.4	0.9735	mg/L	0.01427	0.9735 mg/L	0.01427	1.47%
Cu 324.752†	263759.4	1.017	mg/L	0.0043	1.017 mg/L	0.0043	0.43%
Fe 273.955†	177550.8	191.6	mg/L	2.77	191.6 mg/L	2.77	1.45%
K 766.490†	57.1	0.04111	mg/L	0.018425	0.04111 mg/L	0.018425	44.82%
Mg 279.077†	77568.3	102.7	mg/L	1.91	102.7 mg/L	1.91	1.86%
Mn 257.610†	23542.8	0.9119	mg/L	0.01574	0.9119 mg/L	0.01574	1.73%
Mo 202.031†	85.9	0.00415	mg/L	0.000443	0.00415 mg/L	0.000443	10.68%
Na 589.592†	35.3	0.00320	mg/L	0.003938	0.00320 mg/L	0.003938	122.95%
Na 330.237†	9.4	0.7293	mg/L	0.23947	0.7293 mg/L	0.23947	32.84%
Ni 231.604†	1246.3	0.9566	mg/L	0.01417	0.9566 mg/L	0.01417	1.48%
Pb 220.353†	5440.4	0.9681	mg/L	0.00725	0.9681 mg/L	0.00725	0.75%
Sb 206.836†	2549.3	1.043	mg/L	0.0069	1.043 mg/L	0.0069	0.66%
Se 196.026†	1146.7	1.040	mg/L	0.0178	1.040 mg/L	0.0178	1.71%
Si 288.158†	-23.5	-0.01499	mg/L	0.004886	-0.01499 mg/L	0.004886	32.60%
Sn 189.927†	-50.3	-0.01123	mg/L	0.001323	-0.01123 mg/L	0.001323	11.78%
Sr 421.552†	2054.9	0.00351	mg/L	0.000106	0.00351 mg/L	0.000106	3.00%
Ti 334.903†	153.7	0.00157	mg/L	0.000571	0.00157 mg/L	0.000571	36.43%
Tl 190.801†	1312.5	0.9752	mg/L	0.00324	0.9752 mg/L	0.00324	0.33%
V 292.402†	85527.2	0.9617	mg/L	0.00479	0.9617 mg/L	0.00479	0.50%
Zn 206.200†	427.4	0.9355	mg/L	0.01028	0.9355 mg/L	0.01028	1.10%

Sequence No.: 6
Sample ID: CV\

Autosampler Location: 7
Date Collected: 8/12/2010 10:18:26 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 188.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	1725698.6	103.1	%	0.51			0.50%
ScR 361.383	290206.6	106.8	%	0.56			0.53%
Ag 328.068†	166397.3	1.019	mg/L	0.0041	1.019	mg/L	0.40%
Al 308.215†	2420.6	2.147	mg/L	0.0206	2.147	mg/L	0.96%
As 188.979†	2314.3	2.025	mg/L	0.0115	2.025	mg/L	0.57%
B 249.677†	3054.6	0.9999	mg/L	0.00955	0.9999	mg/L	0.96%
Ba 233.527†	2618.4	0.9848	mg/L	0.01094	0.9848	mg/L	1.11%
Be 313.042†	473115.0	0.9760	mg/L	0.00368	0.9760	mg/L	0.38%
Ca 317.933†	25075.3	2.157	mg/L	0.0204	2.157	mg/L	0.95%
Cd 228.802†	18968.1	1.031	mg/L	0.0035	1.031	mg/L	0.34%
Co 228.616†	23804.0	0.9949	mg/L	0.00316	0.9949	mg/L	0.32%
Cr 267.716†	4436.9	1.008	mg/L	0.0102	1.008	mg/L	1.01%
Cu 324.752†	262876.7	1.001	mg/L	0.0043	1.001	mg/L	0.43%
Fe 273.955†	1895.1	2.040	mg/L	0.0197	2.040	mg/L	0.96%
K 766.490†	29192.0	21.01	mg/L	0.217	21.01	mg/L	1.03%
Mg 279.077†	1583.4	2.104	mg/L	0.0346	2.104	mg/L	1.65%
Mn 257.610†	24726.4	0.9586	mg/L	0.00910	0.9586	mg/L	0.95%
Mo 202.031†	14575.0	0.9969	mg/L	0.00439	0.9969	mg/L	0.44%
Na 589.592†	545717.4	49.55	mg/L	0.209	49.55	mg/L	0.42%
Na 330.237†	1432.6	54.13	mg/L	0.625	54.13	mg/L	1.15%
Ni 231.604†	1320.5	1.014	mg/L	0.0088	1.014	mg/L	0.86%
Pb 220.353†	11545.8	2.011	mg/L	0.0114	2.011	mg/L	0.57%
Sb 206.836†	4995.9	2.064	mg/L	0.0132	2.064	mg/L	0.64%
Se 196.026†	2192.7	2.001	mg/L	0.0070	2.001	mg/L	0.35%
Si 288.158†	2668.3	2.125	mg/L	0.0197	2.125	mg/L	0.93%
Sn 189.927†	3021.2	0.9939	mg/L	0.00866	0.9939	mg/L	0.87%
Sr 421.552†	591147.5	1.011	mg/L	0.0061	1.011	mg/L	0.60%
Ti 334.903†	19935.1	1.031	mg/L	0.0093	1.031	mg/L	0.90%
Tl 190.801†	2770.1	2.004	mg/L	0.0110	2.004	mg/L	0.55%
V 292.402†	86038.7	0.9881	mg/L	0.00408	0.9881	mg/L	0.41%
Zn 206.200†	457.2	1.006	mg/L	0.0108	1.006	mg/L	1.07%

Sequence No.: 7
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/12/2010 10:25:03 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 188.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1744249.8	104.2	%	0.46			0.44%
ScR 361.383	297235.2	109.4	%	0.67			0.61%
Ag 328.068†	-6.0	-0.00004	mg/L	0.000228	-0.00004 mg/L	0.000228	616.92%
Al 308.215†	8.0	0.00717	mg/L	0.003940	0.00717 mg/L	0.003940	54.96%
As 188.979†	-2.3	-0.00202	mg/L	0.001141	-0.00202 mg/L	0.001141	56.52%
B 249.677†	12.4	0.00407	mg/L	0.000993	0.00407 mg/L	0.000993	24.41%
Ba 233.527†	-0.5	-0.00018	mg/L	0.001231	-0.00018 mg/L	0.001231	679.66%
Be 313.042†	-6.6	-0.00001	mg/L	0.000035	-0.00001 mg/L	0.000035	254.39%
Ca 317.933†	12.6	0.00108	mg/L	0.000730	0.00108 mg/L	0.000730	67.38%
Cd 228.802†	5.1	0.00029	mg/L	0.000182	0.00029 mg/L	0.000182	63.50%
Co 228.616†	-6.3	-0.00026	mg/L	0.000291	-0.00026 mg/L	0.000291	110.69%
Cr 267.716†	-0.7	-0.00017	mg/L	0.000912	-0.00017 mg/L	0.000912	533.92%
Cu 324.752†	-124.7	-0.00048	mg/L	0.000114	-0.00048 mg/L	0.000114	23.95%
Fe 273.955†	-2.3	-0.00244	mg/L	0.004144	-0.00244 mg/L	0.004144	169.64%
K 766.490†	-28.0	-0.02017	mg/L	0.026197	-0.02017 mg/L	0.026197	129.86%
Mg 279.077†	4.2	0.00554	mg/L	0.004570	0.00554 mg/L	0.004570	82.53%
Mn 257.610†	-3.8	-0.00015	mg/L	0.000123	-0.00015 mg/L	0.000123	83.67%
Mo 202.031†	25.9	0.00177	mg/L	0.000340	0.00177 mg/L	0.000340	19.19%
Na 589.592†	-92.5	-0.00840	mg/L	0.001319	-0.00840 mg/L	0.001319	15.71%
Na 330.237†	11.3	0.4274	mg/L	0.15192	0.4274 mg/L	0.15192	35.55%
Ni 231.604†	0.5	0.00040	mg/L	0.002166	0.00040 mg/L	0.002166	535.49%
Pb 220.353†	5.8	0.00101	mg/L	0.000302	0.00101 mg/L	0.000302	29.87%
Sb 206.836†	4.2	0.00175	mg/L	0.001057	0.00175 mg/L	0.001057	60.50%
Se 196.026†	1.6	0.00143	mg/L	0.003092	0.00143 mg/L	0.003092	216.46%
Si 288.158†	-6.8	-0.00544	mg/L	0.002192	-0.00544 mg/L	0.002192	40.32%
Sn 189.927†	-0.5	-0.00018	mg/L	0.001002	-0.00018 mg/L	0.001002	560.70%
Sr 421.552†	-11.4	-0.00002	mg/L	0.000036	-0.00002 mg/L	0.000036	184.46%
Ti 334.903†	-0.3	-0.00002	mg/L	0.000476	-0.00002 mg/L	0.000476	>999.9%
Tl 190.801†	4.8	0.00345	mg/L	0.001358	0.00345 mg/L	0.001358	39.39%
V 292.402†	-6.8	-0.00008	mg/L	0.000192	-0.00008 mg/L	0.000192	251.12%
Zn 206.200†	-0.5	-0.00107	mg/L	0.000145	-0.00107 mg/L	0.000145	13.58%

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Analysis Begun

Start Time: 8/12/2010 10:29:36 AM

Logged In Analyst: metals

Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Plasma On Time: 8/12/2010 8:37:11 AM

Technique: ICP Continuous

Sample Information File: C:\pe\metals\Sample Information\0812.sif

Batch ID:

Results Data Set: I2100812

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: RG85 MB1 SWC

Autosampler Location: 304

Date Collected: 8/12/2010 10:29:37 AM

Data Type: Original
-----Dilution: 2X

Nebulizer Parameters: RG85 MB1 SWC

Analyte	Back Pressure	Flow
All	188.0 kPa	0.75 L/min

Mean Data: RG85 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1754230.3	104.8	%	1.48			1.42%
ScR 361.383	300838.1	110.7	%	0.68			0.61%
Ag 328.068†	24.9	0.00015	mg/L	0.000100	0.00031 mg/L	0.000201	65.72%
Al 308.215†	8.2	0.00735	mg/L	0.005202	0.01470 mg/L	0.010403	70.77%
As 188.979†	-0.8	-0.00064	mg/L	0.001879	-0.00129 mg/L	0.003758	291.46%
B 249.677†	4.3	0.00140	mg/L	0.000941	0.00279 mg/L	0.001883	67.42%
Ba 233.527†	0.5	0.00021	mg/L	0.000750	0.00041 mg/L	0.001500	365.08%
Be 313.042†	-43.7	-0.00009	mg/L	0.000038	-0.00018 mg/L	0.000075	41.68%
Ca 317.933†	93.7	0.00806	mg/L	0.000188	0.01612 mg/L	0.000375	2.33%
Cd 228.802†	2.6	0.00014	mg/L	0.000069	0.00029 mg/L	0.000138	47.85%
Co 228.616†	-1.4	-0.00006	mg/L	0.000155	-0.00012 mg/L	0.000311	253.33%
Cr 267.716†	6.9	0.00156	mg/L	0.000439	0.00313 mg/L	0.000879	28.09%
Cu 324.752†	-187.9	-0.00072	mg/L	0.000240	-0.00143 mg/L	0.000480	33.52%
Fe 273.955†	0.5	0.00057	mg/L	0.002242	0.00114 mg/L	0.004484	393.31%
K 766.490†	4.1	0.00295	mg/L	0.010801	0.00590 mg/L	0.021602	366.26%
Mg 279.077†	3.8	0.00502	mg/L	0.007703	0.01005 mg/L	0.015406	153.33%
Mn 257.610†	-0.3	-0.00001	mg/L	0.000136	-0.00002 mg/L	0.000272	>999.9%
Mo 202.031†	1.4	0.00010	mg/L	0.000213	0.00020 mg/L	0.000425	217.92%
Na 589.592†	-37.7	-0.00342	mg/L	0.001149	-0.00684 mg/L	0.002298	33.58%
Na 330.237†	2.0	0.07622	mg/L	0.644892	0.1524 mg/L	1.28978	846.05%
Ni 231.604†	2.4	0.00180	mg/L	0.002627	0.00361 mg/L	0.005254	145.69%
Pb 220.353†	-2.4	-0.00042	mg/L	0.000640	-0.00084 mg/L	0.001279	152.13%
Sb 206.836†	-5.0	-0.00208	mg/L	0.001249	-0.00416 mg/L	0.002497	59.97%
Se 196.026†	-0.6	-0.00059	mg/L	0.002129	-0.00118 mg/L	0.004257	359.57%
Si 288.158†	-8.5	-0.00672	mg/L	0.004590	-0.01345 mg/L	0.009180	68.27%
Sn 189.927†	1.7	0.00055	mg/L	0.000575	0.00110 mg/L	0.001149	104.32%
Sr 421.552†	-4.8	-0.00001	mg/L	0.000041	-0.00002 mg/L	0.000083	501.41%
Ti 334.903†	17.2	0.00089	mg/L	0.000124	0.00178 mg/L	0.000249	13.94%
Tl 190.801†	3.6	0.00261	mg/L	0.002503	0.00523 mg/L	0.005006	95.74%
V 292.402†	-3.3	-0.00003	mg/L	0.000248	-0.00006 mg/L	0.000496	769.14%
Zn 206.200†	-0.1	-0.00032	mg/L	0.000616	-0.00065 mg/L	0.001232	189.54%

Sequence No.: 2
 Sample ID: RI10 MB TWC

Autosampler Location: 305
 Date Collected: 8/12/2010 10:33:50 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RI10 MB TWC

Analyte Back Pressure Flow
 All 188.0 kPa 0.75 L/min

Mean Data: RI10 MB TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
ScA 357.253	1745696.5	104.2 %		1.65				1.59%
ScR 361.383	301421.0	111.0 %		0.23				0.21%
Ag 328.068†	2.7	0.00002 mg/L		0.000137	0.00002 mg/L	0.000137	837.88%	
Al 308.215†	11.0	0.00992 mg/L		0.001416	0.00992 mg/L	0.001416	14.28%	
As 188.979†	-1.9	-0.00162 mg/L		0.002550	-0.00162 mg/L	0.002550	157.13%	
B 249.677†	10.9	0.00357 mg/L		0.000580	0.00357 mg/L	0.000580	16.21%	
Ba 233.527†	-1.5	-0.00055 mg/L		0.000517	-0.00055 mg/L	0.000517	93.23%	
Be 313.042†	-46.3	-0.00010 mg/L		0.000025	-0.00010 mg/L	0.000025	25.93%	
Ca 317.933†	149.7	0.01288 mg/L		0.001085	0.01288 mg/L	0.001085	8.43%	
Cd 228.802†	6.1	0.00034 mg/L		0.000125	0.00034 mg/L	0.000125	36.80%	
Co 228.616†	-6.6	-0.00028 mg/L		0.000149	-0.00028 mg/L	0.000149	53.72%	
Cr 267.716†	11.8	0.00268 mg/L		0.000790	0.00268 mg/L	0.000790	29.48%	
Cu 324.752†	-104.6	-0.00040 mg/L		0.000544	-0.00040 mg/L	0.000544	136.49%	
Fe 273.955†	2.3	0.00243 mg/L		0.003483	0.00243 mg/L	0.003483	143.15%	
K 766.490†	-14.5	-0.01041 mg/L		0.013565	-0.01041 mg/L	0.013565	130.33%	
Mg 279.077†	-0.1	-0.00010 mg/L		0.010328	-0.00010 mg/L	0.010328	>999.9%	
Mn 257.610†	0.1	0.00000 mg/L		0.000066	0.00000 mg/L	0.000066	>999.9%	
Mo 202.031†	-2.4	-0.00017 mg/L		0.000205	-0.00017 mg/L	0.000205	123.69%	
Na 589.592†	-37.3	-0.00339 mg/L		0.001727	-0.00339 mg/L	0.001727	51.01%	
Na 330.237†	4.3	0.1610 mg/L		0.52200	0.1610 mg/L	0.52200	324.22%	
Ni 231.604†	3.4	0.00259 mg/L		0.001270	0.00259 mg/L	0.001270	48.94%	
Pb 220.353†	3.1	0.00055 mg/L		0.001236	0.00055 mg/L	0.001236	226.53%	
Sb 206.836†	0.1	0.00001 mg/L		0.002002	0.00001 mg/L	0.002002	>999.9%	
Se 196.026†	-0.2	-0.00022 mg/L		0.002314	-0.00022 mg/L	0.002314	>999.9%	
Si 288.158†	-1.4	-0.00113 mg/L		0.008603	-0.00113 mg/L	0.008603	764.24%	
Sn 189.927†	1.3	0.00042 mg/L		0.001185	0.00042 mg/L	0.001185	283.75%	
Sr 421.552†	-6.4	-0.00001 mg/L		0.000027	-0.00001 mg/L	0.000027	249.55%	
Ti 334.903†	8.8	0.00046 mg/L		0.000265	0.00046 mg/L	0.000265	58.13%	
Tl 190.801†	-1.2	-0.00090 mg/L		0.000800	-0.00090 mg/L	0.000800	89.11%	
V 292.402†	7.0	0.00009 mg/L		0.000127	0.00009 mg/L	0.000127	140.75%	
Zn 206.200†	0.5	0.00117 mg/L		0.001775	0.00117 mg/L	0.001775	151.88%	

Sequence No.: 3
 Sample ID: RI10 A TWC

Autosampler Location: 306
 Date Collected: 8/12/2010 10:38:02 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RI10 A TWC

Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: RI10 A TWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1748054.5	104.4 %	0.30			0.29%
ScR 361.383	300933.8	110.8 %	0.66			0.60%
Ag 328.068†	38.0	0.00002 mg/L	0.000102	0.00002 mg/L	0.000102	416.26%
Al 308.215†	1537.7	1.384 mg/L	0.0134	1.384 mg/L	0.0134	0.97%
As 188.979†	8.8	0.00769 mg/L	0.001295	0.00769 mg/L	0.001295	16.84%
B 249.677†	173.8	0.05700 mg/L	0.001890	0.05700 mg/L	0.001890	3.32%
Ba 233.527†	76.8	0.02844 mg/L	0.000453	0.02844 mg/L	0.000453	1.59%
Be 313.042†	-29.9	-0.00006 mg/L	0.000034	-0.00006 mg/L	0.000034	53.02%
Ca 317.933†	453725.6	39.03 mg/L	0.256	39.03 mg/L	0.256	0.66%
Cd 228.802†	6.7	0.00034 mg/L	0.000097	0.00034 mg/L	0.000097	28.48%
Co 228.616†	45.0	0.00175 mg/L	0.000121	0.00175 mg/L	0.000121	6.94%
Cr 267.716†	20.5	0.00182 mg/L	0.000560	0.00182 mg/L	0.000560	30.83%
Cu 324.752†	1157.7	0.00409 mg/L	0.000203	0.00409 mg/L	0.000203	4.97%
Fe 273.955†	1052.6	1.136 mg/L	0.0073	1.136 mg/L	0.0073	0.64%
K 766.490†	3712.5	2.672 mg/L	0.0197	2.672 mg/L	0.0197	0.74%
Mg 279.077†	12288.0	16.28 mg/L	0.213	16.28 mg/L	0.213	1.31%
Mn 257.610†	27752.5	1.075 mg/L	0.0101	1.075 mg/L	0.0101	0.94%
Mo 202.031†	58.2	0.00331 mg/L	0.000425	0.00331 mg/L	0.000425	12.85%
Na 589.592†	331999.3	30.15 mg/L	0.143	30.15 mg/L	0.143	0.47%
Na 330.237†	854.6	32.50 mg/L	0.122	32.50 mg/L	0.122	0.37%
Ni 231.604†	5.3	0.00405 mg/L	0.002268	0.00405 mg/L	0.002268	56.02%
Pb 220.353†	-18.7	-0.00309 mg/L	0.001187	-0.00309 mg/L	0.001187	38.38%
Sb 206.836†	2.9	0.00112 mg/L	0.001143	0.00112 mg/L	0.001143	101.69%
Se 196.026†	24.5	0.01968 mg/L	0.002018	0.01968 mg/L	0.002018	10.26%
Si 288.158†	20730.0	16.48 mg/L	0.446	16.48 mg/L	0.446	2.70%
Sn 189.927†	-29.6	-0.00787 mg/L	0.000589	-0.00787 mg/L	0.000589	7.49%
Sr 421.552†	161060.7	0.2754 mg/L	0.00045	0.2754 mg/L	0.00045	0.16%
Ti 334.903†	1352.3	0.06763 mg/L	0.000725	0.06763 mg/L	0.000725	1.07%
Tl 190.801†	10.3	0.00868 mg/L	0.002168	0.00868 mg/L	0.002168	24.99%
V 292.402†	423.2	0.00486 mg/L	0.000072	0.00486 mg/L	0.000072	1.49%
Zn 206.200†	9.0	0.01984 mg/L	0.001280	0.01984 mg/L	0.001280	6.45%

Sequence No.: 4
Sample ID: RG85 A SWC

Autosampler Location: 307
Date Collected: 8/12/2010 10:42:14 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG85 A SWC
Analyte Back Pressure Flow
All 188.0 kPa 0.75 L/min

Mean Data: RG85 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1768588.3	105.6 %		1.08			1.03%
ScR 361.383	307927.8	113.3 %		0.55			0.49%
Ag 328.068†	278.9	0.00161 mg/L		0.000038	0.00323 mg/L	0.000076	2.37%
Al 308.215†	58951.9	53.05 mg/L		0.463	106.1 mg/L	0.93	0.87%
As 188.979†	-4.9	0.05148 mg/L		0.002390	0.1030 mg/L	0.00478	4.64%
B 249.677†	106.8	0.03495 mg/L		0.001074	0.06991 mg/L	0.002148	3.07%
Ba 233.527†	2093.3	0.7708 mg/L		0.00795	1.542 mg/L	0.0159	1.03%
Be 313.042†	462.6	0.00075 mg/L		0.000022	0.00151 mg/L	0.000044	2.95%
Ca 317.933†	541037.5	46.54 mg/L		0.407	93.08 mg/L	0.814	0.87%
Cd 228.802†	241.2	0.01328 mg/L		0.000085	0.02655 mg/L	0.000170	0.64%
Co 228.616†	1050.4	0.03625 mg/L		0.000412	0.07249 mg/L	0.000824	1.14%
Cr 267.716†	759.2	0.1773 mg/L		0.00017	0.3545 mg/L	0.00034	0.10%
Cu 324.752†	139227.1	0.5416 mg/L		0.00761	1.083 mg/L	0.0152	1.40%
Fe 273.955†	165940.1	179.1 mg/L		1.33	358.1 mg/L	2.65	0.74%
K 766.490†	6126.4	4.410 mg/L		0.0331	8.820 mg/L	0.0661	0.75%
Mg 279.077†	15453.5	20.39 mg/L		0.135	40.77 mg/L	0.270	0.66%
Mn 257.610†	35703.6	1.384 mg/L		0.0083	2.768 mg/L	0.0167	0.60%
Mo 202.031†	650.9	0.04371 mg/L		0.000749	0.08743 mg/L	0.001499	1.71%
Na 589.592†	67425.9	6.123 mg/L		0.0543	12.25 mg/L	0.109	0.89%
Na 330.237†	177.8	7.166 mg/L		0.1130	14.33 mg/L	0.226	1.58%
Ni 231.604†	168.6	0.1293 mg/L		0.00282	0.2587 mg/L	0.00564	2.18%
Pb 220.353†	4634.0	0.8027 mg/L		0.00579	1.605 mg/L	0.0116	0.72%
Sb 206.836†	41.2	0.02063 mg/L		0.001441	0.04127 mg/L	0.002881	6.98%
Se 196.026†	18.8	0.01395 mg/L		0.002624	0.02791 mg/L	0.005249	18.81%
Si 288.158†	1803.8	1.434 mg/L		0.0376	2.869 mg/L	0.0751	2.62%
Sn 189.927†	93.7	0.03439 mg/L		0.000095	0.06879 mg/L	0.000189	0.28%
Sr 421.552†	224157.2	0.3833 mg/L		0.00390	0.7667 mg/L	0.00780	1.02%
Ti 334.903†	61198.0	3.168 mg/L		0.0227	6.336 mg/L	0.0455	0.72%
Tl 190.801†	-24.1	0.01031 mg/L		0.003939	0.02062 mg/L	0.007878	38.21%
V 292.402†	28100.0	0.3013 mg/L		0.00541	0.6025 mg/L	0.01083	1.80%
Zn 206.200†	1327.1	2.921 mg/L		0.0126	5.843 mg/L	0.0251	0.43%

Sequence No.: 5
Sample ID: RG85 B SWC

Autosampler Location: 308
Date Collected: 8/12/2010 10:46:11 AM
Data Type: Original

Dilution: 2X

As, Cu, Pb, Zn
8-12-10 US

Nebulizer Parameters: RG85 B SWC

Analyte Back Pressure Flow
All 188.0 kPa 0.75 L/min

Mean Data: RG85 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1758767.0	105.0 %	0.86			0.82%
ScR 361.383	307513.6	113.2 %	1.70			1.50%
Ag 328.068†	320.8	0.00187 mg/L	0.000178	0.00374 mg/L	0.000355	9.50%
Al 308.215†	76402.0	68.75 mg/L	1.171	137.5 mg/L	2.34	1.70%
As 188.979†	-1.4	0.06360 mg/L	0.000849	0.1272 mg/L	0.00170	1.34%
B 249.677†	126.1	0.04128 mg/L	0.001820	0.08255 mg/L	0.003640	4.41%
Ba 233.527†	2435.0	0.8973 mg/L	0.01029	1.795 mg/L	0.0206	1.15%
Be 313.042†	514.0	0.00083 mg/L	0.000041	0.00167 mg/L	0.000082	4.91%
Ca 317.933†	723109.2	62.20 mg/L	0.817	124.4 mg/L	1.63	1.31%
Cd 228.802†	365.7	0.02009 mg/L	0.000265	0.04017 mg/L	0.000530	1.32%
Co 228.616†	1219.7	0.04215 mg/L	0.000550	0.08430 mg/L	0.001100	1.30%
Cr 267.716†	884.0	0.2059 mg/L	0.00189	0.4117 mg/L	0.00378	0.92%
Cu 324.752†	146479.0	0.5705 mg/L	0.00807	1.141 mg/L	0.0161	1.41%
Fe 273.955†	185813.3	200.5 mg/L	2.75	401.0 mg/L	5.49	1.37%
K 766.490†	7143.7	5.142 mg/L	0.603	10.28 mg/L	0.121	1.17%
Mg 279.077†	18041.5	23.80 mg/L	0.342	47.61 mg/L	0.684	1.44%
Mn 257.610†	39121.6	1.517 mg/L	0.0226	3.033 mg/L	0.0451	1.49%
Mo 202.031†	774.0	0.05186 mg/L	0.000253	0.1037 mg/L	0.00051	0.49%
Na 589.592†	89089.0	8.090 mg/L	0.1315	16.18 mg/L	0.263	1.63%
Na 330.237†	233.4	9.440 mg/L	0.2390	18.88 mg/L	0.478	2.53%
Ni 231.604†	193.1	0.1481 mg/L	0.00128	0.2962 mg/L	0.00255	0.86%
Pb 220.353†	5639.4	0.9788 mg/L	0.01136	1.958 mg/L	0.0227	1.16%
Sb 206.836†	47.3	0.02361 mg/L	0.003920	0.04722 mg/L	0.007840	16.60%
Se 196.026†	29.2	0.02240 mg/L	0.005713	0.04480 mg/L	0.011427	25.51%
Si 288.158†	1252.1	0.9957 mg/L	0.00843	1.991 mg/L	0.0169	0.85%
Sn 189.927†	89.8	0.03406 mg/L	0.000719	0.06812 mg/L	0.001439	2.11%
Sr 421.552†	306710.3	0.5245 mg/L	0.00696	1.049 mg/L	0.0139	1.33%
Ti 334.903†	71393.1	3.695 mg/L	0.0488	7.391 mg/L	0.0976	1.32%
Tl 190.801†	-32.2	0.00779 mg/L	0.004271	0.01557 mg/L	0.008541	54.84%
V 292.402†	31246.2	0.3348 mg/L	0.00504	0.6695 mg/L	0.01009	1.51%
Zn 206.200†	1448.6	3.189 mg/L	0.0344	6.377 mg/L	0.0689	1.08%

Sequence No.: 7
 Sample ID: RG85 MB1SPD SWC

Autosampler Location: 310
 Date Collected: 8/12/2010 10:54:35 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG85 MB1SPD SWC

Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: RG85 MB1SPD SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1787801.7	106.8 %	0.67			0.63%
ScR 361.383	305301.6	112.4 %	1.34			1.19%
Ag 328.068†	85217.0	0.5218 mg/L	0.00766	1.044 mg/L	0.0153	1.47%
Al 308.215†	2353.9	2.109 mg/L	0.0226	4.218 mg/L	0.0451	1.07%
As 188.979†	2407.0	2.088 mg/L	0.0189	4.177 mg/L	0.0378	0.90%
B 249.677†	8.2	0.00142 mg/L	0.001538	0.00283 mg/L	0.003077	108.68%
Ba 233.527†	5252.9	1.976 mg/L	0.0286	3.953 mg/L	0.0571	1.45%
Be 313.042†	237344.3	0.4896 mg/L	0.00587	0.9792 mg/L	0.01175	1.20%
Ca 317.933†	121858.9	10.48 mg/L	0.119	20.96 mg/L	0.238	1.13%
Cd 228.802†	9573.1	0.5165 mg/L	0.00574	1.033 mg/L	0.0115	1.11%
Co 228.616†	11953.4	0.5001 mg/L	0.00577	1.000 mg/L	0.0115	1.15%
Cr 267.716†	2225.4	0.5041 mg/L	0.00721	1.008 mg/L	0.0144	1.43%
Cu 324.752†	123562.3	0.4708 mg/L	0.00532	0.9416 mg/L	0.01063	1.13%
Fe 273.955†	1938.4	2.089 mg/L	0.0309	4.178 mg/L	0.0617	1.48%
K 766.490†	14538.8	10.47 mg/L	0.153	20.93 mg/L	0.306	1.46%
Mg 279.077†	7711.5	10.22 mg/L	0.154	20.44 mg/L	0.308	1.51%
Mn 257.610†	12041.3	0.4670 mg/L	0.00458	0.9340 mg/L	0.00916	0.98%
Mo 202.031†	12.5	0.00067 mg/L	0.000122	0.00135 mg/L	0.000243	18.07%
Na 589.592†	106482.6	9.669 mg/L	0.1037	19.34 mg/L	0.207	1.07%
Na 330.237†	291.6	10.95 mg/L	0.117	21.89 mg/L	0.233	1.07%
Ni 231.604†	655.8	0.5030 mg/L	0.00457	1.006 mg/L	0.0091	0.91%
Pb 220.353†	11473.3	1.998 mg/L	0.0177	3.995 mg/L	0.0354	0.89%
Sb 206.836†	5.0	-0.00159 mg/L	0.001944	-0.00318 mg/L	0.003889	122.11%
Se 196.026†	2307.6	2.105 mg/L	0.0207	4.210 mg/L	0.0415	0.98%
Si 288.158†	0.8	0.00248 mg/L	0.008076	0.00496 mg/L	0.016151	325.43%
Sn 189.927†	-8.3	-0.00223 mg/L	0.000637	-0.00446 mg/L	0.001275	28.57%
Sr 421.552†	293222.8	0.5015 mg/L	0.00604	1.003 mg/L	0.0121	1.20%
Ti 334.903†	36.3	0.00114 mg/L	0.000399	0.00227 mg/L	0.000798	35.09%
Tl 190.801†	2807.1	2.029 mg/L	0.0202	4.059 mg/L	0.0404	1.00%
V 292.402†	43939.3	0.5044 mg/L	0.00190	1.009 mg/L	0.0038	0.38%
Zn 206.200†	229.0	0.5043 mg/L	0.00402	1.009 mg/L	0.0080	0.80%

Sequence No.: 8
Sample ID: RI10 MBSPK TWC

Autosampler Location: 311
Date Collected: 8/12/2010 10:58:47 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RI10 MBSPK TWC

Analyte Back Pressure Flow
All 189.0 kPa 0.75 L/min

Mean Data: RI10 MBSPK TWC

Analyte	Mean Corrected		Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
	Intensity	Conc. Units	Units				
ScA 357.253	1776066.6	106.1 %		1.31			1.24%
ScR 361.383	304894.9	112.2 %		1.49			1.33%
Ag 328.068†	82304.9	0.5040 mg/L		0.00602	0.5040 mg/L	0.00602	1.19%
Al 308.215†	2282.2	2.045 mg/L		0.0161	2.045 mg/L	0.0161	0.79%
As 188.979†	2277.7	1.976 mg/L		0.0232	1.976 mg/L	0.0232	1.18%
B 249.677†	8.1	0.00143 mg/L		0.001207	0.00143 mg/L	0.001207	84.61%
Ba 233.527†	5067.8	1.907 mg/L		0.0167	1.907 mg/L	0.0167	0.88%
Be 313.042†	228221.6	0.4708 mg/L		0.00394	0.4708 mg/L	0.00394	0.84%
Ca 317.933†	117410.2	10.10 mg/L		0.137	10.10 mg/L	0.137	1.35%
Cd 228.802†	9130.7	0.4927 mg/L		0.00470	0.4927 mg/L	0.00470	0.95%
Co 228.616†	11569.3	0.4840 mg/L		0.00424	0.4840 mg/L	0.00424	0.88%
Cr 267.716†	2136.1	0.4839 mg/L		0.00460	0.4839 mg/L	0.00460	0.95%
Cu 324.752†	122375.9	0.4663 mg/L		0.00902	0.4663 mg/L	0.00902	1.93%
Fe 273.955†	1861.2	2.006 mg/L		0.0190	2.006 mg/L	0.0190	0.95%
K 766.490†	13910.4	10.01 mg/L		0.098	10.01 mg/L	0.098	0.98%
Mg 279.077†	7420.7	9.834 mg/L		0.1315	9.834 mg/L	0.1315	1.34%
Mn 257.610†	11562.2	0.4484 mg/L		0.00817	0.4484 mg/L	0.00817	1.82%
Mo 202.031†	13.4	0.00074 mg/L		0.000383	0.00074 mg/L	0.000383	51.45%
Na 589.592†	103015.6	9.354 mg/L		0.0765	9.354 mg/L	0.0765	0.82%
Na 330.237†	287.7	10.81 mg/L		0.143	10.81 mg/L	0.143	1.33%
Ni 231.604†	628.5	0.4820 mg/L		0.00668	0.4820 mg/L	0.00668	1.39%
Pb 220.353†	11073.7	1.928 mg/L		0.0325	1.928 mg/L	0.0325	1.69%
Sb 206.836†	4.7	-0.00152 mg/L		0.001880	-0.00152 mg/L	0.001880	123.65%
Se 196.026†	2099.6	1.915 mg/L		0.0285	1.915 mg/L	0.0285	1.49%
Si 288.158†	17.0	0.01524 mg/L		0.006696	0.01524 mg/L	0.006696	43.92%
Sn 189.927†	-11.5	-0.00330 mg/L		0.001822	-0.00330 mg/L	0.001822	55.21%
Sr 421.552†	283965.0	0.4856 mg/L		0.00268	0.4856 mg/L	0.00268	0.55%
Ti 334.903†	30.4	0.00086 mg/L		0.000429	0.00086 mg/L	0.000429	50.11%
Tl 190.801†	2714.7	1.963 mg/L		0.0314	1.963 mg/L	0.0314	1.60%
V 292.402†	43125.4	0.4950 mg/L		0.00851	0.4950 mg/L	0.00851	1.72%
Zn 206.200†	217.1	0.4781 mg/L		0.00735	0.4781 mg/L	0.00735	1.54%

Sequence No.: 9
 Sample ID: CV 2

Autosampler Location: 7
 Date Collected: 8/12/2010 11:02:59 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1763246.5	105.3 %	1.68			1.60%
ScR 361.383	308238.7	113.5 %	1.35			1.19%
Ag 328.068†	165444.3	1.013 mg/L	0.0227	1.013 mg/L	0.0227	2.24%
Al 308.215†	2311.6	2.049 mg/L	0.0303	2.049 mg/L	0.0303	1.48%
As 188.979†	2328.5	2.037 mg/L	0.0342	2.037 mg/L	0.0342	1.68%
B 249.677†	2957.7	0.9682 mg/L	0.01377	0.9682 mg/L	0.01377	1.42%
Ba 233.527†	2552.5	0.9600 mg/L	0.01112	0.9600 mg/L	0.01112	1.16%
Be 313.042†	459855.6	0.9486 mg/L	0.00810	0.9486 mg/L	0.00810	0.85%
Ca 317.933†	24084.9	2.072 mg/L	0.0190	2.072 mg/L	0.0190	0.92%
Cd 228.802†	18959.8	1.030 mg/L	0.0251	1.030 mg/L	0.0251	2.44%
Co 228.616†	23916.6	0.9997 mg/L	0.02340	0.9997 mg/L	0.02340	2.34%
Cr 267.716†	4322.1	0.9814 mg/L	0.01270	0.9814 mg/L	0.01270	1.29%
Cu 324.752†	261310.8	0.9949 mg/L	0.02180	0.9949 mg/L	0.02180	2.19%
Fe 273.955†	1828.8	1.968 mg/L	0.0265	1.968 mg/L	0.0265	1.35%
K 766.490†	28122.7	20.24 mg/L	0.245	20.24 mg/L	0.245	1.21%
Mg 279.077†	1532.4	2.036 mg/L	0.0270	2.036 mg/L	0.0270	1.33%
Mn 257.610†	23718.6	0.9195 mg/L	0.01092	0.9195 mg/L	0.01092	1.19%
Mo 202.031†	14581.9	0.9973 mg/L	0.01907	0.9973 mg/L	0.01907	1.91%
Na 589.592†	521420.5	47.35 mg/L	0.334	47.35 mg/L	0.334	0.71%
Na 330.237†	1381.8	52.20 mg/L	0.681	52.20 mg/L	0.681	1.31%
Ni 231.604†	1279.3	0.9825 mg/L	0.01681	0.9825 mg/L	0.01681	1.71%
Pb 220.353†	11594.3	2.019 mg/L	0.0388	2.019 mg/L	0.0388	1.92%
Sb 206.836†	4993.8	2.063 mg/L	0.0372	2.063 mg/L	0.0372	1.80%
Se 196.026†	2213.6	2.020 mg/L	0.0415	2.020 mg/L	0.0415	2.05%
Si 288.158†	2585.5	2.060 mg/L	0.0353	2.060 mg/L	0.0353	1.72%
Sn 189.927†	3047.8	1.003 mg/L	0.0182	1.003 mg/L	0.0182	1.81%
Sr 421.552†	575193.0	0.9837 mg/L	0.00670	0.9837 mg/L	0.00670	0.68%
Ti 334.903†	19193.2	0.9930 mg/L	0.00939	0.9930 mg/L	0.00939	0.95%
Tl 190.801†	2783.2	2.014 mg/L	0.0401	2.014 mg/L	0.0401	1.99%
V 292.402†	86135.2	0.9891 mg/L	0.02144	0.9891 mg/L	0.02144	2.17%
Zn 206.200†	446.0	0.9818 mg/L	0.01580	0.9818 mg/L	0.01580	1.61%

Sequence No.: 10
 Sample ID: CB 2

Autosampler Location: 1
 Date Collected: 8/12/2010 11:07:13 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1776815.2	106.1	%	0.67			0.63%
ScR 361.383	309648.8	114.0	%	0.82			0.72%
Ag 328.068†	-53.3	-0.00033	mg/L	0.000118	-0.00033 mg/L	0.000118	36.31%
Al 308.215†	2.6	0.00234	mg/L	0.004780	0.00234 mg/L	0.004780	204.30%
As 188.979†	-0.8	-0.00068	mg/L	0.000485	-0.00068 mg/L	0.000485	71.20%
B 249.677†	14.4	0.00472	mg/L	0.001779	0.00472 mg/L	0.001779	37.69%
Ba 233.527†	-0.3	-0.00012	mg/L	0.000718	-0.00012 mg/L	0.000718	595.85%
Be 313.042†	-27.0	-0.00006	mg/L	0.000028	-0.00006 mg/L	0.000028	51.09%
Ca 317.933†	-0.8	-0.00007	mg/L	0.001835	-0.00007 mg/L	0.001835	>999.9%
Cd 228.802†	5.0	0.00027	mg/L	0.000044	0.00027 mg/L	0.000044	16.11%
Co 228.616†	1.4	0.00006	mg/L	0.000174	0.00006 mg/L	0.000174	297.09%
Cr 267.716†	3.5	0.00079	mg/L	0.000377	0.00079 mg/L	0.000377	47.83%
Cu 324.752†	-163.4	-0.00062	mg/L	0.000346	-0.00062 mg/L	0.000346	55.45%
Fe 273.955†	-3.4	-0.00365	mg/L	0.001759	-0.00365 mg/L	0.001759	48.22%
K 766.490†	6.0	0.00429	mg/L	0.015740	0.00429 mg/L	0.015740	366.99%
Mg 279.077†	5.2	0.00687	mg/L	0.006064	0.00687 mg/L	0.006064	88.21%
Mn 257.610†	-1.7	-0.00007	mg/L	0.000098	-0.00007 mg/L	0.000098	145.70%
Mo 202.031†	24.2	0.00166	mg/L	0.000161	0.00166 mg/L	0.000161	9.70%
Na 589.592†	-81.2	-0.00738	mg/L	0.005204	-0.00738 mg/L	0.005204	70.53%
Na 330.237†	21.6	0.8171	mg/L	0.08094	0.8171 mg/L	0.08094	9.91%
Ni 231.604†	0.1	0.00007	mg/L	0.001702	0.00007 mg/L	0.001702	>999.9%
Pb 220.353†	7.8	0.00135	mg/L	0.002107	0.00135 mg/L	0.002107	155.68%
Sb 206.836†	3.4	0.00139	mg/L	0.001628	0.00139 mg/L	0.001628	116.96%
Se 196.026†	3.0	0.00272	mg/L	0.000967	0.00272 mg/L	0.000967	35.54%
Si 288.158†	2.6	0.00209	mg/L	0.006469	0.00209 mg/L	0.006469	308.86%
Sn 189.927†	1.0	0.00032	mg/L	0.000508	0.00032 mg/L	0.000508	156.78%
Sr 421.552†	-28.7	-0.00005	mg/L	0.000036	-0.00005 mg/L	0.000036	72.56%
Ti 334.903†	25.9	0.00134	mg/L	0.000948	0.00134 mg/L	0.000948	70.74%
Tl 190.801†	2.1	0.00155	mg/L	0.001285	0.00155 mg/L	0.001285	82.66%
V 292.402†	-3.8	-0.00004	mg/L	0.000065	-0.00004 mg/L	0.000065	162.27%
Zn 206.200†	0.2	0.00038	mg/L	0.002733	0.00038 mg/L	0.002733	718.14%

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Analysis Begun

Start Time: 8/12/2010 11:11:58 AM

Plasma On Time: 8/12/2010 8:37:11 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0812A.sif

Batch ID:

Results Data Set: I2100812

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 301

Sample ID: RG94 MB1 SWC

Date Collected: 8/12/2010 11:11:59 AM

Data Type: Original

Dilution: 2X
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Nebulizer Parameters: RG94 MB1 SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.75 L/min

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Mean Data: RG94 MB1 SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	1766816.3	105.5	%	0.96			0.91%
ScR 361.383	309575.7	114.0	%	0.44			0.38%
Ag 328.068†	32.6	0.00020	mg/L	0.000174	0.00040 mg/L	0.000347	87.25%
Al 308.215†	213.8	0.1924	mg/L	0.00472	0.3848 mg/L	0.00944	2.45%
As 188.979†	-1.8	-0.00142	mg/L	0.000276	-0.00284 mg/L	0.000552	19.43%
B 249.677†	11.6	0.00380	mg/L	0.000214	0.00760 mg/L	0.000429	5.65%
Ba 233.527†	1.7	0.00062	mg/L	0.000434	0.00124 mg/L	0.000869	69.89%
Be 313.042†	-27.8	-0.00006	mg/L	0.000060	-0.00012 mg/L	0.000120	103.71%
Ca 317.933†	906.6	0.07799	mg/L	0.000667	0.1560 mg/L	0.00133	0.86%
Cd 228.802†	5.4	0.00030	mg/L	0.000097	0.00060 mg/L	0.000194	32.21%
Co 228.616†	-4.7	-0.00022	mg/L	0.000048	-0.00043 mg/L	0.000096	22.18%
Cr 267.716†	8.9	0.00202	mg/L	0.001769	0.00404 mg/L	0.003538	87.66%
Cu 324.752†	32.8	0.00014	mg/L	0.000418	0.00027 mg/L	0.000836	304.10%
Fe 273.955†	238.1	0.2569	mg/L	0.00090	0.5138 mg/L	0.00179	0.35%
K 766.490†	-5.7	-0.00408	mg/L	0.022951	-0.00815 mg/L	0.045901	562.99%
Mg 279.077†	72.1	0.09539	mg/L	0.003998	0.1908 mg/L	0.00800	4.19%
Mn 257.610†	122.0	0.00473	mg/L	0.000051	0.00945 mg/L	0.000102	1.08%
Mo 202.031†	0.1	0.00000	mg/L	0.000252	0.00001 mg/L	0.000505	>999.9%
Na 589.592†	2.0	0.00018	mg/L	0.003991	0.00036 mg/L	0.007982	>999.9%
Na 330.237†	18.1	0.6856	mg/L	0.40282	1.371 mg/L	0.8056	58.75%
Ni 231.604†	0.7	0.00056	mg/L	0.002639	0.00111 mg/L	0.005277	473.88%
Pb 220.353†	1.0	0.00019	mg/L	0.000601	0.00039 mg/L	0.001203	309.17%
Sb 206.836†	-1.4	-0.00059	mg/L	0.001137	-0.00118 mg/L	0.002273	192.10%
Se 196.026†	2.6	0.00237	mg/L	0.001495	0.00473 mg/L	0.002991	63.20%
Si 288.158†	9.1	0.00727	mg/L	0.005431	0.01455 mg/L	0.010862	74.66%
Sn 189.927†	0.7	0.00024	mg/L	0.000329	0.00049 mg/L	0.000657	134.14%
Sr 421.552†	234.1	0.00040	mg/L	0.000012	0.00080 mg/L	0.000025	3.10%
Ti 334.903†	189.6	0.00982	mg/L	0.000522	0.01964 mg/L	0.001044	5.32%
Tl 190.801†	0.2	0.00022	mg/L	0.001040	0.00044 mg/L	0.002080	471.07%
V 292.402†	39.6	0.00043	mg/L	0.000305	0.00086 mg/L	0.000611	71.26%
Zn 206.200†	1.3	0.00278	mg/L	0.004104	0.00556 mg/L	0.008207	147.56%

Sequence No.: 2
 Sample ID: RG94 A SWC

Autosampler Location: 302
 Date Collected: 8/12/2010 11:16:11 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 A SWC
 Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: RG94 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1810915.6	108.1	%	0.29				0.27%
ScR 361.383	311999.2	114.8	%	2.33				2.03%
Ag 328.068†	55.8	0.00006	mg/L	0.000193	0.00012	mg/L	0.000386	324.95%
Al 308.215†	137149.8	123.4	mg/L	2.69	246.8	mg/L	5.38	2.18%
As 188.979†	-94.7	0.03229	mg/L	0.003119	0.06458	mg/L	0.006238	9.66%
B 249.677†	27.9	0.00892	mg/L	0.004268	0.01784	mg/L	0.008536	47.84%
Ba 233.527†	1263.7	0.4593	mg/L	0.00790	0.9187	mg/L	0.01580	1.72%
Be 313.042†	1226.7	0.00225	mg/L	0.000157	0.00449	mg/L	0.000315	7.01%
Ca 317.933†	543034.1	46.71	mg/L	1.224	93.42	mg/L	2.448	2.62%
Cd 228.802†	59.4	0.00379	mg/L	0.000241	0.00757	mg/L	0.000482	6.36%
Co 228.616†	2353.3	0.08544	mg/L	0.000442	0.1709	mg/L	0.00088	0.52%
Cr 267.716†	1600.0	0.3622	mg/L	0.00669	0.7243	mg/L	0.01339	1.85%
Cu 324.752†	47129.4	0.1879	mg/L	0.00103	0.3759	mg/L	0.00206	0.55%
Fe 273.955†	157519.7	170.0	mg/L	4.26	339.9	mg/L	8.52	2.51%
K 766.490†	8639.0	6.219	mg/L	0.1235	12.44	mg/L	0.247	1.99%
Mg 279.077†	48441.5	64.11	mg/L	1.661	128.2	mg/L	3.32	2.59%
Mn 257.610†	78923.4	3.058	mg/L	0.0768	6.116	mg/L	0.1536	2.51%
Mo 202.031†	75.0	0.00432	mg/L	0.000397	0.00864	mg/L	0.000793	9.18%
Na 589.592†	28054.6	2.547	mg/L	0.0549	5.095	mg/L	0.1098	2.16%
Na 330.237†	37.9	3.406	mg/L	0.4589	6.812	mg/L	0.9178	13.47%
Ni 231.604†	551.3	0.4228	mg/L	0.00609	0.8456	mg/L	0.01219	1.44%
Pb 220.353†	59.6	0.01987	mg/L	0.000889	0.03974	mg/L	0.001778	4.47%
Sb 206.836†	26.5	0.01662	mg/L	0.001056	0.03323	mg/L	0.002112	6.36%
Se 196.026†	36.5	0.03014	mg/L	0.002586	0.06028	mg/L	0.005173	8.58%
Si 288.158†	1977.3	1.572	mg/L	0.0363	3.145	mg/L	0.0727	2.31%
Sn 189.927†	-34.0	-0.00606	mg/L	0.001166	-0.01212	mg/L	0.002332	19.24%
Sr 421.552†	166030.6	0.2839	mg/L	0.00617	0.5679	mg/L	0.01234	2.17%
Ti 334.903†	123927.6	6.418	mg/L	0.1468	12.84	mg/L	0.294	2.29%
Tl 190.801†	-22.6	0.01117	mg/L	0.004688	0.02234	mg/L	0.009377	41.97%
V 292.402†	36126.6	0.3931	mg/L	0.00293	0.7863	mg/L	0.00586	0.75%
Zn 206.200†	145.8	0.3175	mg/L	0.00663	0.6350	mg/L	0.01326	2.09%

Sequence No.: 3
 Sample ID: RG94 B SWC

Autosampler Location: 303
 Date Collected: 8/12/2010 11:20:23 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 B SWC
 Analyte Back Pressure Flow
 All 189.0 kPa 0.75 L/min

Mean Data: RG94 B SWC				Sample			
Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Conc. Units	Std.Dev.	RSD	
ScA 357.253	1793611.5	107.1 %	1.03			0.96%	
ScR 361.383	317096.9	116.7 %	0.49			0.42%	
Ag 328.068†	-55.6	-0.00052 mg/L	0.000111	-0.00103 mg/L	0.000222	21.55%	
Al 308.215†	98736.1	88.85 mg/L	0.793	177.7 mg/L	1.59	0.89%	
As 188.979†	-102.0	0.00475 mg/L	0.002974	0.00951 mg/L	0.005947	62.56%	
B 249.677†	36.6	0.01183 mg/L	0.001665	0.02365 mg/L	0.003329	14.08%	
Ba 233.527†	862.8	0.3121 mg/L	0.00291	0.6241 mg/L	0.00583	0.93%	
Be 313.042†	650.4	0.00112 mg/L	0.000046	0.00224 mg/L	0.000093	4.15%	
Ca 317.933†	435864.6	37.49 mg/L	0.401	74.98 mg/L	0.802	1.07%	
Cd 228.802†	29.8	0.00215 mg/L	0.000239	0.00431 mg/L	0.000478	11.11%	
Co 228.616†	1791.4	0.06442 mg/L	0.000809	0.1288 mg/L	0.00162	1.26%	
Cr 267.716†	1088.9	0.2455 mg/L	0.00222	0.4909 mg/L	0.00443	0.90%	
Cu 324.752†	28918.2	0.1165 mg/L	0.00147	0.2329 mg/L	0.00294	1.26%	
Fe 273.955†	122610.9	132.3 mg/L	1.22	264.6 mg/L	2.44	0.92%	
K 766.490†	6769.6	4.873 mg/L	0.0540	9.746 mg/L	0.1080	1.11%	
Mg 279.077†	42641.6	56.45 mg/L	0.551	112.9 mg/L	1.10	0.98%	
Mn 257.610†	56636.9	2.195 mg/L	0.0167	4.389 mg/L	0.0333	0.76%	
Mo 202.031†	54.5	0.00308 mg/L	0.000182	0.00615 mg/L	0.000365	5.93%	
Na 589.592†	25825.7	2.345 mg/L	0.0150	4.690 mg/L	0.0299	0.64%	
Na 330.237†	41.9	3.191 mg/L	0.2483	6.382 mg/L	0.4967	7.78%	
Ni 231.604†	467.3	0.3584 mg/L	0.00751	0.7168 mg/L	0.01502	2.10%	
Pb 220.353†	22.5	0.01006 mg/L	0.000271	0.02011 mg/L	0.000542	2.69%	
Sb 206.836†	16.6	0.01197 mg/L	0.000885	0.02394 mg/L	0.001771	7.40%	
Se 196.026†	28.2	0.02323 mg/L	0.005539	0.04646 mg/L	0.011077	23.85%	
Si 288.158†	3630.6	2.887 mg/L	0.0130	5.774 mg/L	0.0260	0.45%	
Sn 189.927†	-31.5	-0.00620 mg/L	0.000631	-0.01239 mg/L	0.001262	10.18%	
Sr 421.552†	115832.8	0.1981 mg/L	0.00216	0.3962 mg/L	0.00431	1.09%	
Ti 334.903†	100916.6	5.227 mg/L	0.0475	10.45 mg/L	0.095	0.91%	
Tl 190.801†	-19.6	0.00709 mg/L	0.003096	0.01418 mg/L	0.006192	43.68%	
V 292.402†	28069.9	0.3051 mg/L	0.00260	0.6103 mg/L	0.00520	0.85%	
Zn 206.200†	112.4	0.2451 mg/L	0.00571	0.4901 mg/L	0.01141	2.33%	

Sequence No.: 4
Sample ID: RG94 C SWC

Autosampler Location: 304
Date Collected: 8/12/2010 11:24:35 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 C SWC

Analyte Back Pressure Flow
All 189.0 kPa 0.75 L/min

Mean Data: RG94 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1783425.7	106.5	%	0.65			0.61%
ScR 361.383	316156.9	116.4	%	1.36			1.17%
Ag 328.068†	-139.5	-0.00107	mg/L	0.000060	-0.00215 mg/L	0.000120	5.60%
Al 308.215†	160878.2	144.8	mg/L	2.29	289.5 mg/L	4.59	1.58%
As 188.979†	-176.9	0.00724	mg/L	0.002091	0.01448 mg/L	0.004182	28.89%
B 249.677†	50.1	0.01617	mg/L	0.000812	0.03234 mg/L	0.001624	5.02%
Ba 233.527†	1659.4	0.6067	mg/L	0.00898	1.213 mg/L	0.0180	1.48%
Be 313.042†	1037.5	0.00180	mg/L	0.000043	0.00360 mg/L	0.000086	2.39%
Ca 317.933†	564734.0	48.58	mg/L	0.908	97.15 mg/L	1.816	1.87%
Cd 228.802†	45.6	0.00327	mg/L	0.000260	0.00653 mg/L	0.000520	7.96%
Co 228.616†	2528.3	0.08821	mg/L	0.000709	0.1764 mg/L	0.00142	0.80%
Cr 267.716†	1467.4	0.3334	mg/L	0.00430	0.6669 mg/L	0.00860	1.29%
Cu 324.752†	42073.2	0.1691	mg/L	0.00279	0.3381 mg/L	0.00558	1.65%
Fe 273.955†	173322.8	187.0	mg/L	3.15	374.0 mg/L	6.30	1.68%
K 766.490†	11759.0	8.465	mg/L	0.1921	16.93 mg/L	0.384	2.27%
Mg 279.077†	44515.3	58.90	mg/L	1.114	117.8 mg/L	2.23	1.89%
Mn 257.610†	83735.1	3.244	mg/L	0.0453	6.489 mg/L	0.0906	1.40%
Mo 202.031†	71.1	0.00402	mg/L	0.000589	0.00804 mg/L	0.001178	14.66%
Na 589.592†	24213.7	2.199	mg/L	0.0301	4.397 mg/L	0.0601	1.37%
Na 330.237†	6.5	2.930	mg/L	0.1488	5.860 mg/L	0.2975	5.08%
Ni 231.604†	530.9	0.4072	mg/L	0.00430	0.8144 mg/L	0.00861	1.06%
Pb 220.353†	66.8	0.02352	mg/L	0.001500	0.04704 mg/L	0.003000	6.38%
Sb 206.836†	22.7	0.01881	mg/L	0.000604	0.03762 mg/L	0.001207	3.21%
Se 196.026†	39.2	0.03251	mg/L	0.004349	0.06503 mg/L	0.008698	13.38%
Si 288.158†	1671.6	1.329	mg/L	0.0256	2.658 mg/L	0.0513	1.93%
Sn 189.927†	-39.1	-0.00648	mg/L	0.002290	-0.01296 mg/L	0.004581	35.34%
Sr 421.552†	186172.5	0.3184	mg/L	0.00456	0.6368 mg/L	0.00912	1.43%
Ti 334.903†	173316.6	8.977	mg/L	0.1236	17.95 mg/L	0.247	1.38%
Tl 190.801†	-44.0	-0.00164	mg/L	0.008019	-0.00328 mg/L	0.016038	489.01%
V 292.402†	40343.1	0.4379	mg/L	0.00692	0.8759 mg/L	0.01385	1.58%
Zn 206.200†	160.1	0.3485	mg/L	0.00534	0.6971 mg/L	0.01069	1.53%

Sequence No.: 5
Sample ID: RG94 D SWC

Autosampler Location: 305
Date Collected: 8/12/2010 11:28:47 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 D SWC

Analyte Back Pressure Flow
All 189.0 kPa 0.75 L/min

Mean Data: RG94 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1836583.3	109.7 %		0.76			0.69%
ScR 361.383	316417.2	116.5 %		0.39			0.33%
Ag 328.068†	-80.2	-0.00064 mg/L		0.000052	-0.00128 mg/L	0.000105	8.19%
Al 308.215†	112462.5	101.2 mg/L		1.17	202.4 mg/L	2.34	1.16%
As 188.979†	-140.9	0.00096 mg/L		0.002539	0.00193 mg/L	0.005079	263.18%
B 249.677†	31.3	0.01007 mg/L		0.001606	0.02015 mg/L	0.003212	15.94%
Ba 233.527†	1025.1	0.3716 mg/L		0.00165	0.7432 mg/L	0.00331	0.44%
Be 313.042†	723.1	0.00123 mg/L		0.000024	0.00246 mg/L	0.000048	1.97%
Ca 317.933†	566043.2	48.69 mg/L		0.646	97.38 mg/L	1.292	1.33%
Cd 228.802†	37.5	0.00267 mg/L		0.000159	0.00534 mg/L	0.000318	5.95%
Co 228.616†	1946.4	0.06789 mg/L		0.000528	0.1358 mg/L	0.00106	0.78%
Cr 267.716†	1476.9	0.3338 mg/L		0.00072	0.6676 mg/L	0.00143	0.21%
Cu 324.752†	28363.1	0.1148 mg/L		0.00091	0.2296 mg/L	0.00183	0.80%
Fe 273.955†	136953.0	147.8 mg/L		1.74	295.6 mg/L	3.48	1.18%
K 766.490†	8050.1	5.795 mg/L		0.0056	11.59 mg/L	0.011	0.10%
Mg 279.077†	44391.5	58.76 mg/L		0.504	117.5 mg/L	1.01	0.86%
Mn 257.610†	62149.9	2.408 mg/L		0.0252	4.816 mg/L	0.0503	1.05%
Mo 202.031†	59.6	0.00323 mg/L		0.000369	0.00646 mg/L	0.000738	11.42%
Na 589.592†	33159.3	3.011 mg/L		0.0259	6.022 mg/L	0.0517	0.86%
Na 330.237†	46.0	3.868 mg/L		0.2688	7.735 mg/L	0.5375	6.95%
Ni 231.604†	433.6	0.3325 mg/L		0.00332	0.6650 mg/L	0.00663	1.00%
Pb 220.353†	38.5	0.01403 mg/L		0.000578	0.02806 mg/L	0.001157	4.12%
Sb 206.836†	15.6	0.01288 mg/L		0.000616	0.02576 mg/L	0.001232	4.78%
Se 196.026†	37.7	0.03106 mg/L		0.008785	0.06211 mg/L	0.017571	28.29%
Si 288.158†	2266.6	1.802 mg/L		0.0153	3.605 mg/L	0.0306	0.85%
Sn 189.927†	-32.5	-0.00524 mg/L		0.001556	-0.01047 mg/L	0.003112	29.71%
Sr 421.552†	179788.3	0.3075 mg/L		0.00428	0.6149 mg/L	0.00855	1.39%
Ti 334.903†	133330.5	6.906 mg/L		0.0706	13.81 mg/L	0.141	1.02%
Tl 190.801†	-18.7	0.01016 mg/L		0.002139	0.02033 mg/L	0.004278	21.04%
V 292.402†	31326.6	0.3401 mg/L		0.00300	0.6803 mg/L	0.00600	0.88%
Zn 206.200†	122.5	0.2669 mg/L		0.00145	0.5338 mg/L	0.00290	0.54%

Sequence No.: 6
Sample ID: RG94 E SWC

Autosampler Location: 306
Date Collected: 8/12/2010 11:32:59 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 E SWC

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1830536.7	109.3	%	0.88			0.80%
ScR 361.383	321241.1	118.2	%	1.25			1.06%
Ag 328.068†	26.4	-0.00068	mg/L	0.000204	-0.00137 mg/L	0.000408	29.82%
Al 308.215†	86673.0	77.99	mg/L	0.619	156.0 mg/L	1.24	0.79%
As 188.979†	-107.0	0.00552	mg/L	0.003773	0.01104 mg/L	0.007545	68.37%
B 249.677†	28.8	0.00928	mg/L	0.001634	0.01856 mg/L	0.003267	17.60%
Ba 233.527†	991.8	0.3613	mg/L	0.00505	0.7226 mg/L	0.01009	1.40%
Be 313.042†	564.4	0.00095	mg/L	0.000039	0.00189 mg/L	0.000079	4.17%
Ca 317.933†	527472.4	45.37	mg/L	0.433	90.74 mg/L	0.865	0.95%
Cd 228.802†	27.8	0.00207	mg/L	0.000173	0.00413 mg/L	0.000347	8.39%
Co 228.616†	1629.7	0.05725	mg/L	0.000468	0.1145 mg/L	0.00094	0.82%
Cr 267.716†	1039.4	0.2343	mg/L	0.00371	0.4685 mg/L	0.00742	1.58%
Cu 324.752†	21225.7	0.08656	mg/L	0.001323	0.1731 mg/L	0.00265	1.53%
Fe 273.955†	115180.6	124.3	mg/L	1.30	248.6 mg/L	2.60	1.05%
K 766.490†	5704.4	4.106	mg/L	0.0567	8.213 mg/L	0.1134	1.38%
Mg 279.077†	39275.4	51.99	mg/L	0.680	104.0 mg/L	1.36	1.31%
Mn 257.610†	145620.0	5.642	mg/L	0.0629	11.28 mg/L	0.126	1.12%
Mo 202.031†	80.4	0.00471	mg/L	0.000182	0.00942 mg/L	0.000364	3.86%
Na 589.592†	21600.6	1.961	mg/L	0.0135	3.923 mg/L	0.0270	0.69%
Na 330.237†	36.7	3.128	mg/L	0.2635	6.255 mg/L	0.5271	8.43%
Ni 231.604†	485.5	0.3723	mg/L	0.00466	0.7446 mg/L	0.00933	1.25%
Pb 220.353†	30.9	0.01025	mg/L	0.000811	0.02051 mg/L	0.001621	7.91%
Sb 206.836†	12.2	0.01059	mg/L	0.000829	0.02118 mg/L	0.001658	7.83%
Se 196.026†	32.7	0.02677	mg/L	0.003019	0.05355 mg/L	0.006037	11.27%
Si 288.158†	1449.1	1.152	mg/L	0.0207	2.305 mg/L	0.0413	1.79%
Sn 189.927†	-35.5	-0.00704	mg/L	0.001268	-0.01408 mg/L	0.002537	18.02%
Sr 421.552†	98677.4	0.1688	mg/L	0.00169	0.3375 mg/L	0.00339	1.00%
Ti 334.903†	106573.4	5.519	mg/L	0.0530	11.04 mg/L	0.106	0.96%
Tl 190.801†	-28.5	0.00282	mg/L	0.003494	0.00564 mg/L	0.006988	123.98%
V 292.402†	26683.2	0.2904	mg/L	0.00383	0.5809 mg/L	0.00765	1.32%
Zn 206.200†	101.4	0.2210	mg/L	0.00373	0.4420 mg/L	0.00746	1.69%

Sequence No.: 7
Sample ID: RG94 F SWC

Autosampler Location: 307
Date Collected: 8/12/2010 11:37:11 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 F SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.75 L/min

Mean Data: RG94 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1830369.0	109.3 %		0.92			0.84%
ScR 361.383	315852.0	116.3 %		0.94			0.81%
Ag 328.068†	83.5	-0.00061 mg/L		0.000185	-0.00121 mg/L	0.000371	30.59%
Al 308.215†	87589.6	78.82 mg/L		0.748	157.6 mg/L	1.50	0.95%
As 188.979†	-108.3	0.00212 mg/L		0.004118	0.00425 mg/L	0.008235	193.85%
B 249.677†	39.0	0.01261 mg/L		0.005287	0.02522 mg/L	0.010575	41.94%
Ba 233.527†	1226.2	0.4490 mg/L		0.00402	0.8979 mg/L	0.00805	0.90%
Be 313.042†	605.4	0.00102 mg/L		0.000019	0.00204 mg/L	0.000038	1.86%
Ca 317.933†	502817.6	43.25 mg/L		0.555	86.50 mg/L	1.110	1.28%
Cd 228.802†	30.1	0.00217 mg/L		0.000075	0.00434 mg/L	0.000150	3.46%
Co 228.616†	1609.4	0.05653 mg/L		0.000588	0.1131 mg/L	0.00118	1.04%
Cr 267.716†	1071.2	0.2419 mg/L		0.00194	0.4837 mg/L	0.00388	0.80%
Cu 324.752†	22652.9	0.09249 mg/L		0.000914	0.1850 mg/L	0.00183	0.99%
Fe 273.955†	120686.7	130.2 mg/L		1.49	260.5 mg/L	2.99	1.15%
K 766.490†	6278.2	4.519 mg/L		0.0612	9.039 mg/L	0.1224	1.35%
Mg 279.077†	38870.7	51.45 mg/L		0.477	102.9 mg/L	0.95	0.93%
Mn 257.610†	181281.1	7.024 mg/L		0.0959	14.05 mg/L	0.192	1.37%
Mo 202.031†	75.8	0.00444 mg/L		0.000185	0.00887 mg/L	0.000370	4.17%
Na 589.592†	21769.8	1.977 mg/L		0.0200	3.954 mg/L	0.0399	1.01%
Na 330.237†	23.5	2.580 mg/L		0.0499	5.160 mg/L	0.0998	1.93%
Ni 231.604†	434.2	0.3330 mg/L		0.00364	0.6659 mg/L	0.00729	1.09%
Pb 220.353†	18.1	0.00775 mg/L		0.001409	0.01550 mg/L	0.002817	18.17%
Sb 206.836†	14.6	0.01138 mg/L		0.002973	0.02276 mg/L	0.005946	26.13%
Se 196.026†	32.5	0.02674 mg/L		0.003704	0.05349 mg/L	0.007407	13.85%
Si 288.158†	1313.0	1.044 mg/L		0.0090	2.088 mg/L	0.0180	0.86%
Sn 189.927†	-31.5	-0.00586 mg/L		0.000520	-0.01172 mg/L	0.001039	8.86%
Sr 421.552†	104661.7	0.1790 mg/L		0.00290	0.3580 mg/L	0.00579	1.62%
Ti 334.903†	104117.5	5.392 mg/L		0.0639	10.78 mg/L	0.128	1.18%
Tl 190.801†	-26.7	0.00630 mg/L		0.002998	0.01260 mg/L	0.005996	47.57%
V 292.402†	28208.3	0.3076 mg/L		0.00358	0.6151 mg/L	0.00716	1.16%
Zn 206.200†	100.8	0.2197 mg/L		0.00074	0.4395 mg/L	0.00148	0.34%

Sequence No.: 8
 Sample ID: RG94 G SWC

Autosampler Location: 308
 Date Collected: 8/12/2010 11:41:23 AM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 G SWC

Analyte Back Pressure Flow
 All 190.0 kPa 0.75 L/min

Mean Data: RG94 G SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1841635.2	110.0	%	0.46				0.42%
ScR 361.383	320862.6	118.1	%	0.62				0.53%
Ag 328.068†	0.2	-0.00007	mg/L	0.000246	-0.00013	mg/L	0.000492	365.16%
Al 308.215†	132345.7	119.1	mg/L	1.41	238.2	mg/L	2.82	1.18%
As 188.979†	-61.8	0.03912	mg/L	0.002172	0.07824	mg/L	0.004343	5.55%
B 249.677†	35.1	0.01142	mg/L	0.000194	0.02283	mg/L	0.000388	1.70%
Ba 233.527†	1744.6	0.6483	mg/L	0.00533	1.297	mg/L	0.0107	0.82%
Be 313.042†	817.6	0.00151	mg/L	0.000038	0.00301	mg/L	0.000076	2.53%
Ca 317.933†	407608.2	35.06	mg/L	0.471	70.12	mg/L	0.942	1.34%
Cd 228.802†	78.7	0.00462	mg/L	0.000069	0.00923	mg/L	0.000139	1.50%
Co 228.616†	1066.0	0.03465	mg/L	0.000504	0.06931	mg/L	0.001007	1.45%
Cr 267.716†	1136.4	0.2584	mg/L	0.00150	0.5168	mg/L	0.00301	0.58%
Cu 324.752†	22532.6	0.08950	mg/L	0.000317	0.1790	mg/L	0.00063	0.35%
Fe 273.955†	78952.5	85.19	mg/L	0.940	170.4	mg/L	1.88	1.10%
K 766.490†	4197.8	3.022	mg/L	0.0169	6.044	mg/L	0.0338	0.56%
Mg 279.077†	17816.6	23.57	mg/L	0.223	47.13	mg/L	0.445	0.95%
Mn 257.610†	39997.9	1.549	mg/L	0.0082	3.099	mg/L	0.0163	0.53%
Mo 202.031†	57.6	0.00333	mg/L	0.000311	0.00667	mg/L	0.000622	9.32%
Na 589.592†	13906.1	1.263	mg/L	0.0157	2.525	mg/L	0.0313	1.24%
Na 330.237†	5.0	1.767	mg/L	0.1125	3.535	mg/L	0.2250	6.37%
Ni 231.604†	278.3	0.2135	mg/L	0.00306	0.4269	mg/L	0.00613	1.44%
Pb 220.353†	596.0	0.1183	mg/L	0.00075	0.2367	mg/L	0.00150	0.63%
Sb 206.836†	7.9	0.00794	mg/L	0.001040	0.01588	mg/L	0.002079	13.09%
Se 196.026†	36.4	0.03080	mg/L	0.000352	0.06160	mg/L	0.000703	1.14%
Si 288.158†	2665.6	2.120	mg/L	0.0070	4.239	mg/L	0.0140	0.33%
Sn 189.927†	-19.3	-0.00234	mg/L	0.001146	-0.00468	mg/L	0.002293	48.97%
Sr 421.552†	138176.4	0.2363	mg/L	0.00183	0.4726	mg/L	0.00366	0.78%
Ti 334.903†	100306.0	5.195	mg/L	0.0528	10.39	mg/L	0.106	1.02%
Tl 190.801†	-7.5	0.00834	mg/L	0.002942	0.01668	mg/L	0.005885	35.29%
V 292.402†	20889.6	0.2280	mg/L	0.00107	0.4561	mg/L	0.00214	0.47%
Zn 206.200†	122.7	0.2669	mg/L	0.00421	0.5338	mg/L	0.00842	1.58%

Sequence No.: 9
Sample ID: RG94 I SWC

Autosampler Location: 309
Date Collected: 8/12/2010 11:45:35 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 I SWC
Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 I SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1844294.1	110.1	%	0.65			0.59%
ScR 361.383	323004.8	118.9	%	1.23			1.03%
Ag 328.068†	-83.8	-0.00051	mg/L	0.000073	-0.00103 mg/L	0.000145	14.15%
Al 308.215†	142903.5	128.6	mg/L	1.90	257.2 mg/L	3.79	1.47%
As 188.979†	-164.5	0.01948	mg/L	0.005720	0.03897 mg/L	0.011439	29.36%
B 249.677†	52.9	0.01712	mg/L	0.001912	0.03424 mg/L	0.003823	11.16%
Ba 233.527†	1414.1	0.5158	mg/L	0.00892	1.032 mg/L	0.0178	1.73%
Be 313.042†	953.5	0.00164	mg/L	0.000060	0.00328 mg/L	0.000119	3.63%
Ca 317.933†	611120.6	52.57	mg/L	0.894	105.1 mg/L	1.79	1.70%
Cd 228.802†	44.6	0.00312	mg/L	0.000325	0.00624 mg/L	0.000649	10.42%
Co 228.616†	2192.7	0.07423	mg/L	0.001428	0.1485 mg/L	0.00286	1.92%
Cr 267.716†	1718.3	0.3897	mg/L	0.00471	0.7794 mg/L	0.00941	1.21%
Cu 324.752†	41285.6	0.1649	mg/L	0.00175	0.3297 mg/L	0.00350	1.06%
Fe 273.955†	158298.8	170.8	mg/L	2.63	341.6 mg/L	5.27	1.54%
K 766.490†	9425.3	6.785	mg/L	0.0749	13.57 mg/L	0.150	1.10%
Mg 279.077†	44160.6	58.44	mg/L	0.561	116.9 mg/L	1.12	0.96%
Mn 257.610†	54688.2	2.119	mg/L	0.0203	4.238 mg/L	0.0406	0.96%
Mo 202.031†	66.8	0.00366	mg/L	0.000341	0.00732 mg/L	0.000681	9.31%
Na 589.592†	27158.4	2.466	mg/L	0.0375	4.932 mg/L	0.0750	1.52%
Na 330.237†	16.0	3.345	mg/L	0.1633	6.690 mg/L	0.3266	4.88%
Ni 231.604†	412.5	0.3164	mg/L	0.00234	0.6327 mg/L	0.00468	0.74%
Pb 220.353†	87.6	0.02565	mg/L	0.000860	0.05130 mg/L	0.001721	3.35%
Sb 206.836†	16.5	0.01564	mg/L	0.003460	0.03127 mg/L	0.006921	22.13%
Se 196.026†	39.4	0.03240	mg/L	0.005751	0.06480 mg/L	0.011501	17.75%
Si 288.158†	1281.8	1.019	mg/L	0.0143	2.038 mg/L	0.0287	1.41%
Sn 189.927†	-37.1	-0.00559	mg/L	0.000118	-0.01118 mg/L	0.000236	2.11%
Sr 421.552†	189156.0	0.3235	mg/L	0.00510	0.6470 mg/L	0.01020	1.58%
Ti 334.903†	175143.3	9.072	mg/L	0.1424	18.14 mg/L	0.285	1.57%
Tl 190.801†	-34.9	0.00151	mg/L	0.003993	0.00302 mg/L	0.007986	264.18%
V 292.402†	38138.7	0.4145	mg/L	0.00669	0.8290 mg/L	0.01338	1.61%
Zn 206.200†	148.0	0.3222	mg/L	0.00685	0.6444 mg/L	0.01371	2.13%

Sequence No.: 10
Sample ID: RG94 MB1SPK SWC

Autosampler Location: 310
Date Collected: 8/12/2010 11:49:49 AM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 MB1SPK SWC

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 MB1SPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1831233.7	109.4 %		0.20			0.19%
ScR 361.383	315546.8	116.2 %		1.29			1.11%
Ag 328.068†	84914.6	0.5200 mg/L		0.00085	1.040 mg/L	0.0017	0.16%
Al 308.215†	2338.5	2.095 mg/L		0.0142	4.190 mg/L	0.0284	0.68%
As 188.979†	2457.0	2.132 mg/L		0.0032	4.263 mg/L	0.0063	0.15%
B 249.677†	10.8	0.00224 mg/L		0.000898	0.00447 mg/L	0.001797	40.16%
Ba 233.527†	5278.3	1.986 mg/L		0.0268	3.972 mg/L	0.0535	1.35%
Be 313.042†	241214.6	0.4976 mg/L		0.00436	0.9952 mg/L	0.00873	0.88%
Ca 317.933†	119362.8	10.27 mg/L		0.089	20.53 mg/L	0.178	0.87%
Cd 228.802†	9638.8	0.5199 mg/L		0.00221	1.040 mg/L	0.0044	0.42%
Co 228.616†	12239.9	0.5121 mg/L		0.00337	1.024 mg/L	0.0067	0.66%
Cr 267.716†	2232.0	0.5056 mg/L		0.00551	1.011 mg/L	0.0110	1.09%
Cu 324.752†	123951.4	0.4723 mg/L		0.00139	0.9446 mg/L	0.00278	0.29%
Fe 273.955†	1964.2	2.117 mg/L		0.0285	4.233 mg/L	0.0570	1.35%
K 766.490†	14684.8	10.57 mg/L		0.084	21.14 mg/L	0.168	0.80%
Mg 279.077†	7816.0	10.36 mg/L		0.114	20.72 mg/L	0.228	1.10%
Mn 257.610†	12082.1	0.4686 mg/L		0.00546	0.9372 mg/L	0.01092	1.17%
Mo 202.031†	13.5	0.00075 mg/L		0.000400	0.00150 mg/L	0.000801	53.52%
Na 589.592†	103815.4	9.427 mg/L		0.0853	18.85 mg/L	0.171	0.90%
Na 330.237†	288.7	10.84 mg/L		0.329	21.67 mg/L	0.657	3.03%
Ni 231.604†	655.4	0.5026 mg/L		0.00692	1.005 mg/L	0.0138	1.38%
Pb 220.353†	11771.6	2.049 mg/L		0.0053	4.099 mg/L	0.0105	0.26%
Sb 206.836†	-2.2	-0.00451 mg/L		0.001193	-0.00902 mg/L	0.002387	26.47%
Se 196.026†	2335.6	2.131 mg/L		0.0058	4.261 mg/L	0.0117	0.27%
Si 288.158†	-4.1	-0.00137 mg/L		0.003713	-0.00275 mg/L	0.007426	270.12%
Sn 189.927†	-8.6	-0.00235 mg/L		0.000642	-0.00470 mg/L	0.001285	27.36%
Sr 421.552†	295010.0	0.5045 mg/L		0.00452	1.009 mg/L	0.0090	0.90%
Ti 334.903†	81.5	0.00349 mg/L		0.000336	0.00698 mg/L	0.000673	9.64%
Tl 190.801†	2857.3	2.066 mg/L		0.0049	4.132 mg/L	0.0097	0.23%
V 292.402†	44746.7	0.5136 mg/L		0.00124	1.027 mg/L	0.0025	0.24%
Zn 206.200†	233.3	0.5138 mg/L		0.00936	1.028 mg/L	0.0187	1.82%

Sequence No.: 11
 Sample ID: CV *m*

Autosampler Location: 7
 Date Collected: 8/12/2010 11:54:01 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 190.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1819288.2	108.6 %	0.28			0.26%
ScR 361.383	310562.3	114.3 %	1.61			1.41%
Ag 328.068†	164162.2	1.005 mg/L	0.0055	1.005 mg/L	0.0055	0.54%
Al 308.215†	2358.7	2.091 mg/L	0.0282	2.091 mg/L	0.0282	1.35%
As 188.979†	2376.6	2.079 mg/L	0.0113	2.079 mg/L	0.0113	0.54%
B 249.677†	3038.1	0.9945 mg/L	0.01701	0.9945 mg/L	0.01701	1.71%
Ba 233.527†	2646.5	0.9953 mg/L	0.01741	0.9953 mg/L	0.01741	1.75%
Be 313.042†	478518.6	0.9871 mg/L	0.01711	0.9871 mg/L	0.01711	1.73%
Ca 317.933†	25162.3	2.164 mg/L	0.0281	2.164 mg/L	0.0281	1.30%
Cd 228.802†	18958.5	1.030 mg/L	0.0051	1.030 mg/L	0.0051	0.50%
Co 228.616†	24254.9	1.014 mg/L	0.0021	1.014 mg/L	0.0021	0.21%
Cr 267.716†	4504.4	1.023 mg/L	0.0173	1.023 mg/L	0.0173	1.69%
Cu 324.752†	258925.8	0.9858 mg/L	0.00011	0.9858 mg/L	0.00011	0.01%
Fe 273.955†	1900.3	2.045 mg/L	0.0295	2.045 mg/L	0.0295	1.44%
K 766.490†	29232.6	21.04 mg/L	0.398	21.04 mg/L	0.398	1.89%
Mg 279.077†	1586.1	2.107 mg/L	0.0361	2.107 mg/L	0.0361	1.71%
Mn 257.610†	24544.7	0.9515 mg/L	0.01386	0.9515 mg/L	0.01386	1.46%
Mo 202.031†	14756.2	1.009 mg/L	0.0040	1.009 mg/L	0.0040	0.40%
Na 589.592†	519592.8	47.18 mg/L	0.602	47.18 mg/L	0.602	1.28%
Na 330.237†	1409.2	53.23 mg/L	1.144	53.23 mg/L	1.144	2.15%
Ni 231.604†	1338.8	1.028 mg/L	0.0179	1.028 mg/L	0.0179	1.74%
Pb 220.353†	11818.6	2.058 mg/L	0.0077	2.058 mg/L	0.0077	0.38%
Sb 206.836†	5045.5	2.085 mg/L	0.0060	2.085 mg/L	0.0060	0.29%
Se 196.026†	2253.7	2.056 mg/L	0.0020	2.056 mg/L	0.0020	0.10%
Si 288.158†	2643.2	2.105 mg/L	0.0476	2.105 mg/L	0.0476	2.26%
Sn 189.927†	3100.3	1.020 mg/L	0.0044	1.020 mg/L	0.0044	0.43%
Sr 421.552†	590155.0	1.009 mg/L	0.0123	1.009 mg/L	0.0123	1.22%
Ti 334.903†	19767.4	1.023 mg/L	0.0146	1.023 mg/L	0.0146	1.43%
Tl 190.801†	2823.7	2.043 mg/L	0.0147	2.043 mg/L	0.0147	0.72%
V 292.402†	87234.9	1.002 mg/L	0.0098	1.002 mg/L	0.0098	0.98%
Zn 206.200†	474.6	1.045 mg/L	0.0228	1.045 mg/L	0.0228	2.19%

Sequence No.: 12
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/12/2010 11:58:15 AM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1808877.5	108.0 %	%	1.07			0.99%
ScR 361.383	314558.6	115.8 %	%	0.91			0.79%
Ag 328.068†	4.0	0.00002 mg/L	mg/L	0.000171	0.00002 mg/L	0.000171	700.08%
Al 308.215†	11.7	0.01055 mg/L	mg/L	0.004551	0.01055 mg/L	0.004551	43.13%
As 188.979†	1.1	0.00098 mg/L	mg/L	0.001897	0.00098 mg/L	0.001897	193.34%
B 249.677†	9.5	0.00311 mg/L	mg/L	0.000843	0.00311 mg/L	0.000843	27.16%
Ba 233.527†	1.9	0.00072 mg/L	mg/L	0.000432	0.00072 mg/L	0.000432	60.00%
Be 313.042†	32.5	0.00007 mg/L	mg/L	0.000066	0.00007 mg/L	0.000066	99.32%
Ca 317.933†	3.7	0.00032 mg/L	mg/L	0.003000	0.00032 mg/L	0.003000	944.53%
Cd 228.802†	2.3	0.00012 mg/L	mg/L	0.000144	0.00012 mg/L	0.000144	119.18%
Co 228.616†	1.7	0.00007 mg/L	mg/L	0.000157	0.00007 mg/L	0.000157	218.50%
Cr 267.716†	3.2	0.00072 mg/L	mg/L	0.001070	0.00072 mg/L	0.001070	149.39%
Cu 324.752†	-80.4	-0.00031 mg/L	mg/L	0.000390	-0.00031 mg/L	0.000390	126.91%
Fe 273.955†	-0.2	-0.00021 mg/L	mg/L	0.001080	-0.00021 mg/L	0.001080	513.29%
K 766.490†	-27.1	-0.01948 mg/L	mg/L	0.021013	-0.01948 mg/L	0.021013	107.86%
Mg 279.077†	2.5	0.00328 mg/L	mg/L	0.005027	0.00328 mg/L	0.005027	153.37%
Mn 257.610†	-0.9	-0.00003 mg/L	mg/L	0.000166	-0.00003 mg/L	0.000166	484.15%
Mo 202.031†	22.5	0.00154 mg/L	mg/L	0.000607	0.00154 mg/L	0.000607	39.41%
Na 589.592†	-168.3	-0.01529 mg/L	mg/L	0.005611	-0.01529 mg/L	0.005611	36.71%
Na 330.237†	3.0	0.1143 mg/L	mg/L	0.43222	0.1143 mg/L	0.43222	378.21%
Ni 231.604†	1.8	0.00136 mg/L	mg/L	0.001405	0.00136 mg/L	0.001405	103.25%
Pb 220.353†	-0.8	-0.00013 mg/L	mg/L	0.000829	-0.00013 mg/L	0.000829	631.41%
Sb 206.836†	-3.4	-0.00140 mg/L	mg/L	0.000821	-0.00140 mg/L	0.000821	58.53%
Se 196.026†	4.6	0.00418 mg/L	mg/L	0.007005	0.00418 mg/L	0.007005	167.71%
Si 288.158†	4.8	0.00382 mg/L	mg/L	0.000606	0.00382 mg/L	0.000606	15.86%
Sn 189.927†	3.3	0.00109 mg/L	mg/L	0.000797	0.00109 mg/L	0.000797	73.14%
Sr 421.552†	42.5	0.00007 mg/L	mg/L	0.000035	0.00007 mg/L	0.000035	47.97%
Ti 334.903†	9.8	0.00051 mg/L	mg/L	0.000486	0.00051 mg/L	0.000486	95.76%
Tl 190.801†	4.5	0.00329 mg/L	mg/L	0.000944	0.00329 mg/L	0.000944	28.66%
V 292.402†	21.1	0.00025 mg/L	mg/L	0.000106	0.00025 mg/L	0.000106	43.24%
Zn 206.200†	1.0	0.00210 mg/L	mg/L	0.002324	0.00210 mg/L	0.002324	110.58%

User canceled analysis.

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Analysis Begun

Start Time: 8/12/2010 12:02:55 PM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 8/12/2010 8:37:11 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0812A.sif
Batch ID:
Results Data Set: I2100812
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 13
Sample ID: RG94 MB2 TWC

Autosampler Location: 311
Date Collected: 8/12/2010 12:02:56 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG94 MB2 TWC

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 MB2 TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1832204.3	109.4	%	0.66			0.60%
ScR 361.383	322352.7	118.7	%	0.86			0.72%
Ag 328.068†	-18.5	-0.00011	mg/L	0.000335	-0.00011 mg/L	0.000335	295.50%
Al 308.215†	15.7	0.01415	mg/L	0.003448	0.01415 mg/L	0.003448	24.37%
As 188.979†	-2.8	-0.00243	mg/L	0.001552	-0.00243 mg/L	0.001552	63.78%
B 249.677†	8.3	0.00272	mg/L	0.001462	0.00272 mg/L	0.001462	53.66%
Ba 233.527†	-1.8	-0.00068	mg/L	0.000812	-0.00068 mg/L	0.000812	118.54%
Be 313.042†	-20.7	-0.00004	mg/L	0.000045	-0.00004 mg/L	0.000045	105.87%
Ca 317.933†	132.3	0.01138	mg/L	0.001558	0.01138 mg/L	0.001558	13.69%
Cd 228.802†	3.9	0.00022	mg/L	0.000149	0.00022 mg/L	0.000149	67.60%
Co 228.616†	-3.5	-0.00015	mg/L	0.000163	-0.00015 mg/L	0.000163	112.54%
Cr 267.716†	5.6	0.00127	mg/L	0.000193	0.00127 mg/L	0.000193	15.14%
Cu 324.752†	-22.5	-0.00009	mg/L	0.000128	-0.00009 mg/L	0.000128	150.14%
Fe 273.955†	2.1	0.00226	mg/L	0.000899	0.00226 mg/L	0.000899	39.74%
K 766.490†	1.7	0.00121	mg/L	0.037592	0.00121 mg/L	0.037592	>999.9%
Mg 279.077†	4.6	0.00611	mg/L	0.005984	0.00611 mg/L	0.005984	97.94%
Mn 257.610†	-0.9	-0.00004	mg/L	0.000119	-0.00004 mg/L	0.000119	332.27%
Mo 202.031†	-5.3	-0.00036	mg/L	0.000141	-0.00036 mg/L	0.000141	39.06%
Na 589.592†	-171.9	-0.01561	mg/L	0.002528	-0.01561 mg/L	0.002528	16.19%
Na 330.237†	13.2	0.5002	mg/L	0.35987	0.5002 mg/L	0.35987	71.95%
Ni 231.604†	1.2	0.00090	mg/L	0.000663	0.00090 mg/L	0.000663	73.76%
Pb 220.353†	2.6	0.00045	mg/L	0.000833	0.00045 mg/L	0.000833	185.05%
Sb 206.836†	-5.9	-0.00244	mg/L	0.000721	-0.00244 mg/L	0.000721	29.57%
Se 196.026†	4.1	0.00373	mg/L	0.003274	0.00373 mg/L	0.003274	87.68%
Si 288.158†	3.2	0.00258	mg/L	0.002120	0.00258 mg/L	0.002120	82.11%
Sn 189.927†	1.3	0.00041	mg/L	0.000722	0.00041 mg/L	0.000722	174.40%
Sr 421.552†	-55.8	-0.00010	mg/L	0.000084	-0.00010 mg/L	0.000084	87.73%
Ti 334.903†	2.9	0.00015	mg/L	0.000519	0.00015 mg/L	0.000519	345.07%
Tl 190.801†	3.7	0.00265	mg/L	0.001607	0.00265 mg/L	0.001607	60.57%
V 292.402†	8.3	0.00010	mg/L	0.000394	0.00010 mg/L	0.000394	393.65%
Zn 206.200†	-0.4	-0.00080	mg/L	0.002130	-0.00080 mg/L	0.002130	265.06%

Sequence No.: 14
Sample ID: RG94 HDUP SWC

Autosampler Location: 312
Date Collected: 8/12/2010 12:07:09 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 HDUP SWC

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 HDUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1859487.7	111.0 %		1.72			1.54%
ScR 361.383	326309.3	120.1 %		0.73			0.61%
Ag 328.068†	-66.3	-0.00032 mg/L		0.000118	-0.00065 mg/L	0.000236	36.50%
Al 308.215†	118813.1	106.9 mg/L		0.91	213.8 mg/L	1.82	0.85%
As 188.979†	-126.1	0.00916 mg/L		0.001737	0.01833 mg/L	0.003473	18.95%
B 249.677†	39.0	0.01266 mg/L		0.003245	0.02532 mg/L	0.006490	25.63%
Ba 233.527†	1114.7	0.4087 mg/L		0.00252	0.8173 mg/L	0.00505	0.62%
Be 313.042†	690.7	0.00120 mg/L		0.000019	0.00239 mg/L	0.000037	1.56%
Ca 317.933†	407910.0	35.09 mg/L		0.233	70.17 mg/L	0.467	0.67%
Cd 228.802†	30.2	0.00216 mg/L		0.000191	0.00433 mg/L	0.000382	8.82%
Co 228.616†	1298.0	0.04165 mg/L		0.001084	0.08329 mg/L	0.002168	2.60%
Cr 267.716†	1648.5	0.3747 mg/L		0.00122	0.7494 mg/L	0.00244	0.33%
Cu 324.752†	23710.6	0.09522 mg/L		0.002021	0.1904 mg/L	0.00404	2.12%
Fe 273.955†	104656.6	112.9 mg/L		0.61	225.9 mg/L	1.23	0.54%
K 766.490†	7212.1	5.192 mg/L		0.0383	10.38 mg/L	0.077	0.74%
Mg 279.077†	25629.7	33.91 mg/L		0.239	67.82 mg/L	0.477	0.70%
Mn 257.610†	28429.2	1.101 mg/L		0.0051	2.203 mg/L	0.0103	0.47%
Mo 202.031†	49.0	0.00275 mg/L		0.000149	0.00549 mg/L	0.000297	5.42%
Na 589.592†	21097.3	1.916 mg/L		0.0115	3.831 mg/L	0.0231	0.60%
Na 330.237†	28.7	3.072 mg/L		0.1160	6.145 mg/L	0.2320	3.77%
Ni 231.604†	295.6	0.2267 mg/L		0.00347	0.4533 mg/L	0.00694	1.53%
Pb 220.353†	34.7	0.01688 mg/L		0.000924	0.03376 mg/L	0.001849	5.48%
Sb 206.836†	12.8	0.01070 mg/L		0.001611	0.02140 mg/L	0.003222	15.05%
Se 196.026†	33.6	0.02829 mg/L		0.001558	0.05658 mg/L	0.003115	5.51%
Si 288.158†	1152.7	0.9166 mg/L		0.00913	1.833 mg/L	0.0183	1.00%
Sn 189.927†	-32.0	-0.00583 mg/L		0.000998	-0.01167 mg/L	0.001995	17.10%
Sr 421.552†	137412.3	0.2350 mg/L		0.00134	0.4700 mg/L	0.00268	0.57%
Ti 334.903†	127985.4	6.629 mg/L		0.0232	13.26 mg/L	0.046	0.35%
Tl 190.801†	-14.4	0.00690 mg/L		0.001645	0.01380 mg/L	0.003290	23.83%
V 292.402†	26149.2	0.2848 mg/L		0.00393	0.5696 mg/L	0.00786	1.38%
Zn 206.200†	95.4	0.2071 mg/L		0.00199	0.4142 mg/L	0.00399	0.96%

Sequence No.: 15
Sample ID: RG94 H SWC

Autosampler Location: 313
Date Collected: 8/12/2010 12:11:21 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 H SWC

Analyte Back Pressure Flow
All 190.0 kPa 0.75 L/min

Mean Data: RG94 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1869146.0	111.6 %	%	0.45			0.40%
ScR 361.383	328679.4	121.0 %	%	0.91			0.75%
Ag 328.068†	-61.7	-0.00029 mg/L	mg/L	0.000118	-0.00059 mg/L	0.000237	40.11%
Al 308.215†	117662.7	105.9 mg/L	mg/L	0.82	211.8 mg/L	1.64	0.77%
As 188.979†	-123.1	0.00829 mg/L	mg/L	0.001809	0.01658 mg/L	0.003619	21.82%
B 249.677†	39.1	0.01269 mg/L	mg/L	0.000949	0.02539 mg/L	0.001898	7.47%
Ba 233.527†	1124.9	0.4126 mg/L	mg/L	0.00347	0.8252 mg/L	0.00694	0.84%
Be 313.042†	694.8	0.00121 mg/L	mg/L	0.000036	0.00242 mg/L	0.000073	3.01%
Ca 317.933†	390356.5	33.58 mg/L	mg/L	0.174	67.15 mg/L	0.347	0.52%
Cd 228.802†	31.5	0.00222 mg/L	mg/L	0.000142	0.00445 mg/L	0.000283	6.36%
Co 228.616†	1282.0	0.04131 mg/L	mg/L	0.000533	0.08263 mg/L	0.001066	1.29%
Cr 267.716†	1652.4	0.3758 mg/L	mg/L	0.00391	0.7516 mg/L	0.00782	1.04%
Cu 324.752†	23895.1	0.09599 mg/L	mg/L	0.000970	0.1920 mg/L	0.00194	1.01%
Fe 273.955†	104067.0	112.3 mg/L	mg/L	0.62	224.6 mg/L	1.24	0.55%
K 766.490†	6953.6	5.006 mg/L	mg/L	0.0643	10.01 mg/L	0.129	1.28%
Mg 279.077†	24286.6	32.13 mg/L	mg/L	0.173	64.26 mg/L	0.347	0.54%
Mn 257.610†	27385.6	1.061 mg/L	mg/L	0.0038	2.122 mg/L	0.0076	0.36%
Mo 202.031†	44.3	0.00245 mg/L	mg/L	0.000141	0.00490 mg/L	0.000282	5.76%
Na 589.592†	19953.9	1.812 mg/L	mg/L	0.0097	3.624 mg/L	0.0195	0.54%
Na 330.237†	15.2	2.502 mg/L	mg/L	0.4147	5.004 mg/L	0.8293	16.57%
Ni 231.604†	296.7	0.2275 mg/L	mg/L	0.00307	0.4551 mg/L	0.00615	1.35%
Pb 220.353†	45.3	0.01859 mg/L	mg/L	0.000729	0.03718 mg/L	0.001459	3.92%
Sb 206.836†	13.0	0.01053 mg/L	mg/L	0.000433	0.02107 mg/L	0.000866	4.11%
Se 196.026†	31.7	0.02661 mg/L	mg/L	0.007320	0.05322 mg/L	0.014640	27.51%
Si 288.158†	1005.8	0.7998 mg/L	mg/L	0.01574	1.600 mg/L	0.0315	1.97%
Sn 189.927†	-26.3	-0.00412 mg/L	mg/L	0.001257	-0.00823 mg/L	0.002514	30.53%
Sr 421.552†	137909.5	0.2358 mg/L	mg/L	0.00142	0.4717 mg/L	0.00285	0.60%
Ti 334.903†	124228.3	6.435 mg/L	mg/L	0.0391	12.87 mg/L	0.078	0.61%
Tl 190.801†	-15.7	0.00590 mg/L	mg/L	0.001405	0.01180 mg/L	0.002810	23.82%
V 292.402†	25631.1	0.2790 mg/L	mg/L	0.00326	0.5581 mg/L	0.00651	1.17%
Zn 206.200†	92.9	0.2016 mg/L	mg/L	0.00237	0.4032 mg/L	0.00474	1.17%

Sequence No.: 16
 Sample ID: RG94 HSPK SWC

Autosampler Location: 314
 Date Collected: 8/12/2010 12:15:32 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 HSPK SWC

Analyte Back Pressure Flow
 All 190.0 kPa 0.75 L/min

Mean Data: RG94 HSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1859009.0	111.0 %		0.08			0.07%
ScR 361.383	321470.7	118.3 %		0.47			0.40%
Ag 328.068†	78291.9	0.4795 mg/L		0.00463	0.9590 mg/L	0.00927	0.97%
Al 308.215†	119316.3	107.4 mg/L		0.50	214.7 mg/L	1.00	0.47%
As 188.979†	2250.2	2.052 mg/L		0.0030	4.104 mg/L	0.0059	0.14%
B 249.677†	26.7	0.00737 mg/L		0.002184	0.01474 mg/L	0.004368	29.64%
Ba 233.527†	6250.7	2.342 mg/L		0.0123	4.683 mg/L	0.0246	0.52%
Be 313.042†	239650.2	0.4942 mg/L		0.00297	0.9884 mg/L	0.00595	0.60%
Ca 317.933†	490314.8	42.18 mg/L		0.229	84.35 mg/L	0.459	0.54%
Cd 228.802†	9653.2	0.5214 mg/L		0.00323	1.043 mg/L	0.0065	0.62%
Co 228.616†	13169.2	0.5401 mg/L		0.00296	1.080 mg/L	0.0059	0.55%
Cr 267.716†	3828.5	0.8685 mg/L		0.00394	1.737 mg/L	0.0079	0.45%
Cu 324.752†	148119.6	0.5693 mg/L		0.00253	1.139 mg/L	0.0051	0.44%
Fe 273.955†	102300.3	110.4 mg/L		0.65	220.8 mg/L	1.30	0.59%
K 766.490†	19974.7	14.38 mg/L		0.102	28.76 mg/L	0.204	0.71%
Mg 279.077†	32187.3	42.60 mg/L		0.299	85.20 mg/L	0.598	0.70%
Mn 257.610†	38498.9	1.492 mg/L		0.0089	2.984 mg/L	0.0177	0.59%
Mo 202.031†	51.9	0.00282 mg/L		0.000286	0.00564 mg/L	0.000572	10.14%
Na 589.592†	119596.8	10.86 mg/L		0.039	21.72 mg/L	0.078	0.36%
Na 330.237†	291.2	12.62 mg/L		0.204	25.24 mg/L	0.408	1.62%
Ni 231.604†	930.8	0.7138 mg/L		0.00562	1.428 mg/L	0.0112	0.79%
Pb 220.353†	11655.7	2.040 mg/L		0.0081	4.080 mg/L	0.0162	0.40%
Sb 206.836†	18.9	0.00818 mg/L		0.000424	0.01637 mg/L	0.000848	5.18%
Se 196.026†	2289.9	2.087 mg/L		0.0104	4.173 mg/L	0.0208	0.50%
Si 288.158†	1288.3	1.026 mg/L		0.0059	2.053 mg/L	0.0118	0.58%
Sn 189.927†	-34.5	-0.00680 mg/L		0.001103	-0.01360 mg/L	0.002206	16.22%
Sr 421.552†	416863.8	0.7129 mg/L		0.00478	1.426 mg/L	0.0096	0.67%
Ti 334.903†	108139.7	5.601 mg/L		0.0312	11.20 mg/L	0.062	0.56%
Tl 190.801†	2737.1	1.996 mg/L		0.0061	3.991 mg/L	0.0121	0.30%
V 292.402†	64714.9	0.7288 mg/L		0.00070	1.458 mg/L	0.0014	0.10%
Zn 206.200†	322.3	0.7067 mg/L		0.00442	1.413 mg/L	0.0088	0.63%

Sequence No.: 17
 Sample ID: RG94 J SWC

Autosampler Location: 315
 Date Collected: 8/12/2010 12:19:30 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG94 J SWC
 Analyte Back Pressure Flow
 All 191.0 kPa 0.75 L/min

Mean Data: RG94 J SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1852873.0	110.6	%	0.88			0.79%
ScR 361.383	327160.6	120.4	%	0.80			0.66%
Ag 328.068†	-80.3	-0.00069	mg/L	0.000099	-0.00139 mg/L	0.000198	14.30%
Al 308.215†	111459.5	100.3	mg/L	0.92	200.6 mg/L	1.84	0.92%
As 188.979†	-105.5	0.00676	mg/L	0.002213	0.01352 mg/L	0.004426	32.74%
B 249.677†	49.1	0.01589	mg/L	0.000595	0.03179 mg/L	0.001190	3.74%
Ba 233.527†	934.8	0.3382	mg/L	0.00237	0.6764 mg/L	0.00475	0.70%
Be 313.042†	742.1	0.00130	mg/L	0.000008	0.00259 mg/L	0.000016	0.60%
Ca 317.933†	516236.6	44.41	mg/L	0.375	88.81 mg/L	0.750	0.84%
Cd 228.802†	37.1	0.00257	mg/L	0.000178	0.00514 mg/L	0.000356	6.93%
Co 228.616†	1907.0	0.06865	mg/L	0.000403	0.1373 mg/L	0.00081	0.59%
Cr 267.716†	1198.8	0.2701	mg/L	0.00302	0.5402 mg/L	0.00605	1.12%
Cu 324.752†	34521.4	0.1383	mg/L	0.00184	0.2766 mg/L	0.00368	1.33%
Fe 273.955†	131648.1	142.1	mg/L	1.25	284.1 mg/L	2.50	0.88%
K 766.490†	8125.2	5.849	mg/L	0.0282	11.70 mg/L	0.056	0.48%
Mg 279.077†	46394.9	61.42	mg/L	0.446	122.8 mg/L	0.89	0.73%
Mn 257.610†	61934.5	2.400	mg/L	0.0169	4.800 mg/L	0.0338	0.71%
Mo 202.031†	60.2	0.00335	mg/L	0.000316	0.00669 mg/L	0.000632	9.44%
Na 589.592†	33903.0	3.079	mg/L	0.0292	6.157 mg/L	0.0583	0.95%
Na 330.237†	59.7	3.978	mg/L	0.0255	7.956 mg/L	0.0510	0.64%
Ni 231.604†	486.3	0.3729	mg/L	0.00277	0.7459 mg/L	0.00554	0.74%
Pb 220.353†	29.5	0.01254	mg/L	0.000890	0.02509 mg/L	0.001779	7.09%
Sb 206.836†	24.2	0.01526	mg/L	0.000926	0.03051 mg/L	0.001852	6.07%
Se 196.026†	33.0	0.02709	mg/L	0.001788	0.05418 mg/L	0.003576	6.60%
Si 288.158†	1833.2	1.458	mg/L	0.0043	2.915 mg/L	0.0086	0.29%
Sn 189.927†	-31.7	-0.00580	mg/L	0.000138	-0.01161 mg/L	0.000275	2.37%
Sr 421.552†	156282.1	0.2673	mg/L	0.00192	0.5345 mg/L	0.00385	0.72%
Ti 334.903†	106547.0	5.518	mg/L	0.0464	11.04 mg/L	0.093	0.84%
Tl 190.801†	-21.7	0.00722	mg/L	0.004074	0.01445 mg/L	0.008148	56.39%
V 292.402†	29341.5	0.3186	mg/L	0.00447	0.6372 mg/L	0.00895	1.40%
Zn 206.200†	121.4	0.2645	mg/L	0.00462	0.5291 mg/L	0.00924	1.75%

Sequence No.: 18
Sample ID: RG94 K TWC

Autosampler Location: 316
Date Collected: 8/12/2010 12:23:42 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG94 K TWC

Analyte Back Pressure Flow
All 191.0 kPa 0.75 L/min

Mean Data: RG94 K TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	1852436.1	110.6	%	2.19			1.98%
ScR 361.383	323796.7	119.2	%	0.09			0.07%
Ag 328.068†	-20.1	-0.00012	mg/L	0.000301	-0.00012	0.000301	242.88%
Al 308.215†	238.0	0.2142	mg/L	0.00841	0.2142	0.00841	3.93%
As 188.979†	0.2	0.00038	mg/L	0.002527	0.00038	0.002527	658.21%
B 249.677†	12.8	0.00420	mg/L	0.001308	0.00420	0.001308	31.18%
Ba 233.527†	4.7	0.00175	mg/L	0.000613	0.00175	0.000613	35.04%
Be 313.042†	-27.2	-0.00006	mg/L	0.000047	-0.00006	0.000047	83.86%
Ca 317.933†	1810.5	0.1557	mg/L	0.00452	0.1557	0.00452	2.90%
Cd 228.802†	3.7	0.00020	mg/L	0.000207	0.00020	0.000207	101.18%
Co 228.616†	0.7	0.00000	mg/L	0.000156	0.00000	0.000156	>999.9%
Cr 267.716†	10.2	0.00232	mg/L	0.000706	0.00232	0.000706	30.48%
Cu 324.752†	-168.2	-0.00063	mg/L	0.000807	-0.00063	0.000807	128.68%
Fe 273.955†	250.3	0.2701	mg/L	0.00895	0.2701	0.00895	3.31%
K 766.490†	30.8	0.02216	mg/L	0.027922	0.02216	0.027922	126.01%
Mg 279.077†	56.4	0.07461	mg/L	0.009385	0.07461	0.009385	12.58%
Mn 257.610†	149.8	0.00580	mg/L	0.000129	0.00580	0.000129	2.22%
Mo 202.031†	-3.2	-0.00022	mg/L	0.000137	-0.00022	0.000137	61.80%
Na 589.592†	693.4	0.06296	mg/L	0.001656	0.06296	0.001656	2.63%
Na 330.237†	18.6	0.7057	mg/L	0.15188	0.7057	0.15188	21.52%
Ni 231.604†	4.5	0.00345	mg/L	0.001108	0.00345	0.001108	32.08%
Pb 220.353†	1.4	0.00027	mg/L	0.001405	0.00027	0.001405	514.12%
Sb 206.836†	-12.6	-0.00520	mg/L	0.000848	-0.00520	0.000848	16.30%
Se 196.026†	6.3	0.00576	mg/L	0.005669	0.00576	0.005669	98.34%
Si 288.158†	457.5	0.3638	mg/L	0.00315	0.3638	0.00315	0.86%
Sn 189.927†	0.3	0.00010	mg/L	0.000715	0.00010	0.000715	736.75%
Sr 421.552†	563.3	0.00096	mg/L	0.000073	0.00096	0.000073	7.57%
Ti 334.903†	217.4	0.01125	mg/L	0.000746	0.01125	0.000746	6.63%
Tl 190.801†	-1.3	-0.00089	mg/L	0.001924	-0.00089	0.001924	216.80%
V 292.402†	39.8	0.00043	mg/L	0.000159	0.00043	0.000159	36.84%
Zn 206.200†	-0.1	-0.00023	mg/L	0.000426	-0.00023	0.000426	185.07%

Sequence No.: 19
 Sample ID: RG94 MB2SPK TWC

Autosampler Location: 317
 Date Collected: 8/12/2010 12:27:53 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG94 MB2SPK TWC
 Analyte Back Pressure Flow
 All 191.0 kPa 0.75 L/min

Mean Data: RG94 MB2SPK TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1827065.3	109.1 %	0.61			0.56%
ScR 361.383	325193.9	119.7 %	0.33			0.28%
Ag 328.068†	84699.6	0.5187 mg/L	0.00483	0.5187 mg/L	0.00483	0.93%
Al 308.215†	2172.4	1.946 mg/L	0.0219	1.946 mg/L	0.0219	1.13%
As 188.979†	2413.4	2.094 mg/L	0.0067	2.094 mg/L	0.0067	0.32%
B 249.677†	7.6	0.00122 mg/L	0.000314	0.00122 mg/L	0.000314	25.70%
Ba 233.527†	5012.0	1.886 mg/L	0.0244	1.886 mg/L	0.0244	1.29%
Be 313.042†	233655.4	0.4820 mg/L	0.00227	0.4820 mg/L	0.00227	0.47%
Ca 317.933†	115139.4	9.904 mg/L	0.0431	9.904 mg/L	0.0431	0.43%
Cd 228.802†	9489.8	0.5119 mg/L	0.00568	0.5119 mg/L	0.00568	1.11%
Co 228.616†	12049.8	0.5042 mg/L	0.00617	0.5042 mg/L	0.00617	1.22%
Cr 267.716†	2079.1	0.4709 mg/L	0.00280	0.4709 mg/L	0.00280	0.60%
Cu 324.752†	122354.0	0.4662 mg/L	0.00638	0.4662 mg/L	0.00638	1.37%
Fe 273.955†	1824.0	1.966 mg/L	0.0234	1.966 mg/L	0.0234	1.19%
K 766.490†	14275.5	10.28 mg/L	0.119	10.28 mg/L	0.119	1.16%
Mg 279.077†	7556.7	10.01 mg/L	0.071	10.01 mg/L	0.071	0.71%
Mn 257.610†	11794.0	0.4574 mg/L	0.00566	0.4574 mg/L	0.00566	1.24%
Mo 202.031†	16.7	0.00097 mg/L	0.000031	0.00097 mg/L	0.000031	3.18%
Na 589.592†	100108.7	9.090 mg/L	0.0256	9.090 mg/L	0.0256	0.28%
Na 330.237†	280.5	10.53 mg/L	0.260	10.53 mg/L	0.260	2.47%
Ni 231.604†	641.3	0.4918 mg/L	0.00025	0.4918 mg/L	0.00025	0.05%
Pb 220.353†	11639.8	2.026 mg/L	0.0228	2.026 mg/L	0.0228	1.12%
Sb 206.836†	0.3	-0.00318 mg/L	0.001882	-0.00318 mg/L	0.001882	59.21%
Se 196.026†	2292.8	2.092 mg/L	0.0117	2.092 mg/L	0.0117	0.56%
Si 288.158†	-0.6	0.00138 mg/L	0.004282	0.00138 mg/L	0.004282	310.05%
Sn 189.927†	-11.7	-0.00340 mg/L	0.000508	-0.00340 mg/L	0.000508	14.95%
Sr 421.552†	287428.4	0.4915 mg/L	0.00142	0.4915 mg/L	0.00142	0.29%
Ti 334.903†	20.9	0.00038 mg/L	0.000673	0.00038 mg/L	0.000673	179.10%
Tl 190.801†	2840.6	2.054 mg/L	0.0112	2.054 mg/L	0.0112	0.55%
V 292.402†	44166.9	0.5069 mg/L	0.00754	0.5069 mg/L	0.00754	1.49%
Zn 206.200†	229.4	0.5052 mg/L	0.00475	0.5052 mg/L	0.00475	0.94%

Sequence No.: 20
 Sample ID: CV

Autosampler Location: 7
 Date Collected: 8/12/2010 12:32:05 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 191.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1778586.1	106.2	%	6.04			5.69%
ScR 361.383	314637.7	115.8	%	0.65			0.56%
Ag 328.068†	169273.4	1.036	mg/L	0.0686	1.036 mg/L	0.0686	6.62%
Al 308.215†	2350.2	2.083	mg/L	0.0058	2.083 mg/L	0.0058	0.28%
As 188.979†	2437.4	2.132	mg/L	0.1222	2.132 mg/L	0.1222	5.73%
B 249.677†	3025.9	0.9904	mg/L	0.00226	0.9904 mg/L	0.00226	0.23%
Ba 233.527†	2642.5	0.9938	mg/L	0.00479	0.9938 mg/L	0.00479	0.48%
Be 313.042†	478116.2	0.9863	mg/L	0.01264	0.9863 mg/L	0.01264	1.28%
Ca 317.933†	25165.8	2.165	mg/L	0.0131	2.165 mg/L	0.0131	0.61%
Cd 228.802†	19515.4	1.060	mg/L	0.0681	1.060 mg/L	0.0681	6.43%
Co 228.616†	24982.3	1.044	mg/L	0.0658	1.044 mg/L	0.0658	6.30%
Cr 267.716†	4490.0	1.020	mg/L	0.0035	1.020 mg/L	0.0035	0.34%
Cu 324.752†	268424.7	1.022	mg/L	0.0695	1.022 mg/L	0.0695	6.80%
Fe 273.955†	1898.4	2.043	mg/L	0.0105	2.043 mg/L	0.0105	0.51%
K 766.490†	29475.3	21.22	mg/L	0.051	21.22 mg/L	0.051	0.24%
Mg 279.077†	1582.4	2.103	mg/L	0.0073	2.103 mg/L	0.0073	0.35%
Mn 257.610†	24494.9	0.9496	mg/L	0.00453	0.9496 mg/L	0.00453	0.48%
Mo 202.031†	15179.6	1.038	mg/L	0.0619	1.038 mg/L	0.0619	5.96%
Na 589.592†	514199.4	46.69	mg/L	0.390	46.69 mg/L	0.390	0.84%
Na 330.237†	1404.2	53.04	mg/L	0.447	53.04 mg/L	0.447	0.84%
Ni 231.604†	1337.3	1.027	mg/L	0.0039	1.027 mg/L	0.0039	0.38%
Pb 220.353†	12150.3	2.116	mg/L	0.1230	2.116 mg/L	0.1230	5.81%
Sb 206.836†	5180.3	2.141	mg/L	0.1355	2.141 mg/L	0.1355	6.33%
Se 196.026†	2310.6	2.108	mg/L	0.1144	2.108 mg/L	0.1144	5.43%
Si 288.158†	2634.2	2.098	mg/L	0.0098	2.098 mg/L	0.0098	0.47%
Sn 189.927†	3177.7	1.045	mg/L	0.0589	1.045 mg/L	0.0589	5.63%
Sr 421.552†	592693.5	1.014	mg/L	0.0080	1.014 mg/L	0.0080	0.79%
Ti 334.903†	19733.6	1.021	mg/L	0.0063	1.021 mg/L	0.0063	0.61%
Tl 190.801†	2901.5	2.099	mg/L	0.1211	2.099 mg/L	0.1211	5.77%
V 292.402†	90103.6	1.035	mg/L	0.0654	1.035 mg/L	0.0654	6.32%
Zn 206.200†	472.2	1.039	mg/L	0.0055	1.039 mg/L	0.0055	0.53%

Sequence No.: 21
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/12/2010 12:36:19 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 191.0 kPa 0.75 L/min
User canceled analysis.

Analysis Begun

Start Time: 8/12/2010 12:39:18 PM Plasma On Time: 8/12/2010 8:37:11 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0812A.sif
Batch ID:
Results Data Set: I2100812
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 20
Sample ID: CV

Autosampler Location: 7
Date Collected: 8/12/2010 12:39:19 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 191.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1850009.2	110.5 %	0.26			0.23%
ScR 361.383	318898.1	117.4 %	1.43			1.22%
Ag 328.068†	163331.2	1.000 mg/L	0.0045	1.000 mg/L	0.0045	0.45%
Al 308.215†	2327.6	2.063 mg/L	0.0190	2.063 mg/L	0.0190	0.92%
As 188.979†	2358.3	2.063 mg/L	0.0036	2.063 mg/L	0.0036	0.17%
B 249.677†	3011.9	0.9859 mg/L	0.01184	0.9859 mg/L	0.01184	1.20%
Ba 233.527†	2621.4	0.9859 mg/L	0.01218	0.9859 mg/L	0.01218	1.24%
Be 313.042†	477427.0	0.9849 mg/L	0.01289	0.9849 mg/L	0.01289	1.31%
Ca 317.933†	24952.4	2.146 mg/L	0.0257	2.146 mg/L	0.0257	1.20%
Cd 228.802†	18782.6	1.020 mg/L	0.0063	1.020 mg/L	0.0063	0.62%
Co 228.616†	24109.3	1.008 mg/L	0.0057	1.008 mg/L	0.0057	0.57%
Cr 267.716†	4465.9	1.014 mg/L	0.0130	1.014 mg/L	0.0130	1.28%
Cu 324.752†	258700.7	0.9849 mg/L	0.00664	0.9849 mg/L	0.00664	0.67%
Fe 273.955†	1878.1	2.021 mg/L	0.0222	2.021 mg/L	0.0222	1.10%
K 766.490†	29205.0	21.02 mg/L	0.198	21.02 mg/L	0.198	0.94%
Mg 279.077†	1560.7	2.074 mg/L	0.0169	2.074 mg/L	0.0169	0.82%
Mn 257.610†	24355.4	0.9442 mg/L	0.01283	0.9442 mg/L	0.01283	1.36%
Mo 202.031†	14658.0	1.003 mg/L	0.0042	1.003 mg/L	0.0042	0.42%
Na 589.592†	511626.1	46.46 mg/L	0.591	46.46 mg/L	0.591	1.27%
Na 330.237†	1387.5	52.41 mg/L	0.768	52.41 mg/L	0.768	1.46%
Ni 231.604†	1328.8	1.021 mg/L	0.0118	1.021 mg/L	0.0118	1.15%
Pb 220.353†	11735.6	2.044 mg/L	0.0084	2.044 mg/L	0.0084	0.41%
Sb 206.836†	4995.7	2.064 mg/L	0.0056	2.064 mg/L	0.0056	0.27%
Se 196.026†	2235.3	2.040 mg/L	0.0056	2.040 mg/L	0.0056	0.27%
Si 288.158†	2597.5	2.069 mg/L	0.0257	2.069 mg/L	0.0257	1.24%
Sn 189.927†	3079.3	1.013 mg/L	0.0037	1.013 mg/L	0.0037	0.36%
Sr 421.552†	589728.0	1.009 mg/L	0.0157	1.009 mg/L	0.0157	1.55%
Ti 334.903†	19561.5	1.012 mg/L	0.0145	1.012 mg/L	0.0145	1.44%
Tl 190.801†	2801.1	2.027 mg/L	0.0099	2.027 mg/L	0.0099	0.49%
V 292.402†	86803.4	0.9969 mg/L	0.00881	0.9969 mg/L	0.00881	0.88%
Zn 206.200†	472.3	1.040 mg/L	0.0066	1.040 mg/L	0.0066	0.64%

Sequence No.: 21
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/12/2010 12:43:33 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	192.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1846649.9	110.3	%	2.74			2.48%
ScR 361.383	322369.9	118.7	%	1.50			1.26%
Ag 328.068†	-9.5	-0.00006	mg/L	0.000174	-0.00006 mg/L	0.000174	299.53%
Al 308.215†	13.3	0.01192	mg/L	0.001925	0.01192 mg/L	0.001925	16.15%
As 188.979†	0.6	0.00048	mg/L	0.001094	0.00048 mg/L	0.001094	228.05%
B 249.677†	15.0	0.00493	mg/L	0.001831	0.00493 mg/L	0.001831	37.14%
Ba 233.527†	-1.3	-0.00048	mg/L	0.001384	-0.00048 mg/L	0.001384	286.62%
Be 313.042†	-26.5	-0.00005	mg/L	0.000033	-0.00005 mg/L	0.000033	59.58%
Ca 317.933†	-7.4	-0.00064	mg/L	0.001310	-0.00064 mg/L	0.001310	205.12%
Cd 228.802†	3.7	0.00020	mg/L	0.000183	0.00020 mg/L	0.000183	91.03%
Co 228.616†	6.4	0.00027	mg/L	0.000125	0.00027 mg/L	0.000125	46.56%
Cr 267.716†	4.6	0.00103	mg/L	0.001426	0.00103 mg/L	0.001426	137.95%
Cu 324.752†	-174.1	-0.00066	mg/L	0.000899	-0.00066 mg/L	0.000899	135.35%
Fe 273.955†	-1.3	-0.00145	mg/L	0.000659	-0.00145 mg/L	0.000659	45.53%
K 766.490†	11.8	0.00853	mg/L	0.005502	0.00853 mg/L	0.005502	64.52%
Mg 279.077†	4.9	0.00649	mg/L	0.006851	0.00649 mg/L	0.006851	105.54%
Mn 257.610†	1.0	0.00004	mg/L	0.000118	0.00004 mg/L	0.000118	309.89%
Mo 202.031†	19.2	0.00132	mg/L	0.000392	0.00132 mg/L	0.000392	29.77%
Na 589.592†	-173.8	-0.01578	mg/L	0.001149	-0.01578 mg/L	0.001149	7.28%
Na 330.237†	21.6	0.8155	mg/L	0.18757	0.8155 mg/L	0.18757	23.00%
Ni 231.604†	1.7	0.00129	mg/L	0.001400	0.00129 mg/L	0.001400	108.54%
Pb 220.353†	4.8	0.00085	mg/L	0.000315	0.00085 mg/L	0.000315	37.15%
Sb 206.836†	1.7	0.00070	mg/L	0.001732	0.00070 mg/L	0.001732	248.71%
Se 196.026†	5.0	0.00459	mg/L	0.003522	0.00459 mg/L	0.003522	76.67%
Si 288.158†	-3.0	-0.00239	mg/L	0.002498	-0.00239 mg/L	0.002498	104.42%
Sn 189.927†	5.0	0.00163	mg/L	0.000444	0.00163 mg/L	0.000444	27.27%
Sr 421.552†	-3.0	-0.00001	mg/L	0.000036	-0.00001 mg/L	0.000036	699.67%
Ti 334.903†	2.1	0.00011	mg/L	0.000465	0.00011 mg/L	0.000465	437.90%
Tl 190.801†	0.9	0.00065	mg/L	0.001831	0.00065 mg/L	0.001831	283.14%
V 292.402†	6.4	0.00008	mg/L	0.000062	0.00008 mg/L	0.000062	78.62%
Zn 206.200†	0.0	0.00001	mg/L	0.002910	0.00001 mg/L	0.002910	>999.9%

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Analysis Begun

Start Time: 8/12/2010 2:17:35 PM

Plasma On Time: 8/12/2010 8:37:11 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CVCB.sif

Batch ID:

Results Data Set: I2100812

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CV *U*

Date Collected: 8/12/2010 2:17:36 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1813647.9	108.3 %	0.53			0.49%
ScR 361.383	316168.9	116.4 %	0.37			0.32%
Ag 328.068†	164947.1	1.010 mg/L	0.0107	1.010 mg/L	0.0107	1.05%
Al 308.215†	2356.4	2.089 mg/L	0.0123	2.089 mg/L	0.0123	0.59%
As 188.979†	2365.7	2.070 mg/L	0.0137	2.070 mg/L	0.0137	0.66%
B 249.677†	2952.4	0.9664 mg/L	0.00464	0.9664 mg/L	0.00464	0.48%
Ba 233.527†	2629.9	0.9891 mg/L	0.00713	0.9891 mg/L	0.00713	0.72%
Be 313.042†	480902.6	0.9920 mg/L	0.00579	0.9920 mg/L	0.00579	0.58%
Ca 317.933†	24953.3	2.146 mg/L	0.0058	2.146 mg/L	0.0058	0.27%
Cd 228.802†	18981.7	1.031 mg/L	0.0112	1.031 mg/L	0.0112	1.09%
Co 228.616†	24297.5	1.016 mg/L	0.0100	1.016 mg/L	0.0100	0.99%
Cr 267.716†	4495.5	1.021 mg/L	0.0080	1.021 mg/L	0.0080	0.79%
Cu 324.752†	263596.5	1.004 mg/L	0.0081	1.004 mg/L	0.0081	0.80%
Fe 273.955†	1888.4	2.032 mg/L	0.0111	2.032 mg/L	0.0111	0.55%
K 766.490†	29948.7	21.56 mg/L	0.127	21.56 mg/L	0.127	0.59%
Mg 279.077†	1570.9	2.087 mg/L	0.0136	2.087 mg/L	0.0136	0.65%
Mn 257.610†	24600.1	0.9537 mg/L	0.00221	0.9537 mg/L	0.00221	0.23%
Mo 202.031†	14801.9	1.012 mg/L	0.0084	1.012 mg/L	0.0084	0.83%
Na 589.592†	512757.9	46.56 mg/L	0.213	46.56 mg/L	0.213	0.46%
Na 330.237†	1408.7	53.21 mg/L	0.230	53.21 mg/L	0.230	0.43%
Ni 231.604†	1330.8	1.022 mg/L	0.0033	1.022 mg/L	0.0033	0.33%
Pb 220.353†	11816.1	2.058 mg/L	0.0145	2.058 mg/L	0.0145	0.71%
Sb 206.836†	5055.2	2.089 mg/L	0.0169	2.089 mg/L	0.0169	0.81%
Se 196.026†	2251.4	2.054 mg/L	0.0104	2.054 mg/L	0.0104	0.51%
Si 288.158†	2648.8	2.110 mg/L	0.0209	2.110 mg/L	0.0209	0.99%
Sn 189.927†	3092.2	1.017 mg/L	0.0081	1.017 mg/L	0.0081	0.80%
Sr 421.552†	600163.2	1.026 mg/L	0.0067	1.026 mg/L	0.0067	0.65%
Ti 334.903†	19817.6	1.025 mg/L	0.0022	1.025 mg/L	0.0022	0.21%
Tl 190.801†	2837.5	2.053 mg/L	0.0110	2.053 mg/L	0.0110	0.54%
V 292.402†	87790.0	1.008 mg/L	0.0100	1.008 mg/L	0.0100	0.99%
Zn 206.200†	468.9	1.032 mg/L	0.0048	1.032 mg/L	0.0048	0.46%

Sequence No.: 2
 Sample ID: CB
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/12/2010 2:21:50 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	1806089.2	107.9	%	0.59			0.54%
ScR 361.383	324592.7	119.5	%	2.87			2.41%
Ag 328.068†	25.1	0.00015	mg/L	0.000138	0.00015	mg/L	0.000138 90.09%
Al 308.215†	14.5	0.01302	mg/L	0.005306	0.01302	mg/L	0.005306 40.77%
As 188.979†	-0.1	-0.00008	mg/L	0.002624	-0.00008	mg/L	0.002624 >999.9%
B 249.677†	11.8	0.00386	mg/L	0.001375	0.00386	mg/L	0.001375 35.66%
Ba 233.527†	1.0	0.00037	mg/L	0.000413	0.00037	mg/L	0.000413 111.43%
Be 313.042†	-36.6	-0.00008	mg/L	0.000036	-0.00008	mg/L	0.000036 47.88%
Ca 317.933†	6.1	0.00053	mg/L	0.001069	0.00053	mg/L	0.001069 203.13%
Cd 228.802†	5.5	0.00030	mg/L	0.000112	0.00030	mg/L	0.000112 37.13%
Co 228.616†	3.0	0.00012	mg/L	0.000117	0.00012	mg/L	0.000117 94.40%
Cr 267.716†	5.9	0.00135	mg/L	0.001103	0.00135	mg/L	0.001103 81.95%
Cu 324.752†	102.3	0.00039	mg/L	0.000282	0.00039	mg/L	0.000282 72.45%
Fe 273.955†	-1.7	-0.00185	mg/L	0.000471	-0.00185	mg/L	0.000471 25.51%
K 766.490†	26.8	0.01927	mg/L	0.007207	0.01927	mg/L	0.007207 37.39%
Mg 279.077†	4.0	0.00527	mg/L	0.005077	0.00527	mg/L	0.005077 96.31%
Mn 257.610†	-0.3	-0.00001	mg/L	0.000123	-0.00001	mg/L	0.000123 >999.9%
Mo 202.031†	16.4	0.00112	mg/L	0.000244	0.00112	mg/L	0.000244 21.81%
Na 589.592†	-128.1	-0.01163	mg/L	0.001431	-0.01163	mg/L	0.001431 12.30%
Na 330.237†	14.2	0.5352	mg/L	0.33055	0.5352	mg/L	0.33055 61.76%
Ni 231.604†	1.5	0.00114	mg/L	0.001587	0.00114	mg/L	0.001587 138.71%
Pb 220.353†	5.0	0.00088	mg/L	0.000181	0.00088	mg/L	0.000181 20.50%
Sb 206.836†	3.5	0.00145	mg/L	0.001822	0.00145	mg/L	0.001822 126.08%
Se 196.026†	2.9	0.00267	mg/L	0.002425	0.00267	mg/L	0.002425 90.81%
Si 288.158†	-3.5	-0.00282	mg/L	0.001265	-0.00282	mg/L	0.001265 44.86%
Sn 189.927†	1.3	0.00041	mg/L	0.000773	0.00041	mg/L	0.000773 187.20%
Sr 421.552†	-23.9	-0.00004	mg/L	0.000074	-0.00004	mg/L	0.000074 180.20%
Ti 334.903†	9.3	0.00048	mg/L	0.000902	0.00048	mg/L	0.000902 186.98%
Tl 190.801†	-0.1	-0.00010	mg/L	0.002147	-0.00010	mg/L	0.002147 >999.9%
V 292.402†	-12.4	-0.00014	mg/L	0.000123	-0.00014	mg/L	0.000123 90.57%
Zn 206.200†	-0.5	-0.00100	mg/L	0.003188	-0.00100	mg/L	0.003188 318.83%

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Analysis Begun

Start Time: 8/12/2010 2:32:43 PM
 Logged In Analyst: metals
 Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 8/12/2010 8:37:11 AM
 Technique: ICP Continuous

Sample Information File: C:\pe\metals\Sample Information\0812B.sif

Batch ID:
 Results Data Set: I2100812
 Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1
 Sample ID: RG79 MB1 SWC

Autosampler Location: 301
 Date Collected: 8/12/2010 2:32:44 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 MB1 SWC

Analyte	Back Pressure	Flow
All	192.0 kPa	0.75 L/min

Mean Data: RG79 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1835880.6	109.6	%	0.68			0.62%
ScR 361.383	327430.0	120.5	%	0.77			0.64%
Ag 328.068†	-4.1	-0.00002	mg/L	0.000125	-0.00005 mg/L	0.000251	506.76%
Al 308.215†	14.2	0.01275	mg/L	0.000147	0.02549 mg/L	0.000294	1.15%
As 188.979†	0.3	0.00025	mg/L	0.001236	0.00049 mg/L	0.002471	499.57%
B 249.677†	6.4	0.00209	mg/L	0.001596	0.00419 mg/L	0.003193	76.20%
Ba 233.527†	0.4	0.00014	mg/L	0.000201	0.00029 mg/L	0.000402	141.08%
Be 313.042†	-59.1	-0.00012	mg/L	0.000022	-0.00024 mg/L	0.000045	18.32%
Ca 317.933†	136.0	0.01170	mg/L	0.000465	0.02340 mg/L	0.000929	3.97%
Cd 228.802†	4.9	0.00027	mg/L	0.000121	0.00053 mg/L	0.000242	45.51%
Co 228.616†	2.2	0.00009	mg/L	0.000112	0.00018 mg/L	0.000223	123.29%
Cr 267.716†	6.5	0.00148	mg/L	0.000688	0.00296 mg/L	0.001377	46.57%
Cu 324.752†	22.2	0.00008	mg/L	0.000185	0.00017 mg/L	0.000370	218.94%
Fe 273.955†	1.0	0.00106	mg/L	0.002490	0.00211 mg/L	0.004980	235.81%
K 766.490†	6.8	0.00492	mg/L	0.028795	0.00984 mg/L	0.057591	585.44%
Mg 279.077†	-0.4	-0.00059	mg/L	0.007871	-0.00118 mg/L	0.015742	>999.9%
Mn 257.610†	-0.6	-0.00002	mg/L	0.000026	-0.00005 mg/L	0.000053	111.75%
Mo 202.031†	-5.3	-0.00037	mg/L	0.000300	-0.00073 mg/L	0.000600	82.08%
Na 589.592†	-95.9	-0.00870	mg/L	0.001264	-0.01741 mg/L	0.002529	14.53%
Na 330.237†	20.2	0.7638	mg/L	0.52620	1.528 mg/L	1.0524	68.89%
Ni 231.604†	0.5	0.00035	mg/L	0.001442	0.00070 mg/L	0.002883	409.93%
Pb 220.353†	0.1	0.00002	mg/L	0.000270	0.00003 mg/L	0.000541	>999.9%
Sb 206.836†	-9.1	-0.00376	mg/L	0.001583	-0.00751 mg/L	0.003165	42.14%
Se 196.026†	4.8	0.00438	mg/L	0.005002	0.00875 mg/L	0.010004	114.30%
Si 288.158†	-1.2	-0.00095	mg/L	0.002732	-0.00190 mg/L	0.005463	288.25%
Sn 189.927†	1.6	0.00052	mg/L	0.000730	0.00105 mg/L	0.001461	139.65%
Sr 421.552†	-11.5	-0.00002	mg/L	0.000047	-0.00004 mg/L	0.000093	237.29%
Ti 334.903†	21.4	0.00111	mg/L	0.000771	0.00222 mg/L	0.001542	69.44%
Tl 190.801†	2.6	0.00185	mg/L	0.001018	0.00370 mg/L	0.002035	54.98%
V 292.402†	3.2	0.00004	mg/L	0.000092	0.00008 mg/L	0.000183	217.50%
Zn 206.200†	0.3	0.00066	mg/L	0.001146	0.00132 mg/L	0.002293	173.51%

Sequence No.: 2
Sample ID: RG80 U SWC

Autosampler Location: 302
Date Collected: 8/12/2010 2:36:57 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RG80 U SWC

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG80 U SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1844611.2	110.2	%	0.84				0.76%
ScR 361.383	329274.5	121.2	%	0.40				0.33%
Ag 328.068†	4625.1	0.02817	mg/L	0.000150	0.1409	mg/L	0.00075	0.53%
Al 308.215†	35560.2	31.99	mg/L	0.105	160.0	mg/L	0.53	0.33%
As 188.979†	-2.0	0.05550	mg/L	0.001535	0.2775	mg/L	0.00767	2.77%
B 249.677†	17.2	0.00555	mg/L	0.001338	0.02773	mg/L	0.006692	24.13%
Ba 233.527†	560.9	0.1911	mg/L	0.00130	0.9553	mg/L	0.00648	0.68%
Be 313.042†	273.7	0.00040	mg/L	0.000015	0.00199	mg/L	0.000074	3.72%
Ca 317.933†	209151.1	17.99	mg/L	0.125	89.95	mg/L	0.624	0.69%
Cd 228.802†	416.5	0.02307	mg/L	0.000172	0.1154	mg/L	0.00086	0.75%
Co 228.616†	1229.0	0.04322	mg/L	0.000475	0.2161	mg/L	0.00237	1.10%
Cr 267.716†	2994.9	0.6884	mg/L	0.00351	3.442	mg/L	0.0175	0.51%
Cu 324.752†	343028.7	1.321	mg/L	0.0084	6.604	mg/L	0.0419	0.63%
Fe 273.955†	198857.1	214.6	mg/L	0.63	1073	mg/L	3.2	0.30%
K 766.490†	2540.3	1.829	mg/L	0.0142	9.143	mg/L	0.0712	0.78%
Mg 279.077†	10022.5	13.17	mg/L	0.043	65.87	mg/L	0.215	0.33%
Mn 257.610†	41242.0	1.599	mg/L	0.0061	7.997	mg/L	0.0305	0.38%
Mo 202.031†	619.3	0.04205	mg/L	0.000099	0.2103	mg/L	0.00049	0.23%
Na 589.592†	15500.7	1.408	mg/L	0.0072	7.038	mg/L	0.0361	0.51%
Na 330.237†	59.6	1.988	mg/L	0.2660	9.940	mg/L	1.3302	13.38%
Ni 231.604†	608.8	0.4669	mg/L	0.00171	2.335	mg/L	0.0085	0.37%
Pb 220.353†	11009.9	1.906	mg/L	0.0159	9.532	mg/L	0.0797	0.84%
Sb 206.836†	81.6	0.03395	mg/L	0.001330	0.1698	mg/L	0.00665	3.92%
Se 196.026†	8.2	0.00626	mg/L	0.003967	0.03132	mg/L	0.019834	63.32%
Si 288.158†	3721.3	2.959	mg/L	0.0169	14.80	mg/L	0.085	0.57%
Sn 189.927†	638.5	0.2120	mg/L	0.00131	1.060	mg/L	0.0065	0.62%
Sr 421.552†	56484.3	0.09660	mg/L	0.000365	0.4830	mg/L	0.00183	0.38%
Ti 334.903†	62422.7	3.233	mg/L	0.0082	16.17	mg/L	0.041	0.25%
Tl 190.801†	-43.8	0.00153	mg/L	0.004151	0.00767	mg/L	0.020755	270.50%
V 292.402†	22173.6	0.2318	mg/L	0.00112	1.159	mg/L	0.0056	0.48%
Zn 206.200†	2398.7	5.282	mg/L	0.0508	26.41	mg/L	0.254	0.96%

Sequence No.: 3
Sample ID: RG79 D SWC

Autosampler Location: 303
Date Collected: 8/12/2010 2:40:54 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 D SWC

Analyte	Back Pressure	Flow
All	192.0 kPa	0.75 L/min

Mean Data: RG79 D SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1855892.8		110.8 %	1.09				0.98%
ScR 361.383	334494.8		123.1 %	0.22				0.18%
Ag 328.068†	120.3	0.00035	mg/L	0.000085	0.00069	mg/L	0.000170	24.56%
Al 308.215†	136575.7	122.9	mg/L	0.13	245.8	mg/L	0.26	0.10%
As 188.979†	-66.8	0.05164	mg/L	0.003684	0.1033	mg/L	0.00737	7.13%
B 249.677†	96.1	0.03123	mg/L	0.000483	0.06246	mg/L	0.000966	1.55%
Ba 233.527†	9608.0	3.593	mg/L	0.0128	7.185	mg/L	0.0256	0.36%
Be 313.042†	1061.3	0.00192	mg/L	0.000013	0.00385	mg/L	0.000026	0.67%
Ca 317.933†	587128.2	50.50	mg/L	0.034	101.0	mg/L	0.07	0.07%
Cd 228.802†	3152.7	0.1728	mg/L	0.00150	0.3455	mg/L	0.00300	0.87%
Co 228.616†	2819.2	0.1038	mg/L	0.00071	0.2077	mg/L	0.00142	0.68%
Cr 267.716†	2584.6	0.5919	mg/L	0.00349	1.184	mg/L	0.0070	0.59%
Cu 324.752†	1071653.4	4.097	mg/L	0.0257	8.194	mg/L	0.0513	0.63%
Fe 273.955†	229858.3	248.0	mg/L	0.12	496.1	mg/L	0.25	0.05%
K 766.490†	8188.4	5.895	mg/L	0.0051	11.79	mg/L	0.010	0.09%
Mg 279.077†	34076.9	45.04	mg/L	0.117	90.07	mg/L	0.235	0.26%
Mn 257.610†	90735.9	3.522	mg/L	0.0091	7.044	mg/L	0.0181	0.26%
Mo 202.031†	387.0	0.02559	mg/L	0.000907	0.05119	mg/L	0.001815	3.55%
Na 589.592†	24144.8	2.192	mg/L	0.0002	4.385	mg/L	0.0005	0.01%
Na 330.237†	70.3	2.754	mg/L	0.2741	5.509	mg/L	0.5482	9.95%
Ni 231.604†	487.3	0.3738	mg/L	0.00175	0.7475	mg/L	0.00350	0.47%
Pb 220.353†	144537.3	25.16	mg/L	0.263	50.31	mg/L	0.527	1.05%
Sb 206.836†	102.3	0.04985	mg/L	0.001640	0.09969	mg/L	0.003280	3.29%
Se 196.026†	38.0	0.03120	mg/L	0.003731	0.06240	mg/L	0.007463	11.96%
Si 188.158†	7835.1	6.231	mg/L	0.0252	12.46	mg/L	0.050	0.40%
Sn 189.927†	1219.9	0.4057	mg/L	0.00313	0.8115	mg/L	0.00627	0.77%
Sr 421.552†	143135.5	0.2448	mg/L	0.00024	0.4896	mg/L	0.00048	0.10%
Ti 334.903†	119108.6	6.168	mg/L	0.0048	12.34	mg/L	0.010	0.08%
Tl 190.801†	-48.9	0.00434	mg/L	0.000893	0.00867	mg/L	0.001785	20.58%
V 292.402†	33501.2	0.3559	mg/L	0.00484	0.7118	mg/L	0.00967	1.36%
Zn 206.200†	3620.5	7.972	mg/L	0.0249	15.94	mg/L	0.050	0.31%

Sequence No.: 4
Sample ID: RG79 G SWC

Autosampler Location: 304
Date Collected: 8/12/2010 2:44:52 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 G SWC

Analyte Back Pressure Flow
All 193.0 kPa 0.75 L/min

Mean Data: RG79 G SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1887563.0	112.7 %	0.81			0.71%
ScR 361.383	334936.1	123.3 %	1.32			1.07%
Ag 328.068†	-44.8	-0.00039 mg/L	0.000298	-0.00077 mg/L	0.000596	77.20%
Al 308.215†	156835.4	141.1 mg/L	1.65	282.3 mg/L	3.30	1.17%
As 188.979†	-129.1	0.02628 mg/L	0.005306	0.05256 mg/L	0.010613	20.19%
B 249.677†	50.8	0.01647 mg/L	0.000498	0.03295 mg/L	0.000996	3.02%
Ba 233.527†	3200.7	1.190 mg/L	0.0143	2.380 mg/L	0.0286	1.20%
Be 313.042†	1120.9	0.00203 mg/L	0.000032	0.00406 mg/L	0.000063	1.55%
Ca 317.933†	452330.2	38.91 mg/L	0.552	77.82 mg/L	1.104	1.42%
Cd 228.802†	160.9	0.00936 mg/L	0.000368	0.01872 mg/L	0.000736	3.93%
Co 228.616†	2008.8	0.06887 mg/L	0.000774	0.1377 mg/L	0.00155	1.12%
Cr 267.716†	1863.0	0.4241 mg/L	0.00484	0.8482 mg/L	0.00967	1.14%
Cu 324.752†	65667.6	0.2575 mg/L	0.00125	0.5150 mg/L	0.00250	0.49%
Fe 273.955†	144159.0	155.6 mg/L	2.07	311.1 mg/L	4.13	1.33%
K 766.490†	8618.6	6.204 mg/L	0.1033	12.41 mg/L	0.207	1.66%
Mg 279.077†	32764.2	43.34 mg/L	0.623	86.69 mg/L	1.246	1.44%
Mn 257.610†	61409.6	2.380 mg/L	0.0375	4.759 mg/L	0.0750	1.58%
Mo 202.031†	280.7	0.01852 mg/L	0.000053	0.03704 mg/L	0.000107	0.29%
Na 589.592†	23321.9	2.118 mg/L	0.0238	4.235 mg/L	0.0477	1.13%
Na 330.237†	30.1	3.085 mg/L	0.1243	6.169 mg/L	0.2485	4.03%
Ni 231.604†	395.2	0.3031 mg/L	0.00433	0.6061 mg/L	0.00866	1.43%
Pb 220.353†	8927.0	1.567 mg/L	0.0128	3.135 mg/L	0.0256	0.82%
Sb 206.836†	25.0	0.01717 mg/L	0.000853	0.03434 mg/L	0.001707	4.97%
Se 196.026†	33.1	0.02752 mg/L	0.006575	0.05503 mg/L	0.013150	23.89%
Si 288.158†	8565.7	6.811 mg/L	0.0776	13.62 mg/L	0.155	1.14%
Sn 189.927†	32.0	0.01585 mg/L	0.001052	0.03170 mg/L	0.002105	6.64%
Sr 421.552†	122179.0	0.2089 mg/L	0.00300	0.4179 mg/L	0.00600	1.44%
Ti 334.903†	149257.3	7.731 mg/L	0.1072	15.46 mg/L	0.214	1.39%
Tl 190.801†	-27.0	0.00530 mg/L	0.008413	0.01060 mg/L	0.016826	158.68%
V 292.402†	33552.4	0.3646 mg/L	0.00242	0.7293 mg/L	0.00485	0.66%
Zn 206.200†	795.5	1.748 mg/L	0.0266	3.496 mg/L	0.0532	1.52%

Sequence No.: 5
 Sample ID: RG79 H SWC

Autosampler Location: 305
 Date Collected: 8/12/2010 2:48:49 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 H SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 H SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1868947.1	111.6 %	1.41			1.27%
ScR 361.383	334205.6	123.0 %	0.99			0.81%
Ag 328.068†	7.8	-0.00031 mg/L	0.000125	-0.00062 mg/L	0.000249	40.25%
Al 308.215†	180918.5	162.8 mg/L	0.81	325.6 mg/L	1.62	0.50%
As 188.979†	-124.5	0.02044 mg/L	0.002745	0.04087 mg/L	0.005490	13.43%
B 249.677†	67.3	0.02183 mg/L	0.001017	0.04366 mg/L	0.002034	4.66%
Ba 233.527†	2774.4	1.028 mg/L	0.0109	2.055 mg/L	0.0218	1.06%
Be 313.042†	887.6	0.00153 mg/L	0.000053	0.00306 mg/L	0.000107	3.48%
Ca 317.933†	368794.2	31.72 mg/L	0.156	63.45 mg/L	0.311	0.49%
Cd 228.802†	80.7	0.00503 mg/L	0.000131	0.01006 mg/L	0.000261	2.60%
Co 228.616†	2431.5	0.08731 mg/L	0.001164	0.1746 mg/L	0.00233	1.33%
Cr 267.716†	1260.2	0.2864 mg/L	0.00281	0.5728 mg/L	0.00562	0.98%
Cu 324.752†	52177.1	0.2073 mg/L	0.00264	0.4147 mg/L	0.00528	1.27%
Fe 273.955†	161132.1	173.9 mg/L	0.67	347.7 mg/L	1.34	0.38%
K 766.490†	9176.0	6.605 mg/L	0.0208	13.21 mg/L	0.042	0.32%
Mg 279.077†	42690.2	56.49 mg/L	0.291	113.0 mg/L	0.58	0.52%
Mn 257.610†	92427.0	3.581 mg/L	0.0146	7.162 mg/L	0.0292	0.41%
Mo 202.031†	167.3	0.01089 mg/L	0.000283	0.02178 mg/L	0.000567	2.60%
Na 589.592†	23342.5	2.120 mg/L	0.0106	4.239 mg/L	0.0213	0.50%
Na 330.237†	28.0	3.082 mg/L	0.2419	6.164 mg/L	0.4838	7.85%
Ni 231.604†	527.3	0.4044 mg/L	0.00341	0.8087 mg/L	0.00683	0.84%
Pb 220.353†	2145.6	0.3892 mg/L	0.00302	0.7783 mg/L	0.00605	0.78%
Sb 206.836†	25.4	0.01809 mg/L	0.002717	0.03618 mg/L	0.005434	15.02%
Se 196.026†	32.7	0.02764 mg/L	0.001085	0.05528 mg/L	0.002169	3.92%
Si 288.158†	9960.9	7.921 mg/L	0.0400	15.84 mg/L	0.080	0.50%
Sn 189.927†	-7.2	0.00239 mg/L	0.001832	0.00477 mg/L	0.003663	76.80%
Sr 421.552†	191378.7	0.3273 mg/L	0.00136	0.6546 mg/L	0.00272	0.41%
Ti 334.903†	138289.5	7.164 mg/L	0.0298	14.33 mg/L	0.060	0.42%
Tl 190.801†	-40.9	-0.00092 mg/L	0.005708	-0.00184 mg/L	0.011415	620.37%
V 292.402†	37085.7	0.4030 mg/L	0.00356	0.8060 mg/L	0.00712	0.88%
Zn 206.200†	267.5	0.5845 mg/L	0.00747	1.169 mg/L	0.0149	1.28%

Sequence No.: 6
Sample ID: RG79 K SWC

Autosampler Location: 306
Date Collected: 8/12/2010 2:52:46 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 K SWC

Analyte Back Pressure Flow
All 193.0 kPa 0.75 L/min

Mean Data: RG79 K SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1869997.3	111.7	%	1.00			0.89%
ScR 361.383	336388.8	123.8	%	1.30			1.05%
Ag 328.068†	143.1	0.00038	mg/L	0.000130	0.00076 mg/L	0.000259	34.08%
Al 308.215†	172306.4	155.1	mg/L	1.88	310.1 mg/L	3.77	1.21%
As 188.979†	-45.2	0.07874	mg/L	0.001485	0.1575 mg/L	0.00297	1.89%
B 249.677†	61.5	0.01994	mg/L	0.000823	0.03988 mg/L	0.001646	4.13%
Ba 233.527†	9896.0	3.707	mg/L	0.0460	7.413 mg/L	0.0921	1.24%
Be 313.042†	1245.8	0.00230	mg/L	0.000051	0.00460 mg/L	0.000103	2.23%
Ca 317.933†	415385.4	35.73	mg/L	0.361	71.46 mg/L	0.723	1.01%
Cd 228.802†	422.8	0.02347	mg/L	0.000148	0.04694 mg/L	0.000296	0.63%
Co 228.616†	2353.7	0.08433	mg/L	0.000496	0.1687 mg/L	0.00099	0.59%
Cr 267.716†	1573.3	0.3603	mg/L	0.00453	0.7206 mg/L	0.00905	1.26%
Cu 324.752†	163956.6	0.6349	mg/L	0.00583	1.270 mg/L	0.0117	0.92%
Fe 273.955†	175706.5	189.6	mg/L	1.97	379.2 mg/L	3.94	1.04%
K 766.490†	6714.8	4.834	mg/L	0.0481	9.667 mg/L	0.0961	0.99%
Mg 279.077†	30587.9	40.44	mg/L	0.524	80.88 mg/L	1.047	1.29%
Mn 257.610†	106642.8	4.133	mg/L	0.0379	8.265 mg/L	0.0758	0.92%
Mo 202.031†	127.2	0.00808	mg/L	0.000153	0.01617 mg/L	0.000305	1.89%
Na 589.592†	15344.5	1.393	mg/L	0.0116	2.787 mg/L	0.0233	0.83%
Na 330.237†	36.0	2.314	mg/L	0.2113	4.628 mg/L	0.4225	9.13%
Ni 231.604†	473.9	0.3634	mg/L	0.00163	0.7269 mg/L	0.00327	0.45%
Pb 220.353†	13713.8	2.400	mg/L	0.0197	4.800 mg/L	0.0395	0.82%
Sb 206.836†	39.2	0.02240	mg/L	0.000573	0.04480 mg/L	0.001146	2.56%
Se 196.026†	37.0	0.03132	mg/L	0.006382	0.06264 mg/L	0.012765	20.38%
Si 288.158†	9455.8	7.519	mg/L	0.0923	15.04 mg/L	0.185	1.23%
Sn 189.927†	72.0	0.02832	mg/L	0.001585	0.05665 mg/L	0.003170	5.60%
Sr 421.552†	169826.0	0.2904	mg/L	0.00318	0.5809 mg/L	0.00635	1.09%
Ti 334.903†	127261.1	6.592	mg/L	0.0684	13.18 mg/L	0.137	1.04%
Tl 190.801†	-29.9	0.00993	mg/L	0.001990	0.01987 mg/L	0.003979	20.03%
V 292.402†	33056.6	0.3560	mg/L	0.00347	0.7119 mg/L	0.00695	0.98%
Zn 206.200†	2050.4	4.512	mg/L	0.0533	9.023 mg/L	0.1065	1.18%

Sequence No.: 7
 Sample ID: RG79 L SWC

Autosampler Location: 307
 Date Collected: 8/12/2010 2:56:43 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 L SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 L SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1863137.3	111.3	%	0.85			0.77%
ScR 361.383	330434.4	121.6	%	1.08			0.89%
Ag 328.068†	-31.3	-0.00041	mg/L	0.000099	-0.00082 mg/L	0.000197	24.00%
Al 308.215†	179111.5	161.2	mg/L	1.99	322.4 mg/L	3.99	1.24%
As 188.979†	-132.8	0.02060	mg/L	0.004089	0.04120 mg/L	0.008179	19.85%
B 249.677†	45.0	0.01454	mg/L	0.001960	0.02907 mg/L	0.003920	13.48%
Ba 233.527†	1814.0	0.6673	mg/L	0.00536	1.335 mg/L	0.0107	0.80%
Be 313.042†	1132.1	0.00204	mg/L	0.000063	0.00408 mg/L	0.000125	3.07%
Ca 317.933†	377919.7	32.51	mg/L	0.365	65.02 mg/L	0.730	1.12%
Cd 228.802†	54.3	0.00358	mg/L	0.000175	0.00715 mg/L	0.000350	4.90%
Co 228.616†	2054.7	0.07105	mg/L	0.000970	0.1421 mg/L	0.00194	1.36%
Cr 267.716†	1192.4	0.2714	mg/L	0.00314	0.5428 mg/L	0.00629	1.16%
Cu 324.752†	40239.5	0.1611	mg/L	0.00212	0.3221 mg/L	0.00424	1.32%
Fe 273.955†	150655.2	162.6	mg/L	1.77	325.1 mg/L	3.53	1.09%
K 766.490†	7028.6	5.060	mg/L	0.0716	10.12 mg/L	0.143	1.42%
Mg 279.077†	37052.0	49.02	mg/L	0.473	98.05 mg/L	0.945	0.96%
Mn 257.610†	75672.0	2.932	mg/L	0.0304	5.864 mg/L	0.0608	1.04%
Mo 202.031†	63.8	0.00380	mg/L	0.000425	0.00761 mg/L	0.000849	11.17%
Na 589.592†	10893.9	0.9892	mg/L	0.01123	1.978 mg/L	0.0225	1.14%
Na 330.237†	-9.6	1.823	mg/L	0.0725	3.645 mg/L	0.1451	3.98%
Ni 231.604†	454.5	0.3486	mg/L	0.00258	0.6972 mg/L	0.00516	0.74%
Pb 220.353†	1053.4	0.1996	mg/L	0.00202	0.3992 mg/L	0.00403	1.01%
Sb 206.836†	20.0	0.01642	mg/L	0.002324	0.03284 mg/L	0.004648	14.15%
Se 196.026†	32.3	0.02725	mg/L	0.005089	0.05451 mg/L	0.010179	18.67%
Si 288.158†	10073.9	8.011	mg/L	0.0999	16.02 mg/L	0.200	1.25%
Sn 189.927†	-20.2	-0.00167	mg/L	0.001211	-0.00334 mg/L	0.002423	72.52%
Sr 421.552†	107168.2	0.1833	mg/L	0.00164	0.3665 mg/L	0.00327	0.89%
Ti 334.903†	146170.5	7.572	mg/L	0.0771	15.14 mg/L	0.154	1.02%
Tl 190.801†	-27.2	0.00668	mg/L	0.001783	0.01337 mg/L	0.003566	26.67%
V 292.402†	35432.2	0.3849	mg/L	0.00512	0.7698 mg/L	0.01024	1.33%
Zn 206.200†	189.6	0.4129	mg/L	0.00371	0.8259 mg/L	0.00742	0.90%

Method: 7300bcESI2FAST

Sequence No.: 8
Sample ID: RG79 M SWCAutosampler Location: 308
Date Collected: 8/12/2010 3:00:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 M SWC
Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG79 M SWC		Calib.	Std.Dev.	Sample	Std.Dev.	RSD
Analyte	Mean Corrected Intensity	Conc. Units		Conc. Units		
SCA 357.253	1877448.7	112.1 %	0.33			0.30%
ScR 361.383	334340.9	123.1 %	0.28		0.000312	0.23%
Ag 328.068†	7.9	-0.00017 mg/L	0.000156	-0.00035 mg/L	2.61	90.37%
Al 308.215†	185764.0	167.2 mg/L	1.30	334.3 mg/L	0.008170	0.78%
As 188.979†	-144.8	0.03329 mg/L	0.004085	0.06659 mg/L	0.001372	12.27%
B 249.677†	50.1	0.01619 mg/L	0.000686	0.03238 mg/L	0.00089	4.24%
Ba 233.527†	1979.7	0.7260 mg/L	0.00447	1.452 mg/L	0.000068	0.62%
Be 313.042†	1285.5	0.00232 mg/L	0.000034	0.00465 mg/L	0.493	1.47%
Ca 317.933†	519674.5	44.70 mg/L	0.247	89.40 mg/L	0.000332	0.55%
Cd 228.802†	99.2	0.00608 mg/L	0.000166	0.01216 mg/L	0.00082	2.73%
Co 228.616†	2224.9	0.07549 mg/L	0.000412	0.1510 mg/L	0.000270	0.55%
Cr 267.716†	1369.7	0.3122 mg/L	0.00135	0.6244 mg/L	0.00270	0.43%
Cu 324.752†	44098.3	0.1778 mg/L	0.00025	0.3557 mg/L	0.00050	0.14%
Fe 273.955†	186334.6	201.1 mg/L	1.27	402.1 mg/L	2.54	0.63%
K 766.490†	7987.3	5.750 mg/L	0.0239	11.50 mg/L	0.048	0.42%
Mg 279.077†	43248.1	57.22 mg/L	0.356	114.4 mg/L	0.71	0.62%
Mn 257.610†	82980.0	3.215 mg/L	0.0179	6.430 mg/L	0.0358	0.56%
Mo 202.031†	142.4	0.00897 mg/L	0.000408	0.01794 mg/L	0.000815	4.54%
Na 589.592†	14285.6	1.297 mg/L	0.0130	2.594 mg/L	0.0260	1.00%
Na 330.237†	-4.6	2.395 mg/L	0.1598	4.791 mg/L	0.3196	6.67%
Ni 231.604†	490.6	0.3763 mg/L	0.00118	0.7525 mg/L	0.00236	0.31%
Pb 220.353†	1846.2	0.3360 mg/L	0.00120	0.6719 mg/L	0.00240	0.36%
Sb 206.836†	23.4	0.01924 mg/L	0.003716	0.03848 mg/L	0.007433	19.32%
Se 196.026†	42.0	0.03532 mg/L	0.005056	0.07063 mg/L	0.010113	14.32%
Si 288.158†	9433.0	7.501 mg/L	0.0435	15.00 mg/L	0.087	0.58%
Sn 189.927†	-11.3	0.00243 mg/L	0.001036	0.00486 mg/L	0.002072	42.60%
Sr 421.552†	115554.7	0.1976 mg/L	0.00132	0.3952 mg/L	0.00265	0.67%
Ti 334.903†	171308.3	8.874 mg/L	0.0605	17.75 mg/L	0.121	0.68%
Tl 190.801†	-41.3	0.00248 mg/L	0.002381	0.00495 mg/L	0.004763	96.16%
V 292.402†	38810.0	0.4189 mg/L	0.00137	0.8377 mg/L	0.00274	0.33%
Zn 206.200†	282.6	0.6178 mg/L	0.00690	1.236 mg/L	0.0138	1.12%

RG79: 01577

Sequence No.: 9
Sample ID: RG79 REF1 SWC

Autosampler Location: 309
Date Collected: 8/12/2010 3:04:23 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 REF1 SWC
Analyte Back Pressure Flow
All 193.0 kPa 0.75 L/min

Mean Data: RG79 REF1 SWC

Analyte	Mean Corrected		Calib.		Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Conc.		Units			
ScA 357.253	1865207.4	111.4	%	0.84					0.76%
ScR 361.383	327990.2	120.7	%	0.54					0.45%
Ag 328.068†	154939.4	0.9483	mg/L	0.01459	1.897	mg/L	0.0292		1.54%
Al 308.215†	82797.3	74.50	mg/L	0.750	149.0	mg/L	1.50		1.01%
As 188.979†	1194.2	1.073	mg/L	0.0085	2.146	mg/L	0.0170		0.79%
B 249.677†	2814.4	0.9216	mg/L	0.00470	1.843	mg/L	0.0094		0.51%
Ba 233.527†	6698.6	2.510	mg/L	0.0060	5.020	mg/L	0.0120		0.24%
Be 313.042†	347600.2	0.7171	mg/L	0.00731	1.434	mg/L	0.0146		1.02%
Ca 317.933†	378622.1	32.57	mg/L	0.318	65.14	mg/L	0.636		0.98%
Cd 228.802†	10568.1	0.5744	mg/L	0.00485	1.149	mg/L	0.0097		0.85%
Co 228.616†	14776.8	0.6133	mg/L	0.00576	1.227	mg/L	0.0115		0.94%
Cr 267.716†	2609.9	0.5948	mg/L	0.00173	1.190	mg/L	0.0035		0.29%
Cu 324.752†	135758.7	0.5243	mg/L	0.00708	1.049	mg/L	0.0142		1.35%
Fe 273.955†	108578.1	117.2	mg/L	1.11	234.3	mg/L	2.21		0.94%
K 766.490†	41899.2	30.16	mg/L	0.313	60.32	mg/L	0.626		1.04%
Mg 279.077†	16326.6	21.58	mg/L	0.228	43.16	mg/L	0.456		1.06%
Mn 257.610†	87347.7	3.385	mg/L	0.0274	6.770	mg/L	0.0548		0.81%
Mo 202.031†	5578.5	0.3810	mg/L	0.00309	0.7620	mg/L	0.00618		0.81%
Na 589.592†	45174.9	4.102	mg/L	0.0275	8.204	mg/L	0.0550		0.67%
Na 330.237†	121.1	5.001	mg/L	0.1241	10.00	mg/L	0.248		2.48%
Ni 231.604†	584.1	0.4482	mg/L	0.00368	0.8964	mg/L	0.00736		0.82%
Pb 220.353†	6064.4	1.061	mg/L	0.0096	2.121	mg/L	0.0192		0.91%
Sb 206.836†	861.3	0.3724	mg/L	0.00374	0.7447	mg/L	0.00747		1.00%
Se 196.026†	1473.8	1.343	mg/L	0.0088	2.685	mg/L	0.0177		0.66%
Si 288.158†	12148.0	9.662	mg/L	0.1043	19.32	mg/L	0.209		1.08%
Sn 189.927†	4907.4	1.614	mg/L	0.0146	3.228	mg/L	0.0291		0.90%
Sr 421.552†	265387.9	0.4539	mg/L	0.00411	0.9077	mg/L	0.00821		0.91%
Ti 334.903†	40791.7	2.111	mg/L	0.0187	4.222	mg/L	0.0373		0.88%
Tl 190.801†	1517.4	1.117	mg/L	0.0125	2.234	mg/L	0.0249		1.12%
V 292.402†	58669.9	0.6604	mg/L	0.00898	1.321	mg/L	0.0180		1.36%
Zn 206.200†	661.3	1.454	mg/L	0.0012	2.908	mg/L	0.0024		0.08%

Sequence No.: 10
 Sample ID: RG79 MB1SPK SWC

Autosampler Location: 310
 Date Collected: 8/12/2010 3:08:07 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 MB1SPK SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 MB1SPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1838310.2	109.8	%	0.95				0.87%
ScR 361.383	327374.4	120.5	%	0.47				0.39%
Ag 328.068†	84122.2	0.5151	mg/L	0.00359	1.030	mg/L	0.0072	0.70%
Al 308.215†	2332.9	2.090	mg/L	0.0178	4.180	mg/L	0.0356	0.85%
As 188.979†	2447.6	2.124	mg/L	0.0140	4.247	mg/L	0.0280	0.66%
B 249.677†	14.2	0.00337	mg/L	0.000221	0.00674	mg/L	0.000442	6.56%
Ba 233.527†	5244.0	1.973	mg/L	0.0037	3.946	mg/L	0.0073	0.19%
Be 313.042†	240009.2	0.4951	mg/L	0.00338	0.9902	mg/L	0.00677	0.68%
Ca 317.933†	117592.1	10.11	mg/L	0.059	20.23	mg/L	0.117	0.58%
Cd 228.802†	9541.4	0.5146	mg/L	0.00399	1.029	mg/L	0.0080	0.78%
Co 228.616†	12170.2	0.5092	mg/L	0.00358	1.018	mg/L	0.0072	0.70%
Cr 267.716†	2233.8	0.5060	mg/L	0.00174	1.012	mg/L	0.0035	0.34%
Cu 324.752†	123836.0	0.4719	mg/L	0.00296	0.9437	mg/L	0.00593	0.63%
Fe 273.955†	1971.0	2.124	mg/L	0.0168	4.248	mg/L	0.0336	0.79%
K 766.490†	14802.2	10.66	mg/L	0.094	21.31	mg/L	0.188	0.88%
Mg 279.077†	7692.1	10.19	mg/L	0.057	20.39	mg/L	0.114	0.56%
Mn 257.610†	12061.2	0.4678	mg/L	0.00170	0.9356	mg/L	0.00341	0.36%
Mo 202.031†	19.7	0.00118	mg/L	0.000599	0.00235	mg/L	0.001198	50.97%
Na 589.592†	99651.5	9.049	mg/L	0.0393	18.10	mg/L	0.079	0.43%
Na 330.237†	289.1	10.85	mg/L	0.113	21.70	mg/L	0.226	1.04%
Ni 231.604†	659.3	0.5056	mg/L	0.00479	1.011	mg/L	0.0096	0.95%
Pb 220.353†	11702.9	2.037	mg/L	0.0155	4.075	mg/L	0.0309	0.76%
Sb 206.836†	4.4	-0.00180	mg/L	0.000846	-0.00360	mg/L	0.001691	47.04%
Se 196.026†	2306.6	2.104	mg/L	0.0160	4.208	mg/L	0.0320	0.76%
Si 288.158†	-0.7	0.00127	mg/L	0.002061	0.00254	mg/L	0.004122	162.08%
Sn 189.927†	-8.8	-0.00242	mg/L	0.000484	-0.00484	mg/L	0.000969	20.02%
Sr 421.552†	294276.7	0.5033	mg/L	0.00465	1.007	mg/L	0.0093	0.92%
Ti 334.903†	65.0	0.00264	mg/L	0.000569	0.00528	mg/L	0.001138	21.54%
Tl 190.801†	2856.4	2.065	mg/L	0.0174	4.130	mg/L	0.0347	0.84%
V 292.402†	44603.0	0.5120	mg/L	0.00304	1.024	mg/L	0.0061	0.59%
Zn 206.200†	235.4	0.5183	mg/L	0.00625	1.037	mg/L	0.0125	1.21%

Sequence No.: 11
 Sample ID: CV *4*

Autosampler Location: 7
 Date Collected: 8/12/2010 3:12:19 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1811716.0	108.2 %	0.56			0.52%
ScR 361.383	318623.7	117.3 %	1.24			1.06%
Ag 328.068†	166652.2	1.020 mg/L	0.0036	1.020 mg/L	0.0036	0.36%
Al 308.215†	2357.3	2.089 mg/L	0.0218	2.089 mg/L	0.0218	1.04%
As 188.979†	2407.7	2.106 mg/L	0.0107	2.106 mg/L	0.0107	0.51%
B 249.677†	2977.5	0.9746 mg/L	0.00661	0.9746 mg/L	0.00661	0.68%
Ba 233.527†	2651.8	0.9973 mg/L	0.01078	0.9973 mg/L	0.01078	1.08%
Be 313.042†	481569.8	0.9934 mg/L	0.00784	0.9934 mg/L	0.00784	0.79%
Ca 317.933†	25197.7	2.167 mg/L	0.0200	2.167 mg/L	0.0200	0.92%
Cd 228.802†	19379.4	1.053 mg/L	0.0060	1.053 mg/L	0.0060	0.57%
Co 228.616†	24871.6	1.040 mg/L	0.0034	1.040 mg/L	0.0034	0.33%
Cr 267.716†	4536.8	1.030 mg/L	0.0104	1.030 mg/L	0.0104	1.01%
Cu 324.752†	265508.0	1.011 mg/L	0.0034	1.011 mg/L	0.0034	0.34%
Fe 273.955†	1902.4	2.047 mg/L	0.0226	2.047 mg/L	0.0226	1.10%
K 766.490†	30263.8	21.79 mg/L	0.195	21.79 mg/L	0.195	0.89%
Mg 279.077†	1583.3	2.104 mg/L	0.0253	2.104 mg/L	0.0253	1.20%
Mn 257.610†	24692.9	0.9573 mg/L	0.00686	0.9573 mg/L	0.00686	0.72%
Mo 202.031†	15005.7	1.026 mg/L	0.0034	1.026 mg/L	0.0034	0.33%
Na 589.592†	507059.7	46.04 mg/L	0.323	46.04 mg/L	0.323	0.70%
Na 330.237†	1412.6	53.36 mg/L	0.615	53.36 mg/L	0.615	1.15%
Ni 231.604†	1348.2	1.035 mg/L	0.0149	1.035 mg/L	0.0149	1.44%
Pb 220.353†	12017.3	2.093 mg/L	0.0078	2.093 mg/L	0.0078	0.37%
Sb 206.836†	5114.0	2.113 mg/L	0.0053	2.113 mg/L	0.0053	0.25%
Se 196.026†	2279.0	2.079 mg/L	0.0083	2.079 mg/L	0.0083	0.40%
Si 288.158†	2648.0	2.109 mg/L	0.0349	2.109 mg/L	0.0349	1.66%
Sn 189.927†	3138.5	1.032 mg/L	0.0036	1.032 mg/L	0.0036	0.35%
Sr 421.552†	599462.0	1.025 mg/L	0.0083	1.025 mg/L	0.0083	0.81%
Ti 334.903†	19868.2	1.028 mg/L	0.0055	1.028 mg/L	0.0055	0.53%
Tl 190.801†	2877.0	2.082 mg/L	0.0096	2.082 mg/L	0.0096	0.46%
V 292.402†	89449.8	1.027 mg/L	0.0017	1.027 mg/L	0.0017	0.16%
Zn 206.200†	480.3	1.057 mg/L	0.0120	1.057 mg/L	0.0120	1.14%

Sequence No.: 12
Sample ID: CB
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/12/2010 3:16:33 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1834635.1	109.6	%	0.85			0.78%
ScR 361.383	324035.7	119.3	%	0.34			0.28%
Ag 328.068†	20.1	0.00012	mg/L	0.000217	0.00012 mg/L	0.000217	176.60%
Al 308.215†	14.8	0.01334	mg/L	0.003567	0.01334 mg/L	0.003567	26.73%
As 188.979†	3.3	0.00284	mg/L	0.003216	0.00284 mg/L	0.003216	113.29%
B 249.677†	14.7	0.00482	mg/L	0.003035	0.00482 mg/L	0.003035	62.91%
Ba 233.527†	-0.3	-0.00012	mg/L	0.000971	-0.00012 mg/L	0.000971	834.00%
Be 313.042†	30.9	0.00006	mg/L	0.000052	0.00006 mg/L	0.000052	81.09%
Ca 317.933†	23.2	0.00199	mg/L	0.002024	0.00199 mg/L	0.002024	101.47%
Cd 228.802†	6.8	0.00036	mg/L	0.000191	0.00036 mg/L	0.000191	53.02%
Co 228.616†	3.3	0.00014	mg/L	0.000313	0.00014 mg/L	0.000313	228.26%
Cr 267.716†	3.1	0.00071	mg/L	0.000359	0.00071 mg/L	0.000359	50.56%
Cu 324.752†	-75.1	-0.00029	mg/L	0.000310	-0.00029 mg/L	0.000310	107.98%
Fe 273.955†	0.7	0.00076	mg/L	0.000998	0.00076 mg/L	0.000998	131.93%
K 766.490†	-0.9	-0.00062	mg/L	0.042791	-0.00062 mg/L	0.042791	>999.9%
Mg 279.077†	4.8	0.00638	mg/L	0.012174	0.00638 mg/L	0.012174	190.66%
Mn 257.610†	-1.1	-0.00004	mg/L	0.000092	-0.00004 mg/L	0.000092	207.76%
Mo 202.031†	17.4	0.00119	mg/L	0.000402	0.00119 mg/L	0.000402	33.87%
Na 589.592†	-152.0	-0.01380	mg/L	0.003262	-0.01380 mg/L	0.003262	23.63%
Na 330.237†	13.8	0.5229	mg/L	0.13906	0.5229 mg/L	0.13906	26.60%
Ni 231.604†	-0.3	-0.00025	mg/L	0.000485	-0.00025 mg/L	0.000485	191.61%
Pb 220.353†	5.9	0.00103	mg/L	0.000588	0.00103 mg/L	0.000588	57.10%
Sb 206.836†	0.7	0.00029	mg/L	0.000499	0.00029 mg/L	0.000499	173.52%
Se 196.026†	3.8	0.00343	mg/L	0.001901	0.00343 mg/L	0.001901	55.49%
Si 288.158†	-5.9	-0.00468	mg/L	0.002335	-0.00468 mg/L	0.002335	49.88%
Sn 189.927†	2.4	0.00080	mg/L	0.000268	0.00080 mg/L	0.000268	33.62%
Sr 421.552†	36.8	0.00006	mg/L	0.000110	0.00006 mg/L	0.000110	174.39%
Ti 334.903†	15.7	0.00081	mg/L	0.000506	0.00081 mg/L	0.000506	62.47%
Tl 190.801†	1.7	0.00124	mg/L	0.003207	0.00124 mg/L	0.003207	259.67%
V 292.402†	1.6	0.00002	mg/L	0.000140	0.00002 mg/L	0.000140	638.44%
Zn 206.200†	-0.3	-0.00076	mg/L	0.003263	-0.00076 mg/L	0.003263	430.30%

Sequence No.: 13
 Sample ID: RG79 EDUP SWC

Autosampler Location: 311
 Date Collected: 8/12/2010 3:20:45 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 EDUP SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 EDUP SWC				Sample			
Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD	
ScA 357.253	1856035.4	110.8 %	0.44			0.39%	
ScR 361.383	329444.1	121.3 %	0.34			0.28%	
Ag 328.068†	110.9	0.00045 mg/L	0.000184	0.00090 mg/L	0.000368	40.78%	
Al 308.215†	176963.7	159.3 mg/L	0.70	318.5 mg/L	1.40	0.44%	
As 188.979†	-47.3	0.08954 mg/L	0.002166	0.1791 mg/L	0.00433	2.42%	
B 249.677†	46.6	0.01499 mg/L	0.001463	0.02999 mg/L	0.002926	9.76%	
Ba 233.527†	11974.5	4.485 mg/L	0.0092	8.971 mg/L	0.0184	0.21%	
Be 313.042†	1201.1	0.00218 mg/L	0.000025	0.00435 mg/L	0.000050	1.14%	
Ca 317.933†	603995.6	51.95 mg/L	0.609	103.9 mg/L	1.22	1.17%	
Cd 228.802†	391.7	0.02174 mg/L	0.000206	0.04348 mg/L	0.000412	0.95%	
Co 228.616†	2863.1	0.1038 mg/L	0.00070	0.2076 mg/L	0.00140	0.68%	
Cr 267.716†	2303.8	0.5258 mg/L	0.00342	1.052 mg/L	0.0068	0.65%	
Cu 324.752†	134160.3	0.5235 mg/L	0.00207	1.047 mg/L	0.0041	0.40%	
Fe 273.955†	210917.3	227.6 mg/L	2.12	455.2 mg/L	4.24	0.93%	
K 766.490†	12021.6	8.654 mg/L	0.0750	17.31 mg/L	0.150	0.87%	
Mg 279.077†	41849.7	55.35 mg/L	0.465	110.7 mg/L	0.93	0.84%	
Mn 257.610†	76298.9	2.960 mg/L	0.0299	5.919 mg/L	0.0599	1.01%	
Mo 202.031†	188.4	0.01199 mg/L	0.000855	0.02397 mg/L	0.001709	7.13%	
Na 589.592†	34157.6	3.102 mg/L	0.0190	6.203 mg/L	0.0380	0.61%	
Na 330.237†	63.4	3.793 mg/L	0.1488	7.586 mg/L	0.2975	3.92%	
Ni 231.604†	409.3	0.3140 mg/L	0.00172	0.6280 mg/L	0.00343	0.55%	
Pb 220.353†	77454.6	13.49 mg/L	0.045	26.98 mg/L	0.091	0.34%	
Sb 206.836†	408.5	0.1773 mg/L	0.00310	0.3546 mg/L	0.00620	1.75%	
Se 196.026†	39.5	0.03248 mg/L	0.001201	0.06495 mg/L	0.002401	3.70%	
Si 288.158†	5190.6	4.128 mg/L	0.0152	8.255 mg/L	0.0304	0.37%	
Sn 189.927†	962.9	0.3220 mg/L	0.00163	0.6441 mg/L	0.00326	0.51%	
Sr 421.552†	263950.8	0.4514 mg/L	0.00197	0.9028 mg/L	0.00395	0.44%	
Ti 334.903†	141417.9	7.324 mg/L	0.0591	14.65 mg/L	0.118	0.81%	
Tl 190.801†	-49.6	0.00012 mg/L	0.004251	0.00024 mg/L	0.008503	>999.9%	
V 292.402†	37448.9	0.4022 mg/L	0.00145	0.8044 mg/L	0.00291	0.36%	
Zn 206.200†	1772.1	3.899 mg/L	0.0129	7.799 mg/L	0.0259	0.33%	

Sequence No.: 14
Sample ID: RG79 E SWC

Autosampler Location: 312
Date Collected: 8/12/2010 3:24:44 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 E SWC

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG79 E SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1861643.7	111.2	%	0.17			0.15%
ScR 361.383	333226.2	122.7	%	0.71			0.57%
Ag 328.068†	-13.3	-0.00021	mg/L	0.000169	-0.00042 mg/L	0.000339	80.20%
Al 308.215†	213026.5	191.7	mg/L	1.47	383.4 mg/L	2.93	0.77%
As 188.979†	-137.3	0.02599	mg/L	0.005185	0.05199 mg/L	0.010370	19.95%
B 249.677†	58.9	0.01907	mg/L	0.001366	0.03813 mg/L	0.002731	7.16%
Ba 233.527†	4917.8	1.831	mg/L	0.0107	3.662 mg/L	0.0214	0.58%
Be 313.042†	1337.6	0.00241	mg/L	0.000012	0.00481 mg/L	0.000024	0.49%
Ca 317.933†	653879.9	56.24	mg/L	0.546	112.5 mg/L	1.09	0.97%
Cd 228.802†	204.9	0.01178	mg/L	0.000115	0.02356 mg/L	0.000231	0.98%
Co 228.616†	2456.8	0.08620	mg/L	0.000572	0.1724 mg/L	0.00114	0.66%
Cr 267.716†	1568.1	0.3572	mg/L	0.00121	0.7144 mg/L	0.00242	0.34%
Cu 324.752†	85182.9	0.3350	mg/L	0.00081	0.6700 mg/L	0.00163	0.24%
Fe 273.955†	191328.4	206.5	mg/L	1.66	412.9 mg/L	3.32	0.80%
K 766.490†	18707.7	13.47	mg/L	0.093	26.93 mg/L	0.186	0.69%
Mg 279.077†	43843.5	58.00	mg/L	0.519	116.0 mg/L	1.04	0.90%
Mn 257.610†	69427.9	2.690	mg/L	0.0184	5.380 mg/L	0.0368	0.68%
Mo 202.031†	163.0	0.01018	mg/L	0.000162	0.02035 mg/L	0.000325	1.60%
Na 589.592†	42059.6	3.819	mg/L	0.0212	7.638 mg/L	0.0425	0.56%
Na 330.237†	71.3	4.881	mg/L	0.1054	9.763 mg/L	0.2107	2.16%
Ni 231.604†	375.9	0.2883	mg/L	0.00241	0.5766 mg/L	0.00483	0.84%
Pb 220.353†	7042.6	1.244	mg/L	0.0022	2.488 mg/L	0.0044	0.18%
Sb 206.836†	33.5	0.02221	mg/L	0.000859	0.04443 mg/L	0.001717	3.86%
Se 196.026†	45.8	0.03795	mg/L	0.004690	0.07591 mg/L	0.009379	12.36%
Si 288.158†	8780.5	6.982	mg/L	0.0386	13.96 mg/L	0.077	0.55%
Sn 189.927†	13.5	0.01077	mg/L	0.000729	0.02155 mg/L	0.001458	6.76%
Sr 421.552†	315314.5	0.5392	mg/L	0.00417	1.078 mg/L	0.0083	0.77%
Ti 334.903†	156933.4	8.128	mg/L	0.0607	16.26 mg/L	0.121	0.75%
Tl 190.801†	-26.2	0.01360	mg/L	0.008534	0.02720 mg/L	0.017068	62.74%
V 292.402†	44363.4	0.4823	mg/L	0.00171	0.9647 mg/L	0.00342	0.35%
Zn 206.200†	744.7	1.635	mg/L	0.0014	3.269 mg/L	0.0027	0.08%

Sequence No.: 15
Sample ID: RG79 ESPK SWC

Autosampler Location: 313
Date Collected: 8/12/2010 3:28:42 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 ESPK SWC

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG79 ESPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1850673.1	110.5 %	0.31			0.28%
ScR 361.383	325596.4	119.9 %	0.70			0.58%
Ag 328.068†	78159.8	0.4784 mg/L	0.00232	0.9569 mg/L	0.00464	0.48%
Al 308.215†	194930.9	175.4 mg/L	0.88	350.8 mg/L	1.75	0.50%
As 188.979†	2159.0	2.027 mg/L	0.0089	4.054 mg/L	0.0178	0.44%
B 249.677†	70.4	0.02165 mg/L	0.001977	0.04330 mg/L	0.003954	9.13%
Ba 233.527†	8965.9	3.354 mg/L	0.0264	6.709 mg/L	0.0528	0.79%
Be 313.042†	240493.0	0.4958 mg/L	0.00426	0.9915 mg/L	0.00853	0.86%
Ca 317.933†	822799.6	70.77 mg/L	0.619	141.5 mg/L	1.24	0.88%
Cd 228.802†	9756.5	0.5274 mg/L	0.00156	1.055 mg/L	0.0031	0.30%
Co 228.616†	14445.7	0.5870 mg/L	0.00263	1.174 mg/L	0.0053	0.45%
Cr 267.716†	4649.3	1.056 mg/L	0.0063	2.112 mg/L	0.0126	0.60%
Cu 324.752†	221925.0	0.8558 mg/L	0.00125	1.712 mg/L	0.0025	0.15%
Fe 273.955†	192192.3	207.4 mg/L	1.39	414.8 mg/L	2.78	0.67%
K 766.490†	26185.0	18.85 mg/L	0.123	37.70 mg/L	0.246	0.65%
Mg 279.077†	49905.4	66.03 mg/L	0.470	132.1 mg/L	0.94	0.71%
Mn 257.610†	88703.3	3.438 mg/L	0.0292	6.875 mg/L	0.0583	0.85%
Mo 202.031†	1404.7	0.09485 mg/L	0.000813	0.1897 mg/L	0.00163	0.86%
Na 589.592†	138958.4	12.62 mg/L	0.066	25.24 mg/L	0.133	0.53%
Na 330.237†	334.3	14.87 mg/L	0.174	29.74 mg/L	0.349	1.17%
Ni 231.604†	1057.7	0.8112 mg/L	0.00682	1.622 mg/L	0.0136	0.84%
Pb 220.353†	19918.0	3.483 mg/L	0.0143	6.966 mg/L	0.0287	0.41%
Sb 206.836†	48.5	0.02326 mg/L	0.001825	0.04653 mg/L	0.003649	7.84%
Se 196.026†	2182.2	1.986 mg/L	0.0103	3.973 mg/L	0.0206	0.52%
Si 288.158†	6830.3	5.433 mg/L	0.0427	10.87 mg/L	0.085	0.79%
Sn 189.927†	10.8	0.01079 mg/L	0.001077	0.02157 mg/L	0.002154	9.98%
Sr 421.552†	538290.4	0.9206 mg/L	0.00634	1.841 mg/L	0.0127	0.69%
Ti 334.903†	166810.2	8.639 mg/L	0.0581	17.28 mg/L	0.116	0.67%
Tl 190.801†	2672.9	1.965 mg/L	0.0123	3.931 mg/L	0.0246	0.63%
V 292.402†	85304.4	0.9532 mg/L	0.00285	1.906 mg/L	0.0057	0.30%
Zn 206.200†	1055.7	2.320 mg/L	0.0206	4.640 mg/L	0.0413	0.89%

Analysis Begun

Start Time: 8/12/2010 3:35:53 PM
Logged In Analyst: metals
Spectrometer Model: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 8/12/2010 8:37:11 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0812B.sif
Batch ID:
Results Data Set: I2100812
Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1
Sample ID: RG79 EDUP SWC

Autosampler Location: 301
Date Collected: 8/12/2010 3:35:54 PM
Data Type: Original

Dilution: 2X

DEL Confirms orig

Nebulizer Parameters: RG79 EDUP SWC
Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG79 EDUP SWC

Table with 8 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective intensity, concentration, and RSD values.

User canceled analysis.

=====
Analysis Begun

Start Time: 8/12/2010 3:40:29 PM Plasma On Time: 8/12/2010 8:37:11 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\0812B.sif
Batch ID:
Results Data Set: I2100812
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 2 Autosampler Location: 314
Sample ID: RG79 N SWC Date Collected: 8/12/2010 3:40:30 PM
Data Type: Original
Dilution: 2X

Nebulizer Parameters: RG79 N SWC
Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: RG79 N SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1859154.3	111.0 %	1.12			1.01%
ScR 361.383	332118.8	122.3 %	1.57			1.28%
Ag 328.068†	-66.3	-0.00062 mg/L	0.000012	-0.00123 mg/L	0.000024	1.93%
Al 308.215†	165755.1	149.2 mg/L	1.09	298.3 mg/L	2.18	0.73%
As 188.979†	-144.7	0.02236 mg/L	0.001952	0.04473 mg/L	0.003905	8.73%
B 249.677†	40.5	0.01303 mg/L	0.001336	0.02606 mg/L	0.002672	10.26%
Ba 233.527†	1918.0	0.7040 mg/L	0.01027	1.408 mg/L	0.0205	1.46%
Be 313.042†	1040.9	0.00183 mg/L	0.000030	0.00365 mg/L	0.000060	1.66%
Ca 317.933†	500053.6	43.01 mg/L	0.248	86.03 mg/L	0.497	0.58%
Cd 228.802†	94.8	0.00582 mg/L	0.000124	0.01164 mg/L	0.000247	2.12%
Co 228.616†	2410.5	0.08447 mg/L	0.001627	0.1689 mg/L	0.00325	1.93%
Cr 267.716†	1451.5	0.3305 mg/L	0.00346	0.6610 mg/L	0.00691	1.05%
Cu 324.752†	57716.8	0.2291 mg/L	0.00283	0.4582 mg/L	0.00566	1.24%
Fe 273.955†	174245.0	188.0 mg/L	1.36	376.0 mg/L	2.71	0.72%
K 766.490†	8376.1	6.030 mg/L	0.0466	12.06 mg/L	0.093	0.77%
Mg 279.077†	41449.2	54.84 mg/L	0.327	109.7 mg/L	0.65	0.60%
Mn 257.610†	78725.8	3.050 mg/L	0.0277	6.101 mg/L	0.0554	0.91%
Mo 202.031†	109.0	0.00671 mg/L	0.000139	0.01343 mg/L	0.000278	2.07%
Na 589.592†	15625.8	1.419 mg/L	0.0149	2.838 mg/L	0.0298	1.05%
Na 330.237†	-3.8	2.216 mg/L	0.1069	4.431 mg/L	0.2139	4.83%
Ni 231.604†	453.4	0.3477 mg/L	0.00600	0.6954 mg/L	0.01201	1.73%
Pb 220.353†	2314.2	0.4153 mg/L	0.00394	0.8305 mg/L	0.00788	0.95%
Sb 206.836†	24.0	0.01888 mg/L	0.002632	0.03777 mg/L	0.005264	13.94%
Se 196.026†	32.9	0.02709 mg/L	0.002853	0.05417 mg/L	0.005706	10.53%
Si 288.158†	9334.5	7.423 mg/L	0.0687	14.85 mg/L	0.137	0.93%
Sn 189.927†	93.4	0.03646 mg/L	0.000187	0.07291 mg/L	0.000374	0.51%
Sr 421.552†	128271.6	0.2194 mg/L	0.00160	0.4387 mg/L	0.00320	0.73%
Ti 334.903†	159494.1	8.262 mg/L	0.0623	16.52 mg/L	0.125	0.75%
Tl 190.801†	-42.0	-0.00015 mg/L	0.001226	-0.00030 mg/L	0.002451	805.00%
V 292.402†	38855.7	0.4212 mg/L	0.00510	0.8424 mg/L	0.01019	1.21%
Zn 206.200†	340.9	0.7466 mg/L	0.01112	1.493 mg/L	0.0222	1.49%

Sequence No.: 3
 Sample ID: RG79 O SWC

Autosampler Location: 315
 Date Collected: 8/12/2010 3:44:29 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 O SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 O SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	1880014.0	112.3 %	%	1.36			1.21%
ScR 361.383	333619.8	122.8 %	%	0.62			0.50%
Ag 328.068†	119.8	0.00061 mg/L	mg/L	0.000271	0.00122 mg/L	0.000543	44.51%
Al 308.215†	148141.9	133.3 mg/L	mg/L	1.76	266.6 mg/L	3.52	1.32%
As 188.979†	-93.5	0.04895 mg/L	mg/L	0.002152	0.09790 mg/L	0.004303	4.40%
B 249.677†	68.5	0.02229 mg/L	mg/L	0.000614	0.04458 mg/L	0.001227	2.75%
Ba 233.527†	1721.5	0.6340 mg/L	mg/L	0.00915	1.268 mg/L	0.0183	1.44%
Be 313.042†	1043.9	0.00187 mg/L	mg/L	0.000047	0.00374 mg/L	0.000094	2.52%
Ca 317.933†	457430.3	39.35 mg/L	mg/L	0.530	78.69 mg/L	1.060	1.35%
Cd 228.802†	116.2	0.00680 mg/L	mg/L	0.000265	0.01361 mg/L	0.000531	3.90%
Co 228.616†	1803.2	0.06127 mg/L	mg/L	0.001696	0.1225 mg/L	0.00339	2.77%
Cr 267.716†	1217.9	0.2774 mg/L	mg/L	0.00388	0.5547 mg/L	0.00777	1.40%
Cu 324.752†	58808.1	0.2309 mg/L	mg/L	0.00313	0.4617 mg/L	0.00626	1.36%
Fe 273.955†	134779.9	145.4 mg/L	mg/L	2.35	290.9 mg/L	4.69	1.61%
K 766.490†	7495.2	5.396 mg/L	mg/L	0.0693	10.79 mg/L	0.139	1.28%
Mg 279.077†	30876.4	40.85 mg/L	mg/L	0.559	81.69 mg/L	1.118	1.37%
Mn 257.610†	61175.8	2.371 mg/L	mg/L	0.0399	4.741 mg/L	0.0798	1.68%
Mo 202.031†	144.6	0.00921 mg/L	mg/L	0.000542	0.01842 mg/L	0.001084	5.89%
Na 589.592†	18177.5	1.651 mg/L	mg/L	0.0260	3.301 mg/L	0.0520	1.57%
Na 330.237†	17.1	2.703 mg/L	mg/L	0.2762	5.406 mg/L	0.5524	10.22%
Ni 231.604†	375.1	0.2876 mg/L	mg/L	0.00158	0.5753 mg/L	0.00315	0.55%
Pb 220.353†	8234.7	1.446 mg/L	mg/L	0.0214	2.892 mg/L	0.0428	1.48%
Sb 206.836†	21.1	0.01789 mg/L	mg/L	0.003340	0.03578 mg/L	0.006680	18.67%
Se 196.026†	29.8	0.02454 mg/L	mg/L	0.000588	0.04909 mg/L	0.001175	2.39%
Si 288.158†	8922.8	7.095 mg/L	mg/L	0.1254	14.19 mg/L	0.251	1.77%
Sn 189.927†	383.4	0.1311 mg/L	mg/L	0.00249	0.2621 mg/L	0.00499	1.90%
Sr 421.552†	137021.2	0.2343 mg/L	mg/L	0.00334	0.4687 mg/L	0.00668	1.42%
Ti 334.903†	140334.4	7.269 mg/L	mg/L	0.1080	14.54 mg/L	0.216	1.49%
Tl 190.801†	-24.9	0.00532 mg/L	mg/L	0.003097	0.01064 mg/L	0.006195	58.22%
V 292.402†	34035.6	0.3709 mg/L	mg/L	0.00465	0.7418 mg/L	0.00930	1.25%
Zn 206.200†	346.9	0.7604 mg/L	mg/L	0.01471	1.521 mg/L	0.0294	1.93%

Sequence No.: 4
 Sample ID: RG70 P SWC

Autosampler Location: 316
 Date Collected: 8/12/2010 3:48:29 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG70 P SWC

Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG70 P SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1865294.2	111.4	%	0.26				0.23%
ScR 361.383	337469.7	124.2	%	1.37				1.11%
Ag 328.068†	-86.2	-0.00043	mg/L	0.000098	-0.00086	mg/L	0.000197	22.98%
Al 308.215†	159325.8	143.4	mg/L	0.83	286.7	mg/L	1.67	0.58%
As 188.979†	-179.9	-0.01316	mg/L	0.008575	-0.02631	mg/L	0.017151	65.19%
B 249.677†	50.9	0.01652	mg/L	0.000138	0.03304	mg/L	0.000276	0.84%
Ba 233.527†	1482.2	0.5468	mg/L	0.00685	1.094	mg/L	0.0137	1.25%
Be 313.042†	1131.2	0.00201	mg/L	0.000041	0.00403	mg/L	0.000082	2.04%
Ca 317.933†	422118.5	36.31	mg/L	0.300	72.62	mg/L	0.600	0.83%
Cd 228.802†	32.2	0.00246	mg/L	0.000191	0.00491	mg/L	0.000381	7.76%
Co 228.616†	1709.1	0.05652	mg/L	0.000207	0.1130	mg/L	0.00041	0.37%
Cr 267.716†	2174.4	0.4926	mg/L	0.00539	0.9853	mg/L	0.01077	1.09%
Cu 324.752†	25132.6	0.09996	mg/L	0.000610	0.1999	mg/L	0.00122	0.61%
Fe 273.955†	105808.9	114.2	mg/L	0.71	228.3	mg/L	1.42	0.62%
K 766.490†	7466.4	5.375	mg/L	0.0530	10.75	mg/L	0.106	0.99%
Mg 279.077†	34582.7	45.77	mg/L	0.511	91.55	mg/L	1.021	1.12%
Mn 257.610†	37004.0	1.433	mg/L	0.0200	2.867	mg/L	0.0400	1.40%
Mo 202.031†	71.4	0.00426	mg/L	0.000331	0.00851	mg/L	0.000661	7.77%
Na 589.592†	16331.7	1.483	mg/L	0.0082	2.966	mg/L	0.0165	0.55%
Na 330.237†	4.1	2.520	mg/L	0.1042	5.040	mg/L	0.2083	4.13%
Ni 231.604†	351.9	0.2699	mg/L	0.00494	0.5398	mg/L	0.00989	1.83%
Pb 220.353†	11.2	0.01910	mg/L	0.000584	0.03820	mg/L	0.001167	3.06%
Sb 206.836†	16.1	0.01302	mg/L	0.003580	0.02605	mg/L	0.007161	27.49%
Se 196.026†	33.9	0.02845	mg/L	0.006576	0.05690	mg/L	0.013151	23.11%
Si 288.158†	9318.1	7.410	mg/L	0.0950	14.82	mg/L	0.190	1.28%
Sn 189.927†	-33.4	-0.00562	mg/L	0.000595	-0.01124	mg/L	0.001190	10.59%
Sr 421.552†	137386.5	0.2350	mg/L	0.00133	0.4699	mg/L	0.00266	0.57%
Ti 334.903†	154182.2	7.987	mg/L	0.0451	15.97	mg/L	0.090	0.56%
Tl 190.801†	-18.5	0.00417	mg/L	0.003970	0.00835	mg/L	0.007941	95.13%
V 292.402†	39302.0	0.4348	mg/L	0.00104	0.8696	mg/L	0.00208	0.24%
Zn 206.200†	108.0	0.2338	mg/L	0.00604	0.4676	mg/L	0.01209	2.58%

Autosampler Location: 317
 Date Collected: 8/12/2010 3:52:41 PM
 Data Type: Original

Sequence No.: 5
 Sample ID: RG79 Q SWC

Dilution: 2X

Nebulizer Parameters: RG79 Q SWC
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG79 Q SWC				Sample		RSD	
Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Conc. Units	Std.Dev.		
			0.82				0.74%
ScA 357.253	1874833.2	112.0 %	2.13				1.71%
ScR 361.383	337831.5	124.4 %	0.000115	-0.00071 mg/L	0.000230		32.37%
Ag 328.068†	-76.4	-0.00036 mg/L	2.40	283.8 mg/L	4.79		1.69%
Al 308.215†	157699.7	141.9 mg/L	0.003284	-0.02089 mg/L	0.006567		31.43%
As 188.979†	-180.7	-0.01045 mg/L	0.001238	0.04479 mg/L	0.002475		5.53%
B 249.677†	68.7	0.02239 mg/L	0.00846	1.020 mg/L	0.0169		1.66%
Ba 233.527†	1384.4	0.5102 mg/L	0.000053	0.00336 mg/L	0.000107		3.18%
Be 313.042†	959.1	0.00168 mg/L	0.516	67.23 mg/L	1.033		1.54%
Ca 317.933†	390788.5	33.61 mg/L	0.000197	0.00453 mg/L	0.000393		8.69%
Cd 228.802†	29.1	0.00226 mg/L	0.000290	0.08648 mg/L	0.000579		0.67%
Co 228.616†	1397.9	0.04324 mg/L	0.00464	0.5971 mg/L	0.00928		1.55%
Cr 267.716†	1316.6	0.2985 mg/L	0.001022	0.1338 mg/L	0.00204		1.53%
Cu 324.752†	16465.5	0.06689 mg/L	1.70	0.1338 mg/L	3.40		1.51%
Fe 273.955†	104267.2	112.5 mg/L	0.0902	225.0 mg/L	0.1804		1.87%
K 766.490†	6701.3	4.824 mg/L	0.537	9.648 mg/L	1.074		1.36%
Mg 279.077†	29787.1	39.42 mg/L	0.0178	78.84 mg/L	0.0357		1.33%
Mn 257.610†	34741.8	1.346 mg/L	0.000429	2.691 mg/L	0.000858		12.07%
Mo 202.031†	60.5	0.00356 mg/L	0.0245	0.00711 mg/L	0.0490		1.74%
Na 589.592†	15489.7	1.407 mg/L	0.6563	2.813 mg/L	1.3127		25.18%
Na 330.237†	5.5	2.607 mg/L	0.00456	5.214 mg/L	0.00912		2.05%
Ni 231.604†	290.6	0.2229 mg/L	0.001088	0.4458 mg/L	0.002176		5.00%
Pb 220.353†	29.1	0.02174 mg/L	0.000598	0.04348 mg/L	0.001197		4.83%
Sb 206.836†	9.3	0.01237 mg/L	0.005161	0.02475 mg/L	0.010323		16.74%
Se 196.026†	36.3	0.03082 mg/L	0.1098	0.06165 mg/L	0.220		1.38%
Si 288.158†	10016.9	7.965 mg/L	0.000755	15.93 mg/L	0.001509		14.47%
Sn 189.927†	-32.0	-0.00522 mg/L	0.00386	-0.01043 mg/L	0.00771		1.72%
Sr 421.552†	130715.4	0.2235 mg/L	0.1261	0.4471 mg/L	0.252		1.55%
Ti 334.903†	157464.1	8.157 mg/L	0.007164	16.31 mg/L	0.014327		>999.9%
Tl 190.801†	-23.3	0.00051 mg/L	0.00504	0.00102 mg/L	0.01008		1.29%
V 292.402†	35507.7	0.3907 mg/L	0.00588	0.7813 mg/L	0.01175		2.73%
Zn 206.200†	99.5	0.2150 mg/L		0.4300 mg/L			

Sequence No.: 6
 Sample ID: RG64 MSPK WMN

Autosampler Location: 318
 Date Collected: 8/12/2010 3:56:53 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MSPK WMN
 Analyte Back Pressure Flow
 All 192.0 kPa 0.75 L/min

Mean Data: RG64 MSPK WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1904522.3	113.7	%	0.78			0.69%
ScR 361.383	333102.7	122.6	%	1.75			1.43%
Ag 328.068†	71523.2	0.4353	mg/L	0.00538	0.4353 mg/L	0.00538	1.24%
Al 308.215†	2305.3	2.066	mg/L	0.0363	2.066 mg/L	0.0363	1.76%
As 188.979†	2501.3	2.168	mg/L	0.0122	2.168 mg/L	0.0122	0.57%
B 249.677†	89.5	0.02813	mg/L	0.000526	0.02813 mg/L	0.000526	1.87%
Ba 233.527†	5158.6	1.940	mg/L	0.0302	1.940 mg/L	0.0302	1.56%
Be 313.042†	232793.0	0.4802	mg/L	0.00394	0.4802 mg/L	0.00394	0.82%
Ca 317.933†	1112382.7	95.68	mg/L	0.816	95.68 mg/L	0.816	0.85%
Cd 228.802†	9477.3	0.5109	mg/L	0.00905	0.5109 mg/L	0.00905	1.77%
Co 228.616†	11657.2	0.4877	mg/L	0.00761	0.4877 mg/L	0.00761	1.56%
Cr 267.716†	2181.2	0.4888	mg/L	0.00594	0.4888 mg/L	0.00594	1.22%
Cu 324.752†	122565.6	0.4665	mg/L	0.00645	0.4665 mg/L	0.00645	1.38%
Fe 273.955†	3705.4	3.996	mg/L	0.0727	3.996 mg/L	0.0727	1.82%
K 766.490†	19215.4	13.83	mg/L	0.283	13.83 mg/L	0.283	2.04%
Mg 279.077†	28721.5	38.05	mg/L	0.701	38.05 mg/L	0.701	1.84%
Mn 257.610†	368105.0	14.26	mg/L	0.176	14.26 mg/L	0.176	1.23%
Mo 202.031†	81.2	0.00389	mg/L	0.000040	0.00389 mg/L	0.000040	1.02%
Na 589.592†	248949.7	22.61	mg/L	0.376	22.61 mg/L	0.376	1.66%
Na 330.237†	686.5	26.37	mg/L	0.157	26.37 mg/L	0.157	0.60%
Ni 231.604†	634.8	0.4868	mg/L	0.00852	0.4868 mg/L	0.00852	1.75%
Pb 220.353†	11455.1	1.994	mg/L	0.0154	1.994 mg/L	0.0154	0.77%
Sb 206.836†	-10.4	-0.00801	mg/L	0.000834	-0.00801 mg/L	0.000834	10.42%
Se 196.026†	2707.3	2.464	mg/L	0.0239	2.464 mg/L	0.0239	0.97%
Si 288.158†	17032.7	13.55	mg/L	0.239	13.55 mg/L	0.239	1.76%
Sn 189.927†	-39.9	-0.00869	mg/L	0.000825	-0.00869 mg/L	0.000825	9.49%
Sr 421.552†	616051.8	1.054	mg/L	0.0105	1.054 mg/L	0.0105	0.99%
Ti 334.903†	190.5	0.00381	mg/L	0.000699	0.00381 mg/L	0.000699	18.35%
Tl 190.801†	2752.9	2.004	mg/L	0.0181	2.004 mg/L	0.0181	0.91%
V 292.402†	42118.4	0.4854	mg/L	0.00818	0.4854 mg/L	0.00818	1.69%
Zn 206.200†	229.2	0.5047	mg/L	0.00584	0.5047 mg/L	0.00584	1.16%

Sequence No.: 7
Sample ID: DIL

Autosampler Location: 319
Date Collected: 8/12/2010 4:01:07 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: DIL

Analyte Back Pressure Flow
All 192.0 kPa 0.75 L/min

Mean Data: DIL

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1849191.9	110.4	%	0.61			0.55%
ScR 361.383	325521.4	119.8	%	0.97			0.81%
Ag 328.068†	723.9	0.00443	mg/L	0.002330	0.00443 mg/L	0.002330	52.57%
Al 308.215†	15.6	0.01406	mg/L	0.000841	0.01406 mg/L	0.000841	5.98%
As 188.979†	2.9	0.00254	mg/L	0.000342	0.00254 mg/L	0.000342	13.45%
B 249.677†	5.0	0.00165	mg/L	0.000988	0.00165 mg/L	0.000988	59.84%
Ba 233.527†	-1.1	-0.00041	mg/L	0.000739	-0.00041 mg/L	0.000739	181.34%
Be 313.042†	-16.0	-0.00003	mg/L	0.000021	-0.00003 mg/L	0.000021	63.16%
Ca 317.933†	65.0	0.00559	mg/L	0.001872	0.00559 mg/L	0.001872	33.49%
Cd 228.802†	5.9	0.00032	mg/L	0.000056	0.00032 mg/L	0.000056	17.77%
Co 228.616†	1.4	0.00006	mg/L	0.000071	0.00006 mg/L	0.000071	128.07%
Cr 267.716†	3.5	0.00079	mg/L	0.000513	0.00079 mg/L	0.000513	64.63%
Cu 324.752†	-82.2	-0.00031	mg/L	0.000140	-0.00031 mg/L	0.000140	44.77%
Fe 273.955†	1.5	0.00161	mg/L	0.004789	0.00161 mg/L	0.004789	298.23%
K 766.490†	12.9	0.00926	mg/L	0.009037	0.00926 mg/L	0.009037	97.59%
Mg 279.077†	6.6	0.00879	mg/L	0.002525	0.00879 mg/L	0.002525	28.72%
Mn 257.610†	7.3	0.00028	mg/L	0.000081	0.00028 mg/L	0.000081	28.86%
Mo 202.031†	-4.0	-0.00027	mg/L	0.000079	-0.00027 mg/L	0.000079	29.18%
Na 589.592†	-189.0	-0.01716	mg/L	0.002339	-0.01716 mg/L	0.002339	13.63%
Na 330.237†	11.7	0.4428	mg/L	0.36042	0.4428 mg/L	0.36042	81.41%
Ni 231.604†	2.7	0.00206	mg/L	0.001004	0.00206 mg/L	0.001004	48.78%
Pb 220.353†	5.5	0.00097	mg/L	0.000749	0.00097 mg/L	0.000749	77.64%
Sb 206.836†	-8.1	-0.00334	mg/L	0.002581	-0.00334 mg/L	0.002581	77.36%
Se 196.026†	4.0	0.00368	mg/L	0.003125	0.00368 mg/L	0.003125	84.90%
Si 288.158†	4.0	0.00320	mg/L	0.002265	0.00320 mg/L	0.002265	70.74%
Sn 189.927†	1.4	0.00047	mg/L	0.000263	0.00047 mg/L	0.000263	56.35%
Sr 421.552†	-7.3	-0.00001	mg/L	0.000015	-0.00001 mg/L	0.000015	117.36%
Ti 334.903†	7.2	0.00037	mg/L	0.000640	0.00037 mg/L	0.000640	171.88%
Tl 190.801†	5.0	0.00360	mg/L	0.000684	0.00360 mg/L	0.000684	19.01%
V 292.402†	-11.0	-0.00012	mg/L	0.000203	-0.00012 mg/L	0.000203	165.30%
Zn 206.200†	-0.4	-0.00089	mg/L	0.000597	-0.00089 mg/L	0.000597	66.99%

Sequence No.: 8

Sample ID: CV *8*

Autosampler Location: 7

Date Collected: 8/12/2010 4:05:18 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	192.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1836115.3	109.6 %	0.15			0.14%
ScR 361.383	320629.7	118.0 %	1.49			1.26%
Ag 328.068†	165160.6	1.011 mg/L	0.0045	1.011 mg/L	0.0045	0.45%
Al 308.215†	2353.1	2.086 mg/L	0.0320	2.086 mg/L	0.0320	1.54%
As 188.979†	2385.3	2.086 mg/L	0.0105	2.086 mg/L	0.0105	0.50%
B 249.677†	3027.1	0.9909 mg/L	0.01327	0.9909 mg/L	0.01327	1.34%
Ba 233.527†	2623.1	0.9865 mg/L	0.01237	0.9865 mg/L	0.01237	1.25%
Be 313.042†	479315.8	0.9888 mg/L	0.01495	0.9888 mg/L	0.01495	1.51%
Ca 317.933†	24741.3	2.128 mg/L	0.0290	2.128 mg/L	0.0290	1.36%
Cd 228.802†	19192.4	1.043 mg/L	0.0067	1.043 mg/L	0.0067	0.64%
Co 228.616†	24610.4	1.029 mg/L	0.0079	1.029 mg/L	0.0079	0.77%
Cr 267.716†	4486.4	1.019 mg/L	0.0106	1.019 mg/L	0.0106	1.04%
Cu 324.752†	262096.0	0.9978 mg/L	0.00397	0.9978 mg/L	0.00397	0.40%
Fe 273.955†	1888.4	2.032 mg/L	0.0234	2.032 mg/L	0.0234	1.15%
K 766.490†	30024.0	21.61 mg/L	0.259	21.61 mg/L	0.259	1.20%
Mg 279.077†	1569.5	2.085 mg/L	0.0221	2.085 mg/L	0.0221	1.06%
Mn 257.610†	24372.7	0.9449 mg/L	0.01335	0.9449 mg/L	0.01335	1.41%
Mo 202.031†	14884.5	1.018 mg/L	0.0043	1.018 mg/L	0.0043	0.42%
Na 589.592†	507376.5	46.07 mg/L	0.614	46.07 mg/L	0.614	1.33%
Na 330.237†	1389.2	52.47 mg/L	0.714	52.47 mg/L	0.714	1.36%
Ni 231.604†	1329.5	1.021 mg/L	0.0116	1.021 mg/L	0.0116	1.14%
Pb 220.353†	11944.7	2.080 mg/L	0.0104	2.080 mg/L	0.0104	0.50%
Sb 206.836†	5070.3	2.095 mg/L	0.0086	2.095 mg/L	0.0086	0.41%
Se 196.026†	2268.0	2.069 mg/L	0.0085	2.069 mg/L	0.0085	0.41%
Si 288.158†	2633.8	2.098 mg/L	0.0363	2.098 mg/L	0.0363	1.73%
Sn 189.927†	3121.1	1.027 mg/L	0.0055	1.027 mg/L	0.0055	0.53%
Sr 421.552†	596512.4	1.020 mg/L	0.0131	1.020 mg/L	0.0131	1.28%
Ti 334.903†	19549.7	1.011 mg/L	0.0128	1.011 mg/L	0.0128	1.27%
Tl 190.801†	2844.5	2.058 mg/L	0.0049	2.058 mg/L	0.0049	0.24%
V 292.402†	88494.5	1.016 mg/L	0.0061	1.016 mg/L	0.0061	0.60%
Zn 206.200†	474.7	1.045 mg/L	0.0177	1.045 mg/L	0.0177	1.69%

Sequence No.: 9
 Sample ID: CB 7

Autosampler Location: 1
 Date Collected: 8/12/2010 4:09:32 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	192.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1831317.6	109.4	%	1.09			0.99%
ScR 361.383	325108.7	119.7	%	0.25			0.21%
Ag 328.068†	-1.2	-0.00001	mg/L	0.000201	-0.00001 mg/L	0.000201	>999.9%
Al 308.215†	15.1	0.01356	mg/L	0.007287	0.01356 mg/L	0.007287	53.76%
As 188.979†	1.2	0.00101	mg/L	0.002516	0.00101 mg/L	0.002516	247.92%
B 249.677†	12.0	0.00393	mg/L	0.000687	0.00393 mg/L	0.000687	17.50%
Ba 233.527†	-0.6	-0.00024	mg/L	0.000271	-0.00024 mg/L	0.000271	111.01%
Be 313.042†	2.1	0.00000	mg/L	0.000031	0.00000 mg/L	0.000031	726.84%
Ca 317.933†	11.2	0.00097	mg/L	0.001037	0.00097 mg/L	0.001037	107.22%
Cd 228.802†	6.1	0.00033	mg/L	0.000163	0.00033 mg/L	0.000163	48.77%
Co 228.616†	2.5	0.00011	mg/L	0.000150	0.00011 mg/L	0.000150	142.92%
Cr 267.716†	5.6	0.00127	mg/L	0.000335	0.00127 mg/L	0.000335	26.36%
Cu 324.752†	16.4	0.00006	mg/L	0.000392	0.00006 mg/L	0.000392	637.73%
Fe 273.955†	-1.2	-0.00127	mg/L	0.000119	-0.00127 mg/L	0.000119	9.40%
K 766.490†	11.0	0.00789	mg/L	0.027834	0.00789 mg/L	0.027834	352.96%
Mg 279.077†	-1.1	-0.00139	mg/L	0.010305	-0.00139 mg/L	0.010305	742.26%
Mn 257.610†	-0.7	-0.00003	mg/L	0.000100	-0.00003 mg/L	0.000100	365.43%
Mo 202.031†	17.8	0.00122	mg/L	0.000295	0.00122 mg/L	0.000295	24.27%
Na 589.592†	-215.0	-0.01952	mg/L	0.001084	-0.01952 mg/L	0.001084	5.55%
Na 330.237†	13.1	0.4946	mg/L	0.23169	0.4946 mg/L	0.23169	46.84%
Ni 231.604†	3.6	0.00278	mg/L	0.002389	0.00278 mg/L	0.002389	85.91%
Pb 220.353†	8.7	0.00152	mg/L	0.000455	0.00152 mg/L	0.000455	29.90%
Sb 206.836†	1.1	0.00043	mg/L	0.000654	0.00043 mg/L	0.000654	151.45%
Se 196.026†	3.2	0.00290	mg/L	0.004973	0.00290 mg/L	0.004973	171.29%
Si 288.158†	-8.2	-0.00651	mg/L	0.004620	-0.00651 mg/L	0.004620	70.94%
Sn 189.927†	2.9	0.00094	mg/L	0.000672	0.00094 mg/L	0.000672	71.42%
Sr 421.552†	-26.7	-0.00005	mg/L	0.000022	-0.00005 mg/L	0.000022	48.28%
Ti 334.903†	7.6	0.00039	mg/L	0.000586	0.00039 mg/L	0.000586	149.32%
Tl 190.801†	1.5	0.00107	mg/L	0.001406	0.00107 mg/L	0.001406	131.21%
V 292.402†	3.1	0.00004	mg/L	0.000191	0.00004 mg/L	0.000191	455.56%
Zn 206.200†	1.7	0.00377	mg/L	0.001551	0.00377 mg/L	0.001551	41.12%

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RG79

W
8-6-10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) DATE: 8/3/10 (B) ANALYST: KE 17:28 (A)

Instrumentation Drying Ovens: 12 Muffle Furnace: N/A Analytical Balance: 1123230597

Batch drying time
 record times as mm/dd/yy hh:mm
 8/3/2010 17:28 KE date/time in oven
 8/4/2010 10:14 KE date/time out
 elapsed hrs = 16.8

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
				CV-02	CV-02			1	2		
Blank			1.1526	1	1.1524	0.00					
RG78 A9		6.5520	1.1360	1	5.7112	4.58	84.5%				
RG78 C9		6.1372	1.1350	1	5.8964	4.76	95.2%				
RG78 J9		6.1600	1.0999	1	5.5068	4.41	87.1%				
RG78 J9 dup		6.1802	1.1402	1	5.5756	4.44	88.0%				

RPD = 1.04% RPD = 4.44 RPD = NA
 RSD = 0.74% RSD = 4.80 RSD = NA

RG78 K9		6.1602	1.1132	1	5.9154	4.80	95.1%				
RG79 G9		6.1859	1.1244	1	5.5354	4.41	87.1%				
RG79 H9		6.4130	1.0894	1	5.4739	4.38	82.4%				
RG79 O9		6.9182	1.0584	1	6.0689	5.01	85.5%				
RG79 P9		6.4201	1.0982	1	5.5806	4.48	84.2%				
RG79 Q9		6.9709	1.1075	1	5.9864	4.88	83.2%				
RG85 A2		6.4439	1.1431	1	2.4724	1.33	25.1%				
RG85 A2 dup		6.2689	1.1263	1	2.3926	1.27	24.6%				

RPD = 1.83% RPD = 1.32 RPD = NA
 RSD = 1.76% RSD = 2.03 RSD = NA

RG85 B2		6.9157	1.1221	1	3.1484	2.03	35.0%				
RG94 A8		6.5425	1.1181	1	5.7070	4.59	84.6%				
RG94 B8		6.5975	1.1143	1	5.6330	4.52	82.4%				

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) DATE: 8/3/10 (B) ANALYST: KE 17:28 (A)

Instrumentation Drying Ovens: 12 Analytical Balance: 1123230597 Muffle Furnace: N/A

Batch drying time		TS (%) calculated as:		TVS (mg/kg dry wt) calculated as:	
record times as mm/dd/yy hh:mm	KE	Final dry wt (g) = (Dry Wt - Tare Wt)	CV-02	Final ash wt (g) = (min ash wt - tare wt)	CV-02
8/3/2010 17:28	KE	TS = (Final Dry Wt) / (grams Sample-Tare)	8/3/10 16:28 KE	TS (mg/kg) = [(Dry wt-Ash wt) / (dry weight)] * 1,000,000	CV-02
8/4/2010 10:14	KE		8/3/10 15:42 KE	if ash wt > dry wt, "Chk for Err"	CV-02
elapsed hrs = 16.8			10.0000	if dry wt-ash wt < 0.001 g, "< (1/dry wt) * 1,000,000"	CV-02
Cal Wt (g)	Cal Weight ID	TARE WT (grams)	CV-02		CV-02
record weights to 4 places	Date & Time	SAMPLE (grams)	8/3/10 10:38 KE		CV-02
	10.0000	6.2280	10.0000		CV-02
	Cal/OK/	Cal/OK/	Cal/OK/		CV-02
SAMPLE ID	DISH #	DRY WT 104C (grams)	DRY WT 104C (grams)	TS (%)	ASH WT 550C (grams)
		1	1		1
RG94 C8		5.4849	4.37	85.5%	2
RG94 D8		5.5550	4.43	85.8%	
RG94 E8		5.9972	4.89	86.9%	
RG94 H20		5.8644	4.76	83.2%	
RG94 H20 dup		5.9862	4.85	83.7%	
		RPD = 0.64%		RPD = NA	
RG94 H20 trp		5.6030	4.50	83.6%	
		RSD = 0.35%		RSD = NA	
RG94 I 8		5.1530	4.02	81.5%	
RG94 J 8		5.0522	3.98	76.1%	

RG79 : 01596



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Page 1 of 2

Analyst: <u>MD</u>		Date: <u>8-3-10</u>	Oven ID: <u>1214</u>	Balance ID: <u>1123230597</u>		
Time in Oven: <u>17:25</u>		Time Out of Oven: <u>10:14</u>		Elapsed Time (> 12 Hrs): <u>16.3</u>		
Sample ID	Dish #	Sample	Dry Weight 104°C			Ash Weight 550°C
			CV-02	CV-02	CV-02	
Cal Weight ID		CV-02	CV-02	CV-02	CV-02	CV-02
Date & Time:		<u>8/3/10 16:38</u>	<u>8/3/10 15:42</u>	<u>8/3/10 16:36</u>		
Cal Weight (10.0000):		<u>10.2200</u>	<u>10.2200</u>	<u>10.2200</u>		
TS (%) calculated as:		TVS (mg/kg dry weight) calculated as:				
Final Dry Weight (g) = (Dry Weight - Tare Weight)		Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight)				
TS = (Final Dry Weight) / (Grams Sample - Tare Weight)		TVS (mg/kg) = ((Dry Weight - Ash Weight) / (Dry Weight)) * 1,000,000				
		If Ash Weight > Dry Weight then "Check for Error"				
		If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000				
Sample ID	Dish #	Sample	Tare	1	2	3
BLANK	1					
RG78	A1	<u>0</u>	<u>1.1526</u>	<u>1.1524</u>		
	2	<u>6.5520</u>	<u>1.1360</u>	<u>5.7112</u>		
	3	<u>6.1372</u>	<u>1.1350</u>	<u>5.8964</u>		
	4	<u>6.1600</u>	<u>1.0999</u>	<u>5.5063</u>		
	5	<u>6.1802</u>	<u>1.1402</u>	<u>5.5756</u>		
	6	<u>6.1638</u>	<u>1.1866</u>	<u>5.5786</u>		
	7	<u>6.1602</u>	<u>1.1137</u>	<u>5.9154</u>		
RG79	B1	<u>6.1859</u>	<u>1.1244</u>	<u>5.5354</u>		
	9	<u>6.4130</u>	<u>1.0894</u>	<u>5.4739</u>		
	10	<u>6.9182</u>	<u>1.0584</u>	<u>6.0689</u>		
	11	<u>6.4201</u>	<u>1.0962</u>	<u>5.5806</u>		
	12	<u>6.9709</u>	<u>1.1075</u>	<u>5.9864</u>		
RG85	A2	<u>6.4439</u>	<u>1.1431</u>	<u>2.4724</u>		
	14	<u>6.2955</u>	<u>1.1263</u>	<u>2.3926</u>		
	15	<u>6.5776</u>	<u>1.1256</u>	<u>2.4455</u>		
	16	<u>6.9157</u>	<u>1.1221</u>	<u>3.1484</u>		
RG94	AV	<u>6.5425</u>	<u>1.181</u>	<u>5.7020</u>		
	18	<u>6.5975</u>	<u>1.1143</u>	<u>5.6330</u>		
	15	<u>6.2280</u>	<u>1.123</u>	<u>5.4849</u>		
	20	<u>6.2910</u>	<u>1.1260</u>	<u>5.5550</u>		
	21	<u>6.7352</u>	<u>1.1076</u>	<u>5.9972</u>		
	22	<u>6.8280</u>	<u>1.1031</u>	<u>5.8644</u>		

Revision 002
12/28/09

Page 00451

② 6.2659 ② 8.340

6053F



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Page 2 of 2

Analyst: AN Date: 8-3-10 Oven ID: 12 Balance ID: 1123230597
 Time in Oven: 17.26 Time Out of Oven: 10:14 Elapsed Time (> 12 Hrs):

Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places

TS (%) calculated as:
 Final Dry Weight (g) = (Dry Weight - Tare Weight)
 TS = (Final Dry Weight) / (Grams Sample - Tare Weight)

TVS (mg/kg dry weight) calculated as:
 Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight)
 TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000
 If Ash Weight > Dry Weight then "Check for Error"
 If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000

Sample ID	Dish #	Cal Weight ID		CV-02			Dry Weight	Ash Weight 550°C			
		Date & Time:	Sample	Tare	1	2		3	1	2	3
2594BLANK	23	8-3-10 16:24	1.1314	1.1314	598.62						
1112	24	8-3-10 10:00	1.1024	50.038	5.6030						
18	25	8-3-10 10:00	1.1359	3.1530							
19	26	8-3-10 10:00	1.0752	5.0522							

8-3-10 (W)

6059F

Page 00452

Revision 002
12/28/09

W
8-5-10

TOC Solids Prep Log						DATE:	8/3/2010
acid purging to remove IC and drying at 70°C for TOC analysis General notes regarding prep method and samples (identify the acid used)						ANALYST:	KE 17:54
						<i>make no entry to shaded cells, they are calculated</i>	
Sample ID		IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			13.1109		13.1108	-0.1 mg	
RG78 A9		-	13.2455	18.6691	17.9413	86.58%	
RG78 C9		-	13.1876	18.1132	18.0303	98.32%	
RG78 J 9		-	13.2777	18.3712	18.1538	95.73%	
RG78 J 9 DUP		-	13.1916	18.1631	17.9212	95.13%	
RG78 J 9 TRIP		-	13.1317	18.1559	17.8638	94.19%	
RG78 K9		-	13.0920	18.6683	18.5407	97.71%	
RG79 G9		-	13.1888	18.4005	17.9773	91.88%	
RG79 H9		-	13.2063	18.4675	17.7708	86.76%	
RH79 O9		-	13.2377	18.4247	17.8194	88.33%	
RG79 P9		-	13.2839	18.2859	17.6659	87.60%	
RG79 Q9		-	13.1550	18.8680	18.1901	88.13%	
RG85 A2		+/-	13.1024	18.0707	14.6417	30.98%	
RG85 A2 DUP		+/-	13.2481	18.0808	14.7059	30.17%	
RG85 A2 TRIP		+/-	13.2432	18.4061	14.8372	30.87%	
RG85 B2		+/-	13.3016	18.5076	15.3838	40.00%	
RG94 A8		-	13.1438	18.2742	17.6506	87.85%	
RG94 B8		-	13.2481	18.8851	18.0143	84.55%	
RG94 C7		-	13.1111	18.7059	18.0453	88.19%	
RG94 D8		-	13.1426	18.8222	18.1309	87.83%	
RG94 E8		-	13.2496	18.8319	18.3632	91.60%	
RG94 H8		-	13.2717	18.7901	17.9970	85.63%	
RG94 H8 DUP		-	13.1499	18.9721	18.1171	85.31%	
RG94 H8 TRIP		-	13.1472	18.5836	17.8248	86.04%	
RG94 I 8		-	13.1807	19.1775	18.1284	82.51%	
RG94 J 8			13.2580	18.4594	17.5026	81.60%	



TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC an alysis
Add general notes regarding samples and preparation and identify the acid used

8-3-10

Analyst W

Date

8-3-10

17:54

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			13.1109	13.1109	13.1109		
RG78	A ⁹	-	13.2455	18.6691	17.9413		Fine Sand
	C ⁹	-	13.1876	18.1132	18.0303		
	J ²²	-	13.2777	18.3712	18.1538		and Rocks
	op J ²²	-	13.1916	18.1631	17.9212		
	4 J ²²	-	13.1317	18.1559	17.8638		
	K ⁹	-	13.0920	18.6683	18.5407		
RG79	G ⁹	-	13.1888	18.4005	17.9773		
	H ⁹	-	13.2063	18.4675	17.7708		+wet
	O ⁹	-	13.2377	18.4247	17.8194		
	P ⁹	-	13.2839	18.2859	17.6659		Gray + clay 15 to fine sand
	Q ⁹	-	13.1550	18.8680	18.1901		
RG85	A ₂	+ -	13.1024	18.0707	17.6524	14.6417	Very wet sand
	op A ₂	+ -	13.2481	18.0808	14.7059		
	4 A ₂	+ -	13.2432	18.4061	14.8372		
	B ₂	+ -	13.3016	18.5076	15.3838		
RG94	A ₆	-	13.1438	18.2742	17.5836	17.6506	Sand
	B ₆	-	13.2481	18.8851	18.0143		
	C ₇	-	13.1111	18.7059	18.0453		Clayish -
	D ₈	-	13.1426	18.8222	18.1309		Sand
	E ₉	-	13.2496	18.8319	18.3632		
	H ₂₀	-	13.2717	18.7901	18.017.9970		
	op H ₂₀	-	13.1499	18.9721	18.1171		
	4 H ₂₀	-	13.1472	18.5836	17.5836	17.8248	
	I ₈	-	13.1807	19.1775	18.1284		wet sandy silt
	J ₈	-	13.2580	18.4594	17.5026		wet sand
			8-3-10				

18.5836 8-3-10

8-9-10

TOC, Solids Data Analysis DATE: 8/6/2010
 Instrument: Apollo 2 ANALYST: KE/CR 9:05
 Mode: NPOC Inlet: Boat
 Spike Std = 2,500 ppm C

Calibration Data
 Cal Curve ID: CAL 072210 Conc: 5,000 ppm
 Calibration Curve Standard: ARI # 00103 - 1 Curve Date: 07/22/10
 CalFact: 2.599E+05 intercept: -120606 r2: 0.99983
 Curve Range (µgC): 8 to 100

Verification Standard Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm
 dilution: 10 mL to 50 1,000 ppm

Standard Reference Material Source: NIST 8704 Conc: 33,510 ppm

Silica Blanks

Replicate determinations					Mean	RSD	condition
77.17	51.9	71.6			66.9	19.8%	OK

Sample Data
 "C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV				1.00		40.0	960	960	96.00%
Blank				1.00		40.0	49.99	50	Blank OK
NIST 8704				1.00		2.3	32215	32,215	96.14%
SB 1				1.00		34.3	77.17	77	Range OK!
SB 2				1.00		33.6	51.90	52	Range OK!
SB 3				1.00		31.5	71.55	72	Range OK!
RG11 A1				1.00		2.2	30742	30,742	Range OK!
RG11 A1 dup				1.00		2.1	36857	36,857	RPD=18.1%
RG11 A1 trp				1.00		2.1	32757	32,757	RSD=9.3%
RG11 A1 ms				1.00	10	1.0	54802	54,802	Range OK!
Spike = 0.025 mg C to 1.0 mg samp = 25,000 ppm									96%
RG43 B1				1.00		2.2	3760	3,760	Range OK!
RG79 G9				1.00		2.5	16592	16,592	Range OK!
CCV				1.00		40.0	924	924	92.40%
Blank				1.00		40.0	29.96	30	Blank OK
RG79 H9				1.00		2.9	16884	16,884	Range OK!
RG79 O9				1.00		3.3	18223	18,223	Range OK!
RG79 P9				1.00		3.6	5580	5,580	Range OK!
RG79 Q9				1.00		3.5	4300	4,300	Range OK!
RG60 E8				1.00		4.0	3952	3,952	Range OK!
RG60 F8				1.00		2.1	5644	5,644	Range OK!
RG58 E3				1.00		3.1	775	775	Range OK!
RG58 F8				1.00		2.8	765	765	Range OK!
RG58 K8				1.00		2.6	2829	2,829	Range OK!
RG58 L8				1.00		4.0	62.07	62	Low Scale
CCV				1.00		40.0	955	955	95.50%
Blank				1.00		40.0	28.24	28	Blank OK

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (μ L Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
RG58 L8				1.00		11.2	580	580	Range OK!
RG58 R8				1.00		5.5	1809	1,809	Range OK!
RG58 S8				1.00		6.4	655	655	Range OK!
NIST 8704				1.00		2.4	33931	33,931	101.26%
CCV				1.00		40.0	928	928	92.80%
Blank				1.00		40.0	38.55	39	Blank OK



on
8-6-10
10F1

TOC Solids Sample Run Log Apollo 9000

Set-Up Parameters		MODE:	NPOC BOAT		INLET:	BOAT SAMPLIN	
Standards:	Source			Conc (ppm)			
Calibration:	ARC 00103-01			8600			
Verification:	EWA 1513-10-06			8600 TO 1000 FOR CVS			
SRM:	NBS 8704			33 570			
Sample Sequence:							
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments	
	Sample	+ Silica Gel	mg	mg/L	µL added		
ICV			40				
ICB			40				
NBS 8704			2-3				
SB 1			34.3				
SB 2			33.6				
SB 3			31.5				
RG11 M			2.2				
↓ M DNF			2.1				
↓ M TRP			2.1				
↓ M MS			1.0	2500	10		
RG13 DI			2.2				
RG14 G9			2.5				
CCV HT			40 2.4				
CCB			40				
RG19 H9			2.9				
↓ O9			3.3				
↓ P9			3.6				
↓ Q9			3.5				
RG60 E8			4.0				
↓ F8			2.1				
RG58 G3			3.1				
↓ F8			2.8				
↓ K8			2.0				
↓ L8			4.0				
CCV			40				
CCD			40				
RG58 L8			11.2				
R8			8.5				
S8			6.4				
NBS 8704			2.4				
CCV			40				
CCB			40				

=====
 Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08060906
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 09:09
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	959.6354	38.3854	9841737	16.833	17.832	130

=====
 Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08060913
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 09:16
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	49.9912	1.9996	278635	16.420	17.417	82

=====
 Sample ID: NBS 8704 Mode: TOC
 Method: Boat Sampler Filename: 08060921
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 09:25
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32214.5332	74.0934	19226708	16.470	17.465	214

=====
 Sample ID: SB 1 Mode: TOC
 Method: Boat Sampler Filename: 08060935
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 09:38
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	77.1690	2.6469	695672	16.468	17.460	75

=====
 Sample ID: SB 2 Mode: TOC
 Method: Boat Sampler Filename: 08060943
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 09:45
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	51.8982	1.7438	458309	16.622	17.616	73

=====
 Sample ID: SB 3 Mode: TOC
 Method: Boat Sampler Filename: 08060957
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:01
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	71.5530	2.2539	592387	16.894	17.888	68

=====
 Sample ID: RG11 A1 Mode: TOC
 Method: Boat Sampler Filename: 08061013
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:17
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30741.6855	67.6317	17775328	17.045	18.044	189

Sample ID: RG11 A1 DUP Mode: TOC
 Method: Boat Sampler Filename: 08061027
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:33
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	36856.5938	77.3988	20342378	16.839	17.838	213

Sample ID: RG11 A1 TRP Mode: TOC
 Method: Boat Sampler Filename: 08061037
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:41
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32756.6602	68.7890	18079488	16.838	17.838	191

Sample ID: RG11 A1 MS Mode: TOC
 Method: Boat Sampler Filename: 08061047
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:50
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	54801.9219	54.8019	14403334	17.185	18.178	136

Sample ID: RG43 B1 Mode: TOC
 Method: Boat Sampler Filename: 08061104
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 11:08
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3759.7234	8.2714	2173931	16.580	17.571	179

Sample ID: RG79 G9 Mode: TOC
 Method: Boat Sampler Filename: 08061155
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 11:59
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16592.3281	41.4808	10902210	16.535	17.535	177

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08061202
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:06
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	923.9921	36.9597	9467019	17.061	18.059	124

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08061241
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:43
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29.9630	1.1985	68079	17.012	18.011	49

Sample ID: RG79 H9 Mode: TOC
 Method: Boat Sampler Filename: 08061249
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:53
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16883.8418	48.9631	12868755	16.895	17.895	174

Sample ID: RG79 O9 Mode: TOC
 Method: Boat Sampler Filename: 08061300
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:04
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18222.8262	60.1353	15805088	17.134	18.133	184

Sample ID: RG79 P9 Mode: TOC
 Method: Boat Sampler Filename: 08061311
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:15
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5580.1279	20.0885	5279756	17.033	18.029	146

Sample ID: RG79 Q9 Mode: TOC
 Method: Boat Sampler Filename: 08061326
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:32
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4300.2119	15.0507	3955716	17.208	18.207	141

Sample ID: RG60 E8 Mode: TOC
 Method: Boat Sampler Filename: 08061336
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:39
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3951.7202	15.8069	4154449	17.411	18.408	125

Sample ID: RG60 F8 Mode: TOC
 Method: Boat Sampler Filename: 08061347
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:50
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5644.4658	11.8534	3115368	17.319	18.317	99

Sample ID: RG58 E3 Mode: TOC
 Method: Boat Sampler Filename: 08061356
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:59
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	774.5266	2.4010	631052	17.259	18.256	86

Sample ID: RG58 F8 Mode: TOC
Method: Boat Sampler Filename: 08061406
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:09
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	765.3978	2.1431	563265	17.274	18.269	79

Sample ID: RG58 K8 Mode: TOC
Method: Boat Sampler Filename: 08061447
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:50
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2828.6350	7.3545	1932936	17.166	18.159	103

Sample ID: RG58 L8 Mode: TOC
Method: Boat Sampler Filename: 08061453
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:58
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	62.0718	0.2483	65256	17.161	17.388	120

Last Message: Low Sample Detected

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 08061502
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:05
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	954.7472	38.1899	9790347	17.542	18.539	135

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 08061509
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:12
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.2403	1.1296	49967	17.467	17.415	120

Last Message: Low Sample Detected

Sample ID: RG58 L8 Mode: TOC
Method: Boat Sampler Filename: 08061517
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:21
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	580.3285	6.4997	1708281	17.293	18.291	171

Sample ID: RG58 R8 Mode: TOC
Method: Boat Sampler Filename: 08061524
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:27
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1809.1215	9.9502	2615156	17.521	18.518	136

=====
Sample ID: RG58 S8 Mode: TOC
Method: Boat Sampler Filename: 08061530
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:33
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	655.3009	4.1939	1102270	17.660	18.658	124

=====

Sample ID: NBS 8704 Mode: TOC
Method: Boat Sampler Filename: 08061536
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:44
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33930.9727	81.4343	21156084	17.790	18.785	262

=====

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 08061547
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:51
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	927.8040	37.1122	9507094	18.574	19.570	142

=====

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 08061554
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:56
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	38.5515	1.5421	158370	18.680	19.680	61

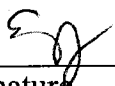
=====

Table of Contents: ARI Job RK21, RK89

Client: Floyd/Snider

Project: POS-LLA Lora Lake Apts RI

	Page From:	Page To:
Inventory Sheet		
Cover Letter	<u>1</u>	<u>1</u>
Chain of Custody Documentation	<u>2</u>	<u>7</u>
Case Narrative, Data Qualifiers, Control Limits	<u>8</u>	<u>20</u>
Volatile Analysis		
Report and Summary QC Forms	<u>21</u>	<u>54</u>
PCP/Chlorophenols Analysis		
Report and Summary QC Forms	<u>55</u>	<u>81</u>
General Chemistry Analysis		
Report and Summary QC Forms	<u>82</u>	<u>93</u>
Total Solids		
Report and Summary QC Forms	<u>94</u>	<u>101</u>
Volatile Raw Data		
Preparation Log	<u>102</u>	<u>104</u>
Initial Calibration	<u>105</u>	<u>150</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>151</u>	<u>240</u>
PCP/Chlorophenols Raw Data		
Extractions Bench Sheets and Notes	<u>241</u>	<u>243</u>
Initial Calibration	<u>244</u>	<u>299</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>300</u>	<u>355</u>
General Chemistry Raw Data		
Analyst Notes and Raw Data	<u>356</u>	<u>389</u>



 Signature

September-17-2010
 Date



Analytical Resources, Incorporated

Analytical Chemists and Consultants

September 17, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Lora Lake RI, POS-LLA
ARI Job No: RK21 AND RK89

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Susan D. Dunnihoo".

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile RK21

SD/sdrd

Chain of Custody Documentation

ARI Job ID: RK21, RK89

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RD1 Turn-around Requested: Standard Page: 1 of 2

ARI Client Company: Floyd Snider Phone: 206-292-2078 Date: 8/23/10 Ice Present?

Client Contact: J. Massingale, M. McCallough No. of Coolers: 1 Cooler Temps:

Client Project Name: Low-Lake Apt R1 Samplers: MM, MW,

Client Project #: POS-LLA

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments	
					PCP	PCP (BOTH)	VOLS - (BLOW)	PC, TC, DE, 12-DPA		TOL	(PMB)	ARCHIVE
MW15-8-10-082310	8/23/10	10:40	S	5						
MW15-20-25-082310		11:05		5						
MW15-25-30-082310		11:25		5						
MW15-30-35-082310		12:30		5						
MW15-35-40-082310		13:10		5						
MW15-40-45-082310		13:50		5						
MW15-45-50-082310		14:10		5						
MW15-50-55-082310		14:25		5	✓	✓				
MW15-55-60-082310		15:00		5						
MW16-15-20-082410	8/24/10	13:20		5						
Comments/Special Instructions	Relinquished by: <u>[Signature]</u> Received by: <u>[Signature]</u> (Signature) (Signature) Printed Name: <u>MEGAN McCallough</u> Printed Name: <u>C. OREIRO</u> Company: <u>ARI</u> Company: Date & Time: <u>8/24/10 17:35</u> Date & Time: <u>8/24/10 17:35</u>									
ARCHIVE ANY REMAINING SAMPLE VOLUME.										

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: Standard

Turn-around Requested: Standard

Page: 2 of 2

ARI Client Company: Floyd Snider

Phone: 206-292-2678

Date: 08/24/10

Ice Present?

Client Contact: J. Maszinger, M. McCullough

No. of Coolers: 2

Cooler Temps: TX



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments
					(EPA 8041)	(Pb, TCE, DE, 1,2-DCA)	TX	(Pb, Cd)	
MW16-20-25-082410	8/24/10	13:45	S	5	✓	✓	✓	✓	ARCHIVE
MW16-25-30-082410		14:00		5	✓	✓	✓	✓	
MW16-30-35-082410		14:18		5	✓	✓	✓	✓	
MW16-39-40-082410		14:20		5	✓	✓	✓	✓	
MW16-40-45-082410		15:05		5	✓	✓	✓	✓	
MW16-42-47.5-082410		16:00		5	✓	✓	✓	✓	
MW16-39-40-082410-D		16:15	↓	12	✓	✓	✓	✓	2 MW MS/MSD
Comments/Special Instructions					Received by: <u>[Signature]</u>	Relinquished by: <u>[Signature]</u>			
Archive any remaining sample volumes.					(Signature)	(Signature)			
					Printed Name: <u>C. OREIRO</u>	Printed Name:			
					Company: <u>ARI</u>	Company:			
					Date & Time: <u>8/24/10 17:55</u>	Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Floyd Snider
 COC No(s): _____ (NA)
 Assigned ARI Job No: RK21

Project Name: Lora Lake Apts RI
 Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 4.4 4.3

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 70941619

Cooler Accepted by: CO (AV) Date: 8/24/10 Time: 1725

Complete custody forms and attach all shipping documents

Log-in Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? (NA) YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... (NA)

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 8/25/10 Time: 928

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

<p>Small Air Bubbles -- 2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Page: 1 of 1
Date: 8/25/10
Ice Present?
No. of Coolers: 1
Cooler Temps:

ARI Assigned Number: 8689
Turn-around Requested: Standard
ARI Client Company: Floyd/Spitzer
Phone: 206-292-2078
Client Contact: J. Massingale, M. McCullough
Client Project Name: Lorn Lake Apts RI
Client Project #: POS-LLA
Samplers: MW & Erin M.

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments	
					PCR (cpa 8041)	VOCS (R260)	PCB, TCE, DCE (2-DCA)	TOL (plumb)		
MW17-15-20-082510	8/25/10	1730	S	5	✓	✓	✓	✓	Archive	
MW17-20-25-082510		1440		5	✓					
MW17-25-30-082510		1755		5	✓					
MW17-30-35-082510		1520		5	✓					
MW17-35-40-082510		1535		5	✓					
MW17-40-45-082510		1555		5	✓					
MW17-45-50-082510		1620		5	✓					
MW17-50-51-082610	8/26/10	950		5	✓	✓	✓			
MW17-57.5-60-082610	8/26/10	1015		5			✓			
MW17-TB-082610	8/26/10	1340	SW	2						
Comments/Special Instructions Archive my remaining sample volume.					Relinquished by: (Signature) Printed Name: A. Volgardsen Company: ARI	Received by: (Signature) Printed Name: Company:	Relinquished by: (Signature) Printed Name: Company:			Received by: (Signature) Printed Name: Company:
Date & Time: 8/26/10 15:45					Date & Time: 8/26/10 18:45			Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Floyd Snider
 COC No(s): _____ (NA)
 Assigned ARI Job No: RK89

Project Name: Lora Lakes RI
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 4.9 3.4 2.3 1.6 6.7 2.3
 If cooler temperature is out of compliance fill out form 00070F 4.4 1.8 Temp Gun ID#: 90941619
 Cooler Accepted by: AV Date: 8/26/10 Time: 1545

Complete custody forms and attach all shipping documents

Log-In Phase:

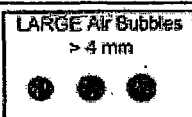
Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI..... NA 8/19/10
 Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____
 Samples Logged by: JM Date: 8/26/10 Time: 948

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: RK21, RK89



Case Narrative

Client: Floyd Snider
Project: Lora Lake RI, POS-LLA
ARI Job No.: RK21 and RK89

Sample receipt

Analytical Resources, Inc. (ARI) accepted seventeen soil samples on August 24, 2010 under ARI job RK21. The cooler temperatures measured by IR thermometer following ARI SOP were 4.3 and 4.4°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Selected samples were placed on hold in frozen archive.

Nine soil samples and a trip blank were accepted on August 26, 2010 under ARI job RK89, part of a larger shipment. The cooler temperatures measured by IR thermometer following ARI SOP were between 1.6 and 4.9°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Selected samples were placed on hold in frozen archive.

On September 15, ARI was instructed to add the BETX compounds to the report for three samples.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

Several matrix spike and matrix spike duplicate percent recoveries fell outside advisory control limits low for sample **MW16-39-40-082410-D**. No corrective action is required for matrix QC.

Pentachlorophenol by SW8041

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.



The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recovery was within control limits.

The matrix spike/matrix spike duplicate percent recoveries and RPDs were within advisory limits.

General Chemistry

The samples and associated laboratory QC were prepared and analyzed within the method recommended holding times

The method blanks were clean at the reporting limits. The LCS percent recovery was within control limits.

The SRM percent recovery was within limits.

The matrix spike percent recovery and replicate RSDs were within control limit.



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte



- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

SURR SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1752-2	ABN	100/150	MEOH	01/22/11
B	1767-2	SIM PNA	15/75	MEOH	10/07/10
C	1705-4	SIM ABN	25/37.5	MEOH	03/08/11
D	1751-1	LOW PCB	0.2	HEXANE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G	1758-4	1,4DIOXANE	100	MEOH	02/11/11
H	1723-2	OP-PEST	25	MEOH	04/02/11
I	1767-3	LOW S. PNA	1.5	MEOH	10/07/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1767-1	EPH	1500	MECL2	06/02/11
N	1689-3	PCB	2	ACETONE	12/29/10
O	1755-1	TPH	450	MECL2	06/02/11
P	1759-1	HCID	2250	MECL2	05/13/11
Q	1620-2	EDB	1	MEOH	06/22/10
R	1757-3	RESIN ACID	250	ACETONE	08/14/11
S*	1568-5	PBDE	.25	MEOH	01/13/11
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
	*reverified solution				

LCS SOLUTIONS

9/7/2010

LABL SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.	
1	1754-4	PCB 1660	20	ACETONE	03/30/11
2#		BCOC PEST	10	ACETONE	NA
3	1705-3	PEST	02/04/20	ACETONE	03/08/11
4	1744-3	LOW PEST	0.2/0.4/2	ACETONE	03/08/11
5	1677-1	EPH	1500	MECL2	11/12/10
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1765-2	ABN	100	ACETONE	08/30/11
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1766-1	ABN ACID	100/200	MEOH	02/01/11
11	1730-2	TPHD	15000	ACETONE	04/26/11
12	1766-2	ABN BASE	200	MEOH	01/29/11
13	1716-2	LOW PCB	2	ACETONE	03/30/11
14	1753-3	LOW ABN ACID	10/20	MEOH	01/28/11
15	1726-3	SIM PNA	15/75	MEOH	10/07/10
16	1707-1	DIOXANE	100	MEOH	11/05/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18	1726-4	LOW SIM PNA	1.5	ACETONE	10/07/10
19	1746-3	AK103	7500	ACETONE	12/01/10
20	1758-2	PNA	100	ACETONE	03/14/11
21	1725-1	SKY/BHT	100	MEOH	03/18/11
22	1728-1	HERB	12.5/12500	MEOH	10/20/10
23	1753-4	LW ABN BASE	20	MEOH	01/29/11
24	1758-2	LOW ABN	10	ACETONE	01/13/11
25#		DIPHENYL	100	MEOH	NA
26	1723-3	OP-PEST	25	MEOH	11/20/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1750-2	ADD. PEST	4	ACETONE	09/03/10
29#		DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

9/7/2010

31	1707-3	TERPINEOL	100	MEOH	03/19/11
32	1758-1	GUAIACOL	50-200	ACETONE	01/08/11
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1757-4	FULL RESIN	250	ACETONE	08/14/11
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
53	1703-3	DALAPON	50	MEOH	09/11/10
53	1701-2	PBDE	0.5	ACETONE	02/10/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
		#=PROJECT SPECIFIC SOLUTION			
		*=REVERIFIED SOLUTION			



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
LCS Spike Recovery ⁽⁸⁾				
Dichlorodifluoromethane	53 - 148	37 - 164	25 - 128	10 - 145
Chloromethane	64 - 125	54 - 135	55 - 121	44 - 132
Vinyl Chloride	63 - 137	51 - 149	66 - 123	57 - 133
Bromomethane	57 - 136	44 - 149	40 - 154	21 - 173
Chloroethane	64 - 131	53 - 142	72 - 128	63 - 137
Trichlorofluoromethane	69 - 132	59 - 143	69 - 135	58 - 146
Acrolein	54 - 137	40 - 151	39 - 135	23 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	74 - 130	65 - 139	65 - 139	53 - 151
Acetone	60 - 131	48 - 143	55 - 130	43 - 143
1,1-Dichloroethene	75 - 126	67 - 135	73 - 133	63 - 143
Bromoethane	76 - 126	68 - 134	74 - 133	64 - 143
Methyl Iodide	65 - 139	53 - 151	47 - 155	29 - 173
Methylene Chloride	70 - 123	61 - 132	80 - 120	75 - 122
Acrylonitrile	67 - 125	57 - 135	62 - 129	51 - 140
Methyl tert-Butyl Ether	70 - 120	62 - 128	69 - 128	59 - 138
Carbon Disulfide	71 - 129	61 - 139	64 - 135	52 - 147
trans-1,2-Dichloroethene	80 - 120	74 - 126	78 - 125	70 - 133
Vinyl Acetate	60 - 136	47 - 149	66 - 132	55 - 143
1,1-Dichloroethane	80 - 120	75 - 124	77 - 124	69 - 132
2-Butanone	70 - 120	62 - 127	65 - 126	55 - 136
2,2-Dichloropropane	74 - 123	66 - 131	75 - 127	66 - 136
cis-1,2-Dichloroethene	80 - 120	76 - 123	80 - 125	74 - 132
Chloroform	80 - 120	74 - 123	80 - 124	73 - 131
Bromodichloromethane	77 - 121	70 - 128	78 - 130	69 - 139
1,1,1-Trichloroethane	77 - 121	70 - 128	76 - 130	67 - 139
1,1-Dichloropropene	80 - 120	77 - 123	77 - 131	68 - 140
Carbon Tetrachloride	77 - 122	70 - 130	74 - 129	65 - 138
1,2-Dichloroethane	76 - 120	69 - 123	73 - 123	65 - 131
Benzene	80 - 120	80 - 126	80 - 120	75 - 130
Trichloroethene	80 - 120	77 - 123	80 - 125	75 - 132
1,2-Dichloropropane	80 - 120	76 - 120	80 - 122	74 - 129
Bromochloromethane	80 - 120	73 - 127	80 - 127	73 - 135
Dibromomethane	80 - 120	74 - 121	80 - 121	76 - 128
2-Chloroethylvinylether	10 - 191	10 - 222	61 - 128	50 - 139



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
4-Methyl-2-Pentanone	67 - 120	59 - 125	80 - 123	73 - 130
cis-1,3-Dichloropropene	74 - 120	67 - 125	80 - 122	73 - 129
Toluene	80 - 120	79 - 120	80 - 122	80 - 127
trans-1,3-Dichloropropene	65 - 120	57 - 125	80 - 123	79 - 129
2-Hexanone	65 - 130	54 - 141	58 - 129	46 - 141
1,1,2-Trichloroethane	80 - 120	75 - 122	80 - 120	77 - 126
1,3-Dichloropropane	80 - 120	74 - 122	80 - 120	76 - 126
Tetrachloroethene	80 - 121	79 - 127	80 - 130	73 - 138
Dibromochloromethane	64 - 120	55 - 128	77 - 120	70 - 127
Ethylene Dibromide	75 - 120	68 - 124	80 - 120	80 - 120
Chlorobenzene	80 - 120	82 - 120	80 - 121	80 - 127
Ethylbenzene	80 - 127	80 - 134	80 - 126	80 - 132
1,1,2,2-Tetrachloroethane	74 - 120	66 - 128	79 - 120	73 - 123
m,p-Xylene	80 - 125	80 - 131	80 - 130	80 - 137
o-Xylene	78 - 120	71 - 126	80 - 124	80 - 130
Styrene	80 - 123	78 - 130	80 - 132	77 - 140
Isopropylbenzene	80 - 127	84 - 133	80 - 130	80 - 137
Bromoform	60 - 120	50 - 128	68 - 129	58 - 139
1,1,1,2-Tetrachloroethane	69 - 121	60 - 130	80 - 126	76 - 133
1,2,3-Trichloropropane	72 - 121	64 - 129	77 - 120	71 - 121
trans-1,4-Dichloro-2-butene	65 - 126	55 - 136	66 - 127	56 - 137
n-Propylbenzene	80 - 132	80 - 139	80 - 132	77 - 140
Bromobenzene	80 - 120	78 - 122	80 - 121	80 - 127
1,3,5-Trimethylbenzene	80 - 125	80 - 131	78 - 137	68 - 147
2-Chlorotoluene	80 - 125	77 - 132	80 - 123	80 - 129
4-Chlorotoluene	80 - 127	77 - 134	80 - 130	74 - 138
tert-Butylbenzene	87 - 122	80 - 128	80 - 133	78 - 141
1,2,4-Trimethylbenzene	80 - 126	80 - 132	80 - 131	79 - 139
sec-Butylbenzene	80 - 134	80 - 142	80 - 136	76 - 146
4-Isopropyltoluene	80 - 131	80 - 138	80 - 141	71 - 151
1,3-Dichlorobenzene	80 - 120	80 - 126	80 - 126	77 - 133
1,4-Dichlorobenzene	80 - 120	79 - 126	80 - 121	77 - 127
n-Butylbenzene	80 - 138	80 - 146	80 - 138	77 - 147
1,2-Dichlorobenzene	80 - 120	78 - 122	80 - 120	80 - 121
1,2-Dibromo-3-chloropropane	59 - 120	49 - 130	67 - 121	58 - 130
1,2,4-Trichlorobenzene	78 - 130	69 - 139	80 - 133	72 - 142



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾**

Effective:5/18/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
Hexachloro-1,3-butadiene	76 - 129	67 - 138	62 - 148	48 - 162
Naphthalene	66 - 120	58 - 126	74 - 133	64 - 143
1,2,3-Trichlorobenzene	73 - 123	65 - 131	80 - 126	72 - 134
MB/LCS Surrogate Recovery				
Dibromofluoromethane	80 - 120	(4)	80 - 120	(4)
d4-1,2-Dichloroethane	79 - 121	(4)	76 - 120	(4)
d8-Toluene	80 - 120	(4)	80 - 120	(4)
4-Bromofluorobenzene	80 - 120	(4)	80 - 120	(4)
d4-1,2-Dichlorobenzene	80 - 120	(4)	80 - 120	(4)
Sample Surrogate Recovery				
Dibromofluoromethane	30 - 160 ⁽⁶⁾	(4)	30 - 160 ⁽⁶⁾	(4)
d4-1,2-Dichloroethane	75 - 152	(4)	69 - 120	(4)
d8-Toluene	82 - 115	(4)	80 - 120	(4)
4-Bromofluorobenzene	64 - 120	(4)	76 - 128	(4)
d4-1,2-Dichlorobenzene	80 - 120	(4)	80 - 120	(4)

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Control Limits calculated using all data generated 3/1/07 through 11/15/07.

(3) **ME = A marginal exceedance** defined in the NELAC Standard⁽⁵⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.

(4) Marginal Exceedances not allowed for surrogate standards

(5) 2003 NELAC Standard (EPA/600/R-04/003), July 2003, Chapter 5, pages 251-252.

(6) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses

(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:

a) ARI does not use control limits < 10

b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(8) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041^(1,2)
Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	ARI's Calculated Control Limits	
	Water	Soil / Sediment
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery⁽³⁾		
Pentachlorophenol	27 - 115	10 - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	10 - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Spike Recovery Control Limits for Conventional Wet Chemistry

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	ARI's Control Limits	
	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: RK21, RK89

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW15-50-55-082310

Page 1 of 1

SAMPLE

Lab Sample ID: RK21A


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21245

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/23/10

Reported: 09/17/10

Date Received: 08/24/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.98 g-dry-wt

Date Analyzed: 08/30/10 13:33

Purge Volume: 5.0 mL

Moisture: 18.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
71-43-2	Benzene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U
108-88-3	Toluene	0.6	< 0.6	U
100-41-4	Ethylbenzene	0.6	< 0.6	U
179601-23-1	m,p-Xylene	0.6	< 0.6	U
95-47-6	o-Xylene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	100%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW16-39-40-082410

Page 1 of 1

SAMPLE

Lab Sample ID: RK21B


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21246

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/24/10

Reported: 09/17/10

Date Received: 08/24/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.60 g-dry-wt

Date Analyzed: 08/30/10 14:03

Purge Volume: 5.0 mL

Moisture: 19.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
71-43-2	Benzene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U
108-88-3	Toluene	0.6	< 0.6	U
100-41-4	Ethylbenzene	0.6	< 0.6	U
179601-23-1	m,p-Xylene	0.6	< 0.6	U
95-47-6	o-Xylene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW16-39-40-082410-D

Page 1 of 1

SAMPLE

Lab Sample ID: RK21C


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21247

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/24/10

Reported: 09/07/10

Date Received: 08/24/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.19 g-dry-wt

Date Analyzed: 08/30/10 14:33

Purge Volume: 5.0 mL

Moisture: 15.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	103%

VOA SURROGATE RECOVERY SUMMARY



Matrix: Soil

QC Report No: RK21-Floyd-Snider
 Project: Lora Lake Apts RI
 POS-LLA

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
RK21A	MW15-50-55-082310	Low	115%	100%	103%	103%	0
RK21B	MW16-39-40-082410	Low	113%	101%	102%	103%	0
MB-083010	Method Blank	Low	99.8%	99.8%	99.5%	100%	0
LCS-083010	Lab Control	Low	101%	99.2%	99.4%	99.9%	0
LCSD-083010	Lab Control Dup	Low	102%	100%	100%	101%	0
RK21C	MW16-39-40-082410-D	Low	113%	101%	102%	103%	0
RK21CMS	MW16-39-40-082410-D	Low	111%	100%	103%	102%	0
RK21CMSD	MW16-39-40-082410-D	Low	112%	101%	102%	102%	0

LCS/MB LIMITS

QC LIMITS


SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 10-21245 to 10-21247

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW16-39-40-082410-D
MATRIX SPIKE

Lab Sample ID: RK21C
LIMS ID: 10-21247
Matrix: Soil
Data Release Authorized: 
Reported: 09/07/10

QC Report No: RK21-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 08/24/10
Date Received: 08/24/10

Instrument/Analyst MS: NT9/PAB
MSD: NT9/PAB
Date Analyzed MS: 08/30/10 20:31
MSD: 08/30/10 21:01

Sample Amount MS: 8.63 g-dry-wt
MSD: 8.37 g-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 15.4%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
trans-1,2-Dichloroethene	< 0.6 U	21.3	29.0	73.4%	23.0	29.9	76.9%	7.7%
cis-1,2-Dichloroethene	< 0.6 U	19.4	29.0	66.9%	21.0	29.9	70.2%	7.9%
1,2-Dichloroethane	< 0.6 U	17.1	29.0	59.0%	18.5	29.9	61.9%	7.9%
Trichloroethene	< 0.6 U	21.2	29.0	73.1%	22.7	29.9	75.9%	6.8%
Tetrachloroethene	< 0.6 U	21.3	29.0	73.4%	23.3	29.9	77.9%	9.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW16-39-40-082410-D

Page 1 of 1

MATRIX SPIKE

Lab Sample ID: RK21C


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21247

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/24/10

Reported: 09/07/10

Date Received: 08/24/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.63 g-dry-wt

Date Analyzed: 08/30/10 20:31

Purge Volume: 5.0 mL

Moisture: 15.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	100%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW16-39-40-082410-D

Page 1 of 1

MATRIX SPIKE DUP

Lab Sample ID: RK21C

QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21247

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: *AS*

Date Sampled: 08/24/10

Reported: 09/07/10

Date Received: 08/24/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.37 g-dry-wt

Date Analyzed: 08/30/10 21:01

Purge Volume: 5.0 mL

Moisture: 15.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	101%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 1


Sample ID: LCS-083010

LAB CONTROL SAMPLE

Lab Sample ID: LCS-083010

LIMS ID: 10-21247

Matrix: Soil

Data Release Authorized: 

Reported: 09/07/10

QC Report No: RK21-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCS D: NT9/PAB

Date Analyzed LCS: 08/30/10 11:44

LCS D: 08/30/10 12:13

Sample Amount LCS: 5.00 g-dry-wt

LCS D: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCS D: 5.0 mL

Moisture: NA

Analyte	LCS	Spike	LCS	LCS D	Spike	LCS D	RPD
		Added-LCS	Recovery		Added-LCS D	Recovery	
trans-1,2-Dichloroethene	53.7	50.0	107%	48.4	50.0	96.8%	10.4%
cis-1,2-Dichloroethene	51.5	50.0	103%	49.0	50.0	98.0%	5.0%
1,2-Dichloroethane	48.9	50.0	97.8%	49.3	50.0	98.6%	0.8%
Trichloroethene	53.2	50.0	106%	49.8	50.0	99.6%	6.6%
Tetrachloroethene	55.9	50.0	112%	50.7	50.0	101%	9.8%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS D
d4-1,2-Dichloroethane	101%	102%
d8-Toluene	99.2%	100%
Bromofluorobenzene	99.4%	100%
d4-1,2-Dichlorobenzene	99.9%	101%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0830

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: RK21
 Lab File ID: MB0830
 Date Analyzed: 08/30/10
 Instrument ID: NT9

Client: FLOYD SNIDER
 Project: LORA LAKES RI
 Lab Sample ID: MB0830
 Time Analyzed: 1243
 Heated Purge: (Y/N) Y

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0830	LCS0830	LCS0830	1144
02	LCS0830	LCS0830	LCS0830A	1213
03	MW15-50-55-0	RK21A	RK21A	1333
04	MW16-39-40-0	RK21B	RK21B	1403
05	MW16-39-40-0	RK21C	RK21C	1433
06	MW16-39-40-0	RK21CMS	RK21CMS	2031
07	MW16-39-40-0	RK21CMSD	RK21CMSD	2101
08				
09				
10				
11				
12				
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27				
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29				
30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-083010

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-083010


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21247

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 09/07/10

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 08/30/10 12:43

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.8%
d8-Toluene	99.8%
Bromofluorobenzene	99.5%
d4-1,2-Dichlorobenzene	100%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RK21

Lab File ID: BFB08280

BFB Injection Date: 08/28/10

Instrument ID: NT9

BFB Injection Time: 0745

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 101.0% of mass 95	94.4
175	4.0 - 9.0% of mass 174	6.7 (7.1)1
176	93.0 - 101.0% of mass 174	91.9 (97.3)1
177	5.0 - 9.0% of mass 176	7.1 (7.7)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	VSTD001	IC0828	0010828	08/28/10	1252
02	VSTD200	IC0828	2000828	08/28/10	1321
03	VSTD150	IC0828	1500828	08/28/10	1351
04	VSTD100	IC0828	1000828	08/28/10	1421
05	VSTD050	IC0828	0500828	08/28/10	1451
06	VSTD010	IC0828	0100828	08/28/10	1521
07	VSTD005	IC0828	0050828	08/28/10	1551
08	VSTD002	IC0828	0020828	08/28/10	1621
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RK21

Lab File ID: BFB0830

BFB Injection Date: 08/30/10

Instrument ID: NT9

BFB Injection Time: 1031

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.1
75	30.0 - 66.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 101.0% of mass 95	100.7
175	4.0 - 9.0% of mass 174	7.1 (7.0)1
176	93.0 - 101.0% of mass 174	98.1 (97.4)1
177	5.0 - 9.0% of mass 176	6.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CC0830	0500830	08/30/10	1104
02	LCS0830	LCS0830	LCS0830	08/30/10	1144
03	LCS0830	LCS0830	LCS0830A	08/30/10	1213
04	MB0830	MB0830	MB0830	08/30/10	1243
05	MW15-50-55-08231	RK21A	RK21A	08/30/10	1333
06	MW16-39-40-08241	RK21B	RK21B	08/30/10	1403
07	MW16-39-40-08241	RK21C	RK21C	08/30/10	1433
08	MW16-39-40-0824	RK21CMS	RK21CMS	08/30/10	2031
09	MW16-39-40-0824	RK21CMSD	RK21CMSD	08/30/10	2101
10					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK21

Project: LORA LAKES RI

Instrument ID: NT9

Calibration Date: 08/28/10

LAB FILE ID: RF1: 0010828

RF2: 0020828

RF5: 0050828

RF10: 0100828

RF50: 0500828

COMPOUND	RF1	RF2	RF5	RF10	RF50
===== Trans-1,2-Dichloroethene	0.514	0.447	0.463	0.475	0.478
Cis-1,2-Dichloroethene	0.489	0.415	0.448	0.461	0.462
1,2-Dichloroethane	0.391	0.340	0.367	0.384	0.381
Benzene	1.326	1.187	1.235	1.266	1.279
Trichloroethene	0.367	0.323	0.347	0.348	0.353
Toluene	1.035	0.855	0.868	0.877	0.885
Tetrachloroethene	0.558	0.482	0.482	0.493	0.509
Ethyl Benzene	2.020	1.786	1.825	1.891	1.925
m,p-xylene	0.815	0.706	0.748	0.773	0.805
o-Xylene	0.737	0.656	0.708	0.736	0.739
===== d4-1,2-Dichloroethane	0.382	0.378	0.387	0.386	0.391
d8-Toluene	1.127	1.132	1.140	1.141	1.142
4-Bromofluorobenzene	0.457	0.460	0.471	0.475	0.468
d4-1,2-Dichlorobenzene	0.870	0.869	0.883	0.879	0.881
Dibromofluoromethane	0.362	0.359	0.366	0.369	0.377

FORM VI VOA

RK21 : 00034

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: RK21
Instrument ID: NT9

Client: FLOYD SNIDER
Project: LORA LAKES RI
Calibration Date: 08/28/10

LAB FILE ID: RF100: 1000828 RF150: 1500828 RF200: 2000828

COMPOUND	RF100	RF150	RF200
===== Trans-1,2-Dichloroethene	0.577	0.557	0.569
Cis-1,2-Dichloroethene	0.530	0.524	0.538
1,2-Dichloroethane	0.404	0.410	0.417
Benzene	1.486	1.465	1.514
Trichloroethene	0.418	0.400	0.416
Toluene	1.041	1.022	1.061
Tetrachloroethene	0.625	0.589	0.609
Ethyl Benzene	2.326	2.266	2.352
m,p-xylene	0.966	0.913	0.902
o-Xylene	0.864	0.850	0.884
===== d4-1,2-Dichloroethane	0.380	0.384	0.383
d8-Toluene	1.126	1.127	1.128
4-Bromofluorobenzene	0.461	0.457	0.455
d4-1,2-Dichlorobenzene	0.865	0.877	0.867
Dibromofluoromethane	0.379	0.389	0.390

FORM VI VOA

RK21 : 00035

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: RK21
Instrument ID: NT9

Client: FLOYD SNIDER
Project: LORA LAKES RI
Calibration Date: 08/28/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Trans-1,2-Dichloroethene	AVRG	0.510	10.1
Cis-1,2-Dichloroethene	AVRG	0.483	9.2
1,2-Dichloroethane	AVRG	0.387	6.5
Benzene	AVRG	1.345	9.4
Trichloroethene	AVRG	0.372	9.5
Toluene	AVRG	0.956	9.5
Tetrachloroethene	AVRG	0.544	10.9
Ethyl Benzene	AVRG	2.049	11.3
m,p-xylene	AVRG	0.829	10.9
o-Xylene	AVRG	0.772	10.8
d4-1,2-Dichloroethane	AVRG	0.384	1.1
d8-Toluene	AVRG	1.133	0.6
4-Bromofluorobenzene	AVRG	0.463	1.6
d4-1,2-Dichlorobenzene	AVRG	0.874	0.8
Dibromofluoromethane	AVRG	0.374	3.1

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK21

Project: LORA LAKES RI

Instrument ID: NT9

Cont. Calib. Date: 08/30/10

Init. Calib. Date: 08/28/10

Cont. Calib. Time: 1104

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Trans-1,2-Dichloroethene	0.510	0.518	0.010	AVRG	1.6
Cis-1,2-Dichloroethene	0.483	0.487	0.010	AVRG	0.8
1,2-Dichloroethane	0.387	0.380	0.010	AVRG	-1.8
Benzene	1.345	1.350	0.010	AVRG	0.4
Trichloroethene	0.372	0.376	0.010	AVRG	1.1
Toluene	0.956	0.946	0.010	AVRG	-1.0
Tetrachloroethene	0.543	0.559	0.010	AVRG	2.9
Ethyl Benzene	2.049	2.079	0.010	AVRG	1.5
m,p-xylene	0.828	0.876	0.010	AVRG	5.8
o-Xylene	0.772	0.784	0.010	AVRG	1.6
=====	=====	=====	=====	=====	=====
d4-1,2-Dichloroethane	0.384	0.390	0.010	AVRG	1.6
d8-Toluene	1.133	1.134	0.010	AVRG	0.1
4-Bromofluorobenzene	0.463	0.463	0.010	AVRG	0.0
d4-1,2-Dichlorobenzene	0.874	0.881	0.010	AVRG	0.8
Dibromofluoromethane	0.374	0.377	0.010	AVRG	0.8

<- Exceeds QC limit of 20% D

* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK21

Project: LORA LAKES RI

Ical Midpoint ID: 0500828

Ical Date: 08/28/10

Instrument ID: NT9

Project Run Date: 08/30/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
ICAL MIDPT	704281	4.94	937745	5.32	853013	7.40
UPPER LIMIT	1408562	5.44	1875490	5.82	1706026	7.90
LOWER LIMIT	352140	4.44	468872	4.82	426506	6.90
Sample ID						
01 LCS0830	528422	4.93	709812	5.32	632742	7.40
02 LCS0830	660276	4.94	879289	5.32	793873	7.40
03 MB0830	651427	4.94	868362	5.32	768377	7.40
04 MW15-50-55-0	653991	4.94	875752	5.32	792738	7.40
05 MW16-39-40-0	649462	4.93	860341	5.32	781495	7.40
06 MW16-39-40-0	619147	4.94	824083	5.32	751614	7.40
07 MW16-39-40-0	657847	4.94	871619	5.32	800234	7.40
08 MW16-39-40-0	675724	4.93	896186	5.32	826227	7.40
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IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK21

Project: LORA LAKES RI

Ical Midpoint ID: 0500828

Ical Date: 08/28/10

Instrument ID: NT9

Project Run Date: 08/30/10

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	503655	9.11				
UPPER LIMIT	1007310	9.61				
LOWER LIMIT	251828	8.61				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0830	363992	9.11				
02 LCS0830	455467	9.11				
03 MB0830	431676	9.11				
04 MW15-50-55-0	449549	9.11				
05 MW16-39-40-0	450466	9.11				
06 MW16-39-40-0	429556	9.11				
07 MW16-39-40-0	467271	9.11				
08 MW16-39-40-0	486323	9.11				
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22						

IS4 (DCB) = d4-1,4-Dichlorobenzene

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

* Values outside of QC limits.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW17-50-51-082610

Page 1 of 1

SAMPLE

Lab Sample ID: RK89A

QC Report No: RK89-Floyd/Snider

LIMS ID: 10-21749

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized *AB*

Date Sampled: 08/26/10

Reported: 09/17/10

Date Received: 08/26/10

Instrument/Analyst: NT9/PAB

Sample Amount: 8.25 g-dry-wt

Date Analyzed: 08/31/10 16:56

Purge Volume: 5.0 mL

Moisture: 22.2%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
71-43-2	Benzene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U
108-88-3	Toluene	0.6	< 0.6	U
100-41-4	Ethylbenzene	0.6	< 0.6	U
179601-23-1	m,p-Xylene	0.6	< 0.6	U
95-47-6	o-Xylene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	101%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: MW17-TB-082610
SAMPLE

Lab Sample ID: RK89B


QC Report No: RK89-Floyd/Snider

LIMS ID: 10-21750

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 08/25/10

Reported: 09/07/10

Date Received: 08/26/10

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 mL

Date Analyzed: 09/01/10 15:25

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	101%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	101%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RK89-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-090110	Method Blank	Low	96.6%	99.3%	97.0%	100%	0
LCS-090110	Lab Control	Low	99.9%	99.6%	98.4%	100%	0
LCSD-090110	Lab Control Dup	Low	97.4%	99.3%	97.4%	100%	0
RK89A	MW17-50-51-082610	Low	115%	101%	101%	103%	0

SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 10-21749 to 10-21749

VOA SURROGATE RECOVERY SUMMARY



Matrix: Water

QC Report No: RK89-Floyd/Snider
 Project: Lora Lake Apts RI
 POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
RK89B	MW17-TB-082610	5	102%	101%	97.5%	101%	0

LCS/MB LIMITS

QC LIMITS

SW8260C

(DCE) = d4-1,2-Dichloroethane	80-122	80-125
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
 Log Number Range: 10-21750 to 10-21750

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-090110

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-090110


QC Report No: RK89-Floyd/Snider

LIMS ID: 10-21749

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 09/17/10

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

Sample Amount LCS: 5.00 g-dry-wt

LCS: NT9/PAB

LCS: 5.00 g-dry-wt

Date Analyzed LCS: 09/01/10 11:50

Purge Volume LCS: 5.0 mL

LCS: 09/01/10 12:19

LCS: 5.0 mL

Moisture: NA

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCS	Recovery	
trans-1,2-Dichloroethene	44.3	50.0	88.6%	51.3	50.0	103%	14.6%
cis-1,2-Dichloroethene	45.4	50.0	90.8%	50.8	50.0	102%	11.2%
1,2-Dichloroethane	46.0	50.0	92.0%	48.6	50.0	97.2%	5.5%
Trichloroethene	45.5	50.0	91.0%	52.8	50.0	106%	14.9%
Benzene	44.8	50.0	89.6%	51.0	50.0	102%	12.9%
Tetrachloroethene	46.8	50.0	93.6%	54.9	50.0	110%	15.9%
Toluene	44.2	50.0	88.4%	50.3	50.0	101%	12.9%
Ethylbenzene	45.5	50.0	91.0%	52.5	50.0	105%	14.3%
m,p-Xylene	95.6	100	95.6%	109	100	109%	13.1%
o-Xylene	46.2	50.0	92.4%	52.0	50.0	104%	11.8%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	99.9%	97.4%
d8-Toluene	99.6%	99.3%
Bromofluorobenzene	98.4%	97.4%
d4-1,2-Dichlorobenzene	100%	100%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0901

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: RK89
 Lab File ID: MB0901
 Date Analyzed: 09/01/10
 Instrument ID: NT9

Client: FLOYD SNIDER
 Project: LORA LAKES RI
 Lab Sample ID: MB0901
 Time Analyzed: 1249
 Heated Purge: (Y/N) Y

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0901	LCS0901	LCS0901	1150
02	LCS0901	LCS0901	LCS0901A	1219
03	MW17-50-51-0	RK89A	RK89A2	1456
04	MW17-TB-0826	RK89B	RK89B	1525
05				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-090110

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-090110

QC Report No: RK89-Floyd/Snider

LIMS ID: 10-21749

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: *AB*

Date Sampled: NA

Reported: 09/17/10

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 09/01/10 12:49

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.6%
d8-Toluene	99.3%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	100%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RK89

Lab File ID: BFB08280

BFB Injection Date: 08/28/10

Instrument ID: NT9

BFB Injection Time: 0745

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 101.0% of mass 95	94.4
175	4.0 - 9.0% of mass 174	6.7 (7.1)1
176	93.0 - 101.0% of mass 174	91.9 (97.3)1
177	5.0 - 9.0% of mass 176	7.1 (7.7)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	VSTD001	IC0828	0010828	08/28/10	1252
02	VSTD200	IC0828	2000828	08/28/10	1321
03	VSTD150	IC0828	1500828	08/28/10	1351
04	VSTD100	IC0828	1000828	08/28/10	1421
05	VSTD050	IC0828	0500828	08/28/10	1451
06	VSTD010	IC0828	0100828	08/28/10	1521
07	VSTD005	IC0828	0050828	08/28/10	1551
08	VSTD002	IC0828	0020828	08/28/10	1621
09					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RK89

Lab File ID: BFB09010

BFB Injection Date: 09/01/10

Instrument ID: NT9

BFB Injection Time: 1025

GC Column: RTX502.2 ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.2
75	30.0 - 66.0% of mass 95	49.1
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	0.5 (0.5)1
174	50.0 - 101.0% of mass 95	98.8
175	4.0 - 9.0% of mass 174	7.1 (7.1)1
176	93.0 - 101.0% of mass 174	96.2 (97.4)1
177	5.0 - 9.0% of mass 176	6.6 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CC0901	0500901	09/01/10	1102
02	LCS0901	LCS0901	LCS0901	09/01/10	1150
03	LCS0901	LCS0901	LCS0901A	09/01/10	1219
04	MB0901	MB0901	MB0901	09/01/10	1249
05	MW17-50-51-08261	RK89A	RK89A2	09/01/10	1456
06	MW17-TB-082610	RK89B	RK89B	09/01/10	1525
07					
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19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK89

Project: LORA LAKES RI

Instrument ID: NT9

Calibration Date: 08/28/10

LAB FILE ID: RF1: 0010828

RF2: 0020828

RF5: 0050828

RF10: 0100828

RF50: 0500828

COMPOUND	RF1	RF2	RF5	RF10	RF50
Trans-1,2-Dichloroethene	0.514	0.447	0.463	0.475	0.478
Cis-1,2-Dichloroethene	0.489	0.415	0.448	0.461	0.462
1,2-Dichloroethane	0.391	0.340	0.367	0.384	0.381
Benzene	1.326	1.187	1.235	1.266	1.279
Trichloroethene	0.367	0.323	0.347	0.348	0.353
Toluene	1.035	0.855	0.868	0.877	0.885
Tetrachloroethene	0.558	0.482	0.482	0.493	0.509
Ethyl Benzene	2.020	1.786	1.825	1.891	1.925
m,p-xylene	0.815	0.706	0.748	0.773	0.805
o-Xylene	0.737	0.656	0.708	0.736	0.739
d4-1,2-Dichloroethane	0.382	0.378	0.387	0.386	0.391
d8-Toluene	1.127	1.132	1.140	1.141	1.142
4-Bromofluorobenzene	0.457	0.460	0.471	0.475	0.468
d4-1,2-Dichlorobenzene	0.870	0.869	0.883	0.879	0.881
Dibromofluoromethane	0.362	0.359	0.366	0.369	0.377

FORM VI VOA

RK21: 00049

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK89

Project: LORA LAKES RI

Instrument ID: NT9

Calibration Date: 08/28/10

LAB FILE ID: RF100: 1000828

RF150: 1500828

RF200: 2000828

COMPOUND	RF100	RF150	RF200
===== Trans-1,2-Dichloroethene	0.577	0.557	0.569
Cis-1,2-Dichloroethene	0.530	0.524	0.538
1,2-Dichloroethane	0.404	0.410	0.417
Benzene	1.486	1.465	1.514
Trichloroethene	0.418	0.400	0.416
Toluene	1.041	1.022	1.061
Tetrachloroethene	0.625	0.589	0.609
Ethyl Benzene	2.326	2.266	2.352
m,p-xylene	0.966	0.913	0.902
o-Xylene	0.864	0.850	0.884
===== d4-1,2-Dichloroethane	0.380	0.384	0.383
d8-Toluene	1.126	1.127	1.128
4-Bromofluorobenzene	0.461	0.457	0.455
d4-1,2-Dichlorobenzene	0.865	0.877	0.867
Dibromofluoromethane	0.379	0.389	0.390

FORM VI VOA

RK21 : 00050

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK89

Project: LORA LAKES RI

Instrument ID: NT9

Calibration Date: 08/28/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Trans-1,2-Dichloroethene	AVRG	0.510	10.1
Cis-1,2-Dichloroethene	AVRG	0.483	9.2
1,2-Dichloroethane	AVRG	0.387	6.5
Benzene	AVRG	1.345	9.4
Trichloroethene	AVRG	0.372	9.5
Toluene	AVRG	0.956	9.5
Tetrachloroethene	AVRG	0.544	10.9
Ethyl Benzene	AVRG	2.049	11.3
m,p-xylene	AVRG	0.829	10.9
o-Xylene	AVRG	0.772	10.8
d4-1,2-Dichloroethane	AVRG	0.384	1.1
d8-Toluene	AVRG	1.133	0.6
4-Bromofluorobenzene	AVRG	0.463	1.6
d4-1,2-Dichlorobenzene	AVRG	0.874	0.8
Dibromofluoromethane	AVRG	0.374	3.1

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM VI VOA

RK21 : 00051

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK89

Project: LORA LAKES RI

Instrument ID: NT9

Cont. Calib. Date: 09/01/10

Init. Calib. Date: 08/28/10

Cont. Calib. Time: 1102

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Trans-1,2-Dichloroethene	0.510	0.491	0.010	AVRG	-3.7
Cis-1,2-Dichloroethene	0.483	0.470	0.010	AVRG	-2.7
1,2-Dichloroethane	0.387	0.360	0.010	AVRG	-7.0
Benzene	1.345	1.311	0.010	AVRG	-2.5
Trichloroethene	0.372	0.371	0.010	AVRG	-0.3
Toluene	0.956	0.913	0.010	AVRG	-4.5
Tetrachloroethene	0.543	0.551	0.010	AVRG	1.5
Ethyl Benzene	2.049	2.021	0.010	AVRG	-1.4
m,p-xylene	0.828	0.849	0.010	AVRG	2.5
o-Xylene	0.772	0.761	0.010	AVRG	-1.4
=====	=====	=====	=====	=====	=====
d4-1,2-Dichloroethane	0.384	0.374	0.010	AVRG	-2.6
d8-Toluene	1.133	1.128	0.010	AVRG	-0.4
4-Bromofluorobenzene	0.463	0.445	0.010	AVRG	-3.9
d4-1,2-Dichlorobenzene	0.874	0.876	0.010	AVRG	0.2
Dibromofluoromethane	0.374	0.374	0.010	AVRG	0.0

<- Exceeds QC limit of 20% D
* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RK89

Project: LORA LAKES RI

Ical Midpoint ID: 0500828

Ical Date: 08/28/10

Instrument ID: NT9

Project Run Date: 09/01/10

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
ICAL MIDPT	704281	4.94	937745	5.32	853013	7.40
UPPER LIMIT	1408562	5.44	1875490	5.82	1706026	7.90
LOWER LIMIT	352140	4.44	468872	4.82	426506	6.90
Sample ID						
01 LCS0901	524009	4.93	700180	5.32	636700	7.40
02 LCS0901	503135	4.94	667344	5.32	597974	7.40
03 MB0901	539660	4.94	719302	5.32	638404	7.40
04 MW17-50-51-0	556116	4.94	767014	5.32	704399	7.40
05 MW17-TB-0826	512928	4.93	705647	5.32	641306	7.40
06						
07						
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17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: RK89
Ical Midpoint ID: 0500828
Instrument ID: NT9

Client: FLOYD SNIDER
Project: LORA LAKES RI
Ical Date: 08/28/10
Project Run Date: 09/01/10

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	503655	9.11				
UPPER LIMIT	1007310	9.61				
LOWER LIMIT	251828	8.61				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0901	376709	9.12				
02 LCS0901	343427	9.11				
03 MB0901	358020	9.11				
04 MW17-50-51-0	411021	9.11				
05 MW17-TB-0826	360094	9.11				
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (DCB) = d4-1,4-Dichlorobenzene

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

* Values outside of QC limits.

**PCP/Chlorophenols Analysis
Report and Summary QC Forms**

ARI Job ID: RK21, RK89

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW15-50-55-082310

SAMPLE

Lab Sample ID: RK21A

LIMS ID: 10-21245

Matrix: Soil

Data Release Authorized *AS*

Reported: 09/15/10

QC Report No: RK21-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 08/23/10

Date Received: 08/24/10

Date Extracted: 09/04/10

Date Analyzed: 09/10/10 16:58

Instrument/Analyst: ECD1/AAR

Sample Amount: 8.34 g-dry-wt

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.5	< 7.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	94.4%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW16-39-40-082410

SAMPLE

Lab Sample ID: RK21B

LIMS ID: 10-21246

Matrix: Soil

Data Release Authorized: 

Reported: 09/15/10

QC Report No: RK21-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 08/24/10

Date Received: 08/24/10

Date Extracted: 09/04/10

Date Analyzed: 09/10/10 17:18

Instrument/Analyst: ECD1/AAR

Sample Amount: 8.16 g-dry-wt

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.7	< 7.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	102%
----------------------	------

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW16-39-40-082410-D

SAMPLE

Lab Sample ID: RK21C


QC Report No: RK21-Floyd-Snider

LIMS ID: 10-21247

Project: Lora Lake Apts RI

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/24/10

Reported: 09/15/10

Date Received: 08/24/10

Date Extracted: 09/04/10

Sample Amount: 8.61 g-dry-wt

Date Analyzed: 09/10/10 17:38

Final Extract Volume: 25 mL

Instrument/Analyst: ECD1/AAR


Dilution Factor: 1.00

Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.3	< 7.3 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	90.4%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW17-50-51-082610
SAMPLE

Lab Sample ID: RK89A
LIMS ID: 10-21749
Matrix: Soil
Data Release Authorized: 
Reported: 09/15/10

QC Report No: RK89-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 08/26/10
Date Received: 08/26/10

Date Extracted: 09/04/10
Date Analyzed: 09/10/10 23:17
Instrument/Analyst: ECD1/AAR

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 22.2%

<u>CAS Number</u>	<u>Analyte</u>	<u>RL</u>	<u>Result</u>
87-86-5	Pentachlorophenol	7.9	< 7.9 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	88.4%
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SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RK21-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MW15-50-55-082310	94.4%	0
MW16-39-40-082410	102%	0
MB-090410	86.8%	0
LCS-090410	89.8%	0
MW16-39-40-082410-D	90.4%	0
MW16-39-40-082410-D MS	110%	0
MW16-39-40-082410-D MSD	110%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(50-115)

(10-146)

Prep Method: SW3550B
Log Number Range: 10-21245 to 10-21247

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RK89-Floyd/Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-090410	86.8%	0
LCS-090410	89.8%	0
MW17-50-51-082610	88.4%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(50-115)	(10-146)

Prep Method: SW3550B
Log Number Range: 10-21749 to 10-21749

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW16-39-40-082410-D
MS/MSD

Lab Sample ID: RK21C
LIMS ID: 10-21247
Matrix: Soil
Data Release Authorized: *AB*
Reported: 09/15/10

QC Report No: RK21-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 08/24/10
Date Received: 08/24/10

Date Extracted MS/MSD: 09/04/10
Date Analyzed MS: 09/10/10 17:58
MSD: 09/10/10 18:18
Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR
Percent Moisture: 15.2%

Sample Amount MS: 8.53 g-dry-wt
MSD: 8.54 g-dry-wt
Final Extract Volume MS: 25 mL
MSD: 25 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 7.26	89.7	73.3	122%	91.7	73.2	125%	2.2%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW16-39-40-082410-D
MATRIX SPIKE

Lab Sample ID: RK21C
LIMS ID: 10-21247
Matrix: Soil
Data Release Authorized: *AS*
Reported: 09/15/10

QC Report No: RK21-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 08/24/10
Date Received: 08/24/10


Date Extracted: 09/04/10
Date Analyzed: 09/10/10 17:58
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.53 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.3	---
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	110%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW16-39-40-082410-D
MATRIX SPIKE DUP

Lab Sample ID: RK21C
LIMS ID: 10-21247
Matrix: Soil
Data Release Authorized: 
Reported: 09/15/10

QC Report No: RK21-Floyd-Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 08/24/10
Date Received: 08/24/10

Date Extracted: 09/04/10
Date Analyzed: 09/10/10 18:18
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.54 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 15.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.3	---
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	110%	

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: LCS-090410

LAB CONTROL

Lab Sample ID: LCS-090410

LIMS ID: 10-21247

Matrix: Soil

Data Release Authorized: 

Reported: 09/15/10

QC Report No: RK21-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 08/24/10

Date Received: 08/24/10

Date Extracted: 09/04/10

Date Analyzed: 09/10/10 16:38

Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	63.8	62.5	102%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol 89.8%

Results reported in µg/kg

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

RK21MBS1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD-SNIDER
ARI Job No.: RK21	Project: LORA LAKE APARTMENTS
Lab Sample ID: RK21MBS1	Lab File ID: 0910A004
Matrix (soil/water) SOLID	Extraction: (SepF/Cont/Sonc) SW3550C
Sulfur Cleanup (Y/N) Y	Date Extracted: 09/04/10
Date Analyzed (1): 09/10/10	Date Analyzed (2): 09/10/10
Time Analyzed (1): 1618	Time Analyzed (2): 1618
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): ZB5 ID: 0.53 (mm)	GC Column (2): ZB35 ID: 0.53 (mm)

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	RK21LCSS1	RK21LCSS1	09/10/10	09/10/10
02	MW15-50-55-0	RK21A	09/10/10	09/10/10
03	MW16-39-40-0	RK21B	09/10/10	09/10/10
04	MW16-39-40-0	RK21C	09/10/10	09/10/10
05	MW16-39-40-0	RK21CMS	09/10/10	09/10/10
06	MW16-39-40-0	RK21CMSD	09/10/10	09/10/10
07	PSB21-0-0.5-	RK84A	09/10/10	09/10/10
08	PSB21-1.5-2-	RK84B	09/10/10	09/10/10
09	PSB21-2-4-08	RK84C	09/10/10	09/10/10
10	PSB21-4-6-08	RK84D	09/10/10	09/10/10
11	PSB21-6-7-08	RK84E	09/10/10	09/10/10
12	PSB21-9-11-0	RK84F	09/10/10	09/10/10
13	PSB19-0-1-08	RK84H	09/10/10	09/10/10
14	PSB19-1-2-08	RK84I	09/10/10	09/10/10
15	PSB19-2-4-08	RK84J	09/10/10	09/10/10
16	PSB19-13-15-	RK84K	09/10/10	09/10/10
17	PSB19-13-15-	RK84KMS	09/10/10	09/10/10
18	PSB19-13-15-	RK84KMSD	09/10/10	09/10/10
19	MW17-50-51-0	RK89A	09/10/10	09/10/10

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MB-090410

METHOD BLANK

Lab Sample ID: MB-090410

LIMS ID: 10-21247

Matrix: Soil

Data Release Authorized: 

Reported: 09/15/10

QC Report No: RK21-Floyd-Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: NA

Date Received: NA

Date Extracted: 09/04/10

Date Analyzed: 09/10/10 16:18

Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	86.8%
----------------------	-------

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	RT OF STANDARDS					MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		FROM	TO
Pentachlorophenol	11.22	11.22	11.22	11.21	11.21	11.21	11.15	11.29
2,4,6-Trichloropheno	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
2,3,6-Trichloropheno	7.62	7.62	7.62	7.61	7.61	7.62	7.55	7.69
2,4,5-Trichloropheno	8.25	8.24	8.23	8.22	8.21	8.23	8.17	8.31
2,3,4-Trichloropheno	8.81	8.79	8.78	8.77	8.76	8.78	8.72	8.86
2,3,5,6-Tetrachlorop	9.01	9.01	9.00	9.00	8.99	9.00	8.94	9.08
2,3,4,5-Tetrachlorop	10.42	10.41	10.41	10.40	10.39	10.40	10.34	10.48
2,4-Dichlorophenol	6.90	6.89	6.89	6.89	6.88	6.89	6.82	6.96
2,4,6-Tribromophenol	10.01	10.00	10.00	9.99	9.98	10.00	9.93	10.07

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	RT OF STANDARDS					MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		FROM	TO
Pentachlorophenol	11.66	11.65	11.65	11.65	11.65	11.65	11.59	11.73
2,4,6-Trichloropheno	7.33	7.33	7.33	7.33	7.33	7.33	7.26	7.40
2,3,6-Trichloropheno	7.86	7.86	7.86	7.86	7.85	7.86	7.79	7.93
2,4,5-Trichloropheno	8.62	8.61	8.60	8.59	8.59	8.60	8.54	8.69
2,3,4-Trichloropheno	9.38	9.37	9.36	9.36	9.35	9.36	9.31	9.45
2,3,5,6-Tetrachlorop	9.28	9.27	9.27	9.26	9.26	9.27	9.21	9.35
2,3,4,5-Tetrachlorop	11.13	11.12	11.11	11.11	11.10	11.11	11.06	11.20
2,4-Dichlorophenol	7.17	7.16	7.16	7.16	7.15	7.16	7.10	7.24
2,4,6-Tribromophenol	10.65	10.64	10.64	10.63	10.63	10.64	10.58	10.72

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	24528	19824	17830	15337	13686	11965	0.9996	Q
2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	0.9997	Q
2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	0.9998	Q
2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	19.7	A
2,3,4-Trichlorophenol	8393	7068	7135	7922	5474	5053	19.4	A
2,3,5,6-Tetrachloroph	17905	15060	14996	14233	11882	10558	18.4	A
2,3,4,5-Tetrachloroph	16324	13459	12294	10216	8895	7628	0.9995	Q
2,4-Dichlorophenol	721	627	611	486	409	342	0.9993	Q
2,4,6-Tribromophenol	18561	14998	13969	12135	11200	9940	0.9997	Q
AVE RSD							23.3	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
- LVL 2: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
- LVL 3: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A008.d
- LVL 4: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
- LVL 5: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A009.d
- LVL 6: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A010.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	28790	24995	23903	21206	20507	18368	16.2	A
2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10070	14.0	A
2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	14.6	A
2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	0.9997	Q
2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	0.9995	Q
2,3,5,6-Tetrachloroph	22710	20100	18581	17733	16666	15298	14.2	A
2,3,4,5-Tetrachloroph	18414	16106	15136	13550	12798	11541	17.0	A
2,4-Dichlorophenol	859	720	733	619	536	458	0.9997	Q
2,4,6-Tribromophenol	22648	19438	18816	17793	17226	16083	12.2	A
AVE RSD							17.9	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
 LVL 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
 LVL 3: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A008.d
 LVL 4: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A005.d
 LVL 5: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A009.d
 LVL 6: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A010.d

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :1558

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	11.22	11.15	11.29	24.8	25.0	-0.8
2,4,6-Trichlorophenol	7.27	7.19	7.33	26.0	25.0	4.0
2,3,6-Trichlorophenol	7.62	7.55	7.69	26.5	25.0	6.0
2,4,5-Trichlorophenol	8.23	8.17	8.31	28.6	25.0	14.4
2,3,4-Trichlorophenol	8.78	8.72	8.86	23.9	25.0	-4.4
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	24.4	25.0	-2.4
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	25.1	25.0	0.4
2,4-Dichlorophenol	6.89	6.82	6.96	240	250	-4.0
2,4,6-Tribromophenol (surr)	10.00	9.93	10.07	25.0	25.0	0.0

AVERAGE %D = 4.0

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :1558

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	11.66	11.59	11.73	24.4	25.0	-2.4
2,4,6-Trichlorophenol	7.34	7.26	7.40	25.3	25.0	1.2
2,3,6-Trichlorophenol	7.86	7.79	7.93	23.8	25.0	-4.8
2,4,5-Trichlorophenol	8.60	8.54	8.69	26.4	25.0	5.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	27.4	25.0	9.6
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	25.6	25.0	2.4
2,3,4,5-Tetrachlorophenol	11.12	11.06	11.20	23.7	25.0	-5.2
2,4-Dichlorophenol	7.16	7.10	7.24	259	250	3.6
2,4,6-Tribromophenol (surr)	10.64	10.58	10.72	24.4	25.0	-2.4

AVERAGE %D = 4.1

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :1958

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
=====	=====	FROM	TO	=====	=====	=====
Pentachlorophenol	11.22	11.15	11.29	24.4	25.0	-2.4
2,4,6-Trichlorophenol	7.27	7.19	7.33	25.7	25.0	2.8
2,3,6-Trichlorophenol	7.62	7.55	7.69	24.0	25.0	-4.0
2,4,5-Trichlorophenol	8.22	8.17	8.31	25.6	25.0	2.4
2,3,4-Trichlorophenol	8.77	8.72	8.86	23.4	25.0	-6.4
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	24.4	25.0	-2.4
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	24.0	25.0	-4.0
2,4-Dichlorophenol	6.89	6.82	6.96	24.2	25.0	-3.2
2,4,6-Tribromophenol (surr)	10.00	9.93	10.07	25.0	25.0	0.0

AVERAGE %D = 3.1

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :1958

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
=====	=====	FROM	TO	=====	=====	=====
Pentachlorophenol	11.65	11.59	11.73	24.7	25.0	-1.2
2,4,6-Trichlorophenol	7.34	7.26	7.40	25.8	25.0	3.2
2,3,6-Trichlorophenol	7.86	7.79	7.93	24.1	25.0	-3.6
2,4,5-Trichlorophenol	8.60	8.54	8.69	26.5	25.0	6.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	25.1	25.0	0.4
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	25.1	25.0	0.4
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	23.8	25.0	-4.8
2,4-Dichlorophenol	7.16	7.10	7.24	261	250	4.4
2,4,6-Tribromophenol (surr)	10.64	10.58	10.72	24.8	25.0	-0.8

AVERAGE %D = 2.8

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :2357

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
=====	=====	FROM	TO	=====	=====	=====
Pentachlorophenol	11.22	11.15	11.29	25.0	25.0	0.0
2,4,6-Trichlorophenol	7.27	7.19	7.33	26.8	25.0	7.2
2,3,6-Trichlorophenol	7.62	7.55	7.69	26.3	25.0	5.2
2,4,5-Trichlorophenol	8.22	8.17	8.31	26.4	25.0	5.6
2,3,4-Trichlorophenol	8.77	8.72	8.86	23.5	25.0	-6.0
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	25.1	25.0	0.4
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	24.9	25.0	-0.4
2,4-Dichlorophenol	6.89	6.82	6.96	247	250	-1.2
2,4,6-Tribromophenol (surr)	10.00	9.93	10.07	25.6	25.0	2.4

AVERAGE %D = 3.2

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No. (PCP):

Date Analyzed :09/10/10

Lab Sample ID (PCP): PCPCCAL

Time Analyzed :2357

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
=====	=====	FROM	TO	=====	=====	=====
Pentachlorophenol	11.66	11.59	11.73	24.8	25.0	-0.8
2,4,6-Trichlorophenol	7.34	7.26	7.40	27.0	25.0	8.0
2,3,6-Trichlorophenol	7.86	7.79	7.93	25.2	25.0	0.8
2,4,5-Trichlorophenol	8.60	8.54	8.69	27.9	25.0	11.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	26.1	25.0	4.4
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	26.0	25.0	4.0
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	24.6	25.0	-1.6
2,4-Dichlorophenol	7.16	7.10	7.24	276	250	10.4
2,4,6-Tribromophenol (surr)	10.64	10.58	10.72	25.5	25.0	2.0

AVERAGE %D = 4.8

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5

ID: 0.53 (mm)

Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 10.00					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01		08/09/10	1223	9.99	
02		08/09/10	1243	10.01	
03		08/09/10	1303	10.00	
04		08/09/10	1323	10.00	
05		08/09/10	1343	9.98	
06		08/09/10	1403	9.98	
07	ZZZZZ	08/09/10	1423	10.00	
08	ZZZZZ	09/10/10	1518	10.00	
09	ZZZZZ	09/10/10	1538	10.00	
10		09/10/10	1558	10.00	
11	RK21MBS1	09/10/10	1618	10.00	
12	RK21LCSS1	09/10/10	1638	10.00	
13	MW15-50-55-0	09/10/10	1658	10.00	
14	MW16-39-40-0	09/10/10	1718	10.00	
15	MW16-39-40-0	09/10/10	1738	10.00	
16	MW16-39-40-0	09/10/10	1758	10.00	
17	MW16-39-40-0	09/10/10	1818	9.99	
18	PSB21-0-0.5-	09/10/10	1838	9.99	
19	PSB21-1.5-2-	09/10/10	1858	9.99	
20	PSB21-2-4-08	09/10/10	1918	9.99	
21	ZZZZZ	09/10/10	1938	10.00	
22		09/10/10	1958	10.00	
23	PSB21-4-6-08	09/10/10	2018	9.99	
24	PSB21-6-7-08	09/10/10	2038	9.99	
25	PSB21-9-11-0	09/10/10	2058	9.99	
26	PSB19-0-1-08	09/10/10	2118	9.99	
27	PSB19-1-2-08	09/10/10	2138	9.99	
28	PSB19-2-4-08	09/10/10	2158	10.00	
29	PSB19-13-15-	09/10/10	2218	10.00	
30	PSB19-13-15-	09/10/10	2237	9.99	
31	PSB19-13-15-	09/10/10	2257	10.00	
32	MW17-50-51-0	09/10/10	2317	10.00	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB5

ID: 0.53 (mm)

Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 10.00					
	CLIENT	LAB	DATE	TIME	S1
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #
	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	09/10/10	2337	10.00
02		PCPCCAL	09/10/10	2357	10.00

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35

ID: 0.53 (mm)

Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION				
S1 : 10.65				
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
=====				
01		PCPD	08/09/10	1223
02		PCPA	08/09/10	1243
03		PCPB	08/09/10	1303
04		PCPC	08/09/10	1323
05		PCPE	08/09/10	1343
06		PCPF	08/09/10	1403
07	ZZZZZ	ZZZZZ	08/09/10	1423
08	ZZZZZ	ZZZZZ	09/10/10	1518
09	ZZZZZ	ZZZZZ	09/10/10	1538
10		PCPCCAL	09/10/10	1558
11	RK21MBS1	RK21MBS1	09/10/10	1618
12	RK21LCSS1	RK21LCSS1	09/10/10	1638
13	MW15-50-55-0	RK21A	09/10/10	1658
14	MW16-39-40-0	RK21B	09/10/10	1718
15	MW16-39-40-0	RK21C	09/10/10	1738
16	MW16-39-40-0	RK21CMS	09/10/10	1758
17	MW16-39-40-0	RK21CMSD	09/10/10	1818
18	PSB21-0-0.5-	RK84A	09/10/10	1838
19	PSB21-1.5-2-	RK84B	09/10/10	1858
20	PSB21-2-4-08	RK84C	09/10/10	1918
21	ZZZZZ	ZZZZZ	09/10/10	1938
22		PCPCCAL	09/10/10	1958
23	PSB21-4-6-08	RK84D	09/10/10	2018
24	PSB21-6-7-08	RK84E	09/10/10	2038
25	PSB21-9-11-0	RK84F	09/10/10	2058
26	PSB19-0-1-08	RK84H	09/10/10	2118
27	PSB19-1-2-08	RK84I	09/10/10	2138
28	PSB19-2-4-08	RK84J	09/10/10	2158
29	PSB19-13-15-	RK84K	09/10/10	2218
30	PSB19-13-15-	RK84KMS	09/10/10	2237
31	PSB19-13-15-	RK84KMSD	09/10/10	2257
32	MW17-50-51-0	RK89A	09/10/10	2317

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

ARI Job No.: RK21

Project: LORA LAKE APARTMENTS

GC Column: ZB35

ID: 0.53 (mm)

Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION				
S1 : 10.65				
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01 ZZZZZ	ZZZZZ	09/10/10	2337	10.64
02	PCPCCAL	09/10/10	2357	10.64

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: RK21, RK89

SAMPLE RESULTS-CONVENTIONALS
RK21-Floyd-Snider



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 08/23/10
Date Received: 08/24/10


Client ID: MW15-50-55-082310
ARI ID: 10-21245 RK21A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/27/10 082710#1	EPA 160.3	Percent	0.01	81.00
Total Organic Carbon	09/08/10 090810#1	Plumb, 1981	Percent	0.020	0.228

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RK21-Floyd-Snider



Matrix: Soil
Data Release Authorized: 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 08/24/10
Date Received: 08/24/10


Client ID: MW16-39-40-082410
ARI ID: 10-21246 RK21B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/27/10 082710#1	EPA 160.3	Percent	0.01	82.10
Total Organic Carbon	09/08/10 090810#1	Plumb, 1981	Percent	0.020	0.102

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
RK21-Floyd-Snyder




Matrix: Soil
Data Release Authorized: 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/27/10	Percent	< 0.01 U
Total Organic Carbon	09/08/10	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
RK21-Floyd-Snider




Matrix: Soil
Data Release Authorized 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon Plumb, 1981	ICVL	09/08/10	Percent	0.102	0.100	102.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
RK21-Floyd-Snider




Matrix: Soil
Data Release Authorized: 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	09/08/10	Percent	3.23	3.35	96.4%

REPLICATE RESULTS-CONVENTIONALS
RK21-Floyd-Snider




Matrix: Soil
Data Release Authorized: 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 08/23/10
Date Received: 08/24/10

Analyte	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: RK21A Client ID: MW15-50-55-082310					
Total Solids	08/27/10	Percent	81.00	79.80 81.50	1.1%
Total Organic Carbon	09/08/10	Percent	0.228	0.248 0.209	8.5%

MS/MSD RESULTS-CONVENTIONALS
RK21-Floyd-Snider



Matrix: Soil
Data Release Authorized: 
Reported: 09/09/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 08/23/10
Date Received: 08/24/10

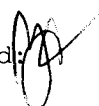
Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
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ARI ID: RK21A Client ID: MW15-50-55-082310

Total Organic Carbon	09/08/10	Percent	0.228	1.36	0.988	114.6%
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SAMPLE RESULTS-CONVENTIONALS
RK89-Floyd/Snider



Matrix: Soil
Data Release Authorized: 
Reported: 09/03/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 08/26/10
Date Received: 08/26/10

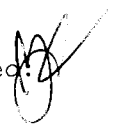
Client ID: MW17-50-51-082610
ARI ID: 10-21749 RK89A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/30/10 083010#1	EPA 160.3	Percent	0.01	77.70
Total Organic Carbon	08/31/10 083110#1	Plumb, 1981	Percent	0.020	0.412

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
RK89-Floyd/Snider



Matrix: Soil
Data Release Authorized: 
Reported: 09/03/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/30/10	Percent	< 0.01 U
Total Organic Carbon	08/31/10	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
RK89-Floyd/Snider



Matrix: Soil
Data Release Authorized:
Reported: 09/03/10


A handwritten signature in black ink, appearing to be 'MS' or similar, written over the 'Data Release Authorized:' line.

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon Plumb, 1981	ICVL	08/31/10	Percent	0.094	0.100	94.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
RK89-Floyd/Snider



Matrix: Soil
Data Release Authorized: 
Reported: 09/03/10

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/31/10	Percent	3.31	3.35	98.8%

Total Solids

ARI Job ID: RK21, RK89

Volatiles Total Solids-voats
Data By: Pat Basilio
Created: 9/ 1/10

Worklist: 232
Analyst: PAB
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. RK21A 10-21245	1.46	7.45	6.35	81.64
2. RK21B 10-21246	1.48	8.66	7.25	80.36
3. RK21C 10-21247	1.47	8.47	7.39	84.57

Volatiles Total Solids-voats
Data By: Pat Basilio
Created: 9/ 1/10

Worklist: 232
Analyst: PAB
Comments:

Oven ID: 11

Balance ID: 40030016 PT120

Samples In: Date: 9/1/10 Time: 3:30pm Temp: 105 Analyst: LD

Samples Out: Date: 9/1/10 Time: 2:00pm Temp: 100 Analyst: LD

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. RK21A 10-21245	<u>1.46</u>	<u>7.45</u>	<u>6.35</u>	
2. RK21B 10-21246	<u>1.48</u>	<u>8.66</u>	<u>7.25</u>	
3. RK21C 10-21247	<u>1.47</u>	<u>8.47</u>	<u>7.39</u>	

Volatiles Total Solids-voats
Data By: Pat Basilio
Created: 9/ 6/10

Worklist: 1726
Analyst: PAB
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. RK89A 10-21749	_____	_____	_____	\$ 77.80

SD

Extractions Total Solids-exttts
Data By: Nhon Luu
Created: 9/ 4/10

Worklist: 1444
Analyst: RVR
Comments:

Floyd-Snyder

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. RK21A 10-21245 MW15-50-55-082310	1.18	14.71	12.37	82.7	NR
2. RK21B 10-21246 MW16-39-40-082410	1.17	12.75	10.55	81.0	NR
3. RK21C 10-21247 MW16-39-40-082410-D	1.18	11.54	9.97	84.8	NR

Extractions Total Solids-exttts
Data By: Nhon Luu
Created: 9/ 4/10

Worklist: 1444
Analyst: NL
Comments:

Oven ID: 015

Balance ID: 21754820

Samples In: Date: 9/4/10 Time: 0835 Temp: 100 Analyst: NL

Samples Out: Date: 9/6/10 Time: 06:40 Temp: 100° Analyst: RR

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. RK21A 10-21245 MW15-50-55-082310	<u>1.18</u>	<u>14.71</u>	<u>12.37</u>		NR
2. RK21B 10-21246 MW16-39-40-082410	<u>1.17</u>	<u>12.75</u>	<u>10.55</u>		NR
3. RK21C 10-21247 MW16-39-40-082410-D	<u>1.18</u>	<u>11.54</u>	<u>9.97</u>		NR

50

Floyd-Sunder

Extractions Total Solids-exttts
Data By: Nhon Luu
Created: 9/ 4/10

Worklist: 1449
Analyst: RVR
Comments:

Oven ID: _____

Balance ID: _____

Samples In: Date: _____ Time: _____ Temp: _____ Analyst: _____

Samples Out: Date: _____ Time: _____ Temp: _____ Analyst: _____

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. RK89A 10-21749 MW17-50-51-082610	1.17	11.20	8.97	77.8	NR

Extractions Total Solids-exttts
Data By: Nhon Luu
Created: 9/ 4/10

Worklist: 1449
Analyst: NL
Comments:

Oven ID: 015

Balance ID: 21754520

Samples In: Date: 9/4/10 Time: 0835 Temp: 100 Analyst: M

Samples Out: Date: 9/6/10 Time: 06:40 Temp: 100° Analyst: RP

ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1. RK89A 10-21749 MW17-50-51-082610	<u>1.17</u>	<u>11.20</u>	<u>8.97</u>		NR

**Volatile Raw Data
Preparation Log**

ARI Job ID: RK21, RK89



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No. RK21

Client ID/Project

Extraction Date

MeOH Lot No. PK306 Analyst

1st Extraction:

2nd Extraction:

Lab ID	Vial No.	Preservative		Method 5035 Sample Weight				MeOH Spilt Volume	Comments
		NaHSO ₃	CH ₃ OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume		
MB:									
LCS:									
LCSD:									
1	3	-		42.27	31.339	10.961			
2	3	-		42.15	31.410	10.740			
3	8	-		41.10	31.717	9.683			
4	4	-		41.50	31.302	10.198			
5	3	-		41.28	31.787	9.899			
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Balance ID:									

Solution ID

Concentration

Amount Spiked

Analyst

Witness

Surrogate:

Spike:



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No. RK21

Client ID/Project

Extraction Date

MeOH Lot No.

Analyst

1st Extraction:

2nd Extraction:

Lab ID	Vial No.	Preservative		Method 5035 Sample Weight				MeOH Spilt Volume	Comments
		NaHSO ₃	CH ₃ OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume		
MB:									
LCS:									
LCSD:									
1	RK21 A } B (	✓		42.32	32.03	10.28			
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Balance ID:									

Surrogate: _____

Solution ID _____

Concentration _____

Amount Spiked _____

Analyst _____

Witness _____

RK21 : 00104

**Volatile Raw Data
Initial Calibration Notes and Raw Data**

ARI Job ID: RK21, RK89



VOA Analyst Notes / Corrective Action Log

ARI Project ID: MTG ICal Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 **NT-9** NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 8/2/10 Analysis Start Date: 8/2/10

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / **No**

Analyst: _____ Date: 9/2/10

Reviewer: AB Date: 9/2/10

Date : 28-AUG-2010 07:45

Client ID: BFB0828

Instrument: nt9.i

Sample Info: BFB0828,BFB0828,,1,28AUG10,,

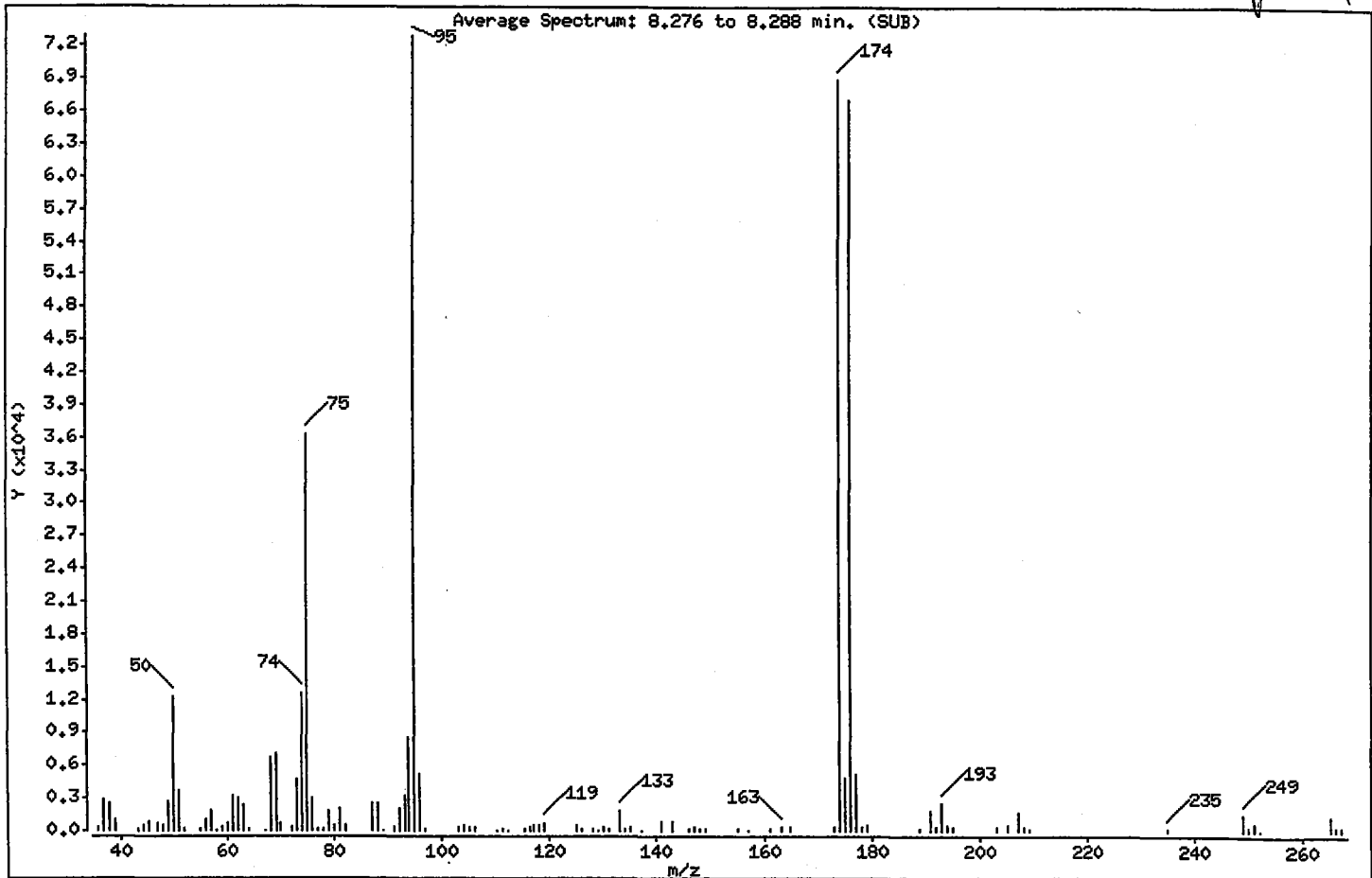
Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene

Handwritten: 9/26



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.76
75	30.00 - 66.00% of mass 95	49.85
96	5.00 - 9.00% of mass 95	7.19
173	Less than 2.00% of mass 174	0.46 (0.49)
174	50.00 - 101.00% of mass 95	94.44
175	4.00 - 9.00% of mass 174	6.67 (7.06)
176	93.00 - 101.00% of mass 174	91.93 (97.34)
177	5.00 - 9.00% of mass 176	7.06 (7.68)

Date : 28-AUG-2010 07:45

Client ID: BFB0828

Instrument: nt9.1

Sample Info: BFB0828,BFB0828,,1,28AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb08280.d

Spectrum: Average Spectrum: 8.276 to 8.288 min. (SUB)

Location of Maximum: 95.00

Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.00	383	| 72.00	370	| 112.00	67	| 173.00	337
| 37.00	2783	| 73.00	4646	| 115.00	140	| 174.00	68840
| 38.00	2596	| 74.00	12549	| 116.00	270	| 175.00	4860
| 39.00	1028	| 75.00	36336	| 117.00	579	| 176.00	67016
| 43.00	171	| 76.00	3036	| 118.00	486	| 177.00	5144
| 44.00	505	| 77.00	222	| 119.00	711	| 178.00	294
| 45.00	771	| 78.00	240	| 125.00	546	| 179.00	515
| 47.00	626	| 79.00	1890	| 126.00	184	| 189.00	142
| 48.00	420	| 80.00	568	| 128.00	240	| 191.00	1872
| 49.00	2714	| 81.00	2029	| 129.00	62	| 192.00	407
| 50.00	12217	| 82.00	430	| 130.00	311	| 193.00	2498
| 51.00	3643	| 87.00	2567	| 131.00	124	| 194.00	510
| 52.00	200	| 88.00	2511	| 133.00	1910	| 195.00	309
| 55.00	224	| 89.00	67	| 134.00	87	| 203.00	267
| 56.00	986	| 91.00	283	| 135.00	330	| 205.00	508
| 57.00	1791	| 92.00	2026	| 137.00	60	| 207.00	1704
| 58.00	51	| 93.00	3113	| 141.00	759	| 208.00	343
| 59.00	361	| 94.00	8567	| 143.00	826	| 209.00	155
| 60.00	622	| 95.00	72896	| 146.00	111	| 235.00	211
| 61.00	3175	| 96.00	5238	| 147.00	278	| 249.00	1515
| 62.00	3089	| 97.00	197	| 148.00	241	| 250.00	403
| 63.00	2347	| 103.00	356	| 149.00	183	| 251.00	614
| 64.00	164	| 104.00	426	| 155.00	175	| 252.00	54
| 67.00	59	| 105.00	265	| 157.00	54	| 265.00	1352
| 68.00	6691	| 106.00	334	| 161.00	153	| 266.00	408
| 69.00	7006	| 110.00	63	| 163.00	356	| 267.00	303
| 70.00	655	| 111.00	129	| 165.00	293		

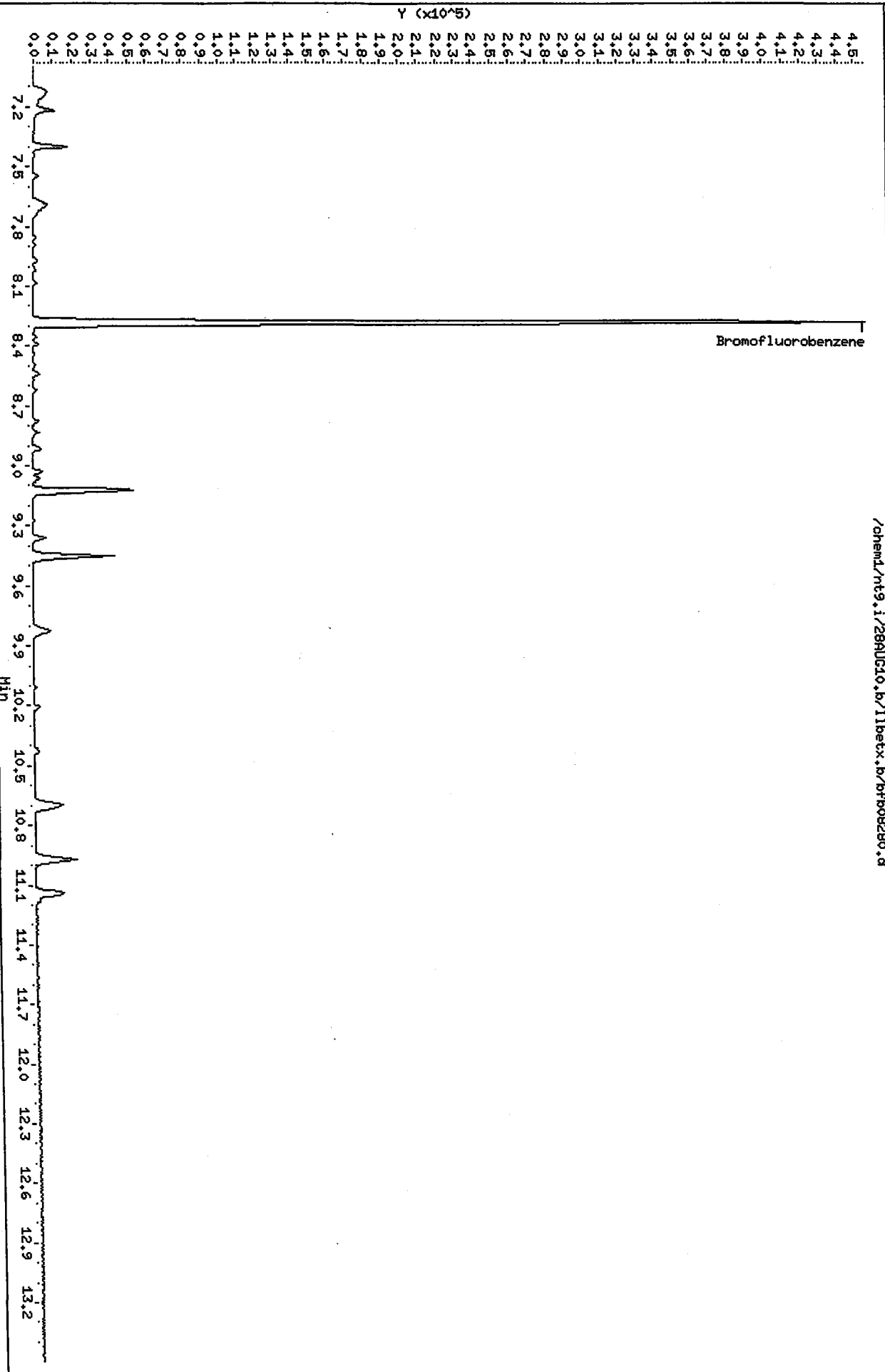
Data File: /chem1/nt9.i/28AUG10.b/11betx.b/bfb08280.d
Date: 28-AUG-2010 07:45
Client ID: BFB0828
Sample Info: BFB0828,BFB0828,,1,28AUG10,,

Instrument: nt9.i

Column phase: RTX502.2

Operator: PB
Column diameter: 0.18

/chem1/nt9.i/28AUG10.b/11betx.b/bfb08280.d



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-AUG-2010 12:52
 End Cal Date : 28-AUG-2010 16:21
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Cal Date : 02-Sep-2010 10:04 patrickb
 Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt9.i/28AUG10.b/11betx.b/0010828.d
- Level 2: /chem1/nt9.i/28AUG10.b/11betx.b/0020828.d
- Level 3: /chem1/nt9.i/28AUG10.b/11betx.b/0050828.d
- Level 4: /chem1/nt9.i/28AUG10.b/11betx.b/0100828.d
- Level 5: /chem1/nt9.i/28AUG10.b/11betx.b/0500828.d
- Level 6: /chem1/nt9.i/28AUG10.b/11betx.b/1000828.d
- Level 7: /chem1/nt9.i/28AUG10.b/11betx.b/1500828.d
- Level 8: /chem1/nt9.i/28AUG10.b/11betx.b/2000828.d

pg 2/6

Compound	1.000	2.000	5.000	10.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	150.000	200.000						
	Level 7	Level 8						
15 Trans-1,2-Dichloroethene	0.51402 0.55726	0.44676 0.56926	0.46277	0.47513	0.47849	0.57736	0.51013	10.142
20 Cis-1,2-Dichloroethene	0.48917 0.52431	0.41464 0.53780	0.44768	0.46073	0.46216	0.53041	0.48336	9.201
30 Benzene	1.32638 1.46478	1.18660 1.51452	1.23515	1.26601	1.27868	1.48595	1.34476	9.368
33 1,2-Dichloroethane	0.39130 0.40958	0.33993 0.41716	0.36738	0.38396	0.38080	0.40438	0.38681	6.473
34 Trichloroethene	0.36714 0.40032	0.32330 0.41556	0.34682	0.34800	0.35294	0.41807	0.37152	9.538
43 Toluene	1.03514 1.02215	0.85549 1.06128	0.86756	0.87730	0.88499	1.04109	0.95562	9.535

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-AUG-2010 12:52
 End Cal Date : 28-AUG-2010 16:21
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Cal Date : 02-Sep-2010 10:04 patrickb
 Curve Type : Average

Compound	1.000	2.000	5.000	10.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	150.000	200.000						
	Level 7	Level 8						
44 Tetrachloroethene	0.55860	0.48183	0.48172	0.49322	0.50901	0.62547		
	0.58919	0.60919					0.54353	10.926
54 Ethyl Benzene	2.02002	1.78634	1.82546	1.89117	1.92492	2.32640		
	2.26623	2.35247					2.04913	11.315
56 m,p-xylene	0.81500	0.70598	0.74855	0.77341	0.80494	0.96610		
	0.91344	0.90257					0.82875	10.870
57 o-Xylene	0.73725	0.65651	0.70844	0.73580	0.73913	0.86456		
	0.85023	0.88429					0.77203	10.757
\$ 25 Dibromofluoromethane	0.36234	0.35910	0.36558	0.36940	0.37735	0.37880		
	0.38862	0.38978					0.37387	3.111
\$ 31 d4-1,2-Dichloroethane	0.38156	0.37856	0.38687	0.38650	0.39071	0.37956		
	0.38432	0.38267					0.38384	1.062
\$ 42 d8-Toluene	1.12727	1.13191	1.13958	1.14128	1.14178	1.12624		
	1.12676	1.12835					1.13290	0.605
\$ 61 4-Bromofluorobenzene	0.45724	0.46015	0.47109	0.47490	0.46790	0.46064		
	0.45738	0.45543					0.46309	1.563
\$ 78 d4-1,2-Dichlorobenzene	0.87020	0.86950	0.88301	0.87935	0.88127	0.86506		
	0.87680	0.86706					0.87403	0.790

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
Batch File: /chem1/nt9.i/28AUG10.b/11betx.b
Inst ID: nt9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Trans-1,2-Dichloroethene	3.033	3.018	3.021	3.027	3.036	3.030	3.036	3.036	3.036	2.937-3.134	3.030	0.007
20 Cis-1,2-Dichloroethene	4.136	4.133	4.135	4.136	4.139	4.139	4.139	4.139	4.139	4.040-4.237	4.137	0.002
\$ 25 Dibromofluoromethane	4.526	4.529	4.531	4.532	4.529	4.529	4.529	4.529	4.529	4.430-4.628	4.529	0.002
30 Benzene	4.831	4.828	4.825	4.832	4.829	4.829	4.829	4.829	4.829	4.722-4.935	4.829	0.002
\$ 31 d4-1,2-Dichloroethane	4.939	4.936	4.938	4.939	4.936	4.937	4.936	4.937	4.936	4.838-5.035	4.937	0.001
* 32 Pentafluorobenzene	4.933	4.930	4.933	4.933	4.936	4.931	4.936	4.937	4.936	4.837-5.035	4.934	0.003
33 1,2-Dichloroethane	4.990	4.993	4.989	4.990	4.993	4.988	4.993	4.993	4.993	4.886-5.099	4.991	0.002
34 Trichloroethene	5.284	5.281	5.283	5.284	5.281	5.282	5.281	5.282	5.281	5.175-5.388	5.282	0.001
* 35 1,4-Difluorobenzene	5.324	5.321	5.323	5.324	5.321	5.321	5.321	5.321	5.321	5.215-5.427	5.322	0.001
\$ 42 d8-Toluene	6.308	6.305	6.307	6.308	6.305	6.306	6.305	6.306	6.305	6.199-6.412	6.306	0.001
43 Toluene	6.342	6.344	6.341	6.342	6.345	6.345	6.345	6.345	6.345	6.238-6.451	6.344	0.002
44 Tetrachloroethene	6.608	6.610	6.607	6.608	6.611	6.611	6.611	6.611	6.611	6.463-6.759	6.610	0.002
* 52 d5-Chlorobenzene	7.400	7.402	7.399	7.400	7.397	7.397	7.397	7.397	7.397	7.249-7.545	7.399	0.002
54 Ethyl Benzene	7.439	7.442	7.439	7.439	7.437	7.437	7.437	7.437	7.437	7.289-7.585	7.438	0.002
56 m,p-xylene	7.547	7.549	7.546	7.547	7.544	7.544	7.544	7.544	7.544	7.396-7.692	7.546	0.002
57 o-xylene	7.852	7.855	7.852	7.852	7.850	7.850	7.850	7.850	7.850	7.702-7.997	7.851	0.002
\$ 61 4-Bromofluorobenzene	8.282	8.302	8.281	8.277	8.274	8.280	8.274	8.274	8.274	8.126-8.422	8.280	0.009

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Reviewer 1 _____ Date: 9/2/10
Reviewer 2 _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Batch File: /chem1/nt9.i/28AUG10.b/11betx.b
 Inst ID: nt9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 75 d4-1,4-Dichlorobenzene	9.119	9.128	9.119	9.114	9.111	9.111	9.111	9.106	9.111	8.929-9.293	9.115	0.007
\$ 78 d4-1,2-Dichlorobenzene	9.447	9.450	9.441	9.436	9.434	9.434	9.433	9.434	9.434	9.251-9.616	9.439	0.007

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Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/0010828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD001
 Inj Date : 28-AUG-2010 12:52
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 12:52 Cal File: 0010828.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.033	3.036	(0.615)	6102	1.00000	1.008
20 Cis-1,2-Dichloroethene	96	4.136	4.139	(0.838)	5807	1.00000	1.012
* 32 Pentafluorobenzene	168	4.933	4.936	(1.000)	593554	50.0000	
\$ 25 Dibromofluoromethane	111	4.526	4.529	(0.917)	215070	50.0000	48.458
\$ 31 d4-1,2-Dichloroethane	65	4.939	4.936	(1.001)	226475	50.0000	49.702
33 1,2-Dichloroethane	62	4.990	4.993	(0.937)	6187	1.00000	1.012
30 Benzene	78	4.831	4.829	(0.908)	20972	1.00000	0.9863
* 35 1,4-Difluorobenzene	114	5.324	5.321	(1.000)	790571	50.0000	
34 Trichloroethene	95	5.284	5.281	(0.993)	5805	1.00000	0.9882
\$ 42 d8-Toluene	98	6.308	6.305	(1.185)	891184	50.0000	49.751
43 Toluene	92	6.342	6.345	(1.191)	16367	1.00000	1.083
44 Tetrachloroethene	166	6.608	6.611	(0.893)	7770	1.00000	1.028
* 52 d5-Chlorobenzene	117	7.400	7.397	(1.000)	695489	50.0000	
54 Ethyl Benzene	91	7.439	7.437	(1.005)	28098	1.00000	0.9858

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.547	7.544	(1.020)	22673	2.00000	1.967
57 o-Xylene	106	7.852	7.850	(1.061)	10255	1.00000	0.9550
\$ 61 4-Bromofluorobenzene	95	8.282	8.274	(1.119)	318004	50.0000	49.368
* 75 d4-1,4-Dichlorobenzene	152	9.119	9.111	(1.000)	387125	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.447	9.434	(1.036)	336878	50.0000	49.781

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: 0010828.d
 Lab Smp Id: IC0828
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 28-AUG-2010
 Calibration Time: 14:51
 Client Smp ID: VSTD001
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	593554	-15.72
35 1,4-Difluorobenze	937745	468872	1875490	790571	-15.69
52 d5-Chlorobenzene	853013	426506	1706026	695489	-18.47
75 d4-1,4-Dichlorobe	503655	251828	1007310	387125	-23.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.06
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.05
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.03
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.12	0.09

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.

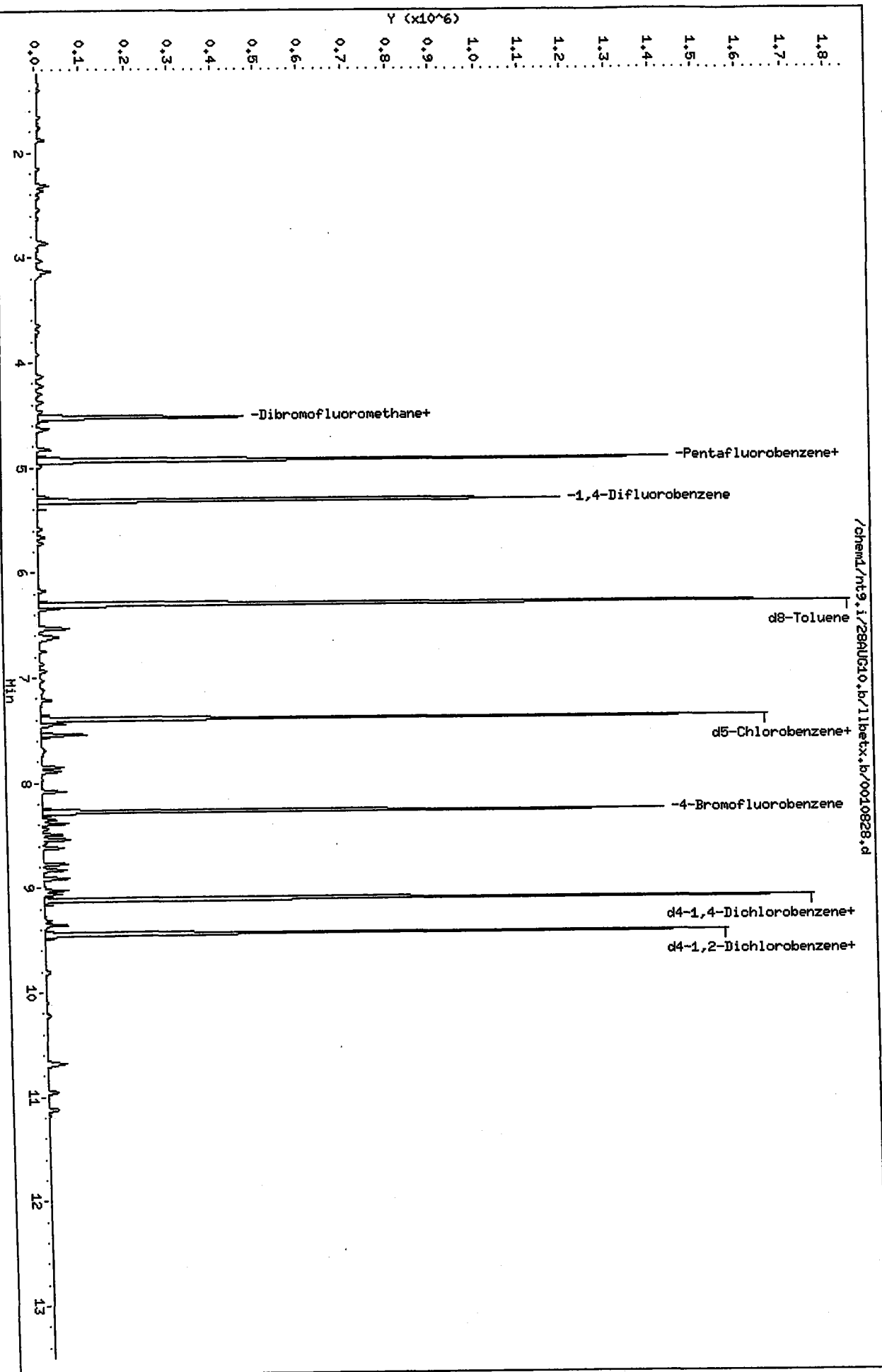
Data File: /chem1/rt9.i/28AUG10.b/11betx.b/0010828.d
Date : 28-AUG-2010 12:52
Client ID: VSTD001
Sample Info: IC0828.5,5,0

Column phase: RTX502.2

Instrument: rt9.i

Operator: PB

Column diameter: 0.18



/chem1/rt9.i/28AUG10.b/11betx.b/0010828.d

Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/0020828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD002
 Inj Date : 28-AUG-2010 16:21
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 16:21 Cal File: 0020828.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $\text{Amt} * \text{DF} * \text{Pv} * 1 / (\text{Sa} * ((100 - \text{M}) / 100)) * \text{CpndVaria}$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96		3.036	3.036	(0.615)	11405	2.00000	1.752
20 Cis-1,2-Dichloroethene	96		4.139	4.139	(0.838)	10585	2.00000	1.716
* 32 Pentafluorobenzene	168		4.937	4.936	(1.000)	638204	50.0000	
\$ 25 Dibromofluoromethane	111		4.529	4.529	(0.917)	229178	50.0000	48.024
\$ 31 d4-1,2-Dichloroethane	65		4.937	4.936	(1.000)	241601	50.0000	49.312
33 1,2-Dichloroethane	62		4.993	4.993	(0.938)	11526	2.00000	1.758
30 Benzene	78		4.829	4.829	(0.908)	40234	2.00000	1.765
* 35 1,4-Difluorobenzene	114		5.321	5.321	(1.000)	847674	50.0000	
34 Trichloroethene	95		5.282	5.281	(0.993)	10962	2.00000	1.740
\$ 42 d8-Toluene	98		6.306	6.305	(1.185)	959492	50.0000	49.957
43 Toluene	92		6.345	6.345	(1.192)	29007	2.00000	1.790
44 Tetrachloroethene	166		6.611	6.611	(0.894)	14506	2.00000	1.773
* 52 d5-Chlorobenzene	117		7.397	7.397	(1.000)	752656	50.0000	
54 Ethyl Benzene	91		7.437	7.437	(1.005)	53780	2.00000	1.744

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.545	7.544	(1.020)	42509	4.00000	3.407
57 o-Xylene	106	7.850	7.850	(1.061)	19765	2.00000	1.701
\$ 61 4-Bromofluorobenzene	95	8.274	8.274	(1.119)	346336	50.0000	49.682
* 75 d4-1,4-Dichlorobenzene	152	9.106	9.111	(1.000)	418493	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.434	(1.036)	363879	50.0000	49.741

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: 0020828.d
 Lab Smp Id: IC0828
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 28-AUG-2010
 Calibration Time: 14:51
 Client Smp ID: VSTD002
 Level: LOW
 Sample Type: SOIL

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	638204	-9.38
35 1,4-Difluorobenze	937745	468872	1875490	847674	-9.61
52 d5-Chlorobenzene	853013	426506	1706026	752656	-11.77
75 d4-1,4-Dichlorobe	503655	251828	1007310	418493	-16.91

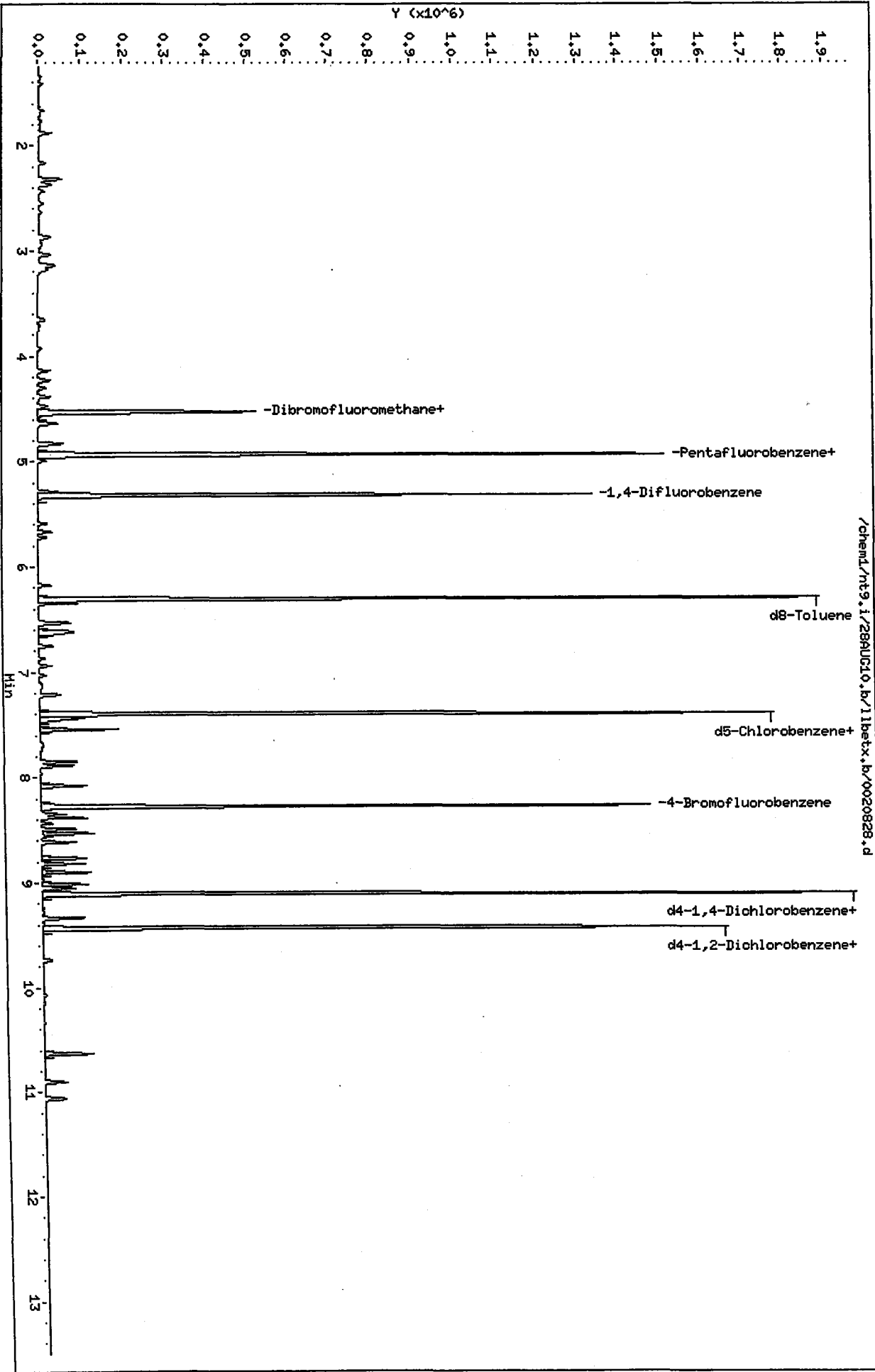
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.94	0.01
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.01
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.06

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.

Data File: /chem1/rt9.i/28AUG10.b/11betx.b/0020828.d
Date: 28-AUG-2010 16:21
Client ID: VSTID002
Sample Info: IC0828,5,5,0

Column phase: RTX502.2

Instrument: rt9.i
Operator: PB
Column diameter: 0.18



/chem1/rt9.i/28AUG10.b/11betx.b/0020828.d

Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/0050828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD005
 Inj Date : 28-AUG-2010 15:51
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 15:51 Cal File: 0050828.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96		3.036	3.036	(0.615)	31766	5.00000	4.536
20 Cis-1,2-Dichloroethene	96		4.139	4.139	(0.838)	30730	5.00000	4.631
* 32 Pentafluorobenzene	168		4.936	4.936	(1.000)	686435	50.0000	
\$ 25 Dibromofluoromethane	111		4.529	4.529	(0.917)	250949	50.0000	48.891
\$ 31 d4-1,2-Dichloroethane	65		4.936	4.936	(1.000)	265558	50.0000	50.394
33 1,2-Dichloroethane	62		4.993	4.993	(0.938)	33721	5.00000	4.749
30 Benzene	78		4.829	4.829	(0.908)	113373	5.00000	4.592
* 35 1,4-Difluorobenzene	114		5.321	5.321	(1.000)	917886	50.0000	
34 Trichloroethene	95		5.281	5.281	(0.993)	31834	5.00000	4.668
\$ 42 d8-Toluene	98		6.305	6.305	(1.185)	1046006	50.0000	50.295
43 Toluene	92		6.345	6.345	(1.192)	79632	5.00000	4.539
44 Tetrachloroethene	166		6.611	6.611	(0.894)	39901	5.00000	4.431
* 52 d5-Chlorobenzene	117		7.397	7.397	(1.000)	828296	50.0000	
54 Ethyl Benzene	91		7.437	7.437	(1.005)	151202	5.00000	4.454

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.544	7.544	(1.020)	124005	10.0000	9.032
57 o-Xylene	106	7.850	7.850	(1.061)	58680	5.00000	4.588
\$ 61 4-Bromofluorobenzene	95	8.274	8.274	(1.119)	390204	50.0000	50.864
* 75 d4-1,4-Dichlorobenzene	152	9.111	9.111	(1.000)	481111	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.433	9.434	(1.035)	424828	50.0000	50.514

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 28-AUG-2010
Lab File ID: 0050828.d	Calibration Time: 14:51
Lab Smp Id: IC0828	Client Smp ID: VSTD005
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: PB	
Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	686435	-2.53
35 1,4-Difluorobenze	937745	468872	1875490	917886	-2.12
52 d5-Chlorobenzene	853013	426506	1706026	828296	-2.90
75 d4-1,4-Dichlorobe	503655	251828	1007310	481111	-4.48

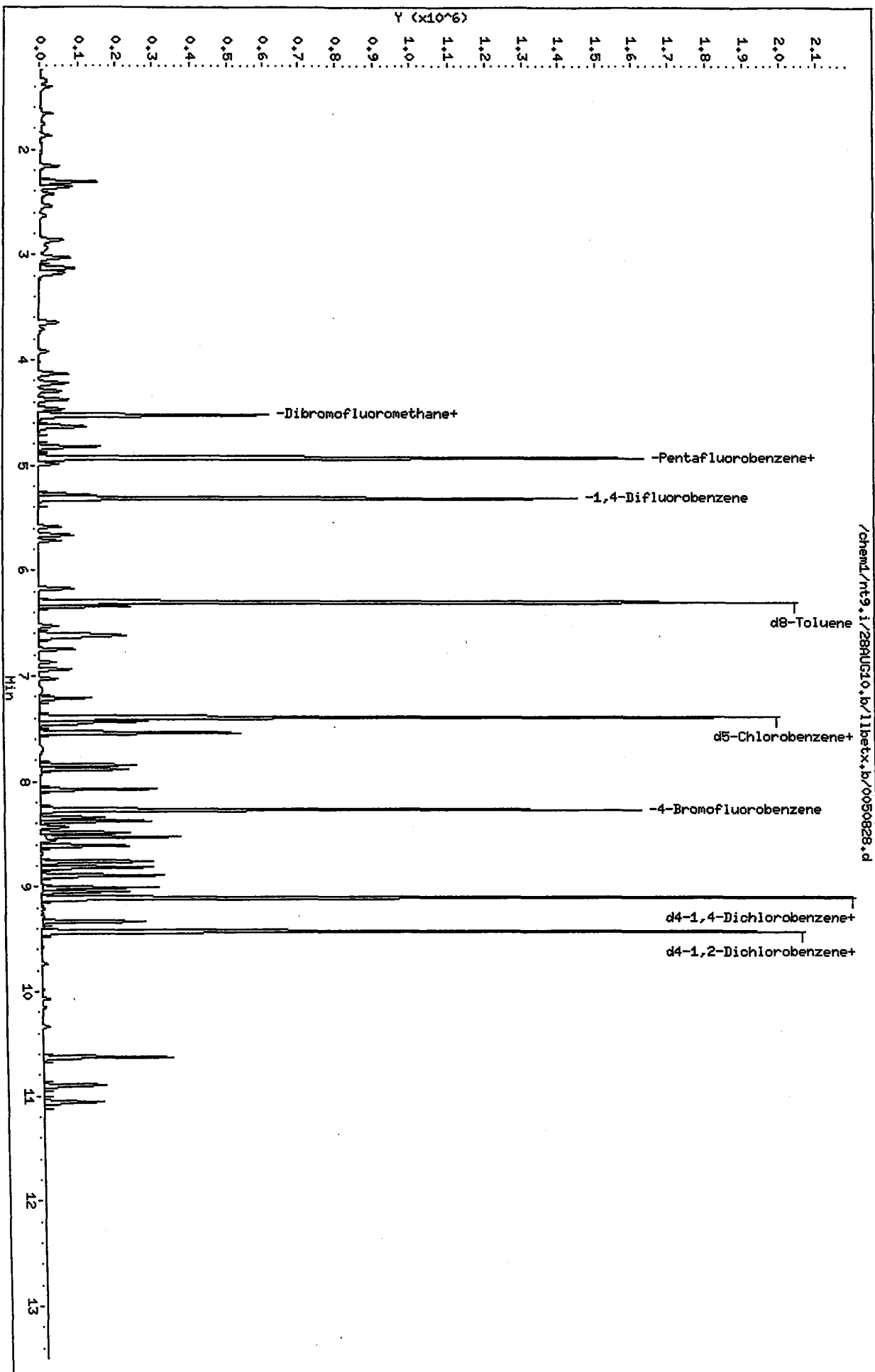
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.94	0.00
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.00
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.00

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.

Data File: /chemd/nt9.i/28AUG10.b/11betx.b/0050828.d
Date: 28-AUG-2010 15:51
Client ID: VSTD005
Sample Info: IC0828,5,5,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/0100828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD010
 Inj Date : 28-AUG-2010 15:21
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 15:21 Cal File: 0100828.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96		3.030	3.036	(0.615)	67082	10.0000	9.314
20 Cis-1,2-Dichloroethene	96		4.139	4.139	(0.839)	65050	10.0000	9.532
* 32 Pentafluorobenzene	168		4.931	4.936	(1.000)	705939	50.0000	
\$ 25 Dibromofluoromethane	111		4.529	4.529	(0.919)	260774	50.0000	49.402
\$ 31 d4-1,2-Dichloroethane	65		4.937	4.936	(1.001)	272846	50.0000	50.346
33 1,2-Dichloroethane	62		4.988	4.993	(0.937)	72640	10.0000	9.926
30 Benzene	78		4.829	4.829	(0.908)	239511	10.0000	9.414
* 35 1,4-Difluorobenzene	114		5.321	5.321	(1.000)	945928	50.0000	
34 Trichloroethene	95		5.282	5.281	(0.993)	65837	10.0000	9.367
\$ 42 d8-Toluene	98		6.306	6.305	(1.185)	1079570	50.0000	50.370
43 Toluene	92		6.345	6.345	(1.192)	165972	10.0000	9.180
44 Tetrachloroethene	166		6.611	6.611	(0.894)	84382	10.0000	9.074
* 52 d5-Chlorobenzene	117		7.397	7.397	(1.000)	855411	50.0000	
54 Ethyl Benzene	91		7.437	7.437	(1.005)	323546	10.0000	9.229

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
-----	----	--	-----	-----	-----	-----	-----
56 m,p-xylene	106	7.544	7.544	(1.020)	264634	20.0000	18.665
57 o-Xylene	106	7.850	7.850	(1.061)	125882	10.0000	9.531
\$ 61 4-Bromofluorobenzene	95	8.280	8.274	(1.119)	406232	50.0000	51.275
* 75 d4-1,4-Dichlorobenzene	152	9.111	9.111	(1.000)	505684	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.434	(1.035)	444672	50.0000	50.304

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: 0100828.d
 Lab Smp Id: IC0828
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/V0063010S.m
 Misc Info: 10-

Calibration Date: 28-AUG-2010
 Calibration Time: 14:51
 Client Smp ID: VSTD010
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	705939	0.24
35 1,4-Difluorobenze	937745	468872	1875490	945928	0.87
52 d5-Chlorobenzene	853013	426506	1706026	855411	0.28
75 d4-1,4-Dichlorobe	503655	251828	1007310	505684	0.40

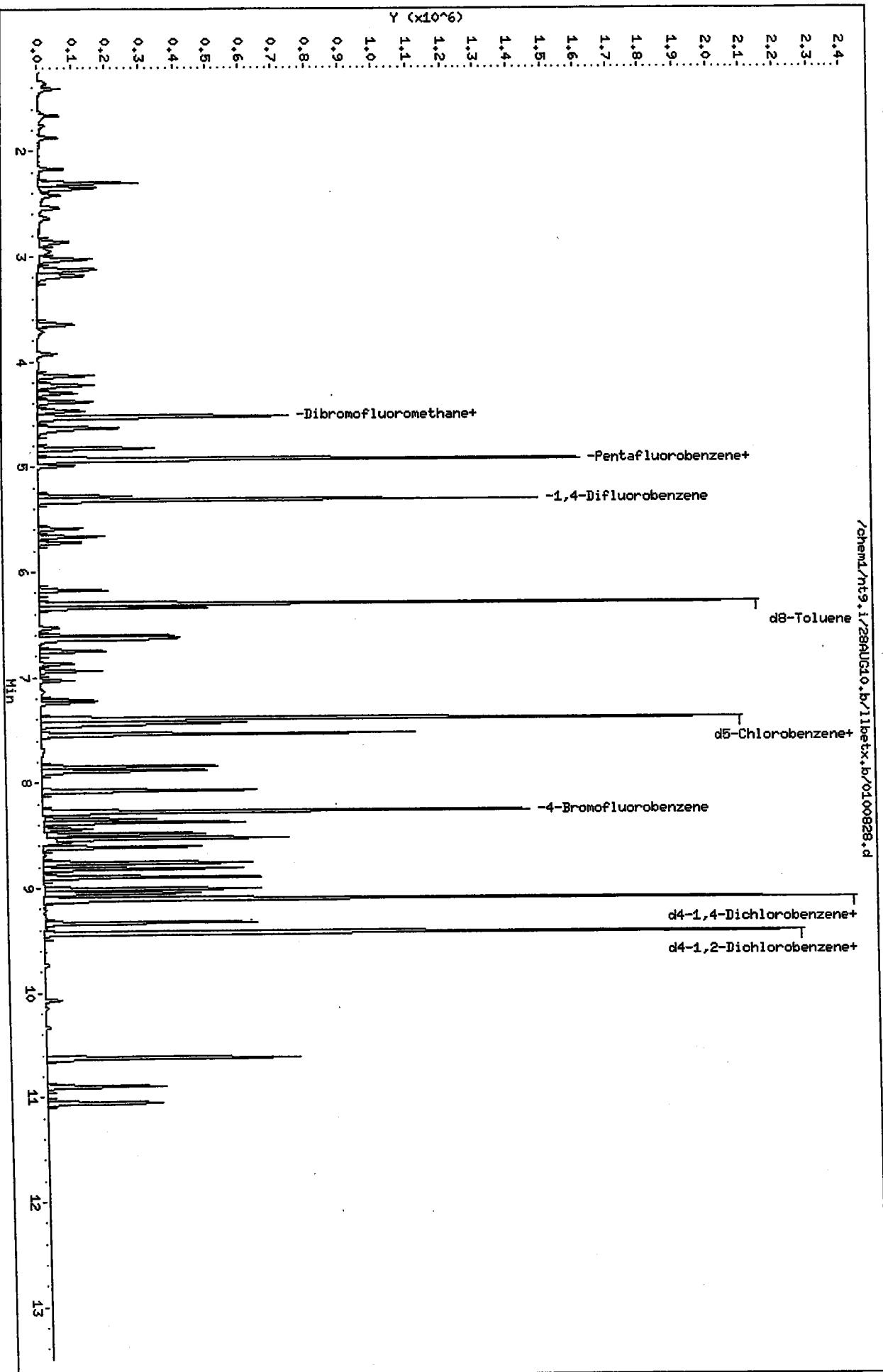
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.11
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.00
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.00

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.

Data File: /chem1/rt9.i/28AUG10.b/11betx.b/0100828.d
Date: 28-AUG-2010 15:21
Client ID: VSTD010
Sample Info: IC0828_5,5,0

Column phase: RTX502.2

Instrument: rt9.i
Operator: PJ
Column diameter: 0.18



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8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/0500828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD050
 Inj Date : 28-AUG-2010 14:51
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 14:51 Cal File: 0500828.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.036	3.036	3.036	(0.615)	336994	50.0000	46.899
20 Cis-1,2-Dichloroethene	96	4.139	4.139	4.139	(0.838)	325490	50.0000	47.807
* 32 Pentafluorobenzene	168	4.936	4.936	4.936	(1.000)	704281	50.0000	
\$ 25 Dibromofluoromethane	111	4.529	4.529	4.529	(0.917)	265763	50.0000	50.466
\$ 31 d4-1,2-Dichloroethane	65	4.936	4.936	4.936	(1.000)	275168	50.0000	50.894
33 1,2-Dichloroethane	62	4.993	4.993	4.993	(0.938)	357096	50.0000	49.223
30 Benzene	78	4.829	4.829	4.829	(0.908)	1199076	50.0000	47.543
* 35 1,4-Difluorobenzene	114	5.321	5.321	5.321	(1.000)	937745	50.0000	
34 Trichloroethene	95	5.281	5.281	5.281	(0.993)	330969	50.0000	47.500
\$ 42 d8-Toluene	98	6.305	6.305	6.305	(1.185)	1070696	50.0000	50.392
43 Toluene	92	6.345	6.345	6.345	(1.192)	829892	50.0000	46.304
44 Tetrachloroethene	166	6.611	6.611	6.611	(0.894)	434192	50.0000	46.824
* 52 d5-Chlorobenzene	117	7.397	7.397	7.397	(1.000)	853013	50.0000	
54 Ethyl Benzene	91	7.437	7.437	7.437	(1.005)	1641982	50.0000	46.969

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
-----	----	--	-----	-----	-----	-----	-----
56 m,p-xylene	106	7.544	7.544	(1.020)	1373249	100.000	97.127
57 o-Xylene	106	7.850	7.850	(1.061)	630491	50.0000	47.870
\$ 61 4-Bromofluorobenzene	95	8.274	8.274	(1.119)	399128	50.0000	50.519
* 75 d4-1,4-Dichlorobenzene	152	9.111	9.111	(1.000)	503655	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.434	(1.035)	443857	50.0000	50.414

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: 0500828.d
Lab Smp Id: IC0828
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-

Calibration Date: 28-AUG-2010
Calibration Time: 14:51
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	704281	0.00
35 1,4-Difluorobenze	937745	468872	1875490	937745	0.00
52 d5-Chlorobenzene	853013	426506	1706026	853013	0.00
75 d4-1,4-Dichlorobe	503655	251828	1007310	503655	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.94	0.00
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.00
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.00

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.

Data File: /chem1/nt9.i/28AUG10.b/11betx.b/0500828.d

Date: 28-AUG-2010 14:51

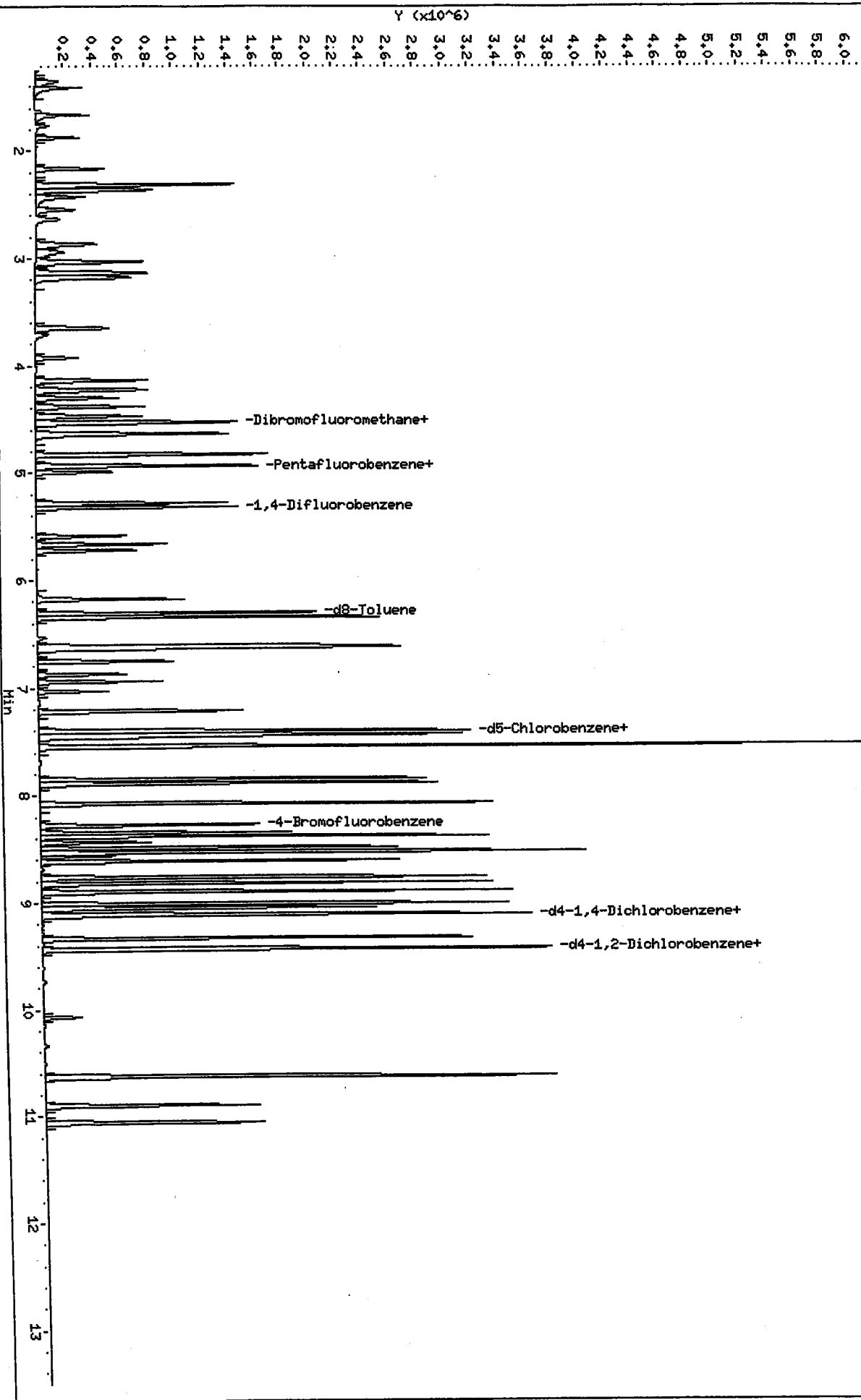
Client ID: VSTI050

Sample Info: IC0828,5,5,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PJ
Column diameter: 0.18

/chem1/nt9.i/28AUG10.b/11betx.b/0500828.d



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8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/1000828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD100
 Inj Date : 28-AUG-2010 14:21
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 14:21 Cal File: 1000828.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000 Compound Sublist: voa.sub
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.027	3.036	(0.614)	667246	100.000	113.18
20 Cis-1,2-Dichloroethene	96	4.136	4.139	(0.838)	612984	100.000	109.73
* 32 Pentafluorobenzene	168	4.933	4.936	(1.000)	577839	50.0000	
\$ 25 Dibromofluoromethane	111	4.532	4.529	(0.919)	218888	50.0000	50.660
\$ 31 d4-1,2-Dichloroethane	65	4.939	4.936	(1.001)	219324	50.0000	49.442
33 1,2-Dichloroethane	62	4.990	4.993	(0.937)	626143	100.000	104.54
30 Benzene	78	4.832	4.829	(0.908)	2300822	100.000	110.50
* 35 1,4-Difluorobenzene	114	5.324	5.321	(1.000)	774194	50.0000	
34 Trichloroethene	95	5.284	5.281	(0.993)	647329	100.000	112.53
\$ 42 d8-Toluene	98	6.308	6.305	(1.185)	871932	50.0000	49.706
43 Toluene	92	6.342	6.345	(1.191)	1612019	100.000	108.94
44 Tetrachloroethene	166	6.608	6.611	(0.893)	877796	100.000	115.08
* 52 d5-Chlorobenzene	117	7.400	7.397	(1.000)	701708	50.0000	
54 Ethyl Benzene	91	7.439	7.437	(1.005)	3264901	100.000	113.53

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.547	7.544	(1.020)	2711686	200.000	233.15
57 o-Xylene	106	7.852	7.850	(1.061)	1213342	100.000	111.99
\$ 61 4-Bromofluorobenzene	95	8.277	8.274	(1.118)	323235	50.0000	49.735
* 75 d4-1,4-Dichlorobenzene	152	9.114	9.111	(1.000)	414842	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.436	9.434	(1.035)	358863	50.0000	49.487

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: 1000828.d
Lab Smp Id: IC0828
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-

Calibration Date: 28-AUG-2010
Calibration Time: 14:51
Client Smp ID: VSTD100
Level: LOW
Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	577839	-17.95
35 1,4-Difluorobenze	937745	468872	1875490	774194	-17.44
52 d5-Chlorobenzene	853013	426506	1706026	701708	-17.74
75 d4-1,4-Dichlorobe	503655	251828	1007310	414842	-17.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.06
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.05
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.04
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.03

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.

Data File: /chem1/nt9.i/28AUG10.b/11betx.b/1000828.d

Date: 28-AUG-2010 14:21

Client ID: VSTD100

Sample Info: IC0828,5,5,0

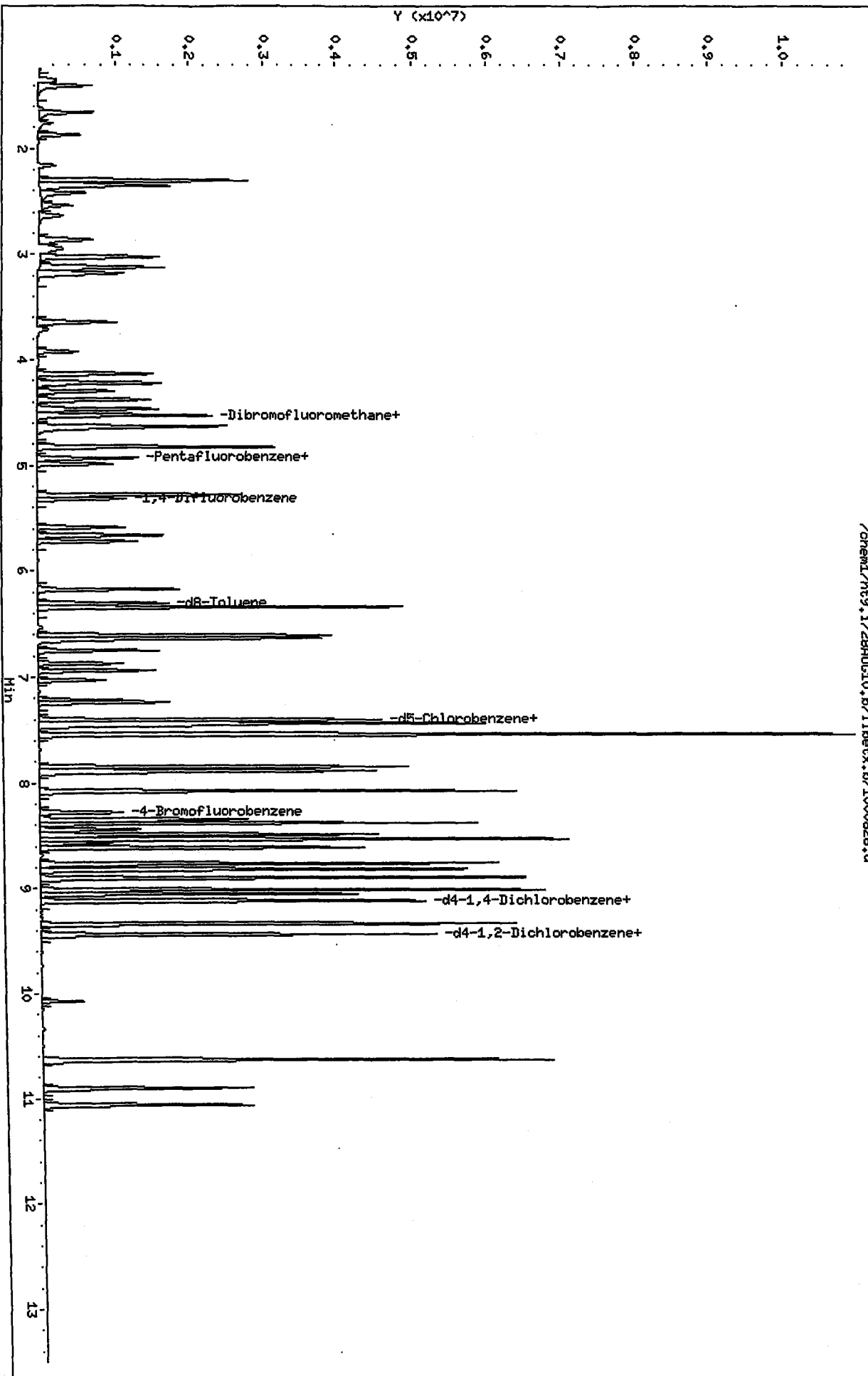
Column phase: RTX502.2

Instrument: nt9.i

Operator: PB

Column diameter: 0.18

/chem1/nt9.i/28AUG10.b/11betx.b/1000828.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/1500828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD150
 Inj Date : 28-AUG-2010 13:51
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:51 Cal File: 1500828.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000 Compound Sublist: voa.sub
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.021	3.036	(0.612)	1084953	150.000	163.86
20 Cis-1,2-Dichloroethene	96	4.135	4.139	(0.838)	1020798	150.000	162.71
* 32 Pentafluorobenzene	168	4.933	4.936	(1.000)	648980	50.0000	
\$ 25 Dibromofluoromethane	111	4.531	4.529	(0.919)	252207	50.0000	51.972
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.936	(1.001)	249417	50.0000	50.062
33 1,2-Dichloroethane	62	4.989	4.993	(0.937)	1073167	150.000	158.83
30 Benzene	78	4.825	4.829	(0.906)	3837983	150.000	163.39
* 35 1,4-Difluorobenzene	114	5.323	5.321	(1.000)	873392	50.0000	
34 Trichloroethene	95	5.283	5.281	(0.993)	1048917	150.000	161.63
\$ 42 d8-Toluene	98	6.307	6.305	(1.185)	984102	50.0000	49.729
43 Toluene	92	6.341	6.345	(1.191)	2678205	150.000	160.44
44 Tetrachloroethene	166	6.607	6.611	(0.893)	1425322	150.000	162.60
* 52 d5-Chlorobenzene	117	7.399	7.397	(1.000)	806370	50.0000	
54 Ethyl Benzene	91	7.439	7.437	(1.005)	5482264	150.000	165.89

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.546	7.544	(1.020)	4419442	300.000	330.66
57 o-Xylene	106	7.852	7.850	(1.061)	2056807	150.000	165.19
\$ 61 4-Bromofluorobenzene	95	8.281	8.274	(1.119)	368820	50.0000	49.384
* 75 d4-1,4-Dichlorobenzene	152	9.119	9.111	(1.000)	478126	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.441	9.434	(1.035)	419222	50.0000	50.158

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: 1500828.d
Lab Smp Id: IC0828
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-

Calibration Date: 28-AUG-2010
Calibration Time: 14:51
Client Smp ID: VSTD150
Level: LOW
Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	648980	-7.85
35 1,4-Difluorobenze	937745	468872	1875490	873392	-6.86
52 d5-Chlorobenzene	853013	426506	1706026	806370	-5.47
75 d4-1,4-Dichlorobe	503655	251828	1007310	478126	-5.07

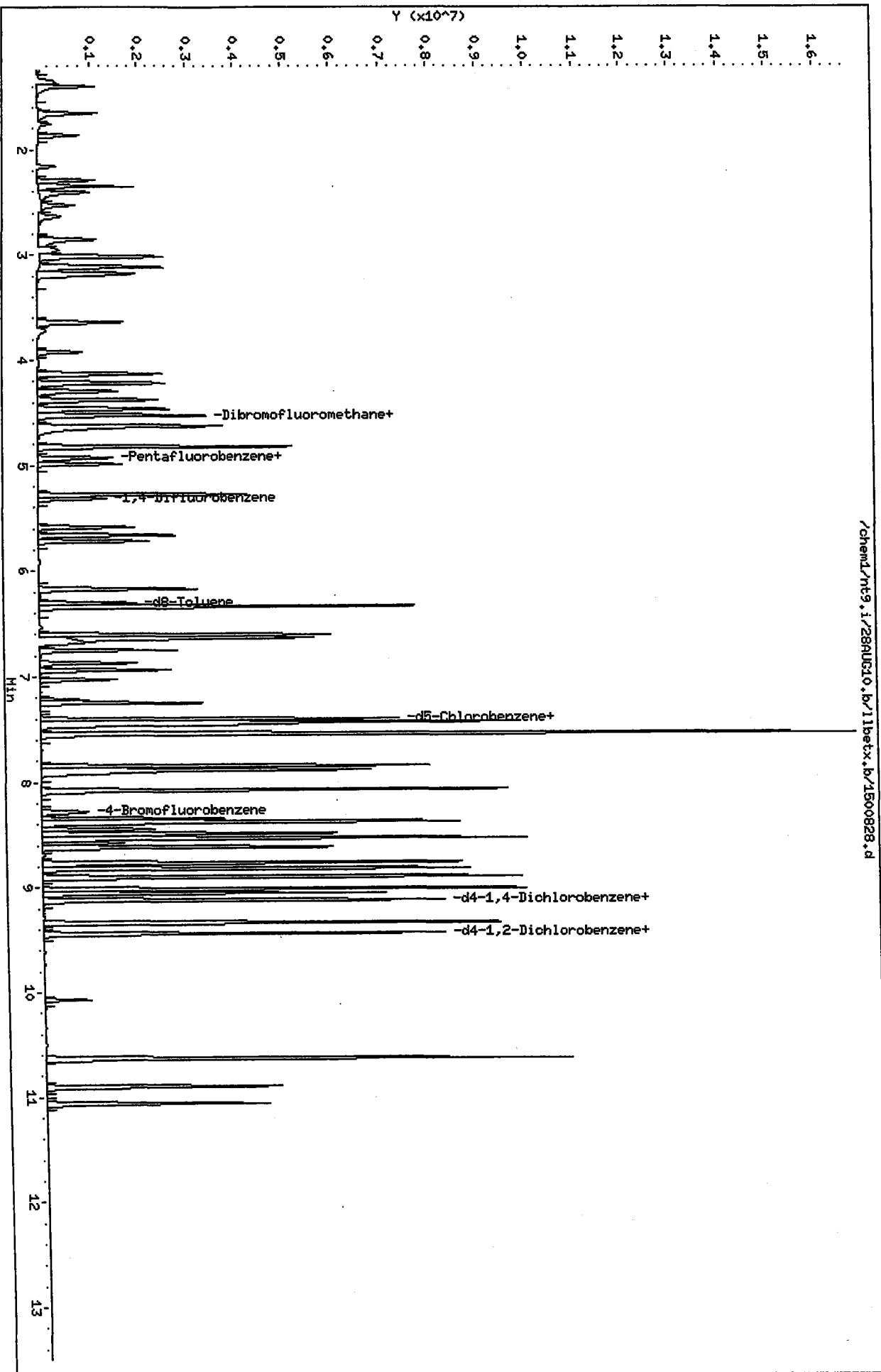
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.08
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.04
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.03
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.12	0.08

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.

Data File: /chem1/nt9.i/28AUG10.b/11betx.b/1500828.d
Date: 28-AUG-2010 13:51
Client ID: WSTD150
Sample Info: IC0828.5.5.0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/2000828.d
 Lab Smp Id: IC0828 Client Smp ID: VSTD200
 Inj Date : 28-AUG-2010 13:21
 Operator : PB Inst ID: nt9.i
 Smp Info : IC0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.018	3.036	(0.612)	1457472	200.000	223.18
20 Cis-1,2-Dichloroethene	96	4.133	4.139	(0.838)	1376931	200.000	222.52
* 32 Pentafluorobenzene	168	4.930	4.936	(1.000)	640076	50.0000	
\$ 25 Dibromofluoromethane	111	4.529	4.529	(0.919)	249487	50.0000	52.127
\$ 31 d4-1,2-Dichloroethane	65	4.936	4.936	(1.001)	244940	50.0000	49.848
33 1,2-Dichloroethane	62	4.993	4.993	(0.938)	1436910	200.000	215.69
30 Benzene	78	4.828	4.829	(0.908)	5216825	200.000	225.25
* 35 1,4-Difluorobenzene	114	5.321	5.321	(1.000)	861135	50.0000	
34 Trichloroethene	95	5.281	5.281	(0.993)	1431429	200.000	223.71
\$ 42 d8-Toluene	98	6.305	6.305	(1.185)	971664	50.0000	49.799
43 Toluene	92	6.344	6.345	(1.192)	3655611	200.000	222.11
44 Tetrachloroethene	166	6.610	6.611	(0.893)	1956752	200.000	224.16
* 52 d5-Chlorobenzene	117	7.402	7.397	(1.000)	803012	50.0000	
54 Ethyl Benzene	91	7.442	7.437	(1.005)	7556256	200.000	229.61

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.549	7.544	(1.020)	5798209	400.000	435.63
57 o-Xylene	106	7.855	7.850	(1.061)	2840377	200.000	229.08
\$ 61 4-Bromofluorobenzene	95	8.302	8.274	(1.121)	365719	50.0000	49.173
* 75 d4-1,4-Dichlorobenzene	152	9.128	9.111	(1.000)	480939	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.450	9.434	(1.035)	417003	50.0000	49.601

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: 2000828.d
 Lab Smp Id: IC0828
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 28-AUG-2010
 Calibration Time: 14:51
 Client Smp ID: VSTD200
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	640076	-9.12
35 1,4-Difluorobenze	937745	468872	1875490	861135	-8.17
52 d5-Chlorobenzene	853013	426506	1706026	803012	-5.86
75 d4-1,4-Dichlorobe	503655	251828	1007310	480939	-4.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.12
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	-0.01
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.07
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.13	0.18

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.

Data File: /ohemd/nt9.i/28AUG10.b/11betx.b/2000828.d

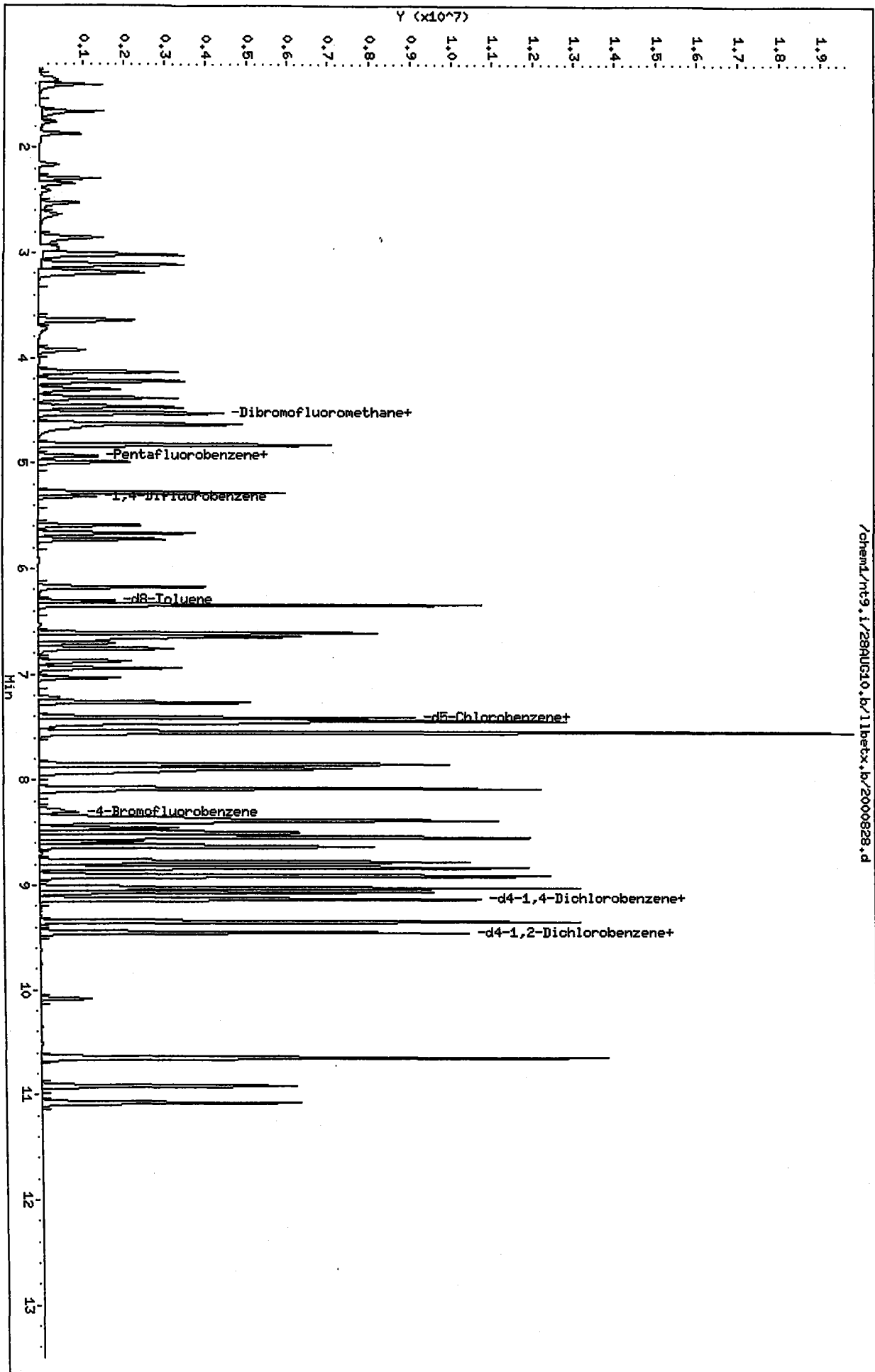
Date: 28-AUG-2010 13:21

Client ID: VST1200

Sample Info: IC0828,5,5,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PG
Column diameter: 0.18



/ohemd/nt9.i/28AUG10.b/11betx.b/2000828.d

Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/28AUG10.b/11betx.b/icv0828.d
 Lab Smp Id: ICV0828 Client Smp ID: ICV0828
 Inj Date : 28-AUG-2010 18:21
 Operator : PB Inst ID: nt9.i
 Smp Info : ICV0828,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Meth Date : 02-Sep-2010 10:14 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: voa.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96		3.032	3.036	(0.615)	322932	49.2228	49.223
20 Cis-1,2-Dichloroethene	96		4.141	4.139	(0.839)	310696	49.9804	49.980
* 32 Pentafluorobenzene	168		4.933	4.936	(1.000)	643032	50.0000	
\$ 25 Dibromofluoromethane	111		4.531	4.529	(0.919)	238899	49.6853	49.685
\$ 31 d4-1,2-Dichloroethane	65		4.939	4.936	(1.001)	248940	50.4287	50.429
33 1,2-Dichloroethane	62		4.989	4.993	(0.937)	337480	50.9785	50.978
30 Benzene	78		4.831	4.829	(0.908)	1154612	50.1683	50.168
* 35 1,4-Difluorobenzene	114		5.323	5.321	(1.000)	855721	50.0000	
34 Trichloroethene	95		5.284	5.281	(0.993)	318689	50.1215	50.121
\$ 42 d8-Toluene	98		6.307	6.305	(1.185)	976850	50.3820	50.382
43 Toluene	92		6.341	6.345	(1.191)	803253	49.1138	49.114
44 Tetrachloroethene	166		6.607	6.611	(0.893)	418104	49.4354	49.435
* 52 d5-Chlorobenzene	117		7.399	7.397	(1.000)	778023	50.0000	
54 Ethyl Benzene	91		7.439	7.437	(1.005)	1586757	49.7645	49.764

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.546	7.544	(1.020)	1314112	101.903	101.90
57 o-Xylene	106	7.846	7.850	(1.060)	604545	50.3238	50.324
\$ 61 4-Bromofluorobenzene	95	8.276	8.274	(1.119)	363565	50.4536	50.454
* 75 d4-1,4-Dichlorobenzene	152	9.108	9.111	(1.000)	462358	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.436	9.434	(1.036)	405284	50.1445	50.145(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: icv0828.d
 Lab Smp Id: ICV0828
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 28-AUG-2010
 Calibration Time: 14:51
 Client Smp ID: ICV0828
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	643032	-8.70
35 1,4-Difluorobenze	937745	468872	1875490	855721	-8.75
52 d5-Chlorobenzene	853013	426506	1706026	778023	-8.79
75 d4-1,4-Dichlorobe	503655	251828	1007310	462358	-8.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.07
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.04
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.03
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.04

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 28AUG10
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: ICV0828 Client Smp ID: ICV0828
 Level: LOW Operator: PB
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 11betx.spk Quant Type: ISTD
 Sublist File: voa.sub
 Method File: /chem1/nt9.i/28AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	50.000	49.223	98.45	80-120
20 Cis-1,2-Dichloroet	50.000	49.980	99.96	80-120
33 1,2-Dichloroethane	50.000	50.978	101.96	76-120
30 Benzene	50.000	50.168	100.34	80-120
34 Trichloroethene	50.000	50.121	100.24	80-120
43 Toluene	50.000	49.114	98.23	80-120
44 Tetrachloroethene	50.000	49.435	98.87	80-121
54 Ethyl Benzene	50.000	49.764	99.53	80-127
56 m,p-xylene	100.00	101.90	101.90	80-125
57 o-Xylene	50.000	50.324	100.65	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	49.685	99.37	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	50.429	100.86	75-152
\$ 42 d8-Toluene	50.000	50.382	100.76	82-115
\$ 61 4-Bromofluorobenze	50.000	50.454	100.91	64-120
\$ 78 d4-1,2-Dichloroben	50.000	50.145	100.29	80-120

Data File: /chem1/nt9.i/28AUG10.b/11betx.b/icv0828.d

Date: 28-AUG-2010 18:21

Client ID: ICV0828

Sample Info: ICV0828,5,5,0

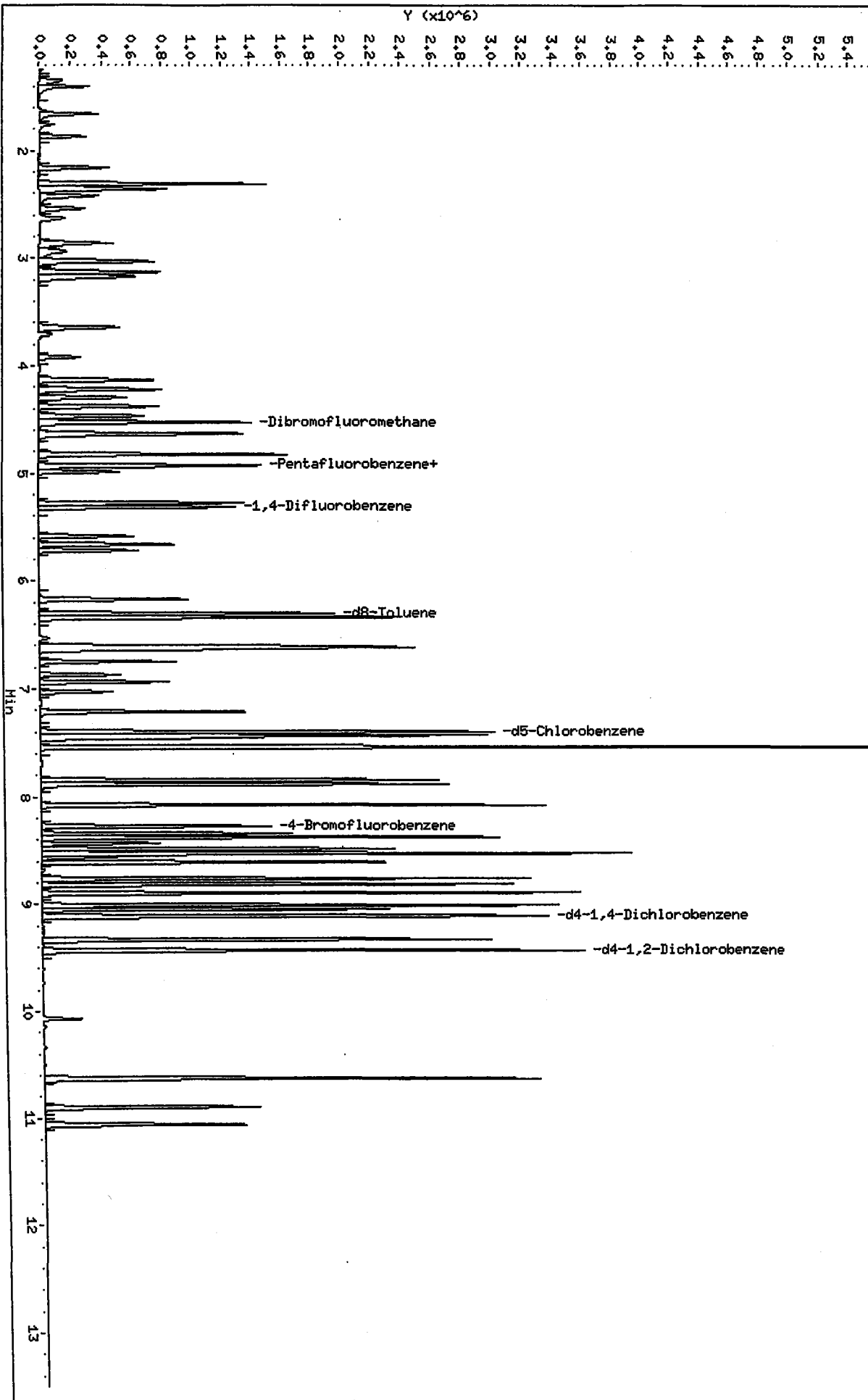
Column phase: RTX502.2

Instrument: nt9.i

Operator: PB

Column diameter: 0.18

/chem1/nt9.i/28AUG10.b/11betx.b/icv0828.d



**Volatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RK21, RK89



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RR21 Client ID: Floyd Sander

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 **NT-9** NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 8/26/06 Analysis Start Date: 8/20/06

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

QC on C

Additional Details on Reverse: Yes / **No**

Analyst: _____ Date: 9/26

Reviewer: _____ Date: 9/27/06



VOA Analyst Notes / Corrective Action Log

ARI Project ID: PC59 Client ID: Floyd Smith

ARI SOP: ~~404S~~(Gas) ~~410S~~(BTEX) ~~430S~~(VPH) 700S(8260C) ~~703S~~(SIM) ~~706S~~(524.2) ~~710S~~(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5
Purge Volume (mL) 5 Curve Date: 8/28/10 Analysis Start Date: 9/1/10

pH ≤ 2.0	<u>YES</u> / NO / NA	Method Blank In Control?	<u>YES</u> / NO
BFB Tune Meets Criteria?	<u>YES</u> / NO / NA	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	<u>YES</u> / NO / NA	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	YES / <u>NO</u> / NA	Q flag applied?	YES / <u>NO</u> / NA
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	Yes / <u>NO</u>
Special Analysis Criteria Met?	YES / NO / <u>NA</u>		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ Date: 9/7/10

Reviewer: _____ Date: 9/7/10

Analytical Resources Inc.: Volatile Organics Instrument Log

NT-9 Serial No.: GC=US00021704, MS=US80230047

Date: 8/30/06 Analysis: 8202 Analyst: M

GC Program: VDA Column No: 562025 Column Type: PTX1/4

Instrument Tune (.U or .CT.): bfb0830 EM Voltage: 125

Calibration File: 0500830 Curve Date: 8/28/06

IS/SS	Ical/Ccal	LCS/ICV
<u>W652-1</u>	<u>W652-2</u>	<u>W652-2</u>
	<u>W652-1</u>	
	<u>8/30/06</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt9.i/30AUG10.b

Time	Filename	LabID	ClientID	WT	
1	1031	bfb0830.d	BFB0830	BFB0830	0.00
2	1104	0500830.d	CC0830	VSTD050	5.00 | 4.93 | 616029 | 5.32 | 828045 | 7.40 | 753095 | 9.11 | 443565 |
3	1144	lcs0830.d	LCS0830	LCS0830	5.00 | 4.93 | 528422 | 5.32 | 709812 | 7.40 | 632742 | 9.11 | 363992 |
4	1213	lcs0830a.d	LCS0830	LCS0830	5.00 | 4.94 | 660276 | 5.32 | 879289 | 7.40 | 793873 | 9.11 | 455467 |
5	1243	mb0830.d	MB0830	MB0830	5.00 | 4.94 | 651427 | 5.32 | 868362 | 7.40 | 768377 | 9.11 | 431676 |
6	1333	rk21a.d	RK21A	MW15-50-55-082310	5.00 | 4.94 | 653991 | 5.32 | 875752 | 7.40 | 792738 | 9.11 | 449549 |
7	1403	rk21b.d	RK21B	MW16-39-40-082410	5.00 | 4.93 | 649462 | 5.32 | 860341 | 7.40 | 781495 | 9.11 | 450466 |
8	1433	rk21c.d	RK21C	MW16-39-40-082410-D	5.00 | 4.94 | 619147 | 5.32 | 824083 | 7.40 | 751614 | 9.11 | 429556 |
9	1503	rk86a.d	RK86A	PSB18-12.5-15-08261	5.00 | 4.94 | 673443 | 5.32 | 900210 | 7.40 | 830533 | 9.11 | 486743 |
10	1532	rk86b.d	RK86B	PSB18-4-6-082610	5.00 | 4.93 | 661203 | 5.32 | 883681 | 7.39 | 821602 | 9.11 | 494077 |
11	1602	rk86c.d	RK86C	PSB18-2-4-082610	5.00 | 4.93 | 662509 | 5.32 | 885650 | 7.39 | 824040 | 9.11 | 488102 |
12	1632	rk86d.d	RK86D	PSB18-1.5-2-082610	5.00 | 4.94 | 659003 | 5.32 | 875717 | 7.40 | 790663 | 9.11 | 436199 |
13	1702	rk86e.d	RK86E	PSB18-0-0.5-082610	5.00 | 4.94 | 642370 | 5.32 | 853868 | 7.40 | 777249 | 9.11 | 429346 |
14	1732	rk86f.d	RK86F	PSB18-12.5-15-08261	5.00 | 4.94 | 662449 | 5.32 | 881929 | 7.40 | 820151 | 9.11 | 480803 |
15	1802	rk86g.d	RK86G	PSB18-19-20-082610	5.00 | 4.94 | 621749 | 5.32 | 817296 | 7.40 | 723098 | 9.11 | 394453 |
16	1831	rk86h.d	RK86H	PSB18-7-9-082610	5.00 | 4.94 | 653119 | 5.32 | 870777 | 7.40 | 810894 | 9.11 | 481242 |
17	1901	rk86i.d	RK86I	PSB18-TB-082610	5.00 | 4.94 | 608482 | 5.32 | 815598 | 7.40 | 736833 | 9.11 | 420062 |
18	1931	rk88d.d	RK88D	082510-FL9785-A-4-1	5.00 | 4.93 | 617494 | 5.32 | 832564 | 7.39 | 722062 | 9.11 | 338560 |
19	2001	rk88e.d	RK88E	082510-FL9785-A-1	5.00 | 4.94 | 652476 | 5.32 | 876062 | 7.40 | 811150 | 9.11 | 485226 |
20	2031	rk21cms.d	RK21CMS	MW16-39-40-0824 MS	5.00 | 4.94 | 657847 | 5.32 | 871619 | 7.40 | 800234 | 9.11 | 467271 |
21	2101	rk21cmsd.d	RK21CMSD	MW16-39-40-0824 MSD	5.00 | 4.93 | 675724 | 5.32 | 896186 | 7.40 | 826227 | 9.11 | 486323 |
22	2131	rk88dms.d	RK88DMS	082510-FL9785-A MS	5.00 | 4.93 | 687103 | 5.32 | 823741 | 7.40 | 810360 | 9.11 | 380792 |
23	2201	rk88dmsd.d	RK88DMSD	082510-FL9785-A MSD	5.00 | 4.94 | 701642 | 5.32 | 940149 | 7.40 | 835881 | 9.11 | 417703 |

Mair

Mair

Every

d.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt9.i/30AUG10.b/11betx.b

~~ARI Job No. BFB0 Method. bfb0260.m~~ Instrument: nt9.i Date: 30-AUG-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

1031	bfb0830.d	BFB0830	BFB0830	1	NO MANUAL INTEGRATION
1104	0500830.d	CC0830	VSTD050	1	NO MANUAL INTEGRATION
1144	lcs0830.d	LCS0830	LCS0830	1	NO MANUAL INTEGRATION
1213	lcs0830a.d	LCS0830	LCS0830	1	NO MANUAL INTEGRATION
1243	mb0830.d	MB0830	MB0830	1	NO MANUAL INTEGRATION
1333	rk21a.d	RK21A	MW15-50-55	1	NO MANUAL INTEGRATION
1403	rk21b.d	RK21B	MW16-39-40	1	NO MANUAL INTEGRATION
1433	rk21c.d	RK21C	MW16-39-40	1	NO MANUAL INTEGRATION
1503	rk86a.d	RK86A	PSB18-12.5	1	NO MANUAL INTEGRATION
1532	rk86b.d	RK86B	PSB18-4-6	1	NO MANUAL INTEGRATION
1602	rk86c.d	RK86C	PSB18-2-4	1	NO MANUAL INTEGRATION
1632	rk86d.d	RK86D	PSB18-1.5	1	NO MANUAL INTEGRATION
1702	rk86e.d	RK86E	PSB18-0-0	1	NO MANUAL INTEGRATION
1732	rk86f.d	RK86F	PSB18-12.5	1	NO MANUAL INTEGRATION
1802	rk86g.d	RK86G	PSB18-19-2	1	NO MANUAL INTEGRATION
1831	rk86h.d	RK86H	PSB18-7-9	1	NO MANUAL INTEGRATION
1901	rk86i.d	RK86I	PSB18-TB-0	1	NO MANUAL INTEGRATION
1931	rk88d.d	RK88D	082510-FL9	1	NO MANUAL INTEGRATION
2001	rk88e.d	RK88E	082510-FL9	1	NO MANUAL INTEGRATION
2031	rk21cms.d	RK21CMS	MW16-39-40	1	NO MANUAL INTEGRATION
2101	rk21cmsd.d	RK21CMSD	MW16-39-40	1	NO MANUAL INTEGRATION

2131 rk88dms.d RK88DMS 082510-FL9 1 NO MANUAL INTEGRATION

RK21 : 00156

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt9.i/30AUG10.b/libetx.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2201 rk88dmsd.d rk88DMSD 082510-FL9 1 NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt9.i/30AUG10.b/11betx.b

Instrument: nt9.i Date: 30-AUG-2010 Method: 11betx.b/VO063010S.m

INITIAL CAL: 28-AUG-2010

Compound	%RSD or R ²
----------	------------------------

NO Q-FLAGS

CONTINUING CAL: 30-AUG-2010

Compound	%D
----------	----

NO Q-FLAGS

RK21 : 00158

Date : 30-AUG-2010 10:31

Client ID: BFB0830

Instrument: nt9.i

Sample Info: BFB0830,BFB0830,,1,30AUG10,,

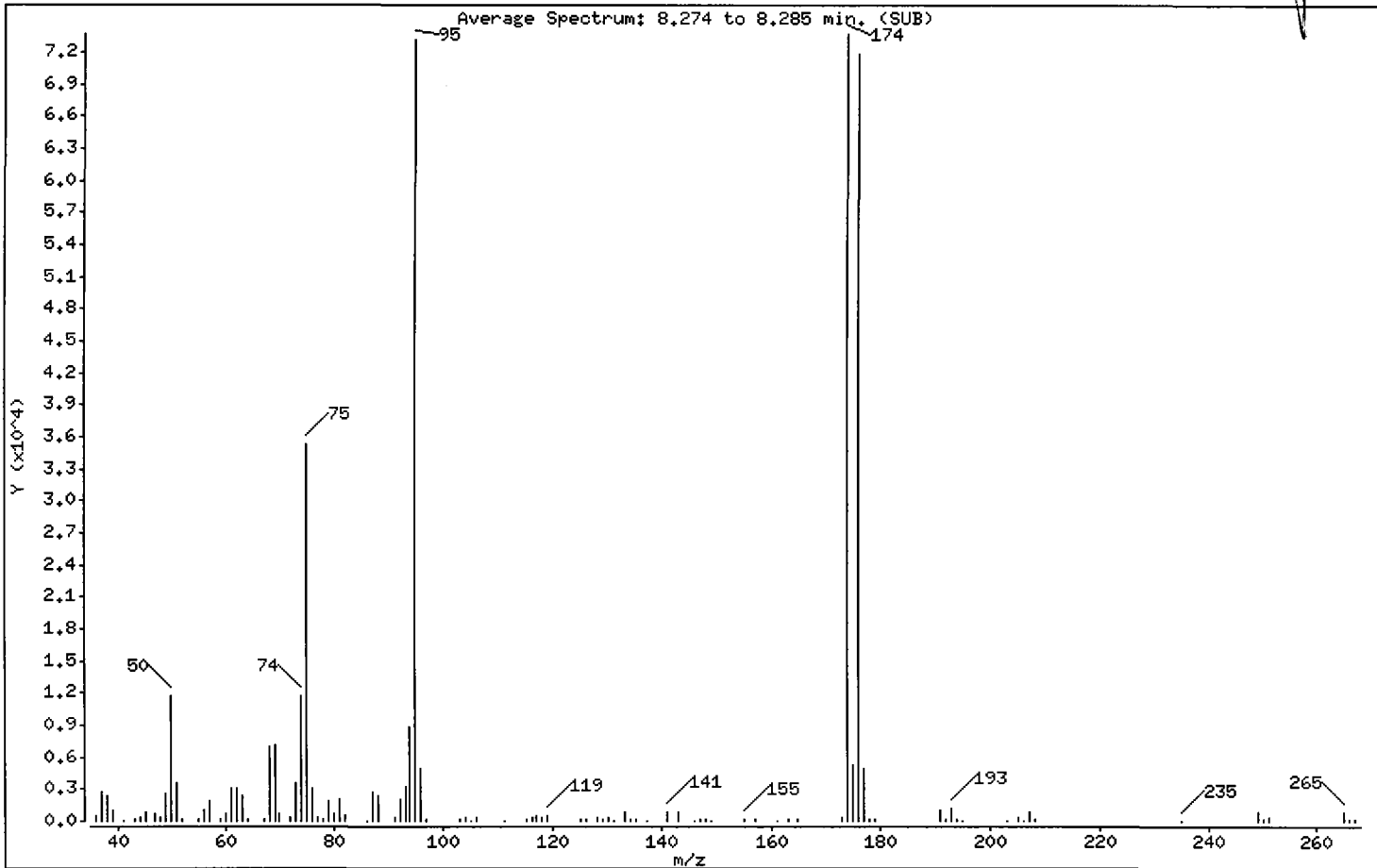
Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene

19/26



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.06
75	30.00 - 66.00% of mass 95	48.15
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.51 (0.50)
174	50.00 - 101.00% of mass 95	100.70
175	4.00 - 9.00% of mass 174	7.08 (7.03)
176	93.00 - 101.00% of mass 174	98.09 (97.42)
177	5.00 - 9.00% of mass 176	6.74 (6.87)

Date : 30-AUG-2010 10:31

Client ID: BFB0830

Instrument: nt9.i

Sample Info: BFB0830,BFB0830,,1,30AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb0830.d

Spectrum: Average Spectrum: 8.274 to 8.285 min. (SUB)

Location of Maximum: 174.00

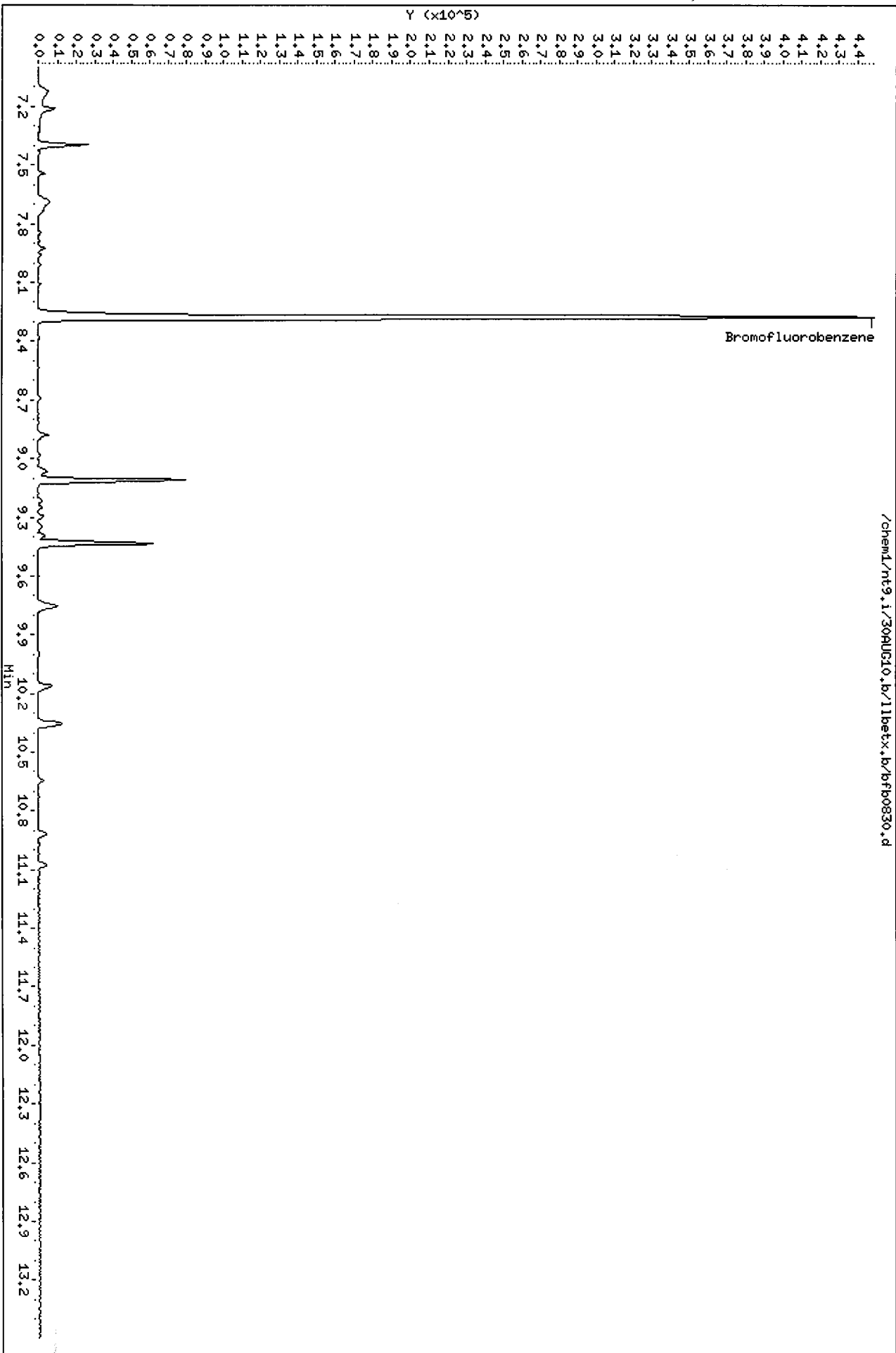
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.00	571	| 70.00	627	| 111.00	51	| 165.00	94
| 37.00	2711	| 72.00	402	| 115.00	198	| 173.00	371
| 38.00	2453	| 73.00	3580	| 116.00	330	| 174.00	73720
| 39.00	1009	| 74.00	11771	| 117.00	519	| 175.00	5182
| 41.00	73	| 75.00	35248	| 118.00	402	| 176.00	71816
| 43.00	111	| 76.00	3003	| 119.00	524	| 177.00	4934
| 44.00	371	| 77.00	332	| 125.00	238	| 178.00	248
| 45.00	796	| 78.00	177	| 126.00	108	| 179.00	228
| 47.00	752	| 79.00	1928	| 128.00	285	| 191.00	959
| 48.00	353	| 80.00	744	| 129.00	118	| 192.00	178
| 49.00	2482	| 81.00	2066	| 130.00	297	| 193.00	1175
| 50.00	11755	| 82.00	476	| 131.00	58	| 194.00	218
| 51.00	3553	| 86.00	51	| 133.00	847	| 195.00	72
| 52.00	115	| 87.00	2709	| 134.00	150	| 203.00	70
| 55.00	250	| 88.00	2451	| 135.00	197	| 205.00	264
| 56.00	1004	| 91.00	275	| 137.00	79	| 206.00	51
| 57.00	1786	| 92.00	2086	| 141.00	864	| 207.00	932
| 59.00	143	| 93.00	3189	| 143.00	826	| 208.00	193
| 60.00	617	| 94.00	8807	| 146.00	53	| 235.00	77
| 61.00	3047	| 95.00	73208	| 147.00	121	| 249.00	788
| 62.00	3094	| 96.00	4976	| 148.00	239	| 250.00	195
| 63.00	2344	| 97.00	124	| 149.00	56	| 251.00	310
| 64.00	182	| 103.00	112	| 155.00	227	| 265.00	830
| 67.00	151	| 104.00	380	| 157.00	167	| 266.00	204
| 68.00	6936	| 105.00	50	| 161.00	63	| 267.00	168
| 69.00	7096	| 106.00	351	| 163.00	102	|	|

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/bfb0830.d
Date : 30-AUG-2010 10:31
Client ID: BFB0830
Sample Info: BFB0830,BFB0830,,4,30AUG10,,
Column phase: RTX502.2

/chem1/nt9.i/30AUG10.b/11betx.b/bfb0830.d

Instrument: nt9.i
Operator: PG
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/11betx.b/0500830.d
 Lab Smp Id: CC0830 Client Smp ID: VSTD050
 Inj Date : 30-AUG-2010 11:04
 Operator : PB Inst ID: nt9.i
 Smp Info : CC0830,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Meth Date : 31-Aug-2010 09:30 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.034	3.034	(0.615)	319222	50.0000	50.790	
20 Cis-1,2-Dichloroethene	96	4.137	4.137	(0.838)	300243	50.0000	50.416	
* 32 Pentafluorobenzene	168	4.934	4.934	(1.000)	616029	50.0000		
\$ 25 Dibromofluoromethane	111	4.527	4.527	(0.917)	232248	50.0000	50.419	
\$ 31 d4-1,2-Dichloroethane	65	4.940	4.940	(1.001)	240292	50.0000	50.811	
33 1,2-Dichloroethane	62	4.991	4.991	(0.938)	314251	50.0000	49.056	
30 Benzene	78	4.832	4.832	(0.909)	1117517	50.0000	50.179	
* 35 1,4-Difluorobenzene	114	5.319	5.319	(1.000)	828045	50.0000		
34 Trichloroethene	95	5.279	5.279	(0.993)	311219	50.0000	50.583	
\$ 42 d8-Toluene	98	6.309	6.309	(1.186)	938697	50.0000	50.032	
43 Toluene	92	6.343	6.343	(1.192)	783535	50.0000	49.509	
44 Tetrachloroethene	166	6.609	6.609	(0.893)	421129	50.0000	51.441	
* 52 d5-Chlorobenzene	117	7.401	7.401	(1.000)	753095	50.0000		
54 Ethyl Benzene	91	7.434	7.434	(1.005)	1565610	50.0000	50.727	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
=====	====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.542	7.542	(1.019)	1319980	100.000	105.75
57 o-Xylene	106	7.847	7.847	(1.060)	590812	50.0000	50.809
\$ 61 4-Bromofluorobenzene	95	8.277	8.277	(1.118)	349059	50.0000	50.044
* 75 d4-1,4-Dichlorobenzene	152	9.115	9.115	(1.000)	443565	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.437	9.437	(1.035)	390902	50.0000	50.414

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: 0500830.d
Lab Smp Id: CC0830
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-

Calibration Date: 30-AUG-2010
Calibration Time: 11:04
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	616029	-12.53
35 1,4-Difluorobenze	937745	468872	1875490	828045	-11.70
52 d5-Chlorobenzene	853013	426506	1706026	753095	-11.71
75 d4-1,4-Dichlorobe	503655	251828	1007310	443565	-11.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.04
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	-0.04
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.05
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.04

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.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

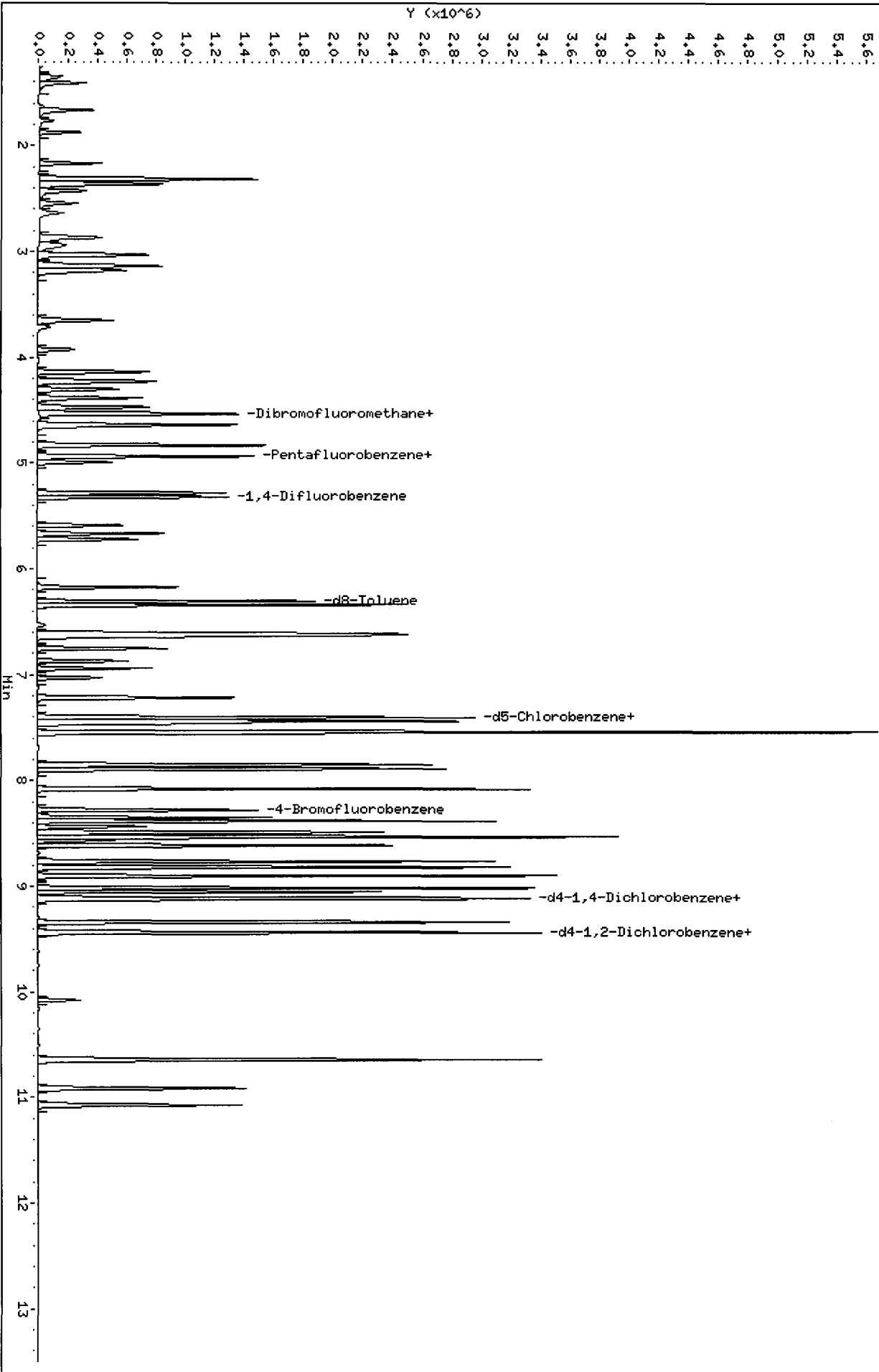
Instrument ID: nt9.i Injection Date: 30-AUG-2010 11:04
Lab File ID: 0500830.d Init. Cal. Date(s): 28-AUG-2010 28-AUG-2010
Analysis Type: SOIL Init. Cal. Times: 12:52 16:21
Lab Sample ID: CC0830 Quant Type: ISTD
Method: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT		
15 Trans-1,2-Dichloroethene	0.51013	0.51819	0.010	1.58029	20.00000	Averaged
20 Cis-1,2-Dichloroethene	0.48336	0.48738	0.010	0.83209	20.00000	Averaged
\$ 25 Dibromofluoromethane	0.37387	0.37701	0.100	0.83871	20.00000	Averaged
\$ 31 d4-1,2-Dichloroethane	0.38384	0.39007	0.010	1.62107	20.00000	Averaged
33 1,2-Dichloroethane	0.38681	0.37951	0.100	-1.88762	20.00000	Averaged
30 Benzene	1.34476	1.34958	0.100	0.35884	20.00000	Averaged
34 Trichloroethene	0.37152	0.37585	0.100	1.16518	20.00000	Averaged
\$ 42 d8-Toluene	1.13290	1.13363	0.010	0.06476	20.00000	Averaged
43 Toluene	0.95562	0.94625	0.100	-0.98120	20.00000	Averaged
44 Tetrachloroethene	0.54353	0.55920	0.100	2.88257	20.00000	Averaged
54 Ethyl Benzene	2.04913	2.07890	0.100	1.45305	20.00000	Averaged
56 m,p-xylene	0.82875	0.87637	0.100	5.74586	20.00000	Averaged
57 o-Xylene	0.77203	0.78451	0.100	1.61711	20.00000	Averaged
\$ 61 4-Bromofluorobenzene	0.46309	0.46350	0.200	0.08783	20.00000	Averaged
\$ 78 d4-1,2-Dichlorobenzene	0.87403	0.88127	0.010	0.82845	20.00000	Averaged

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/0500830.d
Date: 30-AUG-2010 11:04
Client ID: VSTD050
Sample Info: CC0830.5,5,0
Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18

/chem1/nt9.i/30AUG10.b/11betx.b/0500830.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/11betx.b/lcs0830.d
 Lab Smp Id: LCS0830 Client Smp ID: LCS0830
 Inj Date : 30-AUG-2010 11:44
 Operator : PB Inst ID: nt9.i
 Smp Info : LCS0830,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:52 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.031	3.034	(0.615)	289608	53.7177	53.718
20 Cis-1,2-Dichloroethene	96	4.139	4.137	(0.839)	262986	51.4812	51.481
* 32 Pentafluorobenzene	168	4.931	4.934	(1.000)	528422	50.0000	
\$ 25 Dibromofluoromethane	111	4.530	4.527	(0.919)	198633	50.2709	50.271
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.940	(1.001)	205146	50.5706	50.571
33 1,2-Dichloroethane	62	4.988	4.991	(0.937)	268333	48.8654	48.865
30 Benzene	78	4.829	4.832	(0.908)	980190	51.3443	51.344
* 35 1,4-Difluorobenzene	114	5.322	5.319	(1.000)	709812	50.0000	
34 Trichloroethene	95	5.282	5.279	(0.993)	280319	53.1494	53.149
\$ 42 d8-Toluene	98	6.306	6.309	(1.185)	798023	49.6194	49.619
43 Toluene	92	6.345	6.343	(1.192)	682797	50.3305	50.331
44 Tetrachloroethene	166	6.611	6.609	(0.894)	384672	55.9256	55.926
* 52 d5-Chlorobenzene	117	7.398	7.401	(1.000)	632742	50.0000	
54 Ethyl Benzene	91	7.437	7.434	(1.005)	1376020	53.0639	53.064

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
-----	----	==	-----	-----	-----	-----	-----
56 m,p-xylene	106	7.545	7.542	(1.020)	1152783	109.917	109.92
57 o-Xylene	106	7.850	7.847	(1.061)	505595	51.7504	51.750
\$ 61 4-Bromofluorobenzene	95	8.280	8.277	(1.119)	291221	49.6933	49.693
* 75 d4-1,4-Dichlorobenzene	152	9.112	9.115	(1.000)	363992	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.440	9.437	(1.036)	317907	49.9633	49.963 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 30-AUG-2010
Lab File ID: lcs0830.d	Calibration Time: 11:04
Lab Smp Id: LCS0830	Client Smp ID: LCS0830
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: PB	
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	528422	-24.97
35 1,4-Difluorobenze	937745	468872	1875490	709812	-24.31
52 d5-Chlorobenzene	853013	426506	1706026	632742	-25.82
75 d4-1,4-Dichlorobe	503655	251828	1007310	363992	-27.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.93	-0.06
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.05
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.04
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 30AUG10
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: LCS0830 Client Smp ID: LCS0830
 Level: LOW Operator: PB
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 11betx.spk Quant Type: ISTD
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	50.000	53.718	107.44	80-120
20 Cis-1,2-Dichloroet	50.000	51.481	102.96	80-120
33 1,2-Dichloroethane	50.000	48.865	97.73	76-120
30 Benzene	50.000	51.344	102.69	80-120
34 Trichloroethene	50.000	53.149	106.30	80-120
43 Toluene	50.000	50.331	100.66	80-120
44 Tetrachloroethene	50.000	55.926	111.85	80-121
54 Ethyl Benzene	50.000	53.064	106.13	80-127
56 m,p-xylene	100.00	109.92	109.92	80-125
57 o-Xylene	50.000	51.750	103.50	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	50.271	100.54	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	50.571	101.14	75-152
\$ 42 d8-Toluene	50.000	49.619	99.24	82-115
\$ 61 4-Bromofluorobenze	50.000	49.693	99.39	64-120
\$ 78 d4-1,2-Dichloroben	50.000	49.963	99.93	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/1cs0830.d

Date: 30-AUG-2010 11:44

Client ID: LCS0830

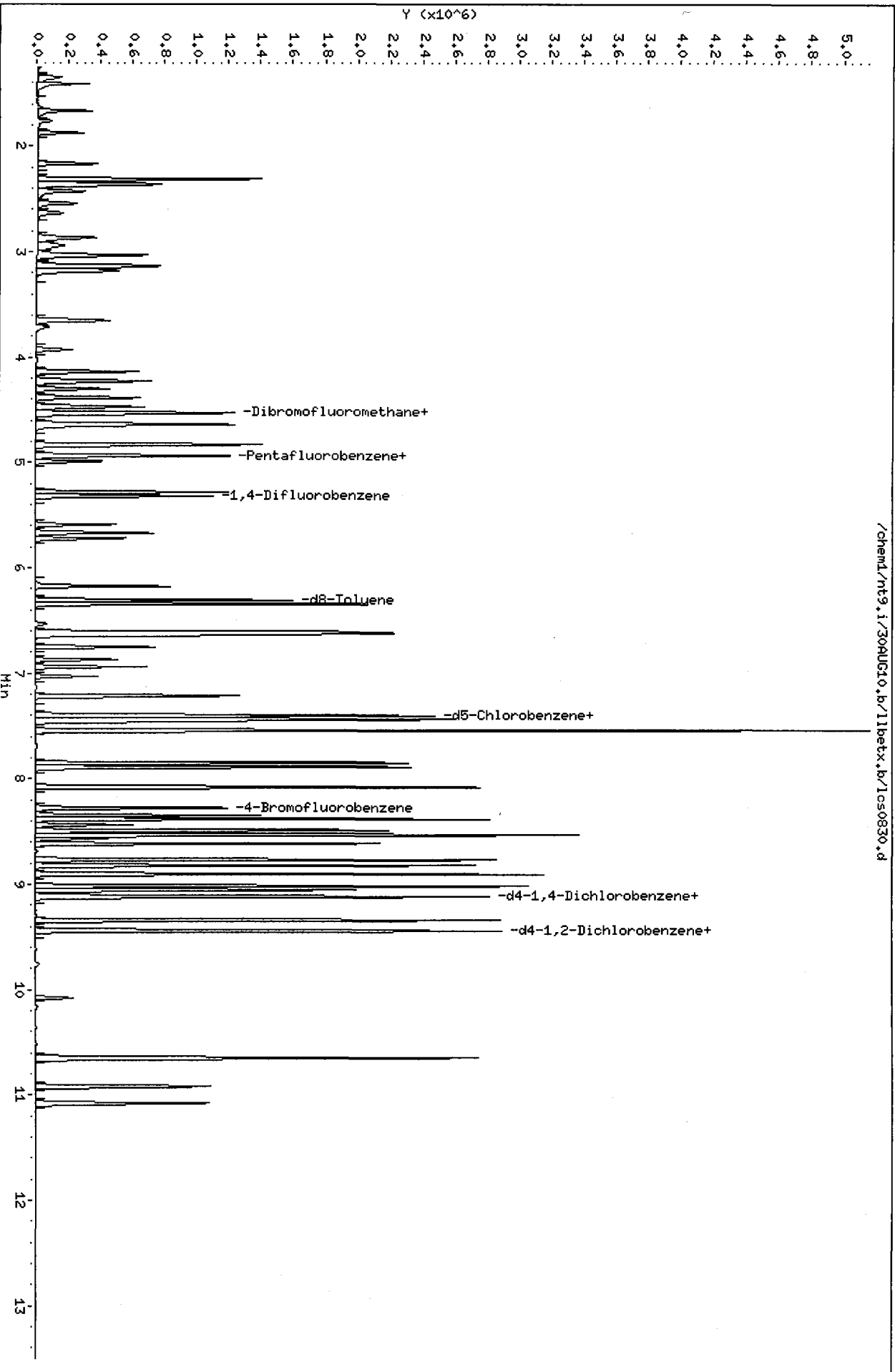
Sample Info: LCS0830,5,5,0

Column phase: RTX502.2

Instrument: nt9.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/11betx.b/lcs0830a.d
 Lab Smp Id: LCS0830 Client Smp ID: LCS0830
 Inj Date : 30-AUG-2010 12:13
 Operator : PB Inst ID: nt9.i
 Smp Info : LCS0830,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:52 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.031	3.034	(0.614)	326186	48.4203	48.420	
20 Cis-1,2-Dichloroethene	96	4.139	4.137	(0.838)	313078	49.0483	49.048	
* 32 Pentafluorobenzene	168	4.937	4.934	(1.000)	660276	50.0000		
\$ 25 Dibromofluoromethane	111	4.530	4.527	(0.918)	249399	50.5145	50.514	
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.940	(1.000)	258095	50.9178	50.918	
33 1,2-Dichloroethane	62	4.988	4.991	(0.937)	335212	49.2787	49.279	
30 Benzene	78	4.829	4.832	(0.908)	1158347	48.9815	48.982	
* 35 1,4-Difluorobenzene	114	5.322	5.319	(1.000)	879289	50.0000		
34 Trichloroethene	95	5.282	5.279	(0.993)	325248	49.7819	49.782	
\$ 42 d8-Toluene	98	6.306	6.309	(1.185)	999490	50.1680	50.168	
43 Toluene	92	6.345	6.343	(1.192)	806829	48.0101	48.010	
44 Tetrachloroethene	166	6.611	6.609	(0.894)	437155	50.6560	50.656	
* 52 d5-Chlorobenzene	117	7.398	7.401	(1.000)	793873	50.0000		
54 Ethyl Benzene	91	7.437	7.434	(1.005)	1618821	49.7564	49.756	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
-----	----	--	-----	-----	-----	-----	-----
56 m,p-xylene	106	7.545	7.542	(1.020)	1360340	103.381	103.38
57 o-Xylene	106	7.850	7.847	(1.061)	611269	49.8676	49.868
\$ 61 4-Bromofluorobenzene	95	8.274	8.277	(1.119)	367733	50.0131	50.013
* 75 d4-1,4-Dichlorobenzene	152	9.112	9.115	(1.000)	455467	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.437	(1.035)	402084	50.5013	50.501(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 30-AUG-2010
Lab File ID: lcs0830a.d	Calibration Time: 11:04
Lab Smp Id: LCS0830	Client Smp ID: LCS0830
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: PB	
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	660276	-6.25
35 1,4-Difluorobenze	937745	468872	1875490	879289	-6.23
52 d5-Chlorobenzene	853013	426506	1706026	793873	-6.93
75 d4-1,4-Dichlorobe	503655	251828	1007310	455467	-9.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.06
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.05
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.04
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 30AUG10
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: LCS0830 Client Smp ID: LCS0830
 Level: LOW Operator: PB
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: 11betx.spk Quant Type: ISTD
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	50.000	48.420	96.84	80-120
20 Cis-1,2-Dichloroet	50.000	49.048	98.10	80-120
33 1,2-Dichloroethane	50.000	49.279	98.56	76-120
30 Benzene	50.000	48.982	97.96	80-120
34 Trichloroethene	50.000	49.782	99.56	80-120
43 Toluene	50.000	48.010	96.02	80-120
44 Tetrachloroethene	50.000	50.656	101.31	80-121
54 Ethyl Benzene	50.000	49.756	99.51	80-127
56 m,p-xylene	100.00	103.38	103.38	80-125
57 o-Xylene	50.000	49.868	99.74	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	50.514	101.03	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	50.918	101.84	75-152
\$ 42 d8-Toluene	50.000	50.168	100.34	82-115
\$ 61 4-Bromofluorobenze	50.000	50.013	100.03	64-120
\$ 78 d4-1,2-Dichloroben	50.000	50.501	101.00	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/lcs0830a.d

Date: 30-AUG-2010 12:13

Client ID: LCS0830

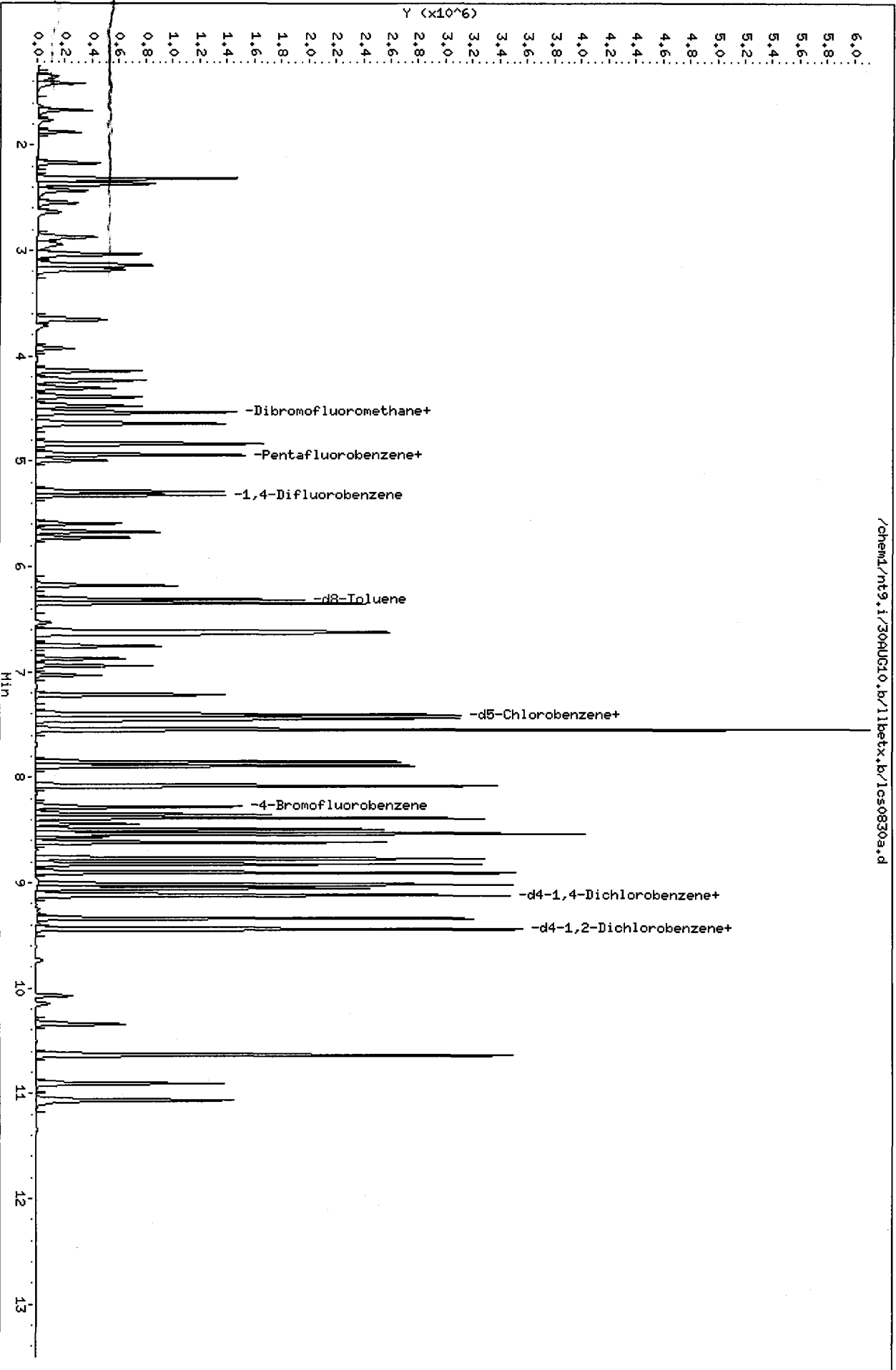
Sample Info: LCS0830,5,5,0

Column phase: RTX502.2

Instrument: nt9.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/11betx.b/mb0830.d
 Lab Smp Id: MB0830 Client Smp ID: MB0830
 Inj Date : 30-AUG-2010 12:43
 Operator : PB Inst ID: nt9.i
 Smp Info : MB0830,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:52 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

h^a/7b

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.937	4.934	(1.000)	651427	50.0000	
\$ 25 Dibromofluoromethane	111	4.529	4.527	(0.917)	236629	48.5790	48.579
\$ 31 1,1,2-Dichloroethane	65	4.937	4.940	(1.000)	249607	49.9122	49.912
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.321	5.319	(1.000)	868362	50.0000	
34 Trichloroethene	95						
\$ 42 o8-Toluene	98	6.305	6.309	(1.185)	982061	49.9134	49.913
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 m5-Chlorobenzene	117	7.397	7.401	(1.000)	768377	50.0000	
54 Ethyl Benzene	91						

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106		Compound Not Detected.				
57 o-Xylene	106		Compound Not Detected.				
\$ 61 4-Bromofluorobenzene	95	8.274	8.277	(1.119)	353897	49.7284	49.728
* 75 d4-1,4-Dichlorobenzene	152	9.106	9.115	(1.000)	431676	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.437	(1.036)	378008	50.0940	50.094 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: mb0830.d
 Lab Smp Id: MB0830
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/30AUG10.b/1lbetx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 30-AUG-2010
 Calibration Time: 11:04
 Client Smp ID: MB0830
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	651427	-7.50
35 1,4-Difluorobenze	937745	468872	1875490	868362	-7.40
52 d5-Chlorobenzene	853013	426506	1706026	768377	-9.92
75 d4-1,4-Dichlorobe	503655	251828	1007310	431676	-14.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.05
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.04
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.05
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.10

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.

Analytical Resources, Inc.

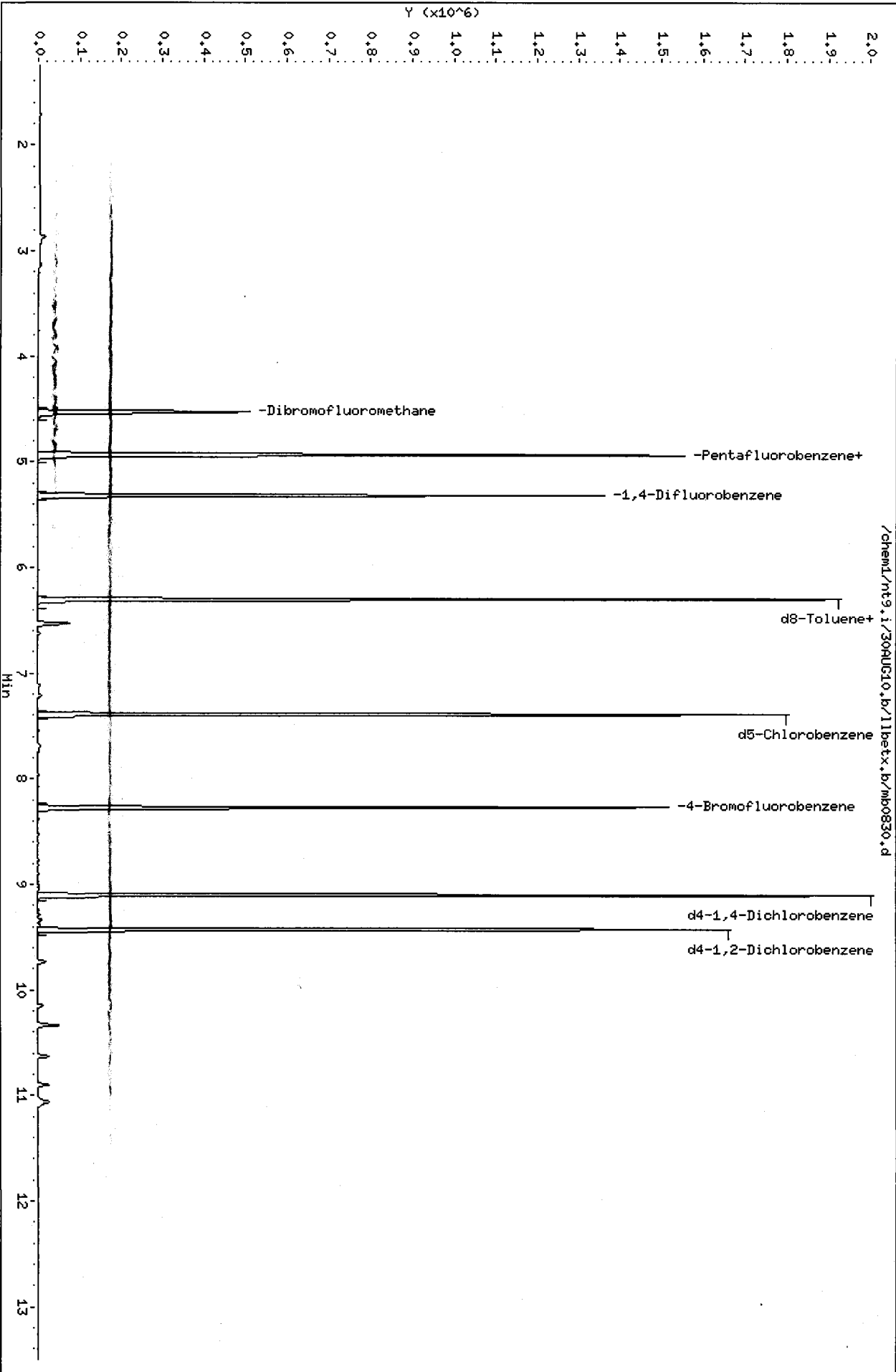
RECOVERY REPORT

Client Name: Client SDG: 30AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MB0830 Client Smp ID: MB0830
Level: LOW Operator: PB
Data Type: MS DATA SampleType: BLANK
SpikeList File: all.spk Quant Type: ISTD
Sublist File: 11betx.sub
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	48.579	97.16	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	49.912	99.82	75-152
\$ 42 d8-Toluene	50.000	49.913	99.83	82-115
\$ 61 4-Bromofluorobenze	50.000	49.728	99.46	64-120
\$ 78 d4-1,2-Dichloroben	50.000	50.094	100.19	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/m0830.d
Date: 30-AUG-2010 12:43
Client ID: M0830
Sample Info: M0830,5,5,0
Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/11betx.b/rk21a.d
 Lab Smp Id: RK21A Client Smp ID: MW15-50-55-082310
 Inj Date : 30-AUG-2010 13:33
 Operator : PB Inst ID: nt9.i
 Smp Info : RK21A,5,10.961,0
 Misc Info : 10-21245
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:54 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.96100	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.937	4.934	(1.000)	653991	50.0000	
\$ 25 Dibromofluoromethane	111	4.530	4.527	(0.918)	249431	51.0065	23.267
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.940	(1.000)	289233	57.6092	26.279
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.322	5.319	(1.000)	875752	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.306	6.309	(1.185)	997486	50.2696	22.931
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.398	7.401	(1.000)	792738	50.0000	
54 Ethyl Benzene	91						

✓

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====	=====
56 m,p-xylene	106					Compound Not Detected.		
57 o-Xylene	106					Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95		8.280	8.277	(1.119)	377314	51.3896	23.442
* 75 d4-1,4-Dichlorobenzene	152		9.112	9.115	(1.000)	449549	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152		9.440	9.437	(1.036)	405233	51.5668	23.523 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: rk21a.d
Lab Smp Id: RK21A
Analysis Type: VOA
Quant Type: ISTD
Operator: PB

Calibration Date: 30-AUG-2010
Calibration Time: 11:04
Client Smp ID: MW15-50-55-082310
Level: LOW
Sample Type: Soil

Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-21245

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	704281	352140	1408562	653991	-7.14
35 1,4-Difluorobenzene	937745	468872	1875490	875752	-6.61
52 d5-Chlorobenzene	853013	426506	1706026	792738	-7.07
75 d4-1,4-Dichlorobenzene	503655	251828	1007310	449549	-10.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	4.93	4.43	5.43	4.94	0.06
35 1,4-Difluorobenzene	5.32	4.82	5.82	5.32	0.06
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.03
75 d4-1,4-Dichlorobenzene	9.11	8.61	9.61	9.11	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: SOLID
Lab Smp Id: RK21A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: 11betx.sub
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-21245

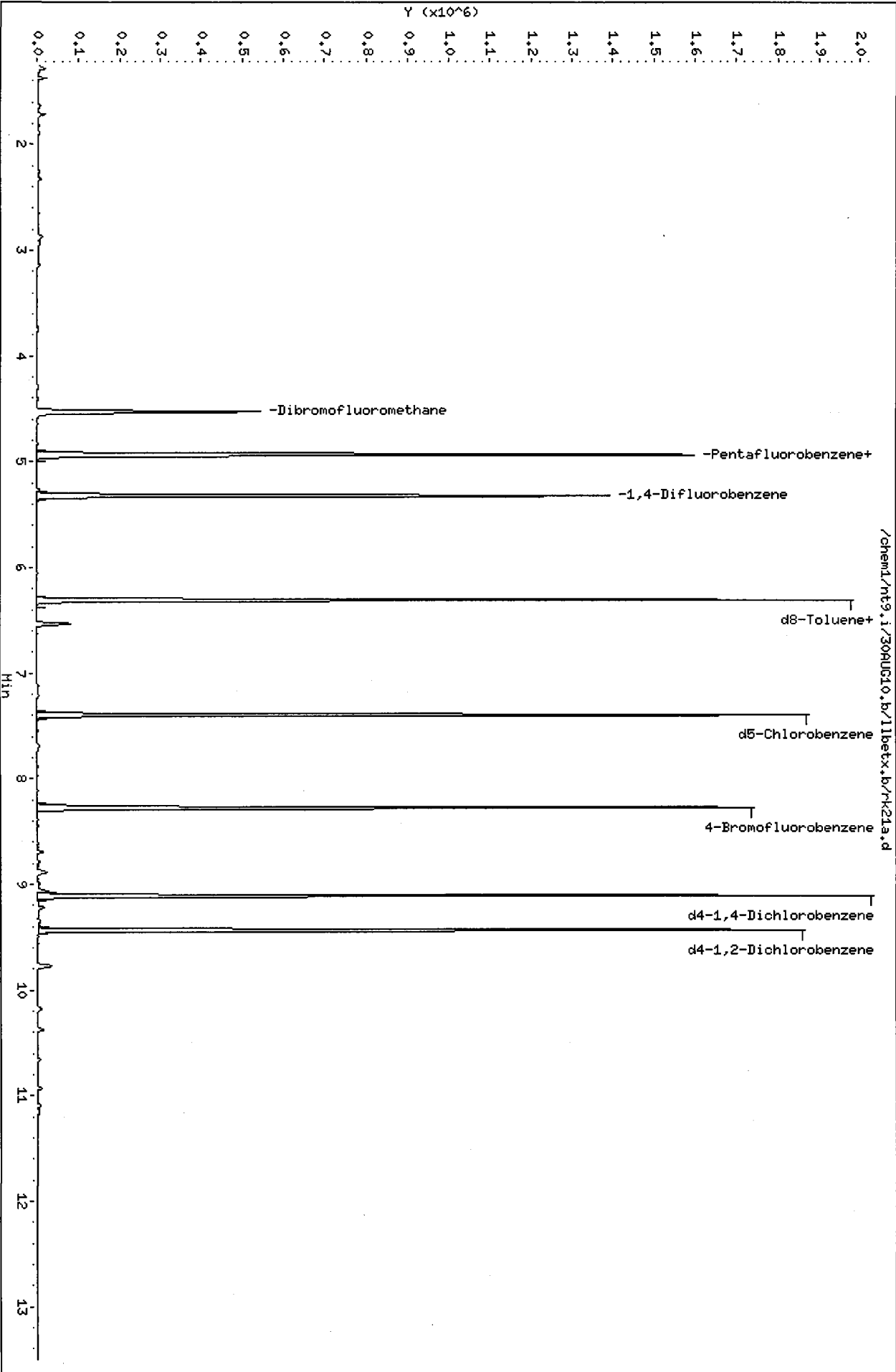
Client SDG: RK21
Fraction: VOA
Client Smp ID: MW15-50-55-082310
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	51.006	102.01	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	57.609	115.22	75-152
\$ 42 d8-Toluene	50.000	50.270	100.54	82-115
\$ 61 4-Bromofluorobenze	50.000	51.390	102.78	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.567	103.13	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/rk21a.d
Date: 30-AUG-2010 13:33
Client ID: HM15-50-55-082310
Sample Info: RK21A,5,10,961,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/llbetx.b/rk21b.d
 Lab Smp Id: RK21B Client Smp ID: MW16-39-40-082410
 Inj Date : 30-AUG-2010 14:03
 Operator : PB Inst ID: nt9.i
 Smp Info : RK21B,5,10.740,0
 Misc Info : 10-21246
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:54 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: llbetx.sub
 Target Version: 3.50
 Processing Host: cserv3

patrickb

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.74000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.933	4.934	(1.000)	649462	50.0000	
\$ 25 Dibromofluoromethane	111	4.531	4.527	(0.919)	243583	50.1579	23.351
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.940	(1.001)	280897	56.3390	26.229
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.323	5.319	(1.000)	860341	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.307	6.309	(1.185)	985320	50.5459	23.532
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.399	7.401	(1.000)	781495	50.0000	
54 Ethyl Benzene	91						

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
-----	----	==	=====	=====	-----	-----	-----
56 m,p-xylene	106		Compound Not Detected.				
57 o-Xylene	106		Compound Not Detected.				
\$ 61 4-Bromofluorobenzene	95	8.276	8.277	(1.118)	369890	51.1033	23.791
* 75 d4-1,4-Dichlorobenzene	152	9.108	9.115	(1.000)	450466	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.430	9.437	(1.035)	404986	51.4305	23.943(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: rk21b.d
 Lab Smp Id: RK21B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-21246

Calibration Date: 30-AUG-2010
 Calibration Time: 11:04
 Client Smp ID: MW16-39-40-082410
 Level: LOW
 Sample Type: Soil

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	649462	-7.78
35 1,4-Difluorobenze	937745	468872	1875490	860341	-8.25
52 d5-Chlorobenzene	853013	426506	1706026	781495	-8.38
75 d4-1,4-Dichlorobe	503655	251828	1007310	450466	-10.56

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.93	-0.03
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.08
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.02
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.08

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: SOLID
Lab Smp Id: RK21B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: llbetx.sub
Method File: /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
Misc Info: 10-21246

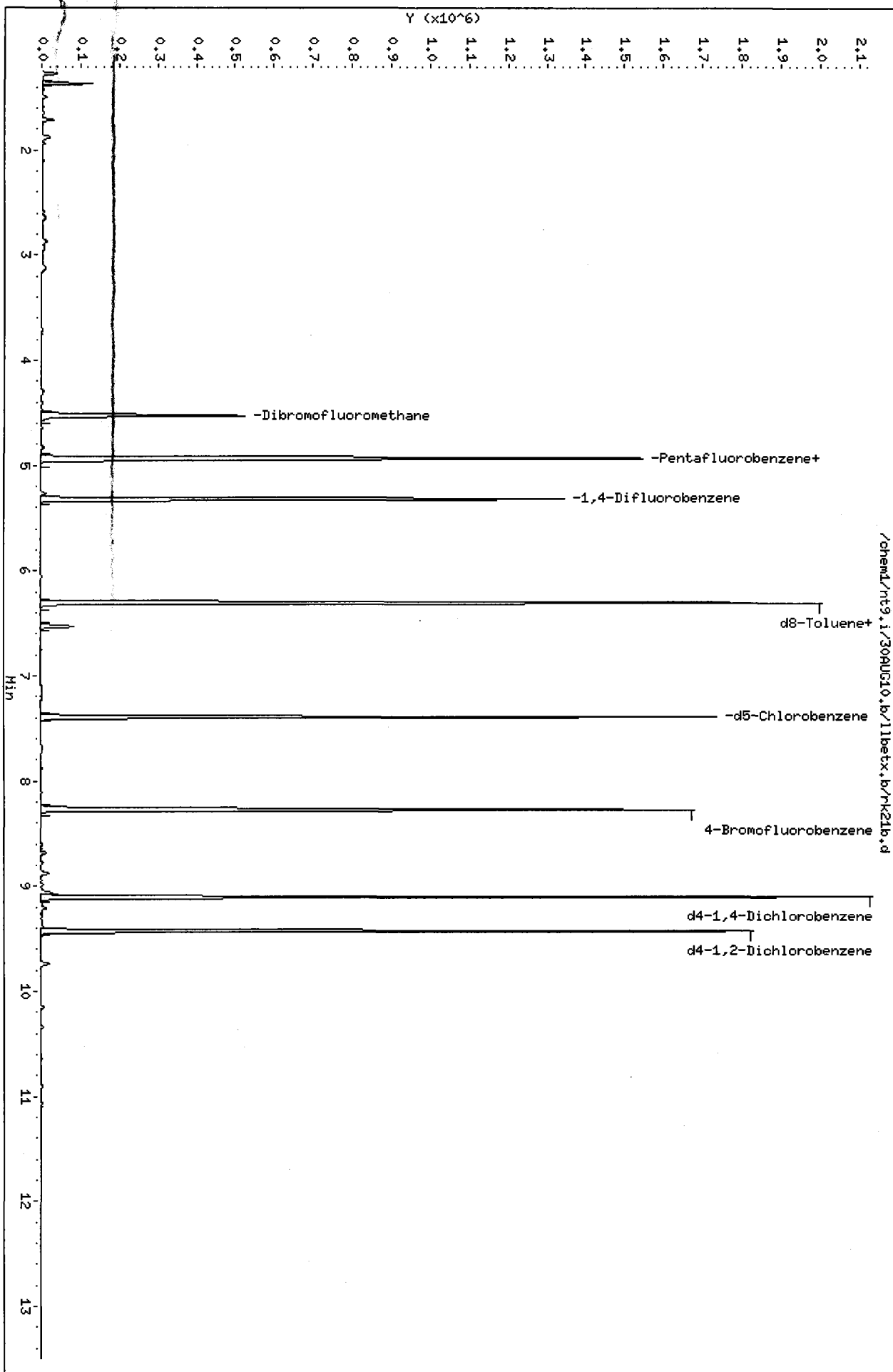
Client SDG: RK21
Fraction: VOA
Client Smp ID: MW16-39-40-082410
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	50.158	100.32	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	56.339	112.68	75-152
\$ 42 d8-Toluene	50.000	50.546	101.09	82-115
\$ 61 4-Bromofluorobenze	50.000	51.103	102.21	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.430	102.86	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/rk21b.d
Date: 30-AUG-2010 14:03
Client ID: HML6-39-40-082410
Sample Info: RK21B,5,10,740,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/llbetx.b/rk21c.d
 Lab Smp Id: RK21C Client Smp ID: MW16-39-40-082410-D
 Inj Date : 30-AUG-2010 14:33
 Operator : PB Inst ID: nt9.i
 Smp Info : RK21C,5,9.683,0
 Misc Info : 10-21247
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:54 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: llbetx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.68300	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.937	4.934	(1.000)	619147	50.0000	
\$ 25 Dibromofluoromethane	111	4.530	4.527	(0.918)	232608	50.2432	25.944
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.940	(1.000)	267993	56.3826	29.114
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.322	5.319	(1.000)	824083	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.306	6.309	(1.185)	941473	50.4216	26.036
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.398	7.401	(1.000)	751614	50.0000	
54 Ethyl Benzene	91						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
-----	----	==	=====	=====	(ug/Kg)	(ug/Kg)	
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.275	8.277	(1.119)	353530	50.7848 26.224	
* 75 d4-1,4-Dichlorobenzene	152	9.106	9.115	(1.000)	429556	50.0000 (Q)	
\$ 78 d4-1,2-Dichlorobenzene	152	9.429	9.437	(1.035)	387371	51.5881 26.639(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: rk21c.d
Lab Smp Id: RK21C
Analysis Type: VOA
Quant Type: ISTD
Operator: PB

Calibration Date: 30-AUG-2010
Calibration Time: 11:04
Client Smp ID: MW16-39-40-082410-D
Level: LOW
Sample Type: Soil

Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-21247

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	619147	-12.09
35 1,4-Difluorobenze	937745	468872	1875490	824083	-12.12
52 d5-Chlorobenzene	853013	426506	1706026	751614	-11.89
75 d4-1,4-Dichlorobe	503655	251828	1007310	429556	-14.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.06
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.05
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.04
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.09

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
Sample Matrix: SOLID
Lab Smp Id: RK21C
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: llbetx.sub
Method File: /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
Misc Info: 10-21247

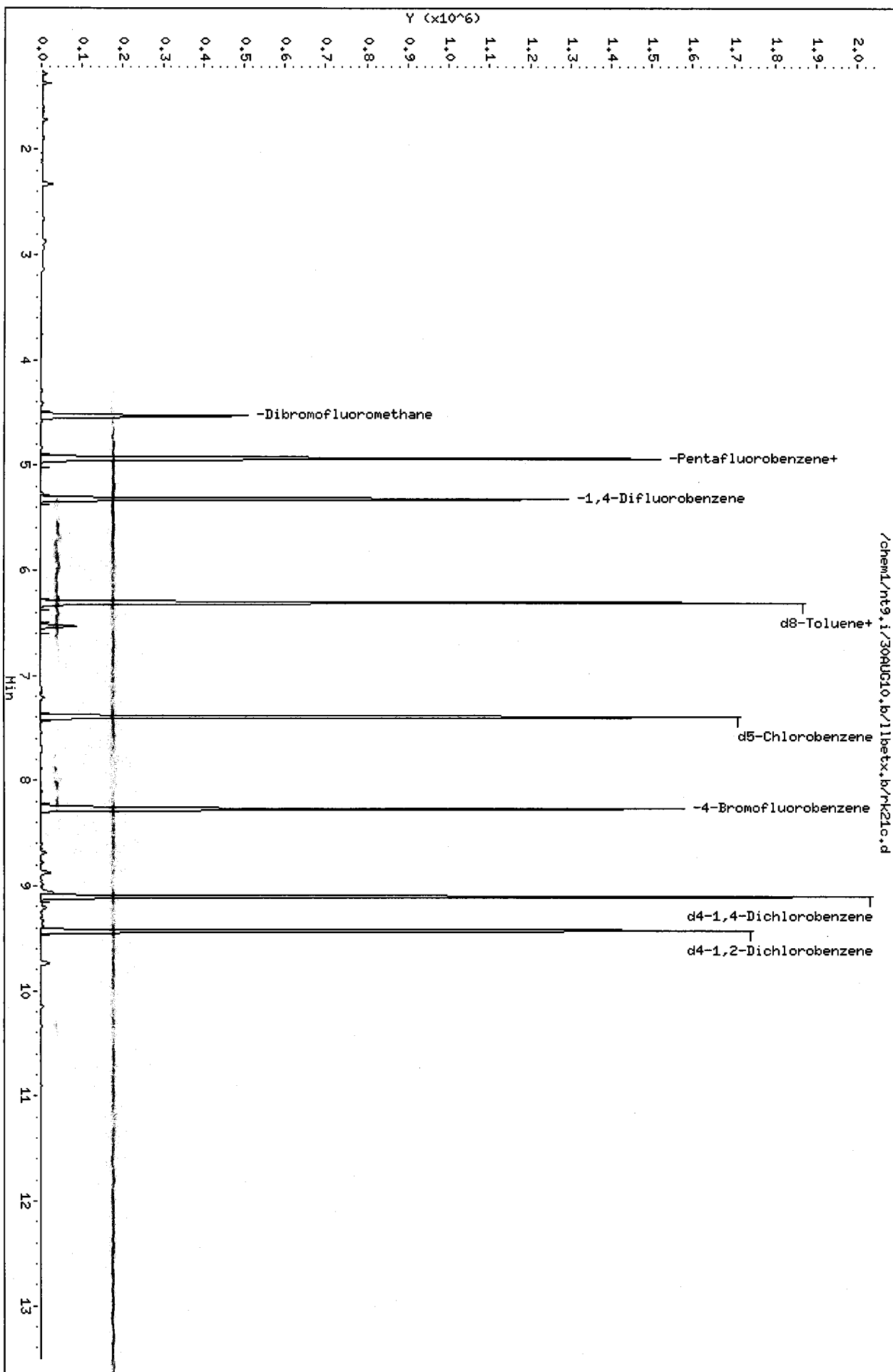
Client SDG: RK21
Fraction: VOA
Client Smp ID: MW16-39-40-082410-D
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	50.243	100.49	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	56.383	112.77	75-152
\$ 42 d8-Toluene	50.000	50.422	100.84	82-115
\$ 61 4-Bromofluorobenze	50.000	50.785	101.57	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.588	103.18	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/rk21c.d
Date : 30-AUG-2010 14:33
Client ID: MHL6-39-40-082410-D
Sample Info: RK21C,5,9,683,0

Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/llbetx.b/rk21cms.d
Lab Smp Id: RK21CMS Client Smp ID: MW16-39-40-0824 MS
Inj Date : 30-AUG-2010 20:31
Operator : PB Inst ID: nt9.i
Smp Info : RK21CMS,5,10.198,0
Misc Info : 10-21247
Comment :
Method : /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
Meth Date : 06-Sep-2010 10:52 patrickb Quant Type: ISTD
Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llbetx.sub
Target Version: 3.50
Processing Host: cserv3

patrick

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.19800	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.037	3.034	(0.615)	246907	36.7872	18.036 (R)
20 Cis-1,2-Dichloroethene	96	4.140	4.137	(0.838)	212408	33.3997	16.376 (R)
* 32 Pentafluorobenzene	168	4.938	4.934	(1.000)	657847	50.0000	
\$ 25 Dibromofluoromethane	111	4.530	4.527	(0.918)	251897	51.2088	25.107
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.940	(1.000)	279477	55.3397	27.133
33 1,2-Dichloroethane	62	4.994	4.991	(0.938)	198993	29.5109	14.469 (R)
30 Benzene	78	4.830	4.832	(0.908)	864920	36.8956	18.090 (R)
* 35 1,4-Difluorobenzene	114	5.322	5.319	(1.000)	871619	50.0000	
34 Trichloroethene	95	5.283	5.279	(0.993)	236911	36.5803	17.935 (R)
\$ 42 d8-Toluene	98	6.312	6.309	(1.186)	991754	50.2177	24.621
43 Toluene	92	6.346	6.343	(1.192)	569649	34.1951	16.766 (R)
44 Tetrachloroethene	166	6.612	6.609	(0.894)	319837	36.7670	18.027 (R)
* 52 d5-Chlorobenzene	117	7.398	7.401	(1.000)	800234	50.0000	
54 Ethyl Benzene	91	7.438	7.434	(1.005)	1060756	32.3445	15.858 (R)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
-----	----	==	-----	-----	-----	-----	-----
56 m,p-xylene	106	7.545	7.542	(1.020)	841487	63.4419	31.105 (R)
57 o-Xylene	106	7.851	7.847	(1.061)	368856	29.8523	14.636 (R)
\$ 61 4-Bromofluorobenzene	95	8.275	8.277	(1.119)	380738	51.3702	25.186
* 75 d4-1,4-Dichlorobenzene	152	9.107	9.115	(1.000)	467271	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.435	9.437	(1.036)	418741	51.2648	25.135 (Q)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: rk21cms.d
Lab Smp Id: RK21CMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
Misc Info: 10-21247

Calibration Date: 30-AUG-2010
Calibration Time: 11:04
Client Smp ID: MW16-39-40-0824 MS
Level: LOW
Sample Type: Soil

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	657847	-6.59
35 1,4-Difluorobenze	937745	468872	1875490	871619	-7.05
52 d5-Chlorobenzene	853013	426506	1706026	800234	-6.19
75 d4-1,4-Dichlorobe	503655	251828	1007310	467271	-7.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.07
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.06
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.03
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.09

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snyder
 Sample Matrix: SOLID
 Lab Smp Id: RK21CMS
 Level: LOW
 Data Type: MS DATA
 SpikeList File: 11betx.spk
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-21247

Client SDG: RK21
 Fraction: VOA
 Client Smp ID: MW16-39-40-0824 MS
 Operator: PB
 SampleType: MS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	24.515	18.036	73.57*	80-120
20 Cis-1,2-Dichloroet	24.515	16.376	66.80*	80-120
33 1,2-Dichloroethane	24.515	14.469	59.02*	76-120
30 Benzene	24.515	18.090	73.79*	80-120
34 Trichloroethene	24.515	17.935	73.16*	80-120
43 Toluene	24.515	16.766	68.39*	80-120
44 Tetrachloroethene	24.515	18.027	73.53*	80-121
54 Ethyl Benzene	24.515	15.858	64.69*	80-127
56 m,p-xylene	49.029	31.105	63.44*	80-125
57 o-Xylene	24.515	14.636	59.70*	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	51.209	102.42	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	55.340	110.68	75-152
\$ 42 d8-Toluene	50.000	50.218	100.44	82-115
\$ 61 4-Bromofluorobenze	50.000	51.370	102.74	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.265	102.53	80-120

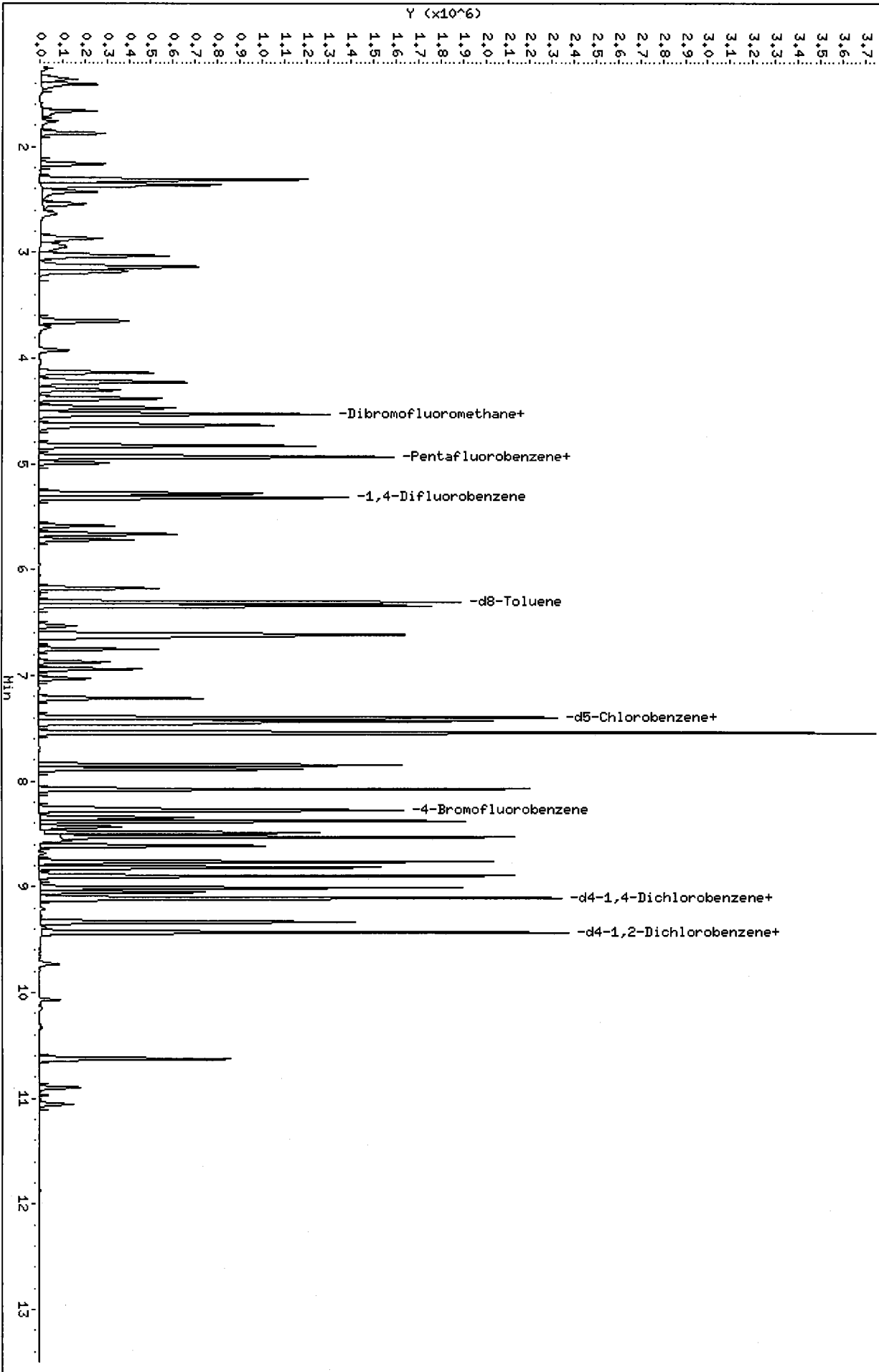
Instrument: nt9.i

Operator: pg

Column diameter: 0.18

Column phase: RTX502.2

/chem1/nt9.i/30AUG10.b/11betx.b/rk21cms.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/30AUG10.b/llbetx.b/rk21cmsd.d
 Lab Smp Id: RK21CMSD Client Smp ID: MW16-39-40-0824 MSD
 Inj Date : 30-AUG-2010 21:01
 Operator : PB Inst ID: nt9.i
 Smp Info : RK21CMSD,5,9.899,0
 Misc Info : 10-21247
 Comment :
 Method : /chem1/nt9.i/30AUG10.b/llbetx.b/VO063010S.m
 Meth Date : 06-Sep-2010 10:52 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: llbetx.sub
 Target Version: 3.50
 Processing Host: cserv3

pat/b

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.89900	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.034	3.034	(0.615)	265476	38.5074	19.450 (R)
20 Cis-1,2-Dichloroethene	96	4.142	4.137	(0.840)	229367	35.1122	17.735 (R)
* 32 Pentafluorobenzene	168	4.934	4.934	(1.000)	675724	50.0000	
\$ 25 Dibromofluoromethane	111	4.533	4.527	(0.919)	259388	51.3366	25.930
\$ 31 d4-1,2-Dichloroethane	65	4.940	4.940	(1.001)	290144	55.9319	28.251
33 1,2-Dichloroethane	62	4.991	4.991	(0.937)	215275	31.0504	15.684 (R)
30 Benzene	78	4.832	4.832	(0.908)	925305	38.3895	19.391 (R)
* 35 1,4-Difluorobenzene	114	5.325	5.319	(1.000)	896186	50.0000	
34 Trichloroethene	95	5.285	5.279	(0.993)	252917	37.9812	19.184 (R)
\$ 42 d8-Toluene	98	6.309	6.309	(1.185)	1026674	50.5608	25.538
43 Toluene	92	6.343	6.343	(1.191)	619380	36.1611	18.265 (R)
44 Tetrachloroethene	166	6.609	6.609	(0.893)	350931	39.0723	19.735 (R)
* 52 d5-Chlorobenzene	117	7.401	7.401	(1.000)	826227	50.0000	
54 Ethyl Benzene	91	7.440	7.434	(1.005)	1174911	34.6982	17.526 (R)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.542	7.542	(1.019)	944980	69.0032	34.854 (R)
57 o-Xylene	106	7.848	7.847	(1.060)	411162	32.2293	16.279 (R)
\$ 61 4-Bromofluorobenzene	95	8.277	8.277	(1.118)	391915	51.2147	25.869
* 75 d4-1,4-Dichlorobenzene	152	9.109	9.115	(1.000)	486323	50.0000	(Q)
\$ 78 d4-1,2-Dichlorobenzene	152	9.431	9.437	(1.035)	433982	51.0493	25.785 (Q)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 30-AUG-2010
Lab File ID: rk21cmsd.d	Calibration Time: 11:04
Lab Smp Id: RK21CMSD	Client Smp ID: MW16-39-40-0824 MSD
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Soil
Operator: PB	
Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m	
Misc Info: 10-21247	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	675724	-4.05
35 1,4-Difluorobenze	937745	468872	1875490	896186	-4.43
52 d5-Chlorobenzene	853013	426506	1706026	826227	-3.14
75 d4-1,4-Dichlorobe	503655	251828	1007310	486323	-3.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.93	0.00
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.11
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.06

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider
 Sample Matrix: SOLID
 Lab Smp Id: RK21CMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: 11betx.spk
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/30AUG10.b/11betx.b/VO063010S.m
 Misc Info: 10-21247

Client SDG: RK21
 Fraction: VOA
 Client Smp ID: MW16-39-40-0824 MSD
 Operator: PB
 SampleType: MSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	25.255	19.450	77.01*	80-120
20 Cis-1,2-Dichloroet	25.255	17.735	70.22*	80-120
33 1,2-Dichloroethane	25.255	15.684	62.10*	76-120
30 Benzene	25.255	19.391	76.78*	80-120
34 Trichloroethene	25.255	19.184	75.96*	80-120
43 Toluene	25.255	18.265	72.32*	80-120
44 Tetrachloroethene	25.255	19.735	78.14*	80-121
54 Ethyl Benzene	25.255	17.526	69.40*	80-127
56 m,p-xylene	50.510	34.854	69.00*	80-125
57 o-Xylene	25.255	16.279	64.46*	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	51.337	102.67	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	55.932	111.86	75-152
\$ 42 d8-Toluene	50.000	50.561	101.12	82-115
\$ 61 4-Bromofluorobenze	50.000	51.215	102.43	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.049	102.10	80-120

Data File: /chem1/nt9.i/30AUG10.b/11betx.b/rk21cmsd.d

Date: 30-AUG-2010 21:01

Client ID: HML6-39-40-0824 HSD

Sample Info: RK21CHSD,5,9,899,0

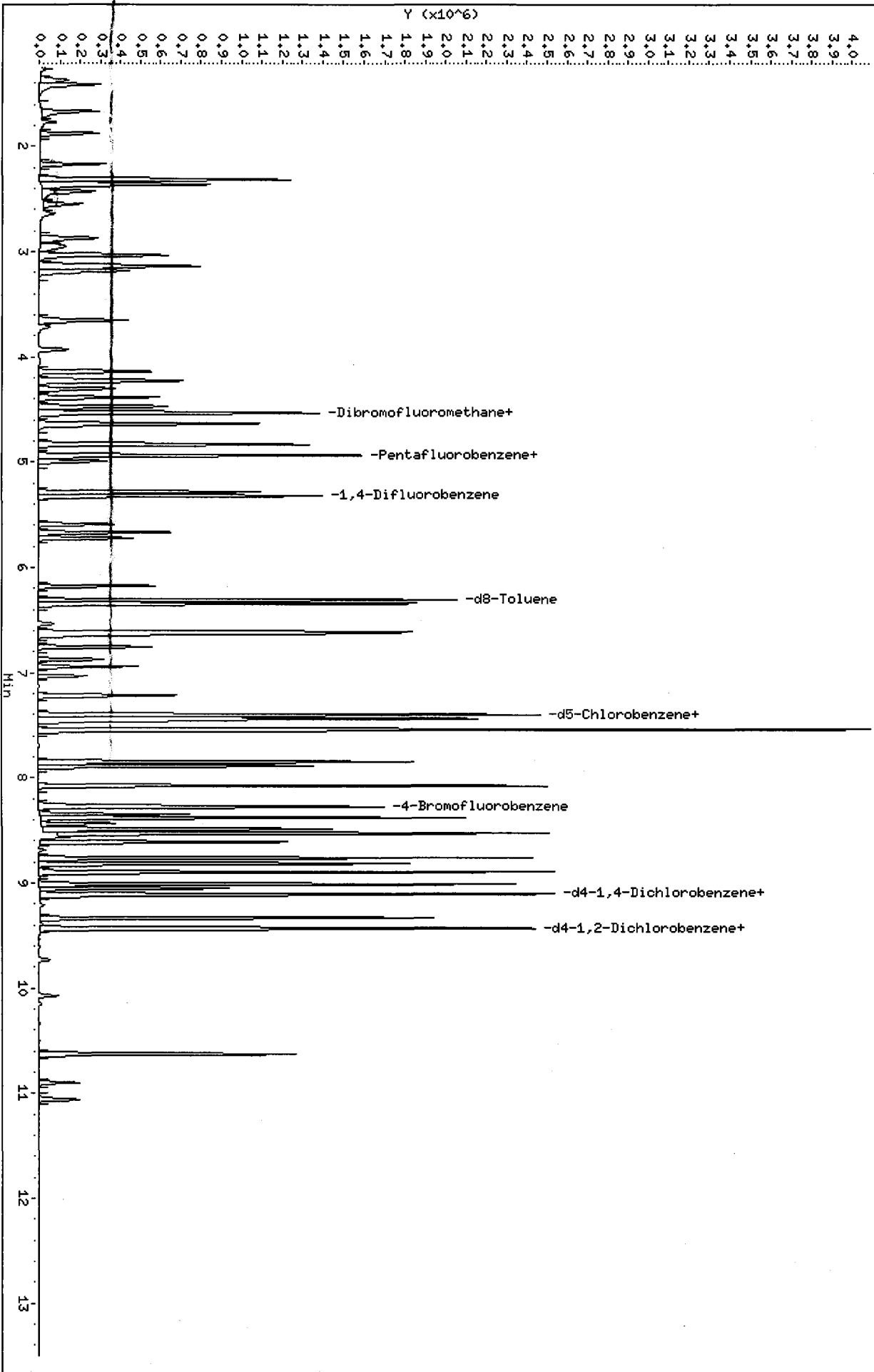
Column phase: RTX502.2

Instrument: nt9.i

Operator: pg

Column diameter: 0.18

/chem1/nt9.i/30AUG10.b/11betx.b/rk21cmsd.d



Analytical Resources Inc.: Volatile Organics Instrument Log

NT-9 Serial No.: GC=US00021704, MS=US80230047

Date: 1/16 Analysis: Shuc Analyst: [Signature]

GC Program: WA Column No: 56207 Column Type: NT-9

Instrument Tune (.U or .CT.): bfh0901b EM Voltage: 1255

Calibration File: 0J00901 Curve Date: 8/25/07

IS/SS	Ical/Ccal	LCS/ICV
<u>W 652-1</u>	<u>W 652-2</u>	<u>W 652-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt9.i/01SEP10.b

Time	Filename	LabID	ClientID	WT	
1	1025	bfh09010.d	BFB0901	0.00	
2	1102	0500901.d	CC0901	VSTD050	5.00 | 4.93 | 522114 | 5.32 | 694289 | 7.40 | 626079 | 9.11 | 350632
3	1150	lcs0901.d	LCS0901	LCS0901	5.00 | 4.93 | 524009 | 5.32 | 700180 | 7.40 | 636700 | 9.12 | 376709
4	1219	lcs0901a.d	LCS0901	LCS0901	5.00 | 4.94 | 503135 | 5.32 | 667344 | 7.40 | 597974 | 9.11 | 343427
5	1249	mb0901.d	MB0901	MB0901	5.00 | 4.94 | 539660 | 5.32 | 719302 | 7.40 | 638404 | 9.11 | 358020
6	1326	rk84a2.d	RK84A	PSB21-0-0.5-082510	5.00 | 4.94 | 471469 | 5.32 | 618856 | 7.40 | 538681 | 9.11 | 267621
7	1356	rk84e2.d	RK84E	PSB21-6-7-082510	5.00 | 4.93 | 502030 | 5.32 | 657855 | 7.40 | 526793 | 9.11 | 217604
8	1426	rk84i2.d	RK84I	PSB19-1-2-082510	5.00 | 4.93 | 575611 | 5.32 | 774703 | 7.40 | 723656 | 9.11 | 419998
9	1456	rk89a2.d	RK89A	MW17-50-51-082610	5.00 | 4.94 | 556116 | 5.32 | 767014 | 7.40 | 704399 | 9.11 | 411021
10	1525	rk89b.d	RK89B	MW17-TB-082610	<u>1</u> | 4.93 | 512928 | 5.32 | 705647 | 7.40 | 641306 | 9.11 | 360094
11	1555	rk83a.d	RK83A	PSB20-0-0.5-082510	5.00 | 4.94 | 541231 | 5.32 | 744656 | 7.40 | 655638 | 9.10 | 284993
12	1625	rk83b.d	RK83B	PSB20-2-4-082510	5.00 | 4.94 | 562639 | 5.32 | 771727 | 7.40 | 714024 | 9.11 | 419404
13	1655	rk83c.d	RK83C	PSB20-1.5-2-082510	5.00 | 4.94 | 557718 | 5.32 | 758667 | 7.40 | 696029 | 9.11 | 365377
14	1725	rk83d.d	RK83D	PSB20-11.5-13.5-082	5.00 | 4.94 | 537142 | 5.32 | 727557 | 7.40 | 676428 | 9.11 | 390661
15	1754	rk83e.d	RK83E	PSB20-4-6-082510	5.00 | 4.94 | 540911 | 5.32 | 735889 | 7.40 | 669884 | 9.11 | 370559
16	1824	rk83f.d	RK83F	PSB20-2-4-082510-DU	5.00 | 4.93 | 546712 | 5.32 | 747853 | 7.39 | 701108 | 9.11 | 408005
17	1854	rk83g.d	RK83G	PSB20-TB-082610	<u>1</u> | 4.94 | 496900 | 5.32 | 681196 | 7.40 | 621218 | 9.11 | 354050
18	1924	rk83h.d	RK83H	PSB16-2-4-082510	5.00 | 4.94 | 538364 | 5.32 | 737040 | 7.40 | 700011 | 9.11 | 416690
19	1954	rk83i.d	RK83I	PSB16-0-0.5-082510	5.00 | 4.93 | 532121 | 5.32 | 723247 | 7.40 | 674628 | 9.11 | 377584
20	2024	rk83j.d	RK83J	PSB16-1-2-082510	5.00 | 4.94 | 544622 | 5.33 | 743064 | 7.40 | 698771 | 9.11 | 410075
21	2054	rk83l.d	RK83L	PSB16-4-6-082510	5.00 | 4.94 | 533611 | 5.33 | 732708 | 7.40 | 664121 | 9.11 | 348749
22	2124	rk83m.d	RK83M	PSB16-13-15-082510	5.00 | 4.94 | 577043 | 5.33 | 739111 | 7.40 | 709073 | 9.11 | 424067
23	2154	rk83n.d	RK83N	PSB16-TB-082610	<u>1</u> | 4.94 | 486158 | 5.33 | 668690 | 7.40 | 607192 | 9.10 | 350234

Main

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Date : 01-SEP-2010 10:25

Client ID: BFB0901

Instrument: nt9.i

Sample Info: BFB0901,BFB0901,,1,01SEP10,,

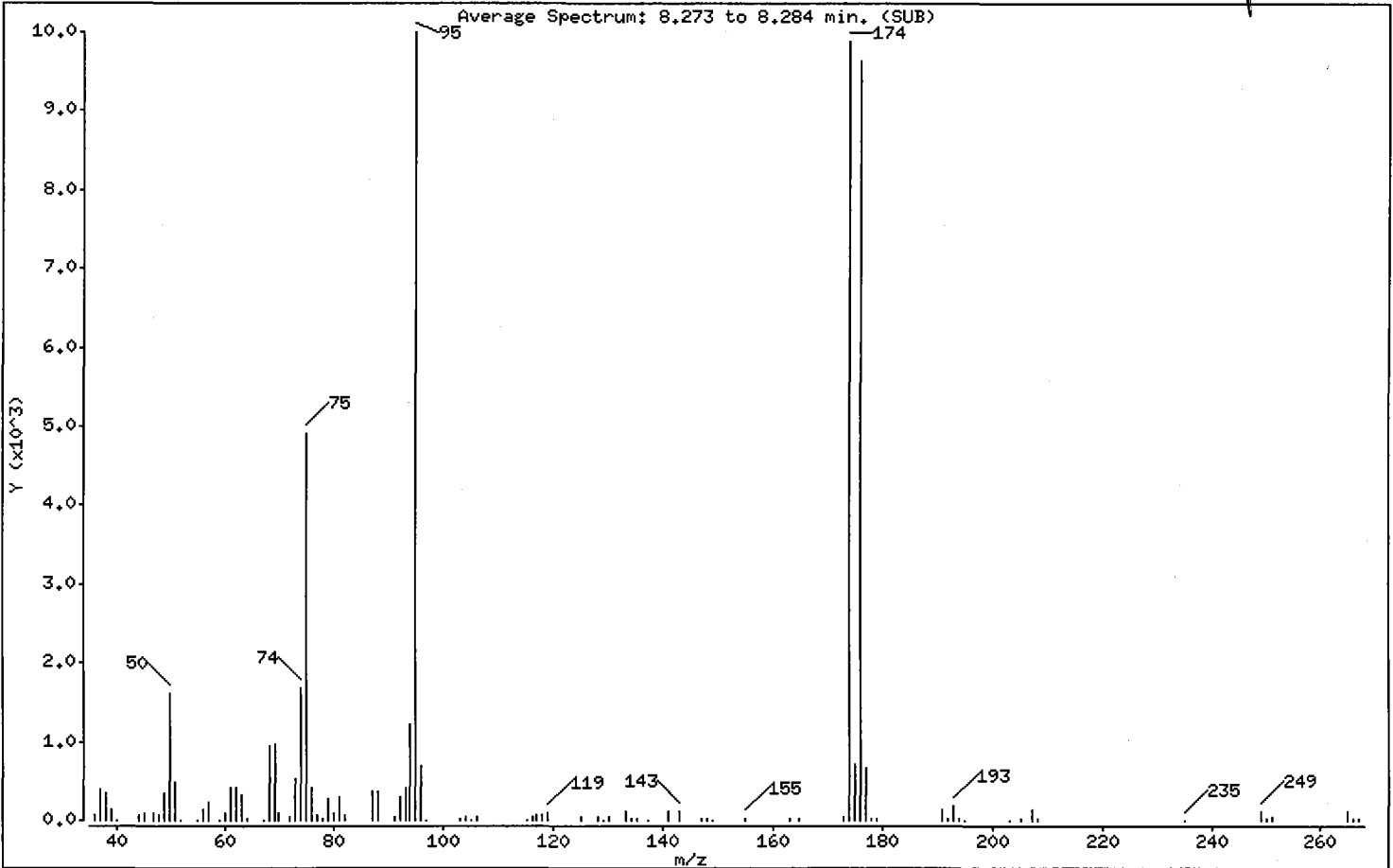
Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene

9/26



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.15
75	30.00 - 66.00% of mass 95	49.09
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.48 (0.49)
174	50.00 - 101.00% of mass 95	98.80
175	4.00 - 9.00% of mass 174	7.06 (7.15)
176	93.00 - 101.00% of mass 174	96.23 (97.40)
177	5.00 - 9.00% of mass 176	6.61 (6.87)

Date : 01-SEP-2010 10:25

Client ID: BFB0901

Instrument: nt9.i

Sample Info: BFB0901,BFB0901,,1,01SEP10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: bfb09010.d

Spectrum: Average Spectrum; 8.273 to 8.284 min. (SUB)

Location of Maximum: 95.00

Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.00	72	| 69.00	961	| 105.00	10	| 174.00	9880
| 37.00	387	| 70.00	83	| 106.00	52	| 175.00	706
| 38.00	356	| 72.00	56	| 115.00	8	| 176.00	9623
| 39.00	137	| 73.00	522	| 116.00	42	| 177.00	661
| 40.00	8	| 74.00	1674	| 117.00	76	| 178.00	28
| 44.00	79	| 75.00	4909	| 118.00	70	| 179.00	32
| 45.00	82	| 76.00	422	| 119.00	82	| 191.00	143
| 47.00	88	| 77.00	62	| 125.00	36	| 192.00	14
| 48.00	58	| 78.00	14	| 128.00	36	| 193.00	195
| 49.00	338	| 79.00	280	| 129.00	8	| 194.00	27
| 50.00	1615	| 80.00	82	| 130.00	40	| 195.00	10
| 51.00	486	| 81.00	297	| 133.00	120	| 203.00	8
| 52.00	9	| 82.00	67	| 134.00	34	| 205.00	32
| 55.00	11	| 87.00	362	| 135.00	32	| 207.00	131
| 56.00	138	| 88.00	364	| 137.00	8	| 208.00	25
| 57.00	232	| 91.00	41	| 141.00	116	| 235.00	8
| 59.00	9	| 92.00	304	| 143.00	122	| 249.00	109
| 60.00	87	| 93.00	424	| 147.00	20	| 250.00	27
| 61.00	419	| 94.00	1216	| 148.00	34	| 251.00	52
| 62.00	421	| 95.00	10000	| 149.00	8	| 265.00	106
| 63.00	328	| 96.00	700	| 155.00	17	| 266.00	27
| 64.00	24	| 97.00	9	| 163.00	14	| 267.00	13
| 67.00	10	| 103.00	13	| 165.00	13		
| 68.00	939	| 104.00	52	| 173.00	48		

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/bf09010.d

Date: 01-SEP-2010 10:25

Client ID: BFB0901

Sample Info: BFB0901, BFB0901, 1, 01SEP10,,

Page 1

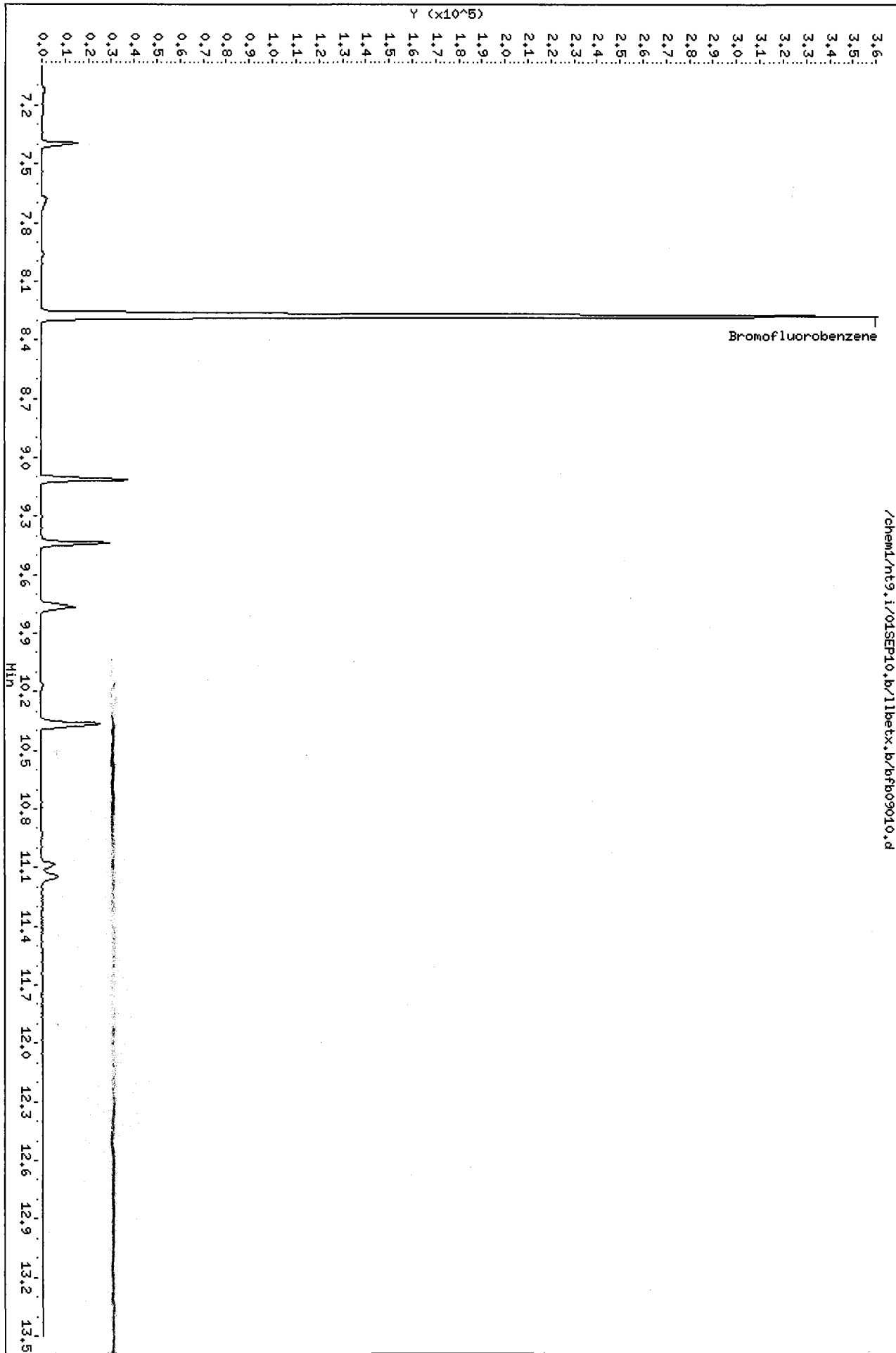
Instrument: nt9.i

Operator: PB

Column diameter: 0.18

Column phase: RTX502.2

/chem1/nt9.i/01SEP10.b/11betx.b/bf09010.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/11betx.b/0500901.d
 Lab Smp Id: CC0901 Client Smp ID: VSTD050
 Inj Date : 01-SEP-2010 11:02
 Operator : PB Inst ID: nt9.i
 Smp Info : CC0901,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Meth Date : 01-Sep-2010 11:52 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.032	3.032	(0.615)	256177	50.0000	48.091
20 Cis-1,2-Dichloroethene	96	4.135	4.135	(0.838)	245270	50.0000	48.593
* 32 Pentafluorobenzene	168	4.932	4.932	(1.000)	522114	50.0000	
\$ 25 Dibromofluoromethane	111	4.531	4.531	(0.919)	195544	50.0000	50.087
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.938	(1.001)	195351	50.0000	48.738
33 1,2-Dichloroethane	62	4.989	4.989	(0.937)	250251	50.0000	46.591
30 Benzene	78	4.830	4.830	(0.908)	910556	50.0000	48.763
* 35 1,4-Difluorobenzene	114	5.323	5.323	(1.000)	694289	50.0000	
34 Trichloroethene	95	5.283	5.283	(0.993)	257923	50.0000	49.996
\$ 42 d8-Toluene	98	6.307	6.307	(1.185)	783060	50.0000	49.778
43 Toluene	92	6.341	6.341	(1.191)	633736	50.0000	47.759
44 Tetrachloroethene	166	6.612	6.612	(0.894)	345015	50.0000	50.694
* 52 d5-Chlorobenzene	117	7.399	7.399	(1.000)	626079	50.0000	
54 Ethyl Benzene	91	7.438	7.438	(1.005)	1265188	50.0000	49.309

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
56 m,p-xylene	106	7.546	7.546	(1.020)	1062939	100.000	102.43
57 o-Xylene	106	7.851	7.851	(1.061)	476712	50.0000	49.313
\$ 61 4-Bromofluorobenzene	95	8.275	8.275	(1.119)	278624	50.0000	48.050
* 75 d4-1,4-Dichlorobenzene	152	9.113	9.113	(1.000)	350632	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.435	9.435	(1.035)	307314	50.0000	50.139

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: 0500901.d
 Lab Smp Id: CC0901
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 01-SEP-2010
 Calibration Time: 11:02
 Client Smp ID: VSTD050
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	522114	-25.87
35 1,4-Difluorobenze	937745	468872	1875490	694289	-25.96
52 d5-Chlorobenzene	853013	426506	1706026	626079	-26.60
75 d4-1,4-Dichlorobe	503655	251828	1007310	350632	-30.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.94	4.44	5.44	4.93	-0.08
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.03
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.02
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	0.02

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.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt9.i Injection Date: 01-SEP-2010 11:02
 Lab File ID: 0500901.d Init. Cal. Date(s): 28-AUG-2010 28-AUG-2010
 Analysis Type: SOIL Init. Cal. Times: 12:52 16:21
 Lab Sample ID: CC0901 Quant Type: ISTD
 Method: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
15 Trans-1,2-Dichloroethene	0.51013	0.49065	0.010	-3.81827	20.00000	Averaged	
20 Cis-1,2-Dichloroethene	0.48336	0.46976	0.010	-2.81346	20.00000	Averaged	
\$ 25 Dibromofluoromethane	0.37387	0.37452	0.100	0.17414	20.00000	Averaged	
\$ 31 d4-1,2-Dichloroethane	0.38384	0.37415	0.010	-2.52440	20.00000	Averaged	
33 1,2-Dichloroethane	0.38681	0.36044	0.100	-6.81702	20.00000	Averaged	
30 Benzene	1.34476	1.31149	0.100	-2.47369	20.00000	Averaged	
34 Trichloroethene	0.37152	0.37149	0.100	-0.00721	20.00000	Averaged	
\$ 42 d8-Toluene	1.13290	1.12786	0.010	-0.44469	20.00000	Averaged	
43 Toluene	0.95562	0.91278	0.100	-4.48286	20.00000	Averaged	
44 Tetrachloroethene	0.54353	0.55107	0.100	1.38770	20.00000	Averaged	
54 Ethyl Benzene	2.04913	2.02081	0.100	-1.38177	20.00000	Averaged	
56 m,p-xylene	0.82875	0.84889	0.100	2.42949	20.00000	Averaged	
57 o-Xylene	0.77203	0.76142	0.100	-1.37336	20.00000	Averaged	
\$ 61 4-Bromofluorobenzene	0.46309	0.44503	0.200	-3.90040	20.00000	Averaged	
\$ 78 d4-1,2-Dichlorobenzene	0.87403	0.87646	0.010	0.27745	20.00000	Averaged	

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/0500901.d

Date: 01-SEP-2010 11:02

Client ID: VSTD050

Sample Info: CC0901.5.5.0

Page 1

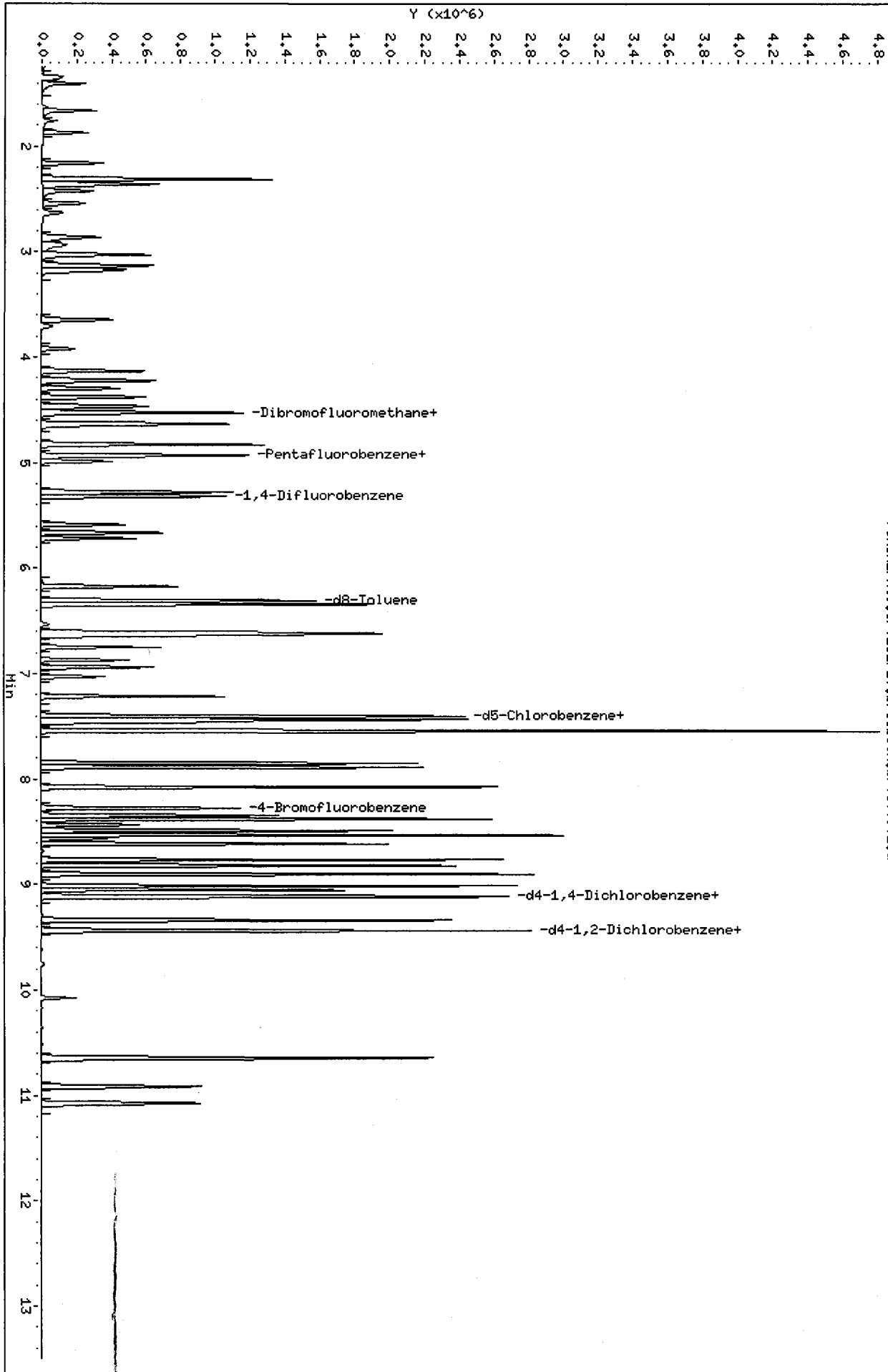
Instrument: nt9.i

Operator: PB

Column diameter: 0.18

Column phase: RTX502.2

/chem1/nt9.i/01SEP10.b/11betx.b/0500901.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/11betx.b/lcs0901.d
 Lab Smp Id: LCS0901 Client Smp ID: LCS0901
 Inj Date : 01-SEP-2010 11:50
 Operator : PB Inst ID: nt9.i
 Smp Info : LCS0901,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 11:31 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.032	3.032	(0.615)	236604	44.2559	44.256
20 Cis-1,2-Dichloroethene	96	4.135	4.135	(0.838)	230231	45.4488	45.449
* 32 Pentafluorobenzene	168	4.933	4.932	(1.000)	524009	50.0000	
\$ 25 Dibromofluoromethane	111	4.531	4.531	(0.919)	196614	50.1790	50.179
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.938	(1.001)	200948	49.9529	49.953
33 1,2-Dichloroethane	62	4.989	4.989	(0.937)	249253	46.0152	46.015
30 Benzene	78	4.831	4.830	(0.908)	842939	44.7622	44.762
* 35 1,4-Difluorobenzene	114	5.323	5.323	(1.000)	700180	50.0000	
34 Trichloroethene	95	5.283	5.283	(0.993)	236835	45.5224	45.522
\$ 42 d8-Toluene	98	6.307	6.307	(1.185)	789693	49.7769	49.777
43 Toluene	92	6.341	6.341	(1.191)	591852	44.2269	44.227
44 Tetrachloroethene	166	6.607	6.612	(0.893)	323987	46.8101	46.810
* 52 d5-Chlorobenzene	117	7.399	7.399	(1.000)	636700	50.0000	
54 Ethyl Benzene	91	7.439	7.438	(1.005)	1187519	45.5100	45.510

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
-----	----	==	=====	=====	-----	-----	
56 m,p-xylene	106	7.546	7.546	(1.020)	1008512	95.5635	95.563
57 o-Xylene	106	7.852	7.851	(1.061)	454618	46.2433	46.243
\$ 61 4-Bromofluorobenzene	95	8.281	8.275	(1.119)	290020	49.1808	49.181
* 75 d4-1,4-Dichlorobenzene	152	9.119	9.113	(1.000)	376709	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.441	9.435	(1.035)	329297	50.0062	50.006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 01-SEP-2010
Lab File ID: lcs0901.d	Calibration Time: 11:02
Lab Smp Id: LCS0901	Client Smp ID: LCS0901
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: PB	
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	524009	-25.60
35 1,4-Difluorobenze	937745	468872	1875490	700180	-25.33
52 d5-Chlorobenzene	853013	426506	1706026	636700	-25.36
75 d4-1,4-Dichlorobe	503655	251828	1007310	376709	-25.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.93	0.01
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.01
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.12	0.07

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 01SEP10
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: LCS0901 Client Smp ID: LCS0901
 Level: LOW Operator: PB
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 11betx.spk Quant Type: ISTD
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Misc Info: 10-

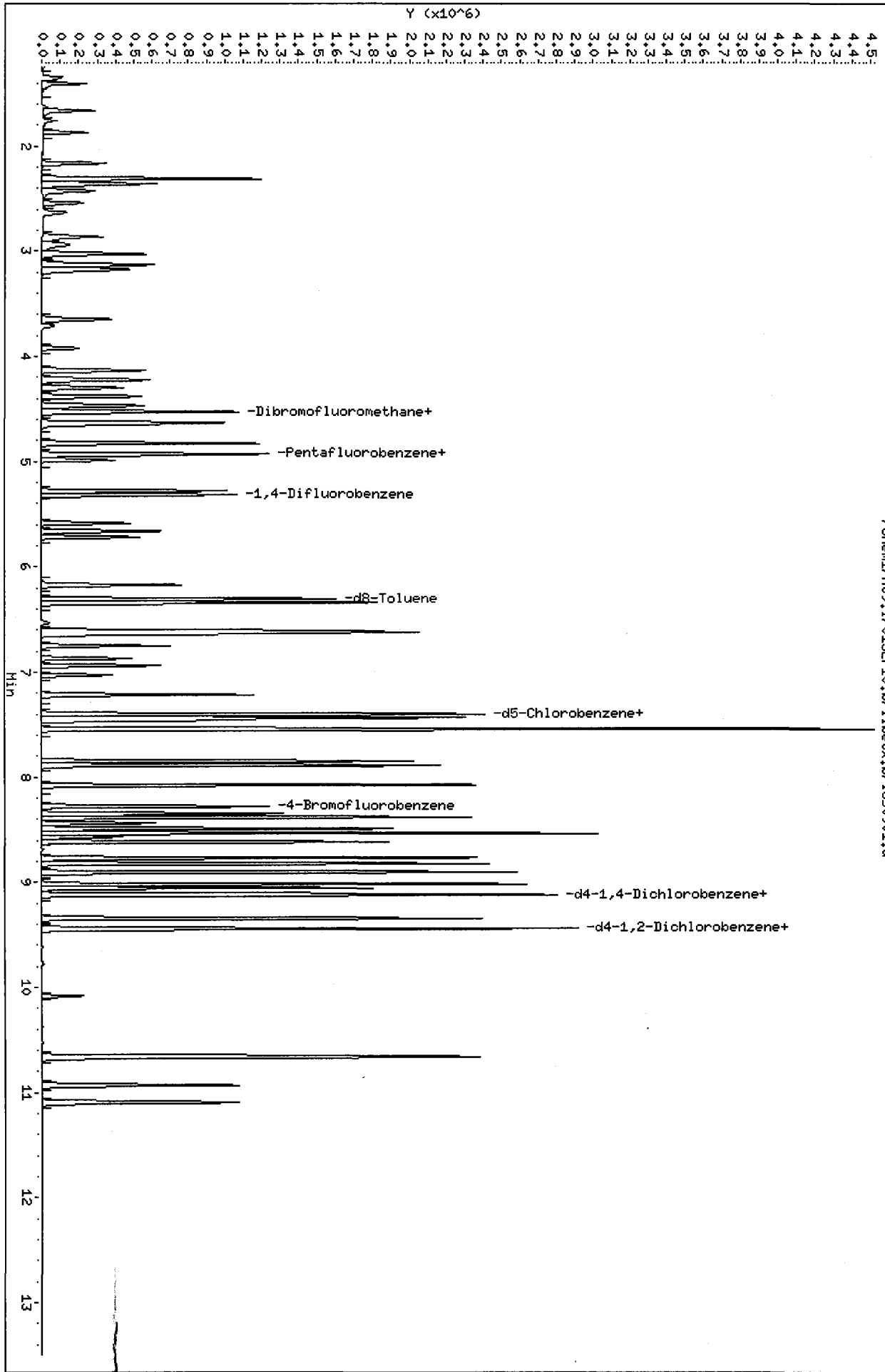
SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15	Trans-1,2-Dichloro	50.000	44.256	88.51	80-120
20	Cis-1,2-Dichloroet	50.000	45.449	90.90	80-120
33	1,2-Dichloroethane	50.000	46.015	92.03	76-120
30	Benzene	50.000	44.762	89.52	80-120
34	Trichloroethene	50.000	45.522	91.04	80-120
43	Toluene	50.000	44.227	88.45	80-120
44	Tetrachloroethene	50.000	46.810	93.62	80-121
54	Ethyl Benzene	50.000	45.510	91.02	80-127
56	m,p-xylene	100.00	95.563	95.56	80-125
57	o-Xylene	50.000	46.243	92.49	78-120

	SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$	25 Dibromofluorometha	50.000	50.179	100.36	30-160
\$	31 d4-1,2-Dichloroeth	50.000	49.953	99.91	75-152
\$	42 d8-Toluene	50.000	49.777	99.55	82-115
\$	61 4-Bromofluorobenze	50.000	49.181	98.36	64-120
\$	78 d4-1,2-Dichloroben	50.000	50.006	100.01	80-120

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/lcs0901.d
Date: 01-SEP-2010 11:50
Client ID: LCS0901
Sample Info: LCS0901,5,5,0
Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18

/chem1/nt9.i/01SEP10.b/11betx.b/lcs0901.d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/llbetx.b/lcs0901a.d
 Lab Smp Id: LCS0901 Client Smp ID: LCS0901
 Inj Date : 01-SEP-2010 12:19
 Operator : PB Inst ID: nt9.i
 Smp Info : LCS0901,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/llbetx.b/VO063010S.m
 Meth Date : 06-Sep-2010 11:31 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: llbetx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96	3.030	3.032	(0.614)	263397	51.3114	51.311
20 Cis-1,2-Dichloroethene	96	4.139	4.135	(0.838)	246879	50.7571	50.757
* 32 Pentafluorobenzene	168	4.937	4.932	(1.000)	503135	50.0000	
\$ 25 Dibromofluoromethane	111	4.529	4.531	(0.917)	187438	49.8218	49.822
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.938	(1.000)	188035	48.6822	48.682
33 1,2-Dichloroethane	62	4.988	4.989	(0.937)	250859	48.5905	48.590
30 Benzene	78	4.829	4.830	(0.908)	914457	50.9494	50.949
* 35 1,4-Difluorobenzene	114	5.321	5.323	(1.000)	667344	50.0000	
34 Trichloroethene	95	5.282	5.283	(0.993)	262086	52.8546	52.855
\$ 42 d8-Toluene	98	6.306	6.307	(1.185)	751116	49.6749	49.675
43 Toluene	92	6.345	6.341	(1.192)	642019	50.3363	50.336
44 Tetrachloroethene	166	6.611	6.612	(0.894)	357139	54.9416	54.942
* 52 d5-Chlorobenzene	117	7.397	7.399	(1.000)	597974	50.0000	
54 Ethyl Benzene	91	7.437	7.438	(1.005)	1286491	52.4959	52.496

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 m,p-xylene	106	7.544	7.546	(1.020)	1080288	108.994	108.99
57 o-Xylene	106	7.850	7.851	(1.061)	479910	51.9774	51.977
\$ 61 4-Bromofluorobenzene	95	8.274	8.275	(1.119)	269667	48.6909	48.691
* 75 d4-1,4-Dichlorobenzene	152	9.111	9.113	(1.000)	343427	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.434	9.435	(1.035)	300921	50.1257	50.126

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 01-SEP-2010
Lab File ID: lcs0901a.d	Calibration Time: 11:02
Lab Smp Id: LCS0901	Client Smp ID: LCS0901
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: PB	
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m	
Misc Info: 10-	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	503135	-28.56
35 1,4-Difluorobenze	937745	468872	1875490	667344	-28.84
52 d5-Chlorobenzene	853013	426506	1706026	597974	-29.90
75 d4-1,4-Dichlorobe	503655	251828	1007310	343427	-31.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.09
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	-0.02
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.02
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.01

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 01SEP10
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: LCS0901 Client Smp ID: LCS0901
 Level: LOW Operator: PB
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: 11betx.spk Quant Type: ISTD
 Sublist File: 11betx.sub
 Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Misc Info: 10-

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
15 Trans-1,2-Dichloro	50.000	51.311	102.62	80-120
20 Cis-1,2-Dichloroet	50.000	50.757	101.51	80-120
33 1,2-Dichloroethane	50.000	48.590	97.18	76-120
30 Benzene	50.000	50.949	101.90	80-120
34 Trichloroethene	50.000	52.855	105.71	80-120
43 Toluene	50.000	50.336	100.67	80-120
44 Tetrachloroethene	50.000	54.942	109.88	80-121
54 Ethyl Benzene	50.000	52.496	104.99	80-127
56 m,p-xylene	100.00	108.99	108.99	80-125
57 o-Xylene	50.000	51.977	103.95	78-120

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	49.822	99.64	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	48.682	97.36	75-152
\$ 42 d8-Toluene	50.000	49.675	99.35	82-115
\$ 61 4-Bromofluorobenze	50.000	48.691	97.38	64-120
\$ 78 d4-1,2-Dichloroben	50.000	50.126	100.25	80-120

Data File: /chem1/nt9,1/01SEP10,b/11betx,b/lcs0901a,d

Date : 01-SEP-2010 12:19

Client ID: LCS0901

Sample Info: LCS0901,5,5,0

Page 5

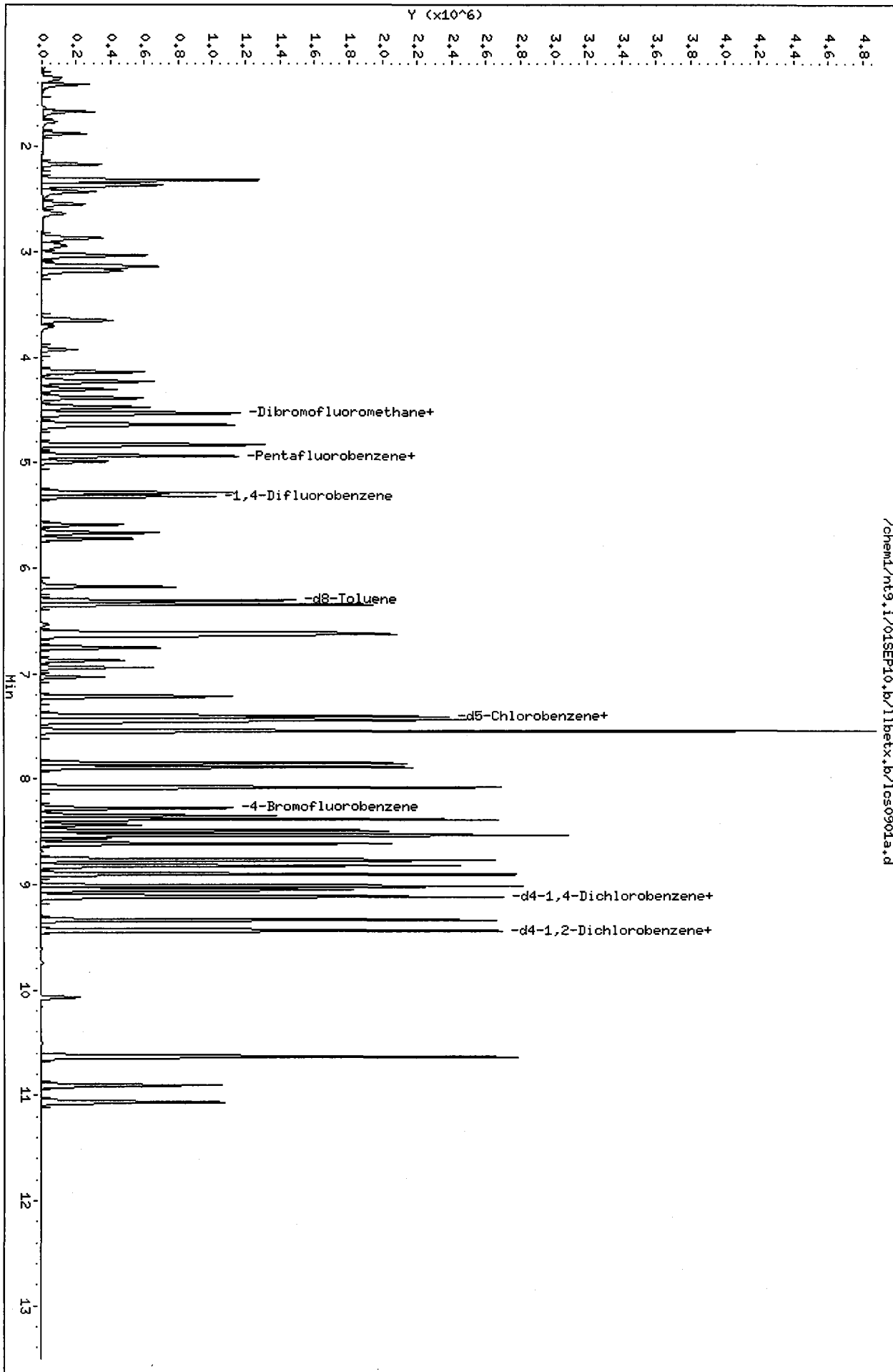
Instrument: nt9,1

Operator: PB

Column diameter: 0.18

Column phase: RTX502,2

/chem1/nt9,1/01SEP10,b/11betx,b/lcs0901a,d



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/11betx.b/mb0901.d
 Lab Smp Id: MB0901 Client Smp ID: MB0901
 Inj Date : 01-SEP-2010 12:49
 Operator : PB Inst ID: nt9.i
 Smp Info : MB0901,5,5,0
 Misc Info : 10-
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 11:31 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Ma/26

Concentration Formula: $Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria$

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.937	4.932	(1.000)	539660	50.0000	
\$ 25 Dibromofluoromethane	111	4.530	4.531	(0.918)	196303	48.6467	48.647
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.938	(1.000)	200118	48.3038	48.304
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.322	5.323	(1.000)	719302	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.306	6.307	(1.185)	809296	49.6565	49.656
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.398	7.399	(1.000)	638404	50.0000	
54 Ethyl Benzene	91						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	
56 m,p-xylene	106				Compound Not Detected.		
57 o-Xylene	106				Compound Not Detected.		
\$ 61 4-Bromofluorobenzene	95	8.275	8.275	(1.119)	286907	48.5230 48.523	
* 75 d4-1,4-Dichlorobenzene	152	9.106	9.113	(1.000)	358020	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152	9.429	9.435	(1.035)	312942	50.0033 50.003	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i
 Lab File ID: mb0901.d
 Lab Smp Id: MB0901
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: PB
 Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Misc Info: 10-

Calibration Date: 01-SEP-2010
 Calibration Time: 11:02
 Client Smp ID: MB0901
 Level: LOW
 Sample Type: SOIL

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	539660	-23.37
35 1,4-Difluorobenze	937745	468872	1875490	719302	-23.29
52 d5-Chlorobenzene	853013	426506	1706026	638404	-25.16
75 d4-1,4-Dichlorobe	503655	251828	1007310	358020	-28.92

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.94	0.10
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	-0.01
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.01
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.07

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.

Analytical Resources, Inc.

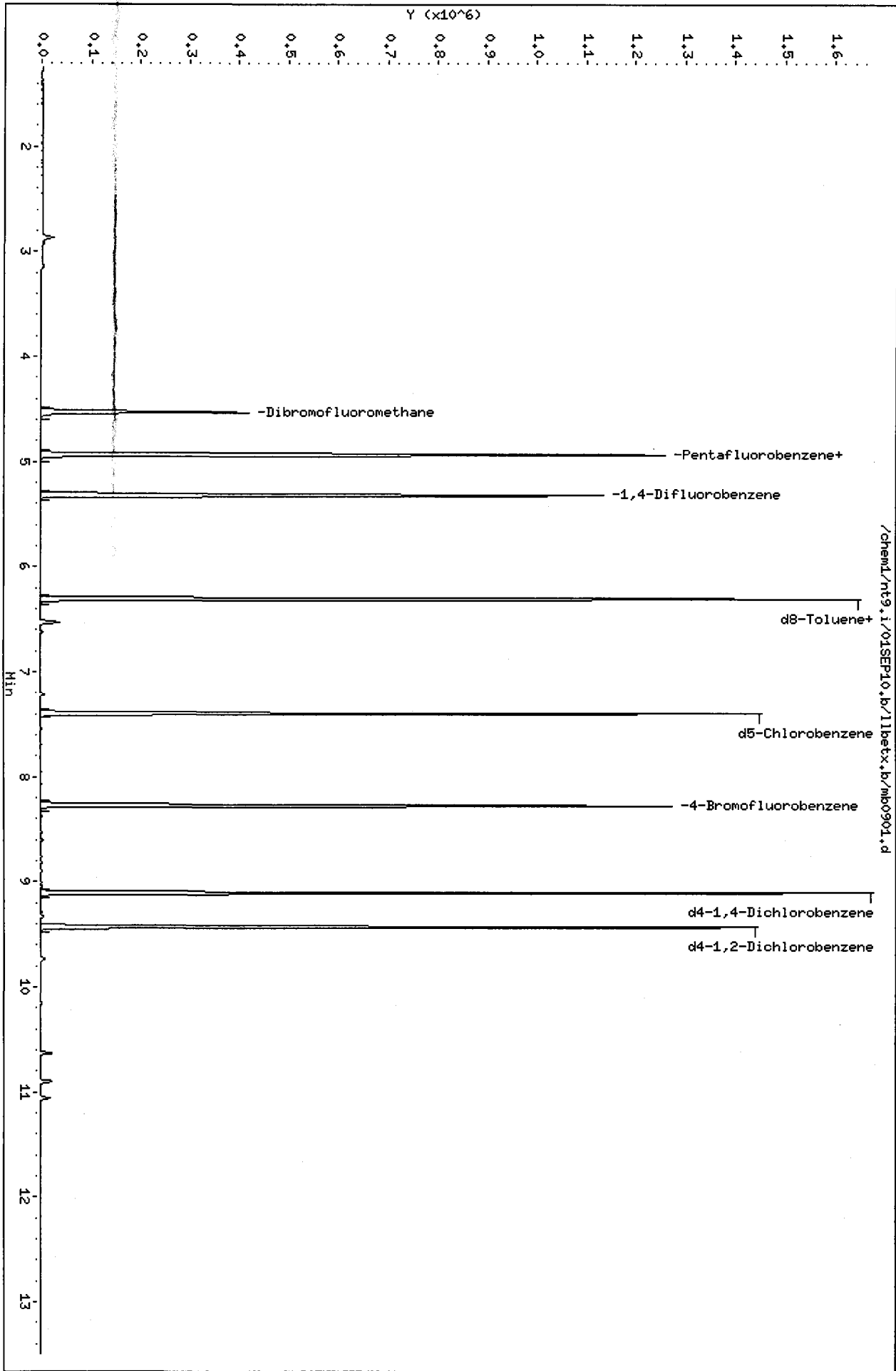
RECOVERY REPORT

Client Name: Client SDG: 01SEP10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MB0901 Client Smp ID: MB0901
Level: LOW Operator: PB
Data Type: MS DATA SampleType: BLANK
SpikeList File: all.spk Quant Type: ISTD
Sublist File: 11betx.sub
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
Misc Info: 10-

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	48.647	97.29	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	48.304	96.61	75-152
\$ 42 d8-Toluene	50.000	49.656	99.31	82-115
\$ 61 4-Bromofluorobenze	50.000	48.523	97.05	64-120
\$ 78 d4-1,2-Dichloroben	50.000	50.003	100.01	80-120

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/mb0901.d
Date: 01-SEP-2010 12:49
Client ID: MB0901
Sample Info: MB0901.5.5.0
Column phase: RTX502.2

Instrument: nt9.1
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/11betx.b/rk89a2.d
 Lab Smp Id: RK89A Client Smp ID: MW17-50-51-082610
 Inj Date : 01-SEP-2010 14:56
 Operator : PB Inst ID: nt9.i
 Smp Info : RK89A,5,10.288,0
 Misc Info : 10-21749
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 11:32 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.28800	Sample Amount
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.937	4.932	(1.000)	556116	50.0000	
\$ 25 Dibromofluoromethane	111	4.529	4.531	(0.917)	214896	51.6784	25.116
\$ 31 d4-1,2-Dichloroethane	65	4.937	4.938	(1.000)	244704	57.3180	27.857
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.321	5.323	(1.000)	767014	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.306	6.307	(1.185)	874450	50.3166	24.454
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.397	7.399	(1.000)	704399	50.0000	
54 Ethyl Benzene	91						

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
=====	====		==	=====	=====	=====	=====	=====
56 m,p-xylene	106							
57 o-Xylene	106							
\$ 61 4-Bromofluorobenzene	95		8.274	8.275	(1.119)	328095	50.2902	24.441
* 75 d4-1,4-Dichlorobenzene	152		9.106	9.113	(1.000)	411021	50.0000	
\$ 78 d4-1,2-Dichlorobenzene	152		9.434	9.435	(1.036)	371373	51.6879	25.120

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt9.i	Calibration Date: 01-SEP-2010
Lab File ID: rk89a2.d	Calibration Time: 11:02
Lab Smp Id: RK89A	Client Smp ID: MW17-50-51-082610
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: Soil
Operator: PB	
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m	
Misc Info: 10-21749	

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	704281	352140	1408562	556116	-21.04
35 1,4-Difluorobenzene	937745	468872	1875490	767014	-18.21
52 d5-Chlorobenzene	853013	426506	1706026	704399	-17.42
75 d4-1,4-Dichlorobenzene	503655	251828	1007310	411021	-18.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzene	4.93	4.43	5.43	4.94	0.09
35 1,4-Difluorobenzene	5.32	4.82	5.82	5.32	-0.02
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	-0.02
75 d4-1,4-Dichlorobenzene	9.11	8.61	9.61	9.11	-0.08

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.

Analytical Resources, Inc.

RECOVERY REPORT

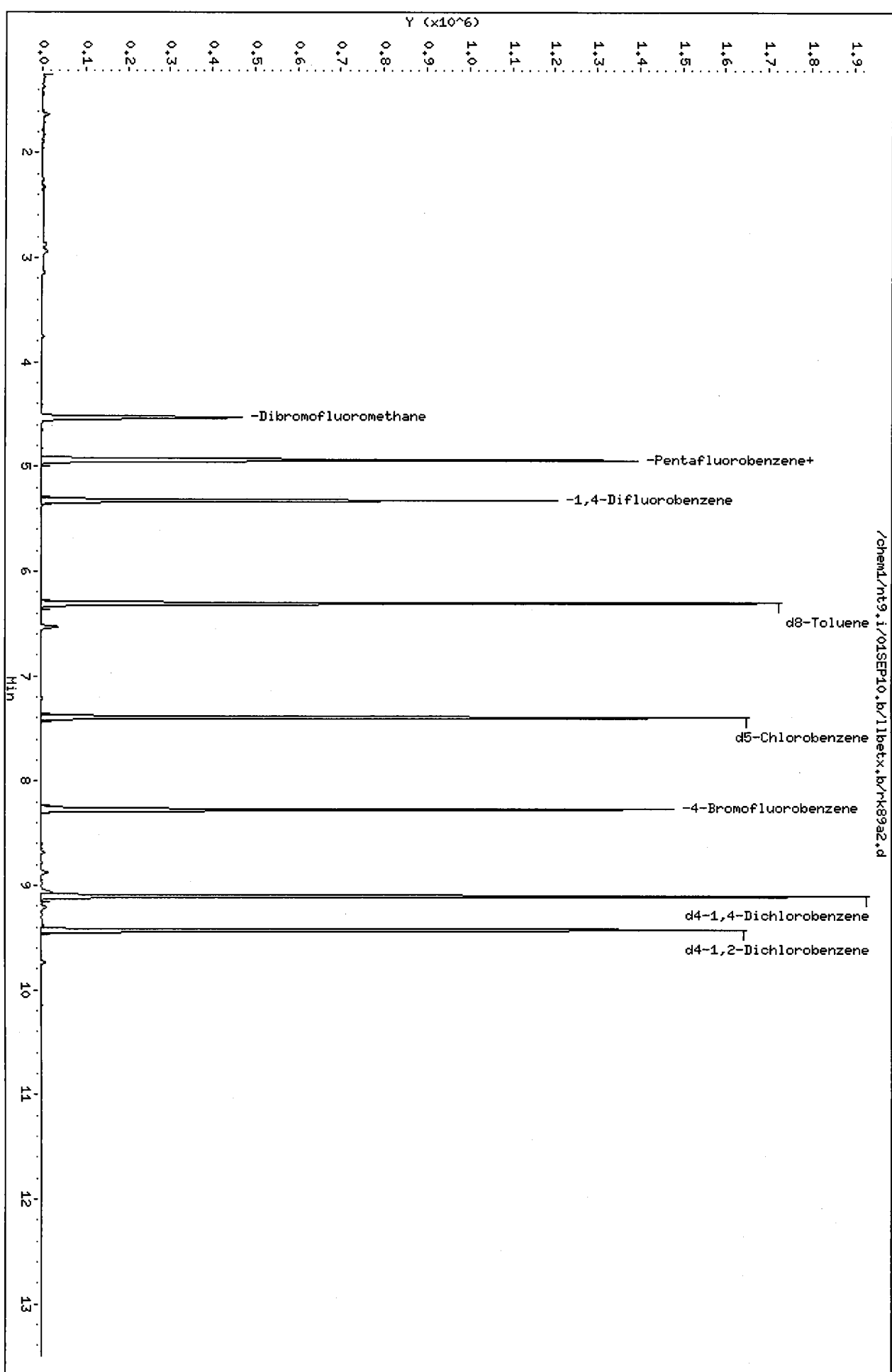
Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RK89A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: 11betx.sub
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
Misc Info: 10-21749

Client SDG: RK89
Fraction: VOA
Client Smp ID: MW17-50-51-082610
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	51.678	103.36	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	57.318	114.64	75-152
\$ 42 d8-Toluene	50.000	50.317	100.63	82-115
\$ 61 4-Bromofluorobenze	50.000	50.290	100.58	64-120
\$ 78 d4-1,2-Dichloroben	50.000	51.688	103.38	80-120

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/rk89a2.d
Date : 01-SEP-2010 14:56
Client ID: HML7-50-51-082610
Sample Info: RK89a,5,10,288,0
Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/nt9.i/01SEP10.b/11betx.b/rk89b.d
 Lab Smp Id: RK89B Client Smp ID: MW17-TB-082610
 Inj Date : 01-SEP-2010 15:25
 Operator : PB Inst ID: nt9.i
 Smp Info : RK89B,5,5,0
 Misc Info : 10-21750
 Comment :
 Method : /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
 Meth Date : 06-Sep-2010 11:32 patrickb Quant Type: ISTD
 Cal Date : 28-AUG-2010 13:21 Cal File: 2000828.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 11betx.sub
 Target Version: 3.50
 Processing Host: cserv3

Handwritten signature/initials

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	0.00000	Purge Volume (mL)
Sa	0.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/Kg)	FINAL (ug/L)
15 Trans-1,2-Dichloroethene	96						
20 Cis-1,2-Dichloroethene	96						
* 32 Pentafluorobenzene	168	4.933	4.932	(1.000)	512928	50.0000	
\$ 25 Dibromofluoromethane	111	4.531	4.531	(0.919)	193884	50.5513	50.551
\$ 31 d4-1,2-Dichloroethane	65	4.938	4.938	(1.001)	199876	50.7598	50.760
33 1,2-Dichloroethane	62						
30 Benzene	78						
* 35 1,4-Difluorobenzene	114	5.323	5.323	(1.000)	705647	50.0000	
34 Trichloroethene	95						
\$ 42 d8-Toluene	98	6.307	6.307	(1.185)	806601	50.4488	50.449
43 Toluene	92						
44 Tetrachloroethene	166						
* 52 d5-Chlorobenzene	117	7.399	7.399	(1.000)	641306	50.0000	
54 Ethyl Benzene	91						
56 m,p-xylene	106						

Compounds	QUANT SIG		CONCENTRATIONS						
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/L)	
-----	----		==	=====	=====	=====	=====	=====	
57 o-Xylene	106		Compound Not Detected.						
\$ 61 4-Bromofluorobenzene	95		8.276	8.275	(1.119)	289656	48.7663	48.766	
* 75 d4-1,4-Dichlorobenzene	152		9.107	9.113	(1.000)	360094	50.0000		
\$ 78 d4-1,2-Dichlorobenzene	152		9.430	9.435	(1.035)	316654	50.3050	50.305	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt9.i
Lab File ID: rk89b.d
Lab Smp Id: RK89B
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
Misc Info: 10-21750

Calibration Date: 01-SEP-2010
Calibration Time: 11:02
Client Smp ID: MW17-TB-082610
Level: LOW
Sample Type: Water

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	704281	352140	1408562	512928	-27.17
35 1,4-Difluorobenze	937745	468872	1875490	705647	-24.75
52 d5-Chlorobenzene	853013	426506	1706026	641306	-24.82
75 d4-1,4-Dichlorobe	503655	251828	1007310	360094	-28.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
32 Pentafluorobenzen	4.93	4.43	5.43	4.93	0.01
35 1,4-Difluorobenze	5.32	4.82	5.82	5.32	0.01
52 d5-Chlorobenzene	7.40	6.90	7.90	7.40	0.00
75 d4-1,4-Dichlorobe	9.11	8.61	9.61	9.11	-0.06

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.

Analytical Resources, Inc.

RECOVERY REPORT

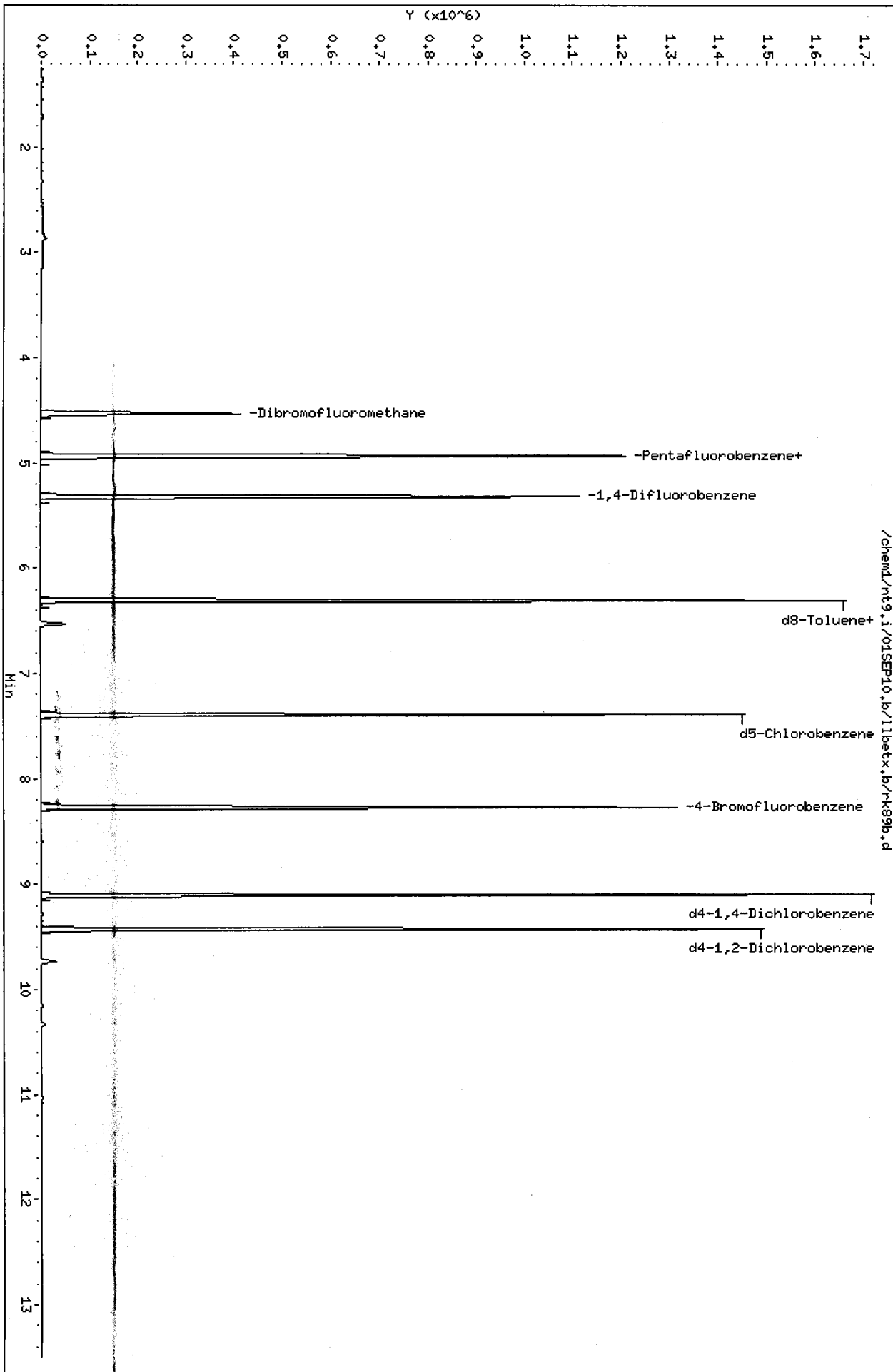
Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RK89B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: 11betx.sub
Method File: /chem1/nt9.i/01SEP10.b/11betx.b/VO063010S.m
Misc Info: 10-21750

Client SDG: RK89
Fraction: VOA
Client Smp ID: MW17-TB-082610
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 25 Dibromofluorometha	50.000	50.551	101.10	30-160
\$ 31 d4-1,2-Dichloroeth	50.000	50.760	101.52	75-152
\$ 42 d8-Toluene	50.000	50.449	100.90	82-115
\$ 61 4-Bromofluorobenze	50.000	48.766	97.53	71-120
\$ 78 d4-1,2-Dichloroben	50.000	50.305	100.61	80-121

Data File: /chem1/nt9.i/01SEP10.b/11betx.b/rk89b.d
Date : 01-SEP-2010 15:25
Client ID: H417-TB-082610
Sample Info: RK89B,5,5,0
Column phase: RTX502.2

Instrument: nt9.i
Operator: PB
Column diameter: 0.18



**PCP/Chlorophenols Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: RK21, RK89



Preparation Test PCP # 3

ARI Job No(s) RK21, RK84, RK89

In-House (6.25ppb)
 Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Sonic Horn ID + Check	KD Exchange To Hexane (X 2)	Turbo Vap 123	Final Effective Volume	Volume to Lab	Derivitize	Comments	
	RK21 MB	Date 9/4/10	10.00g	1	↓	↓	25mL	1-2mL			
	SB	check	↓	2			↓	↓			
5	A	↓	10.09	3							
1	B		10.08	4							
10	C		10.15	5							
1	CMS		10.06	6							
1	CMSd		10.07	7							
7	RK84 A		10.10	8							
1	B		10.05	9							
1	C		10.09	10							
1	D		10.12	11							
8	E		10.18	12							
1	F		10.17	1							
7	H		10.07	2							
1	I		10.01	3							
1	J		10.10	4							
20	K		10.09	5							
1	KMS		10.06	6							
1	KMSd		10.11	7							
5	RK89 A		10.13	8				↓	↓	↓	↓
Analyst/Date 9/4/10 NL				WC 9/6/10	KL 9/7/10	JW 9/8/10	JW 9/8/10	JW 9/8/10			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F	50µL	12/4/11	NL	WW
Spike	6	50µL	2/18/11	NL	WW
Extraction Time: 9.45		Balance ID: 21754520	Derivitized by:	Diazald ID:	

- SPECIAL INSTRUCTIONS:** 1. Weigh into 100mL beakers. 2. Use neutral sulfate to dry samples.
 3. Acidify all with ¼ pipet conc. Sulfuric Acid. 4. Add surr/spike. 5. Leave in DCM overnight. 6. Extract 3X DCM.
 7. Pour directly into KD (NO Glasswool). 8. KD to 5mL at 80°. 9. Exchange (2 X with 20mL) Hexane at 100°.
 10. *Note: if filtering is necessary: Pre-rinse filter with 0.05% HCL in Acetone+Post Rinse with Hexane or centrifuge.
 11. Turbo Vap to 1mL 11. Vial using a pipet into Herb Tubes with a Hexane rinse. 12. GC Analyst to Derivitize.

A. Need Total Solids Y/N

B. Archive Freeze Y/N

3015F

RK21 &
 RK89 only

RK21 &
 RK89
 only

Revision 012
 08/11/2010

RK21: 00242



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RK21/RK84/RK89

Client ID: Floyd-Snyder

Parameter: PCP

Client Project: Lara Lake Apts RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
<input checked="" type="checkbox"/> No Anomalies (standard soil/sediment) <u>RK21-B, C</u>	
<input type="checkbox"/> Wet sediment/sludge=	
<input type="checkbox"/> Standing Water Decanted=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input checked="" type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)= <u>A, RK89A</u>	
<input type="checkbox"/> Rocks/Organics=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input checked="" type="checkbox"/> Other (Details)= <u>RK21-A Clay Like</u>	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates=	
<input type="checkbox"/> Emulsions=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments=	
<u>KD Station used new clean vials for ^{YC} all samples</u>	<u>YC 09/07/10</u>

**PCP/Chlorophenols Raw Data
Initial Calibration**

ARI Job ID: RK21, RK89



GC Analyst Notes / Corrective Action Log

ARI Project ID: PCP Curve Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 8/9/2010 Analysis Start: 8/11/2010

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO / <u>NA</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	YES / NO / <u>NA</u>
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	YES / NO / <u>NA</u>

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

2nd col: Quadratic-forced: 2,4-Dichlorophenol, 2,4,5-Trichlorophenol, 2,3,4-Trichlorophenol
1st col: Quadratic-forced: 2,4-Dichlorophenol, 2,4,6-TCP, 2,3,6-TCP, 2,3,4,5-Tetrachlorophenol, Pentachlorophenol & 2,4,6-Tribromophenol.

Additional Details on Reverse: Yes / No

Analyst: _____ Date: 8/12/2010

Reviewer: B Date: 8/13/10

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/9/2010 Analysis: Herbicides ^{Cl. Prendis} _{AR 8/12/2010} Analyst: AR

GC Program: HERB.M Column No: 150608/148146 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): AR PCFAST.M EM Voltage: NA

Calibration File: ~~HERB20100809.b~~ FPCP20100809.b Curve Date: ~~8/2/2010~~ 8/9/2010

IS/SS	Ical/Ccal	LCS/ICV
<u>AR</u>	<u>1663-2</u>	<u>1703-2</u>
<u>AR</u>	<u>1739-1</u>	<u>1731-2</u>

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

Inject	Date/Time	Filename	DF	LabID	ClientID
1	09-AUG-2010 12:23	0809A005.d	1	PCPD	
2	09-AUG-2010 12:43	0809A006.d	1	PCPA	
3	09-AUG-2010 13:03	0809A007.d	1	PCPB	
4	09-AUG-2010 13:23	0809A008.d	1	PCPC	
5	09-AUG-2010 13:43	0809A009.d	1	PCPE	
6	09-AUG-2010 14:03	0809A010.d	1	PCPF	
7	09-AUG-2010 14:23	0809A011.d	1	PCP ICV	

AR 8/12/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	09-AUG-2010 12:23	0809A005.d	1	PCPD	
2	09-AUG-2010 12:43	0809A006.d	1	PCPA	
3	09-AUG-2010 13:03	0809A007.d	1	PCPB	
4	09-AUG-2010 13:23	0809A008.d	1	PCPC	
5	09-AUG-2010 13:43	0809A009.d	1	PCPE	
6	09-AUG-2010 14:03	0809A010.d	1	PCPF	
7	09-AUG-2010 14:23	0809A011.d	1	PCP ICV	

Report Date : 12-Aug-2010 19:59

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecdl.i/FPCP20100809.b/FPCP.m
Batch File: /chem2/ecdl.i/FPCP20100809.b/ical-1.b
Inst ID: ecdl.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A011	0809A010	0809A011				
INJ. DATE:	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010				
INJ. TIME:	12:43	12:43	13:03	13:23	13:43	14:03	14:23						
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV		
1 2,4-Dichlorophenol	6.887	6.897	6.893	6.890	6.884	6.884	6.888	6.893	6.823-6.963	6.889	0.005		
2 2,4,6-Trichlorophenol	7.261	7.263	7.264	7.263	7.259	7.260	7.262	7.264	7.194-7.334	7.262	0.002		
3 2,3,6-Trichlorophenol	7.615	7.622	7.619	7.617	7.611	7.612	7.616	7.619	7.549-7.689	7.616	0.004		
4 2,4,5-Trichlorophenol	8.221	8.253	8.242	8.232	8.212	8.209	8.230	8.242	8.172-8.312	8.228	0.016		
5 2,3,4-Trichlorophenol	8.770	8.806	8.792	8.780	8.760	8.756	8.781	8.792	8.722-8.862	8.778	0.017		
6 2,3,5,6-Tetrachlorophe	8.996	9.013	9.007	9.002	8.990	8.990	9.000	9.000	8.937-9.077	9.000	0.009		
7 2,4,6-Tribromophenol (	9.990	10.010	10.002	9.996	9.984	9.983	9.997	10.002	9.932-10.072	9.995	0.010		
8 2,3,4,5-Tetrachlorophe	10.397	10.421	10.413	10.406	10.389	10.387	10.405	10.413	10.343-10.483	10.402	0.012		
9 Pentachlorophenol	11.212	11.225	11.219	11.215	11.206	11.206	11.215	11.219	11.149-11.289	11.214	0.007		

Reviewer 1 AR Date: 8/12/2010
Reviewer 2 [Signature] Date: 8/13/10

Report Date : 12-Aug-2010 19:59

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecdl1.i/FPCP20100809.b/FPCPB.m
Batch File: /chem2/ecdl1.i/FPCP20100809.b/ical-2.b
Inst ID: ecdl1.i

ID	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME: 0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A010	0809A011				
INJ.DATE: 09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010				
INJ.TIME: 12:43	12:43	13:03	13:23	13:43	14:03	14:23	14:23				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	7.156	7.166	7.163	7.160	7.153	7.153	7.158	7.166	7.096-7.236	7.158	0.005
2 2,4,6-Trichlorophenol	7.329	7.333	7.333	7.331	7.327	7.328	7.330	7.333	7.263-7.403	7.330	0.002
3 2,3,6-Trichlorophenol	7.858	7.864	7.862	7.860	7.855	7.856	7.859	7.864	7.794-7.934	7.859	0.003
4 2,4,5-Trichlorophenol	8.593	8.615	8.607	8.600	8.586	8.584	8.599	8.615	8.545-8.685	8.598	0.011
5 2,3,5,6-Tetrachlorophe	9.262	9.277	9.270	9.266	9.256	9.257	9.265	9.277	9.207-9.347	9.265	0.007
6 2,3,4-Trichlorophenol	9.359	9.380	9.373	9.365	9.351	9.349	9.365	9.380	9.310-9.450	9.363	0.011
7 2,4,6-Tribromophenol (	10.632	10.646	10.640	10.636	10.626	10.627	10.636	10.646	10.576-10.716	10.635	0.007
8 2,3,4,5-Tetrachlorophe	11.109	11.126	11.119	11.115	11.103	11.103	11.114	11.126	11.056-11.196	11.113	0.009
9 Pentachlorophenol	11.649	11.658	11.654	11.652	11.645	11.646	11.652	11.658	11.588-11.728	11.651	0.005

Reviewer 1 AR Date: 8/12/200
Reviewer 2 [Signature] Date: 8/13/10

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

ARI Job No.: PCPD Method: FPCP.m Instrument: ecd1.i Date: 09-AUG-2010

Time	Filename	LabID	Clientid	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1303	0809A007.d	PCPB		1	2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecdl.i/FPCP20100809.b/ical-2.b

ARI Job No.: PCPD Method: FPCPB.m Instrument: ecdl.i Date: 09-AUG-2010

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1303	0809A007.d	PCPB		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	2,3,4-Trichlorophenol,

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

AR 8/12/2010

Start Cal Date : 09-AUG-2010 12:23
 End Cal Date : 09-AUG-2010 14:03
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100809.b/FPCPB.m
 Cal Date : 12-Aug-2010 18:59 aron
 Curve Type : Average

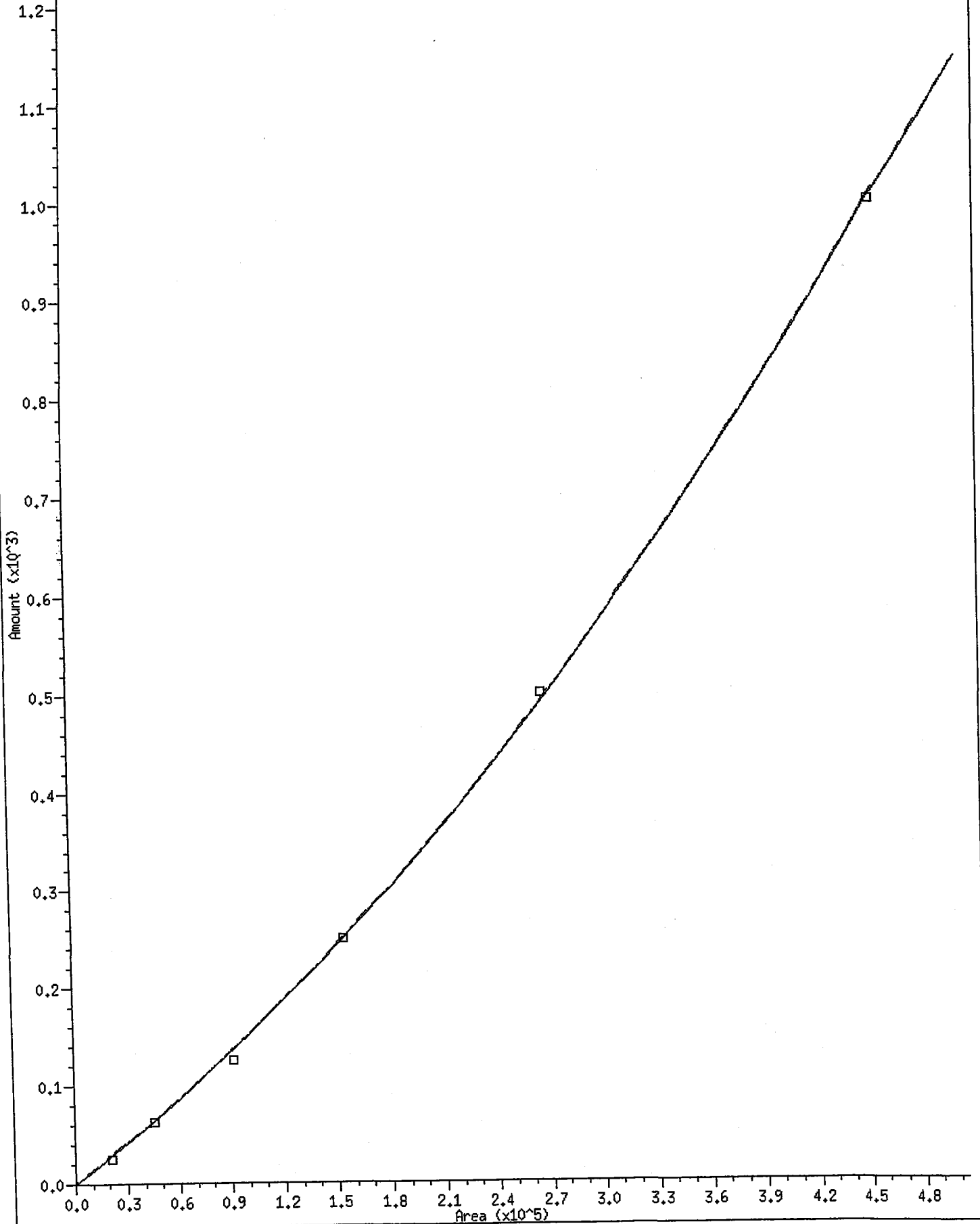
Calibration File Names:

Level 1: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
 Level 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
 Level 3: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A008.d
 Level 4: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A005.d
 Level 5: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A009.d
 Level 6: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A010.d

Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 2,4-Dichlorophenol	859	720	733	619	536	458	654	22.290 <-
2 2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	12485	13.991
3 2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	12409	14.584
4 2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	6832	24.049 <-
5 2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	18515	14.186
6 2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	9482	26.352 <-
8 2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	14591	17.013
9 Pentachlorophenol	28790	24995	23903	21206	20507	18368	22961	16.202
\$ 7 2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	18667	12.211

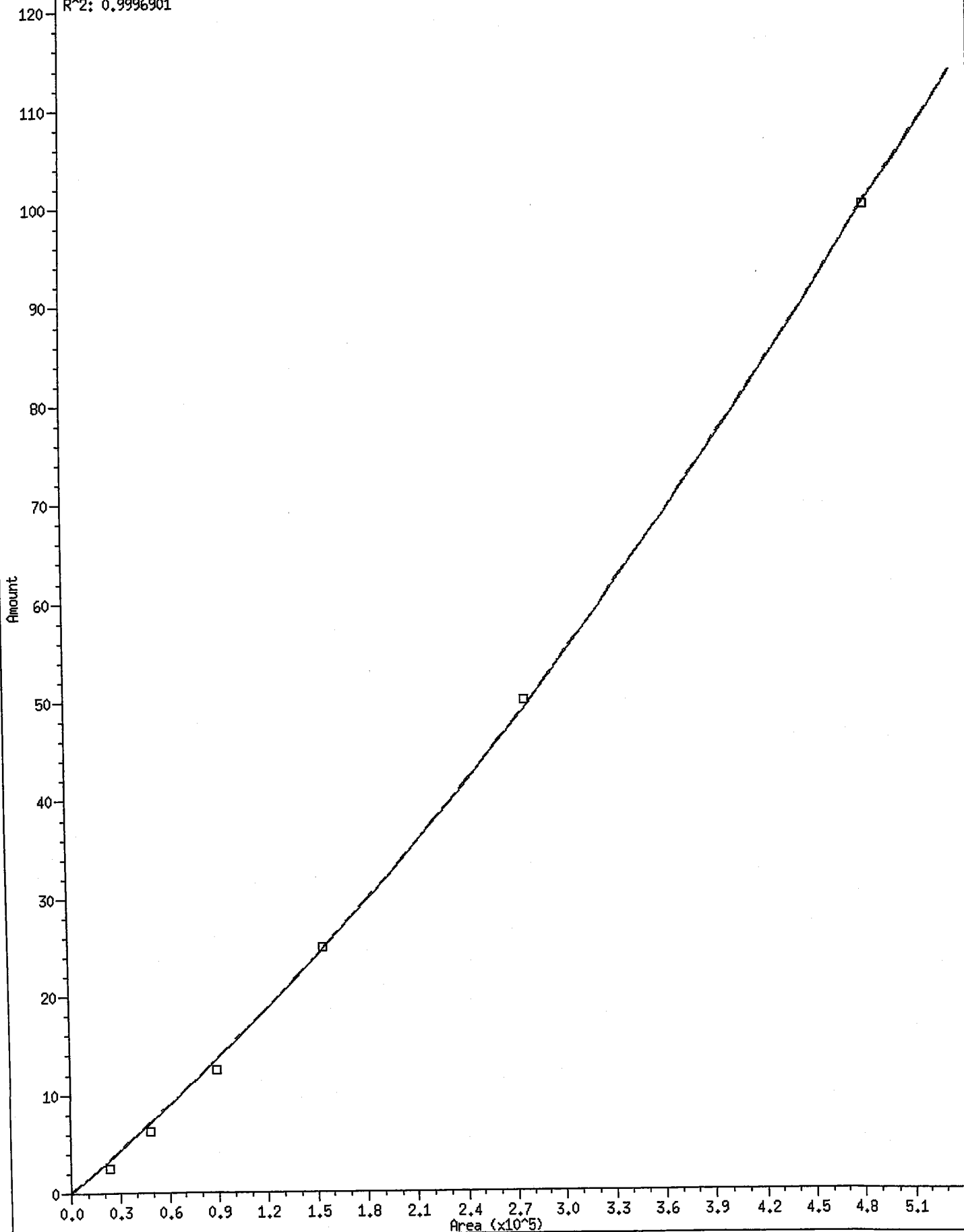
1,2,4-Dichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.001325809*Rsp + 1.887688e-09*Rsp^2
R^2: 0.9996633

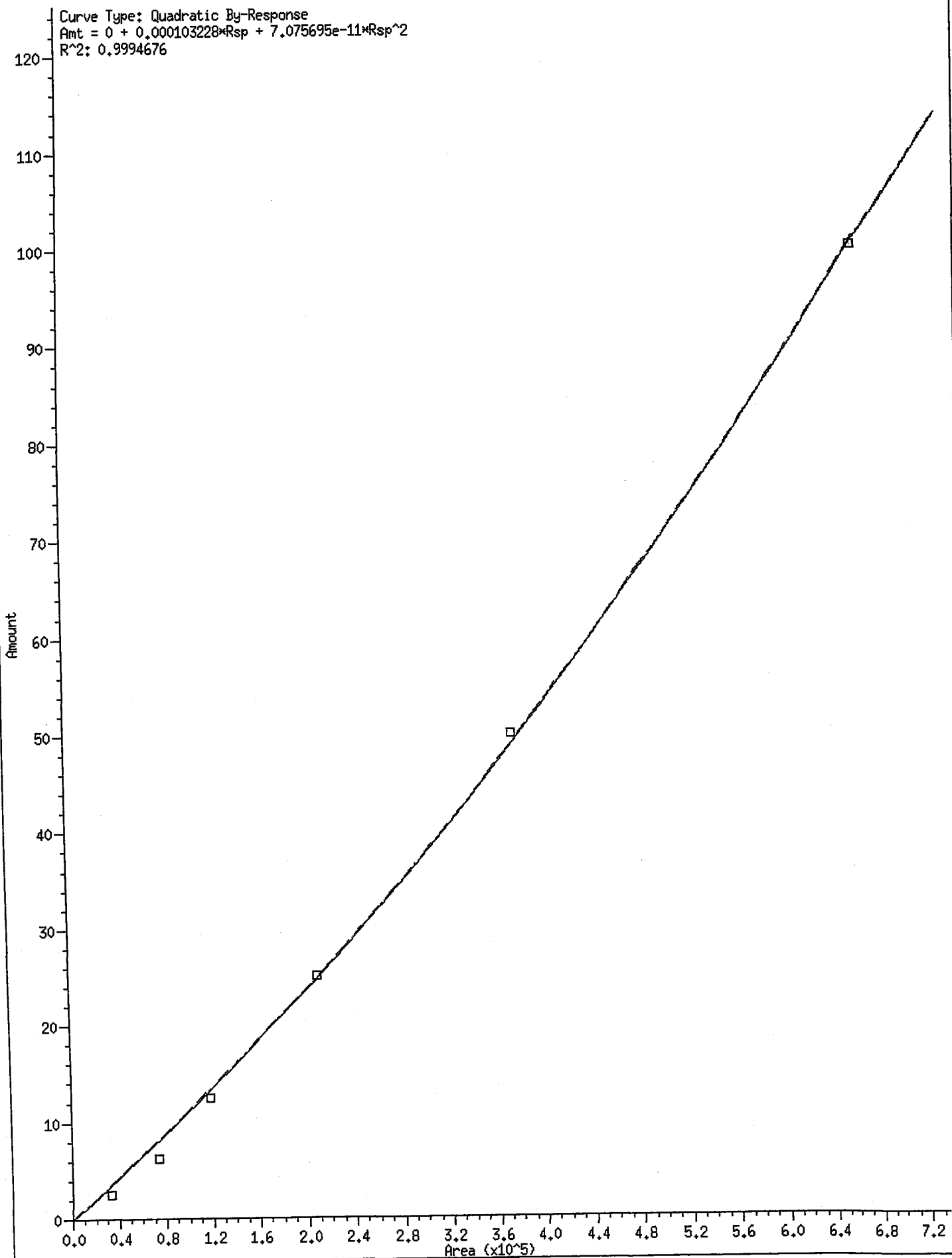


4 2,4,5-Trichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.0001390703*Rsp + 1.342464e-10*Rsp^2
R^2: 0.9996901



6 2,3,4-Trichlorophenol



Report Date : 12-Aug-2010 19:02

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
 End Cal Date : 09-AUG-2010 14:03
 Quant Method : ESTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100809.b/FPCPB.m
 Cal Date : 12-Aug-2010 18:59 aron

Calibration File Names:
 Level 1: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
 Level 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
 Level 3: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A008.d
 Level 4: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A005.d
 Level 5: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A009.d
 Level 6: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A010.d

Compound	Coefficients						Level 6	Curve	b	ml			or R ²
	2	6	12	25	50	100				m2	%RSD		
1 2,4-Dichlorophenol	21466	45023	91643	154741	267768	457854	QUAD	0.000e+00	0.00133	1.888e-09	0.99966		
2 2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	AVRG		12485		13.99132		
3 2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	AVRG		12409		14.58387		
4 2,4,5-Trichlorophenol	23627	48273	89400	155087	278412	489569	QUAD	0.000e+00	0.00014	1.342e-10	0.99969		
5 2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	AVRG		18515		14.18619		
6 2,3,4-Trichlorophenol	32846	73211	117878	210189	376624	665942	QUAD	0.000e+00	0.00010	7.076e-11	0.99947		
8 2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	AVRG		14591		17.01254		
9 Pentachlorophenol	28790	24995	23903	21206	20507	18368	AVRG		22961		16.20188		
7 2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	AVRG		18667		12.21092		

Report Date : 12-Aug-2010 19:02

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
 End Cal Date : 09-AUG-2010 14:03
 Quant Method : ESTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd1.i/FPCF20100809.b/FPCPB.m
 Cal Date : 12-Aug-2010 18:59 aron

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
 End Cal Date : 09-AUG-2010 14:03
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100809.b/FPCP.m
 Cal Date : 12-Aug-2010 19:13 aron
 Curve Type : Average

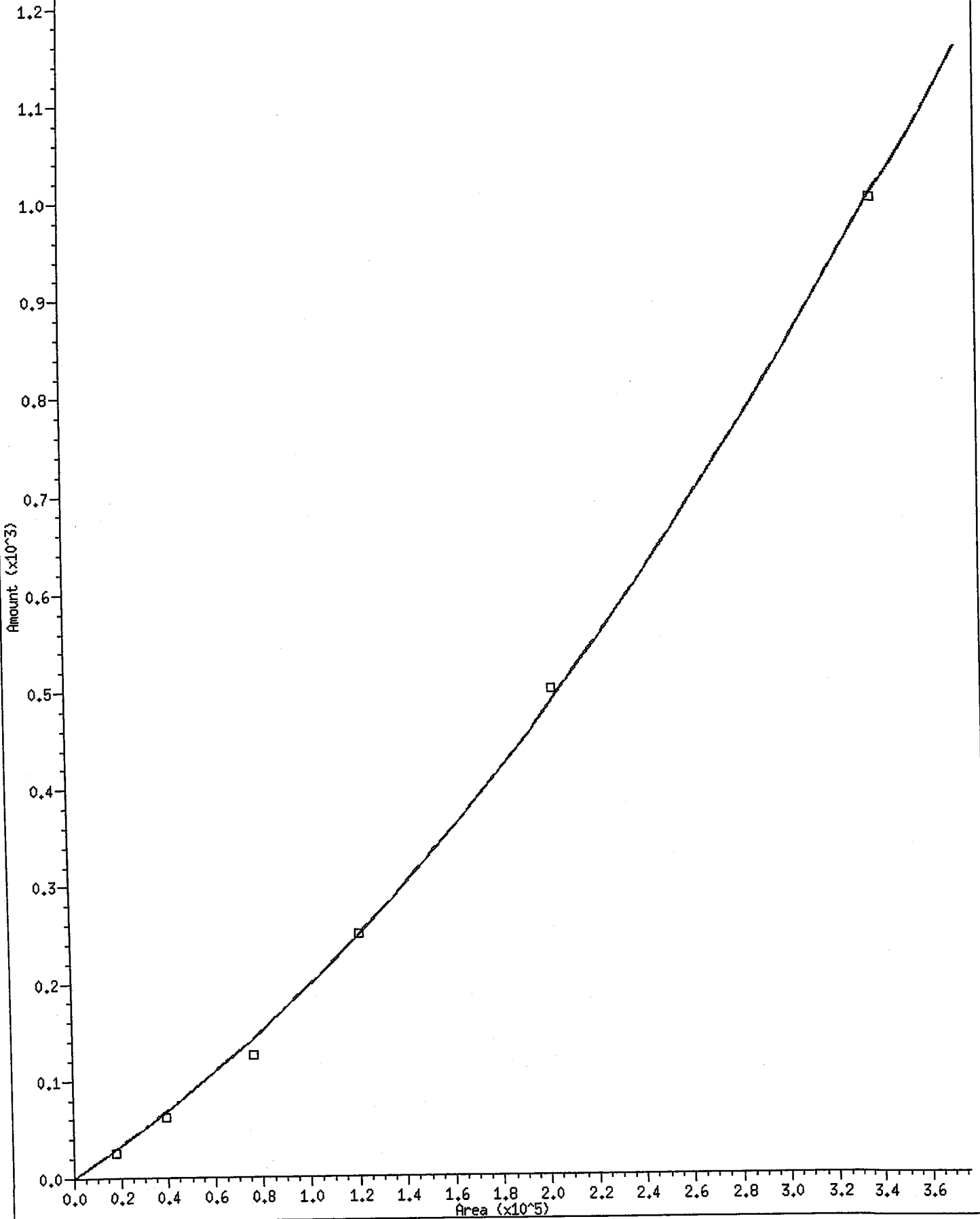
Calibration File Names:

Level 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
 Level 2: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
 Level 3: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A008.d
 Level 4: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
 Level 5: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A009.d
 Level 6: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A010.d

Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 2,4-Dichlorophenol	721	627	611	486	409	342	533	27.140 <-
2 2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	9364	26.271 <-
3 2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	9499	21.431 <-
4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	5048	19.727
5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	6841	19.373
6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	14106	18.400
8 2,3,4,5-Tetrachlorophenol	16324	13459	12294	10216	8895	7628	11469	27.892 <-
9 Pentachlorophenol	24528	19824	17830	15337	13686	11965	17195	26.550 <-
\$ 7 2,4,6-Tribromophenol (surr)	18561	14999	13969	12135	11200	9940	13467	22.982 <-

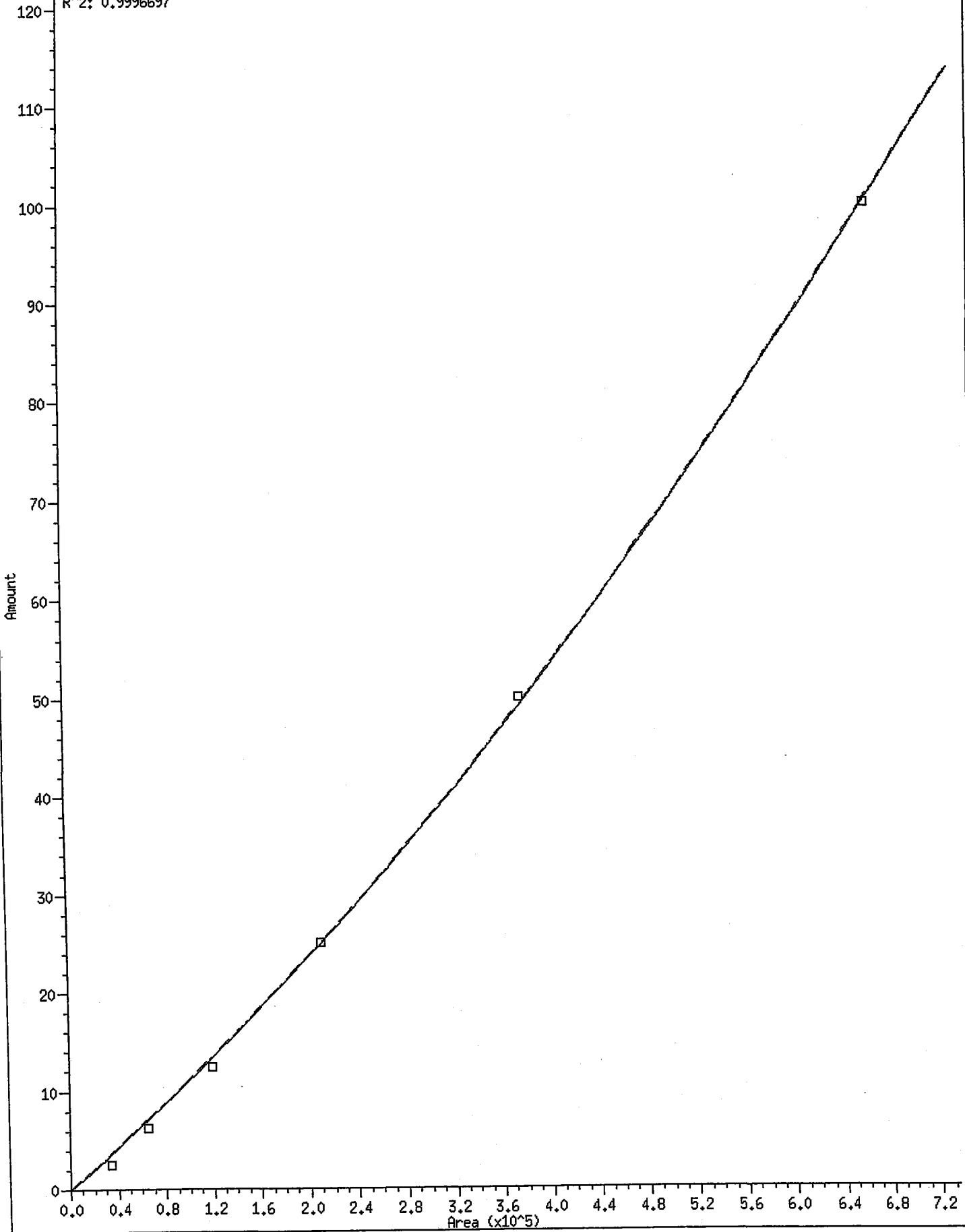
1,2,4-Dichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.00155001*Rsp + 4.062816e-09*Rsp^2
R^2: 0.9993457



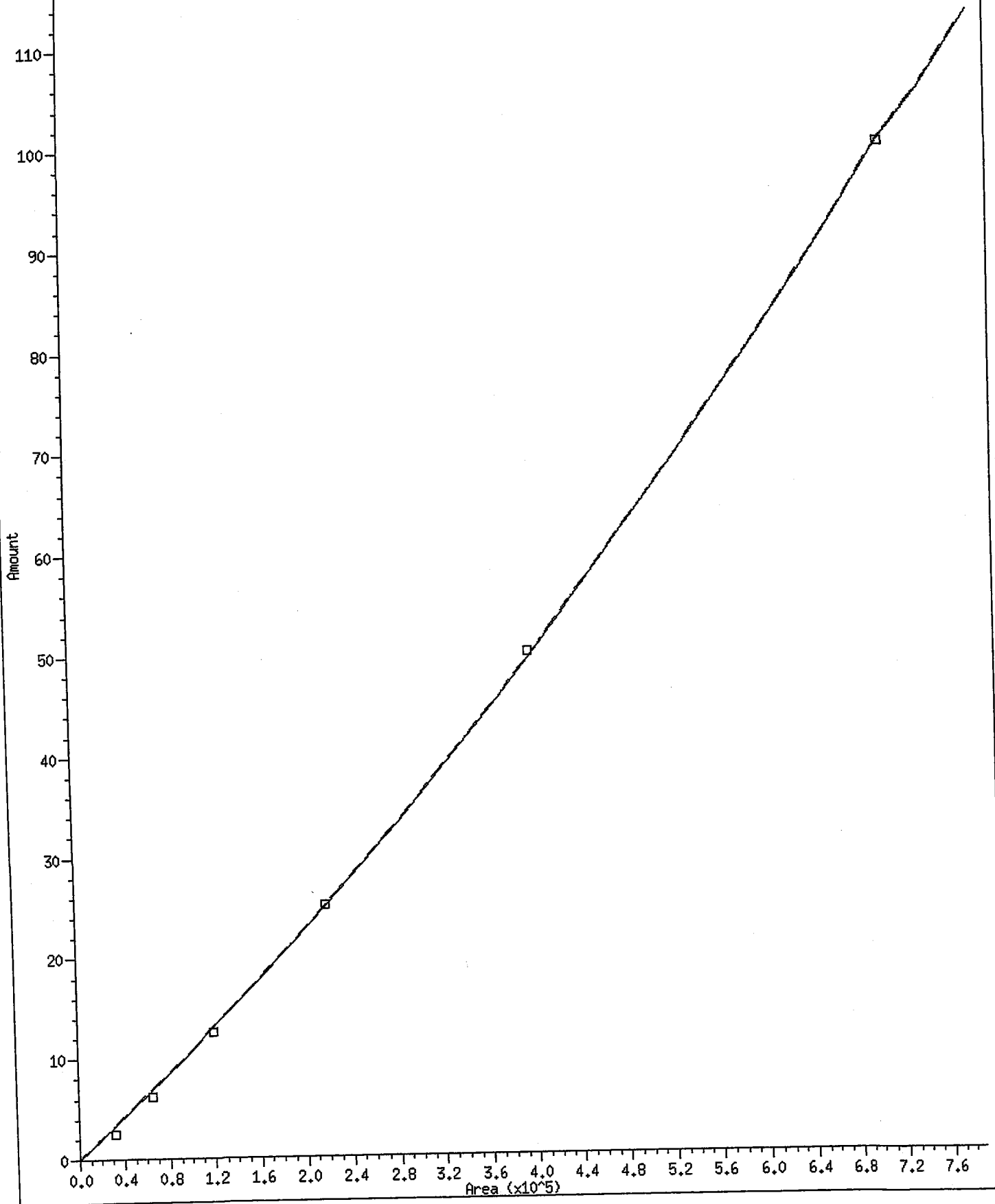
2 2,4,6-Trichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.0001034981*Rsp + 7.067667e-11*Rsp^2
R^2: 0.9996697



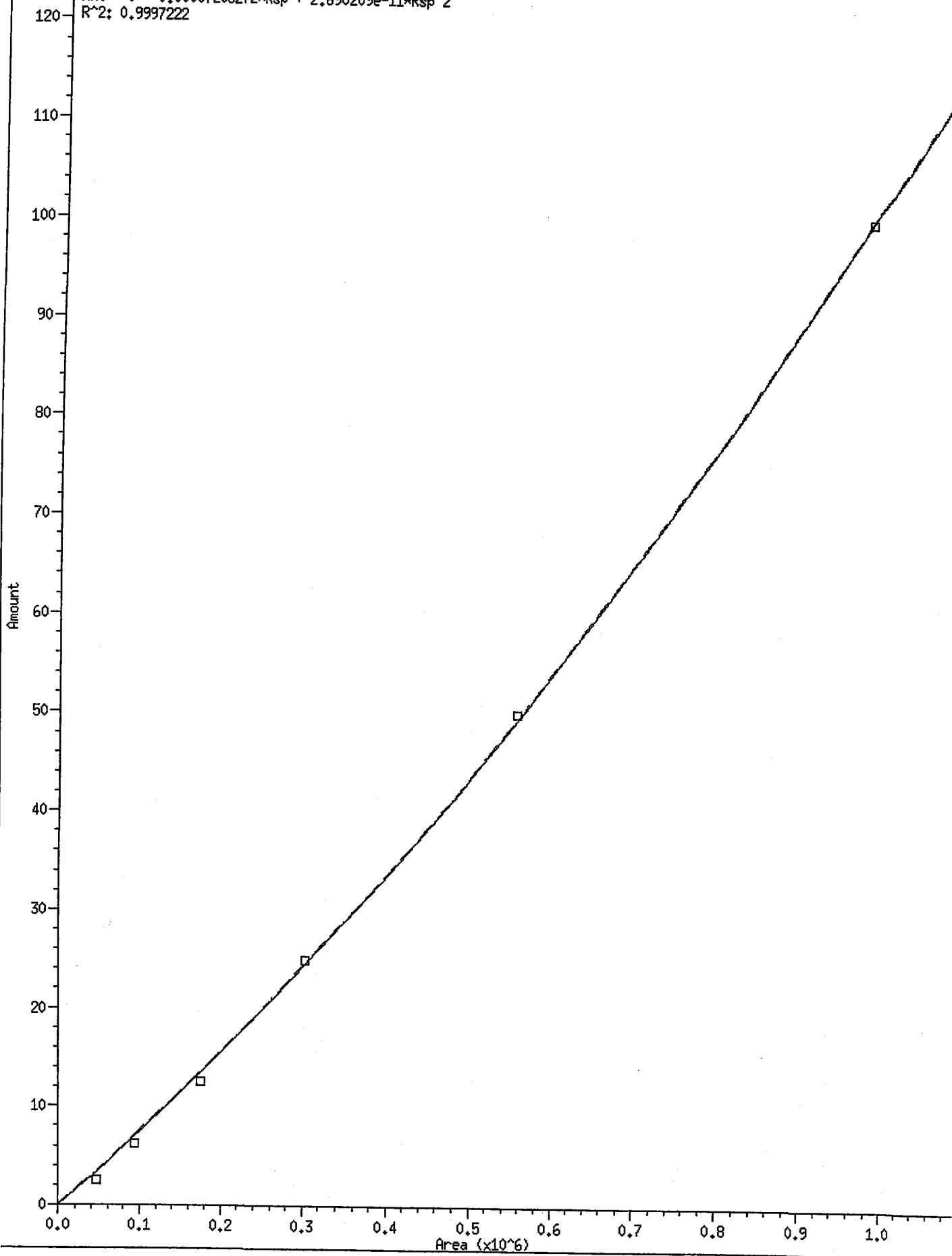
3 2,3,6-Trichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.0001017075*Rsp + 5.332174e-11*Rsp^2
R^2: 0.9998516



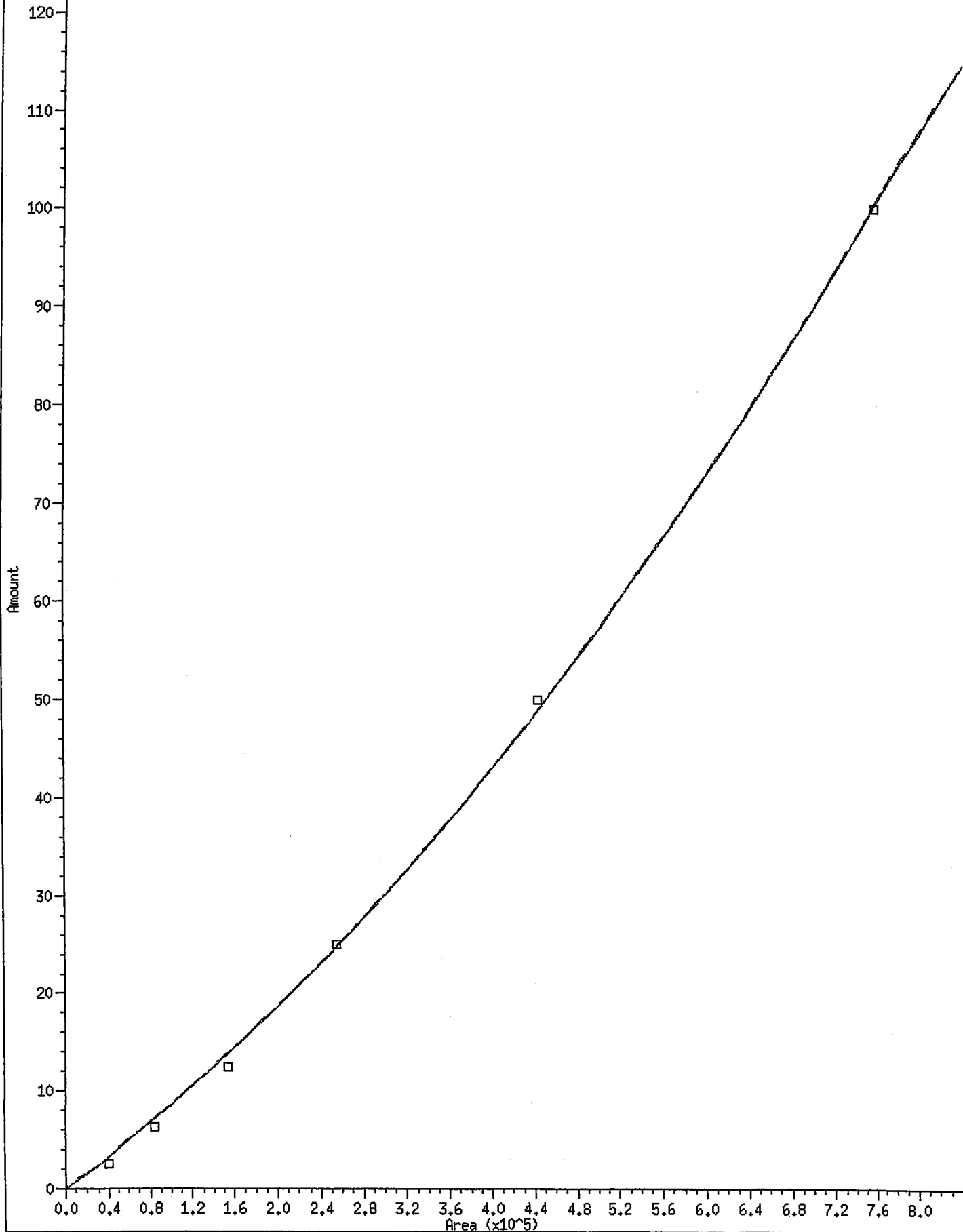
* 7 2,4,6-Tribromophenol (surr)

Curve Type: Quadratic By-Response
Amt = 0 + 0.00007206272 * Rsp + 2.890209e-11 * Rsp^2
R^2: 0.9997222



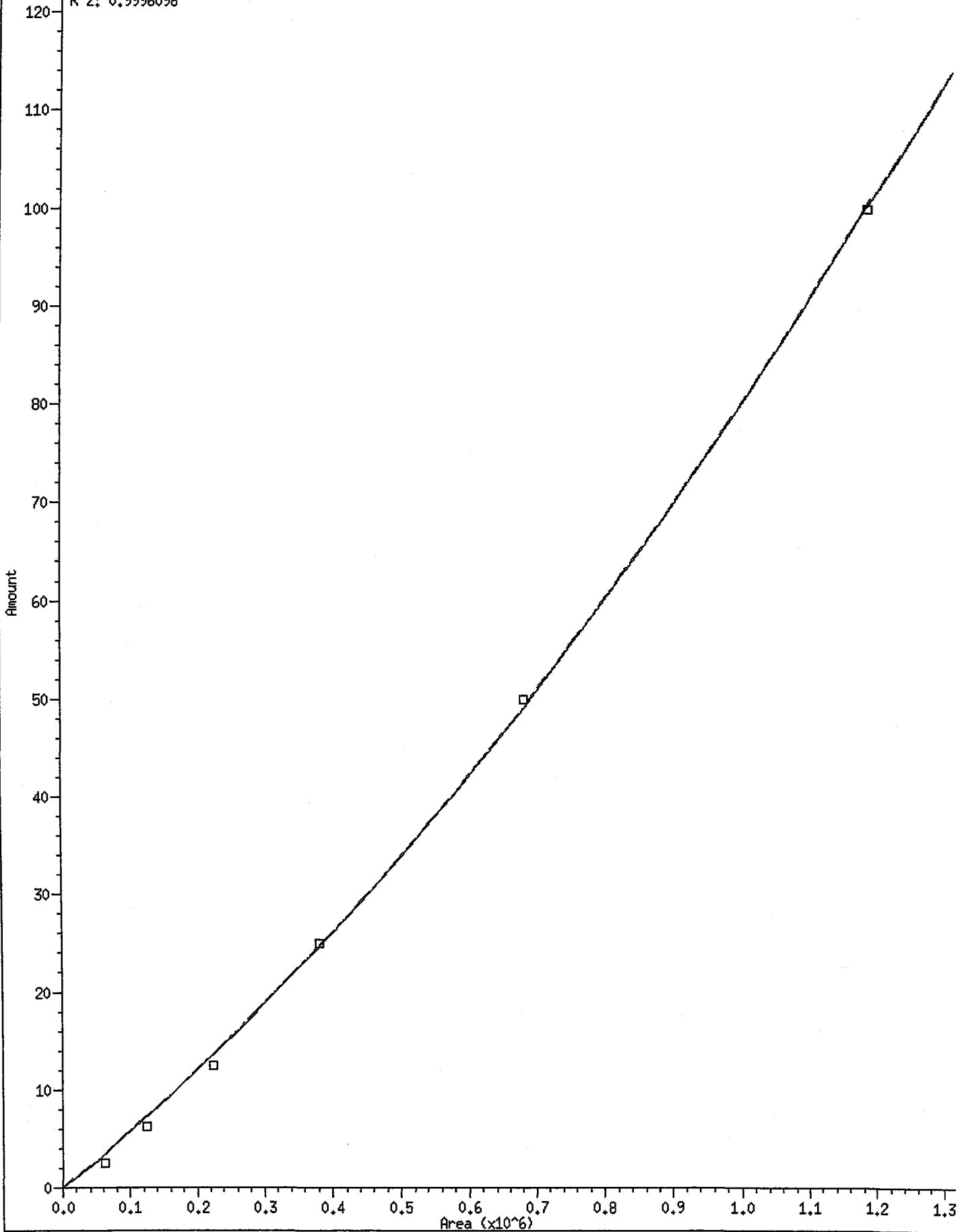
8 2,3,4,5-Tetrachlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.00007935554*Rsp + 6.845903e-11*Rsp^2
R^2: 0.9994890



9 Pentachlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.00005540325*Rsp + 2.375022e-11*Rsp^2
R^2: 0.9996098



Report Date : 12-Aug-2010 19:15

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
 End Cal Date : 09-AUG-2010 14:03
 Quant Method : ESTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl.i/FPCP20100809.b/FPCP.m
 Cal Date : 12-Aug-2010 19:13 aron

Calibration File Names:
 Level 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
 Level 2: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
 Level 3: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A008.d
 Level 4: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
 Level 5: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A009.d
 Level 6: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A010.d

Compound	Level						Coefficients						RSD or R^2
	2 Level 1	6 Level 2	12 Level 3	25 Level 4	50 Level 5	100 Level 6	Curve	b	m1	m2			
1 2,4-Dichlorophenol	18020	39212	76337	121400	204471	341711	QUAD	0.000e+00	0.00155	4.063e-09	0.99935		
2 2,4,6-Trichlorophenol	33851	65457	119503	210327	376941	665977	QUAD	0.000e+00	0.00010	7.068e-11	0.99967		
3 2,3,6-Trichlorophenol	32256	65624	120087	220036	401238	716085	QUAD	0.000e+00	0.00010	5.332e-11	0.99985		
4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	AVRG		5048		19.72715		
5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	AVRG		6841		19.37297		
6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	AVRG		14106		18.40050		
8 2,3,4,5-Tetrachlorophenol	40811	84118	153678	255392	444734	762767	QUAD	0.000e+00	0.00008	6.846e-11	0.99949		
9 Pentachlorophenol	61320	123902	222874	393426	684285	1196534	QUAD	0.000e+00	0.00006	2.375e-11	0.99961		
7 2,4,6-Tribromophenol (sur)	46402	93741	174610	303374	559983	994034	QUAD	0.000e+00	0.00007	2.890e-11	0.99972		

Report Date : 12-Aug-2010 19:15

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecdl.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Quad	Amt = b + m1*Rep + m2*Rep^2	Response

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

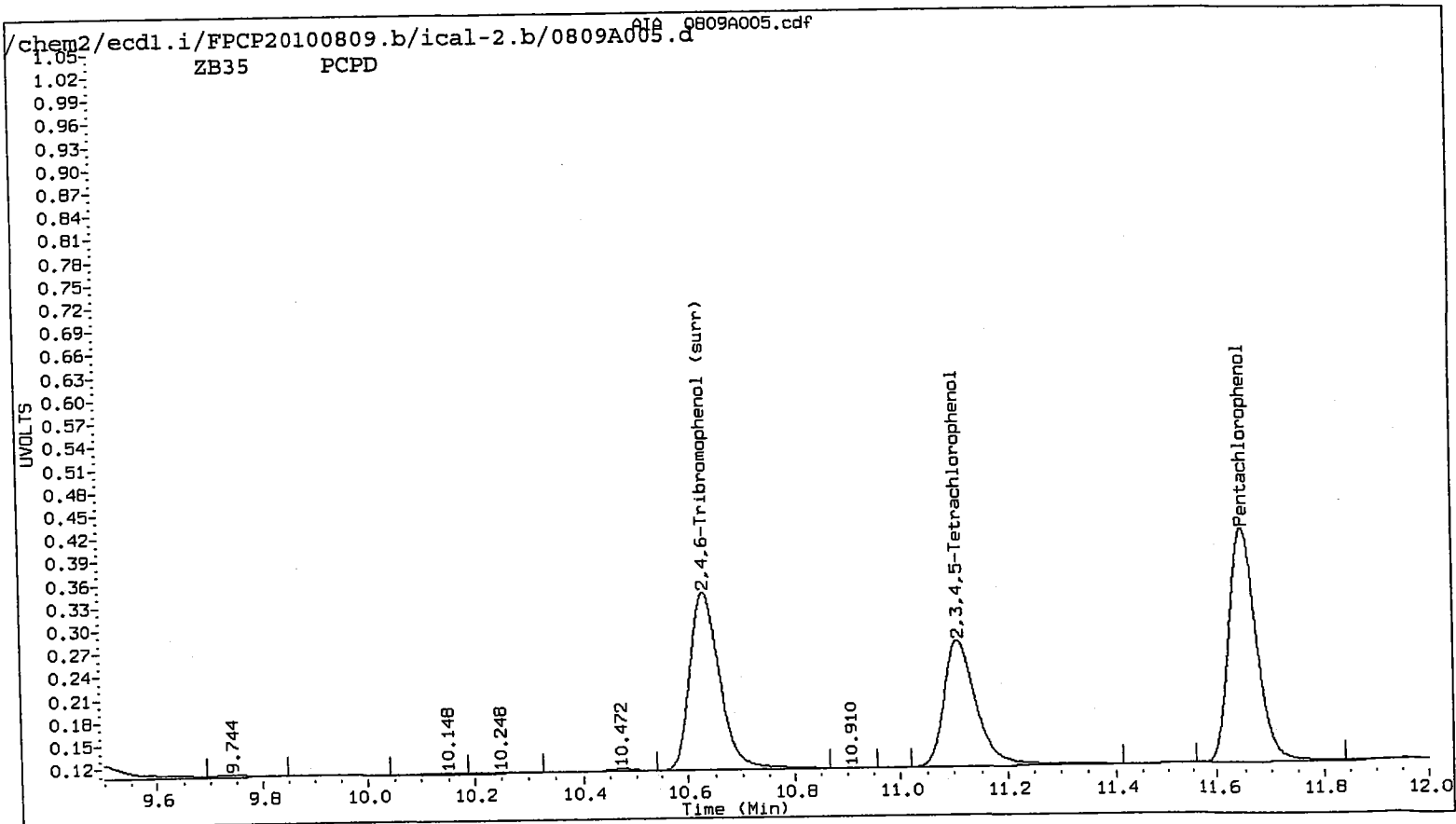
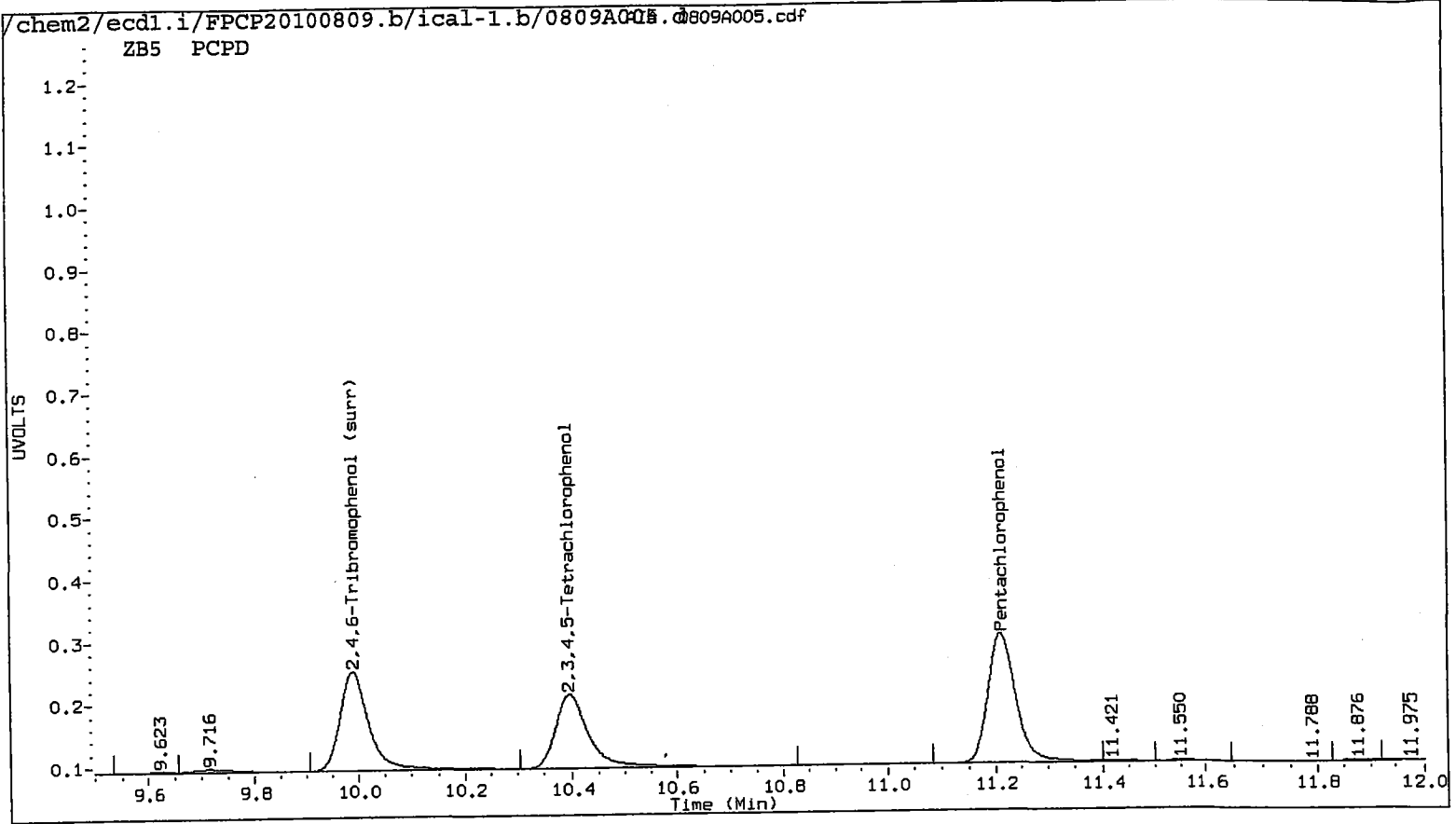
AR 8/12/2010

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A005.d ARI ID: PCPD
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A005.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 12:23
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.212	-0.007	383426	11.649	-0.009	530145	24.7347	23.0885	6.9	Pentachlorophenol
7.261	-0.003	210327	7.329	-0.004	306027	24.8950	24.5124	1.5	2,4,6-Trichlorophenol
7.615	-0.004	220036	7.858	-0.006	301362	24.9609	24.2867	2.7	2,3,6-Trichlorophenol
8.221	-0.021	122872	8.593	-0.022	155087	24.3430	24.7969	1.8	2,4,5-Trichlorophenol
8.770	-0.022	198058	9.359	-0.021	210189	28.9512	24.8234	15.4	2,3,4-Trichlorophenol
8.996	-0.011	355822	9.262	-0.015	443336	25.2255	23.9449	5.2	2,3,5,6-Tetrachlorophenol
10.397	-0.016	255392	11.109	-0.017	338740	24.7320	23.2161	6.3	2,3,4,5-Tetrachlorophenol
6.887	-0.006	121400	7.156	-0.010	154741	248.0488	250.3573	0.9	2,4-Dichlorophenol
9.990	-0.012	303374	10.632	-0.014	444822	24.5	23.8	2.9	2,4,6-Tribromophenol (surr)

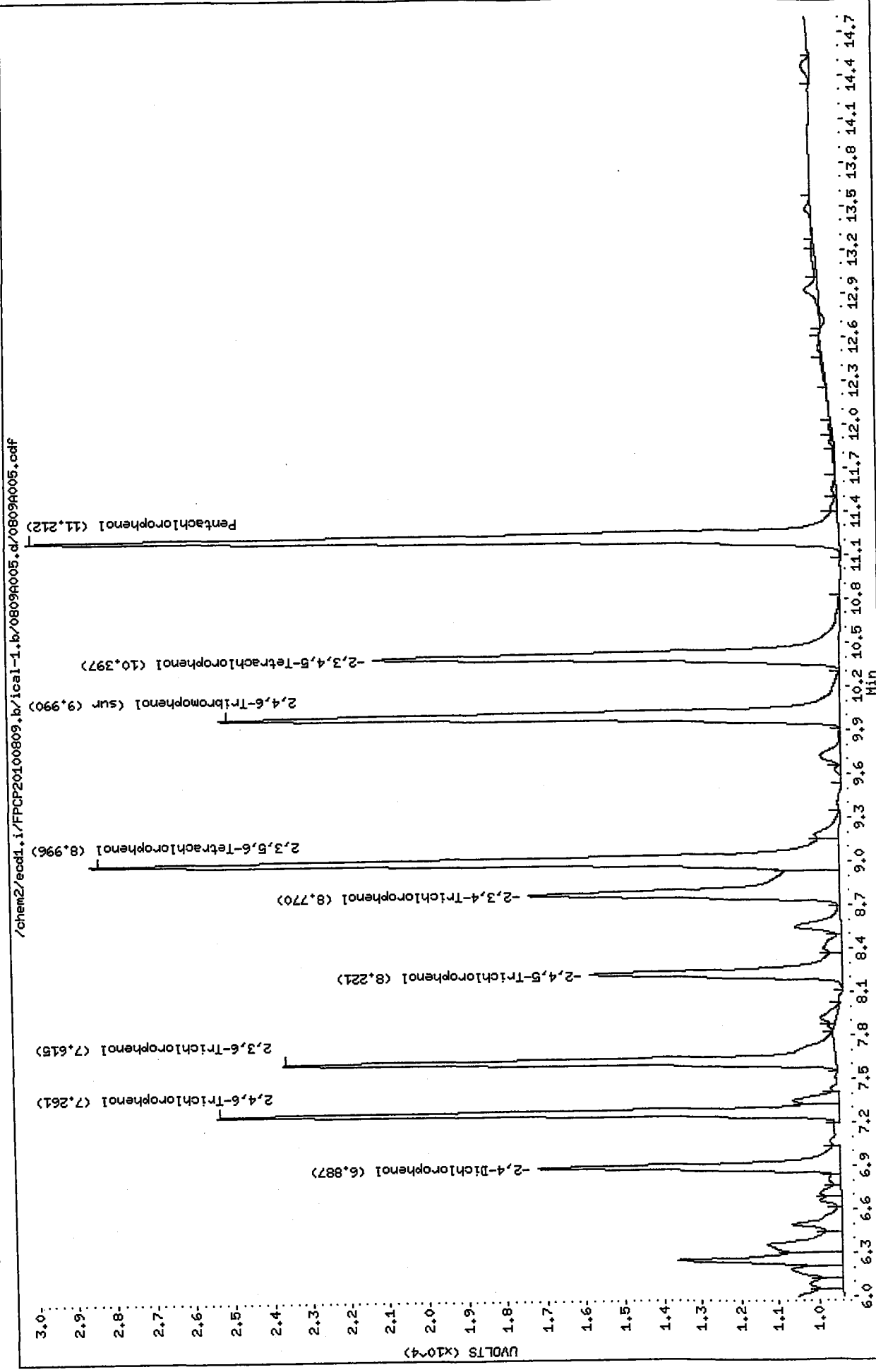
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	98.1	95.3



Data File: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB5

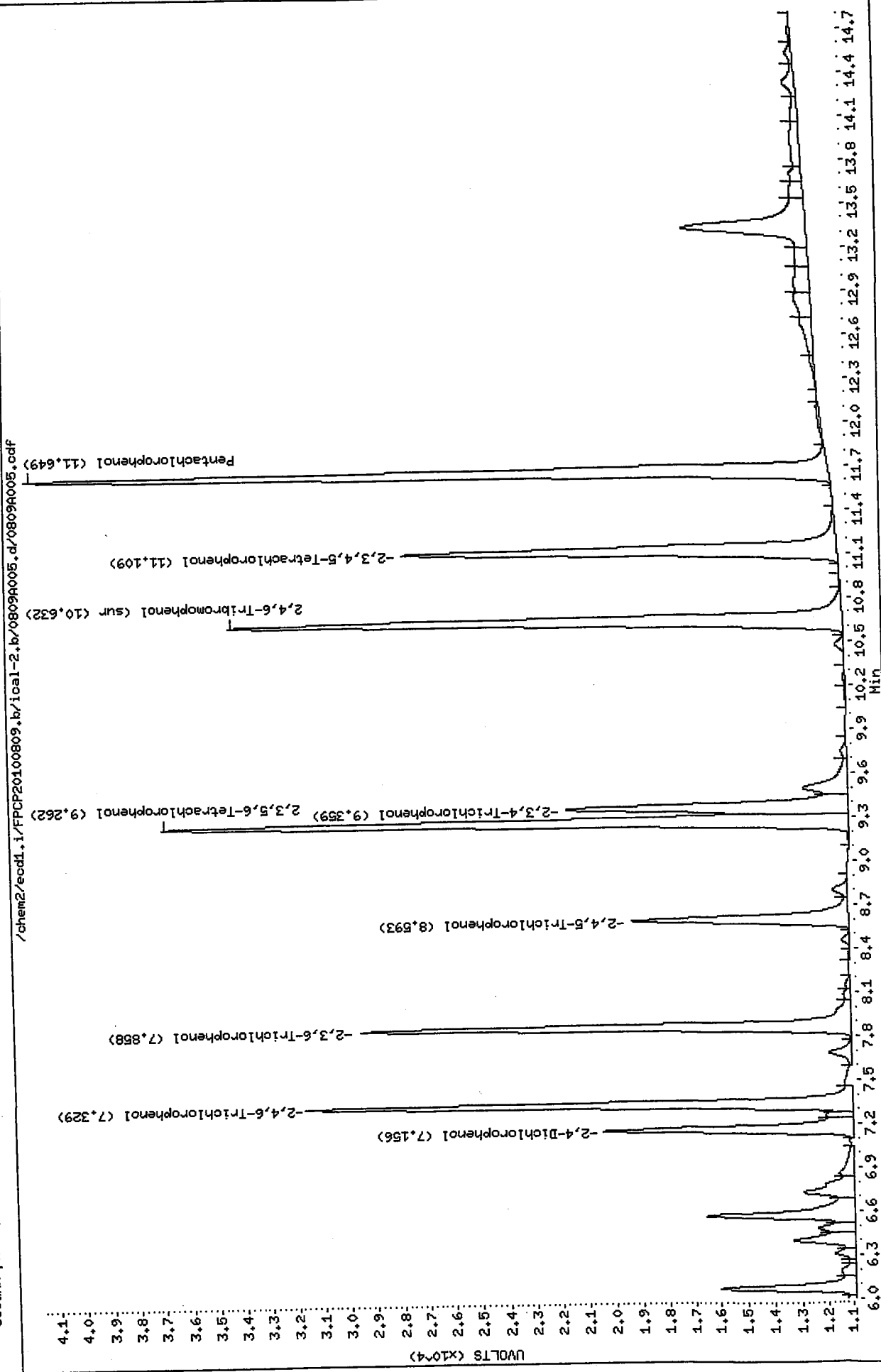
Instrument: eccl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/eodl.i/FPCP20100809.b/1cal-2.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB35

Instrument: eodl.i

Operator: ar
Column diameter: 0.53



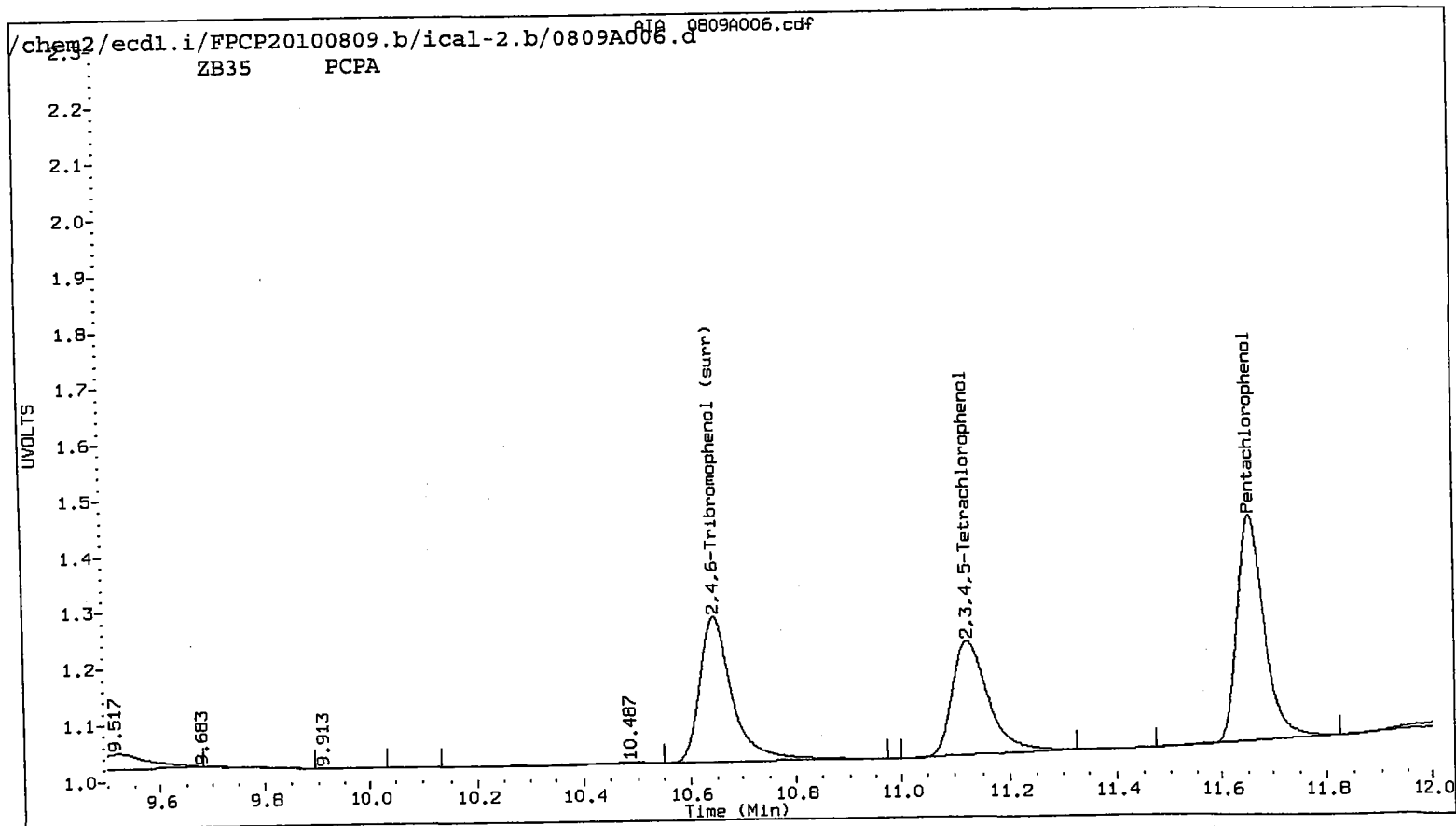
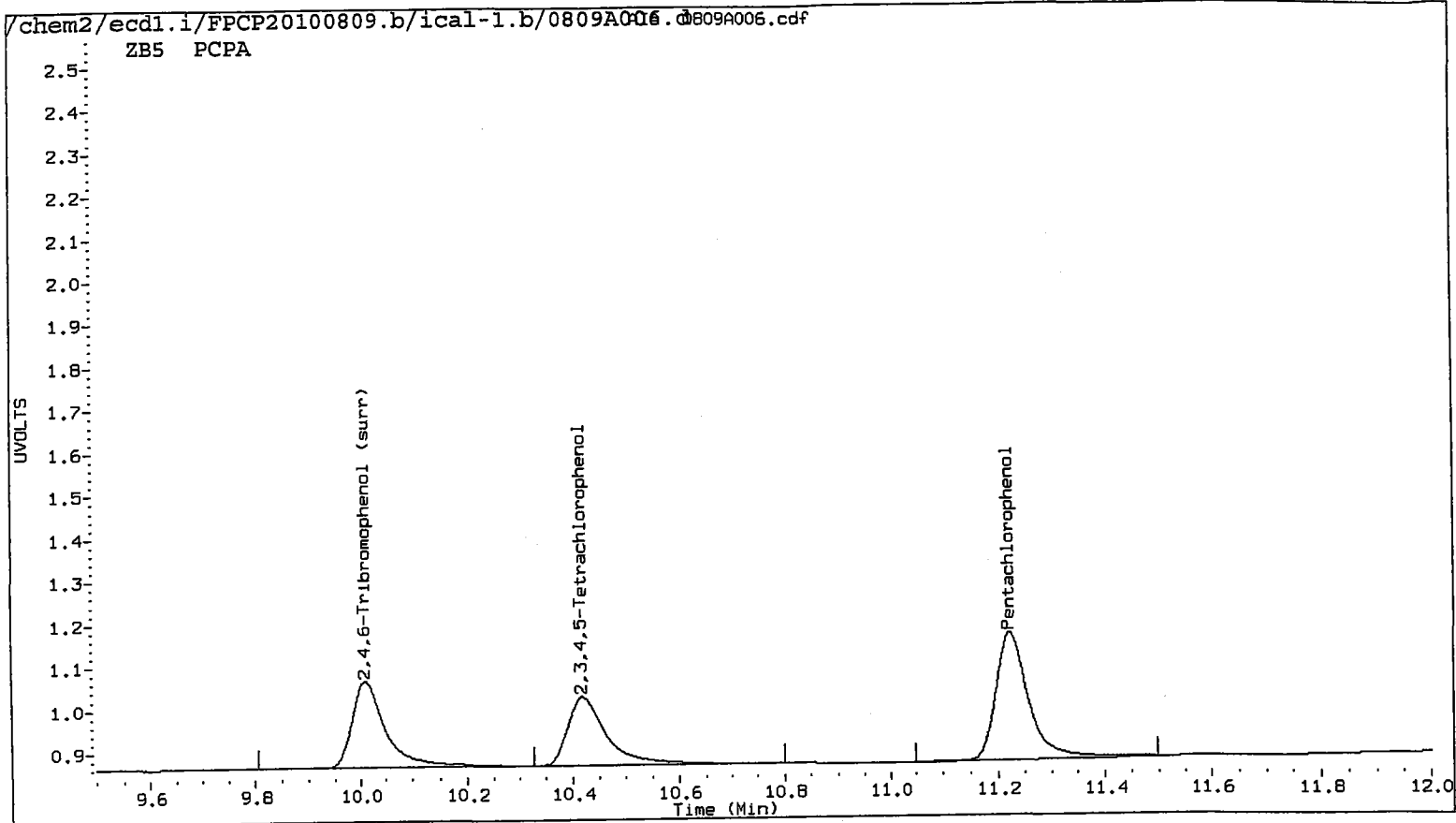
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A006.d ARI ID: PCPA
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A006.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 12:43
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.225	0.006	61320	11.658	0.000	71975	3.4866	3.1346	10.6	Pentachlorophenol
7.263	-0.001	33851	7.333	0.000	37028	3.5845	2.9659	18.9	2,4,6-Trichlorophenol
7.622	0.003	32256	7.864	0.000	38395	3.3362	3.0942	7.5	2,3,6-Trichlorophenol
8.253	0.011	16009	8.615	0.000	23627	3.1717	3.3608	5.8	2,4,5-Trichlorophenol
8.806	0.014	20983	9.380	0.000	32846	3.0672	3.4670	12.2	2,3,4-Trichlorophenol
9.013	0.006	44762	9.277	0.000	56775	3.1733	3.0665	3.4	2,3,5,6-Tetrachlorophenol
10.421	0.008	40811	11.126	0.000	46035	3.3526	3.1551	6.1	2,3,4,5-Tetrachlorophenol
6.897	0.004	18020	7.166	0.000	21466	29.2505	29.3296	0.3	2,4-Dichlorophenol
10.010	0.008	46402	10.646	0.000	56619	3.4	3.0	11.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	13.6	12.1



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d

Date : 09-AUG-2010 12:43

Client ID:

Sample Info: PCPA

Purge Volume: 2.0

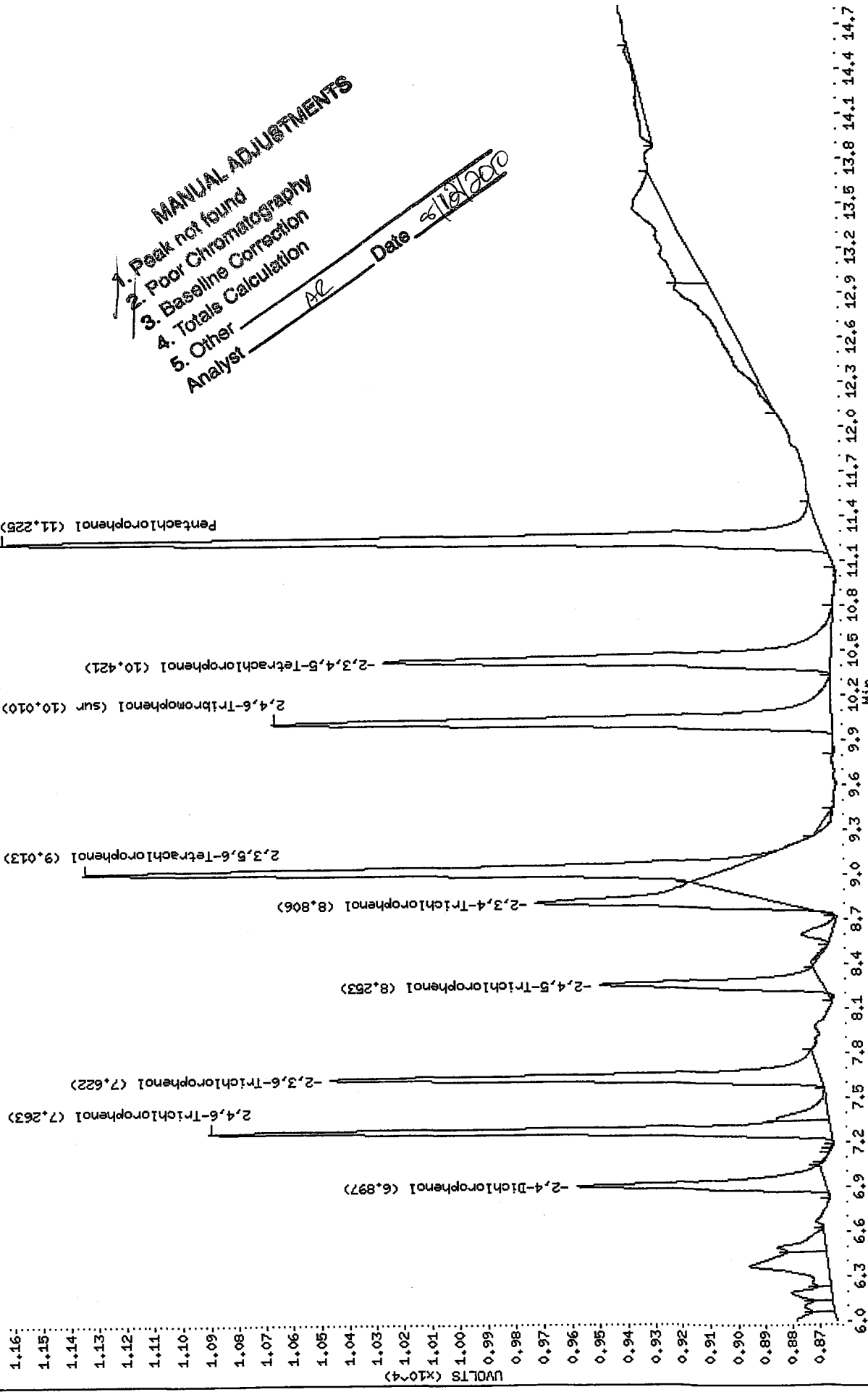
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf



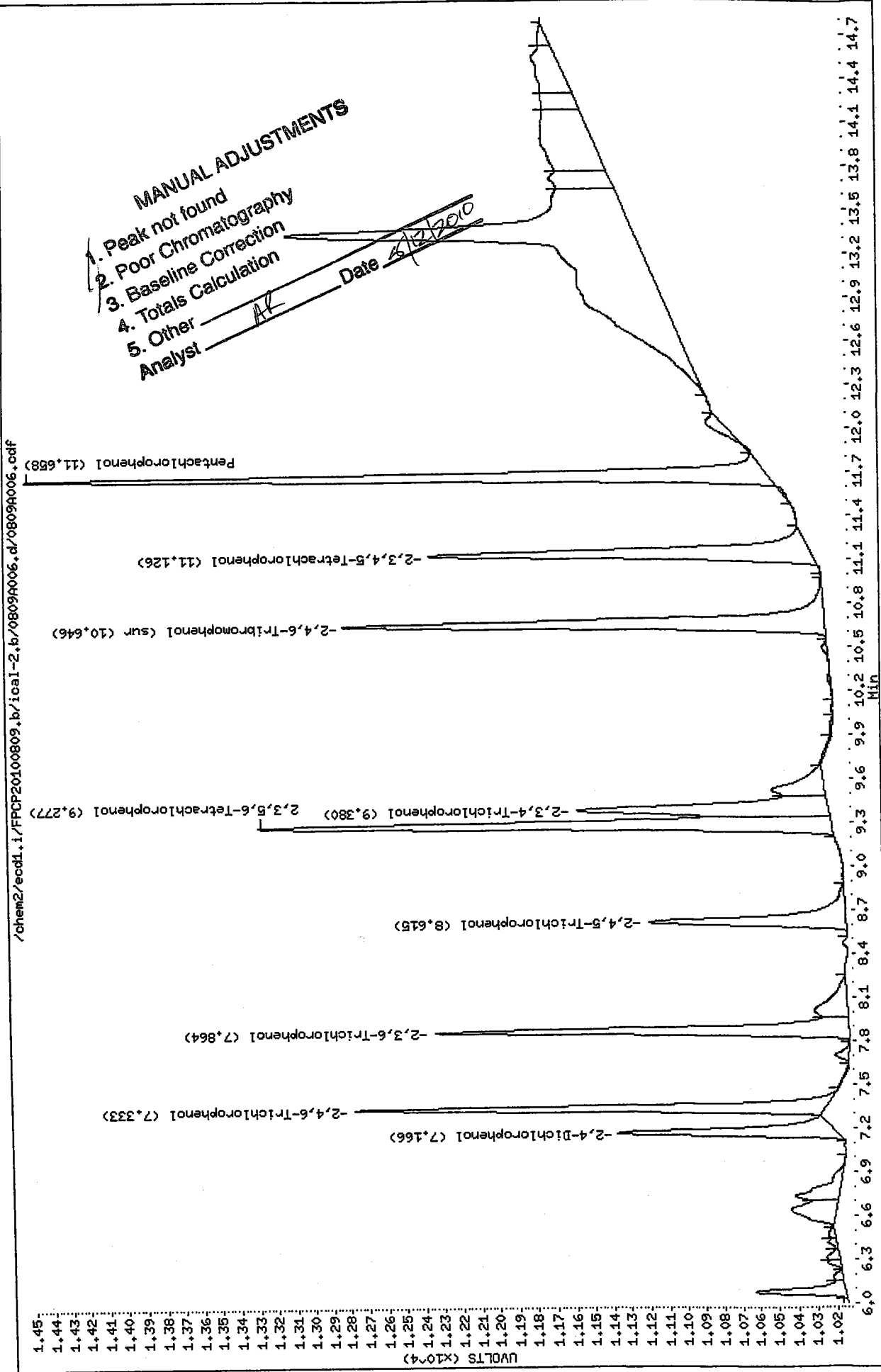
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: AR Date: 8/18/2010

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d
 Date: 09-AUG-2010 12:43
 Client ID:
 Sample Info: PCPA
 Purge Volume: 2.0
 Column phase: ZB35

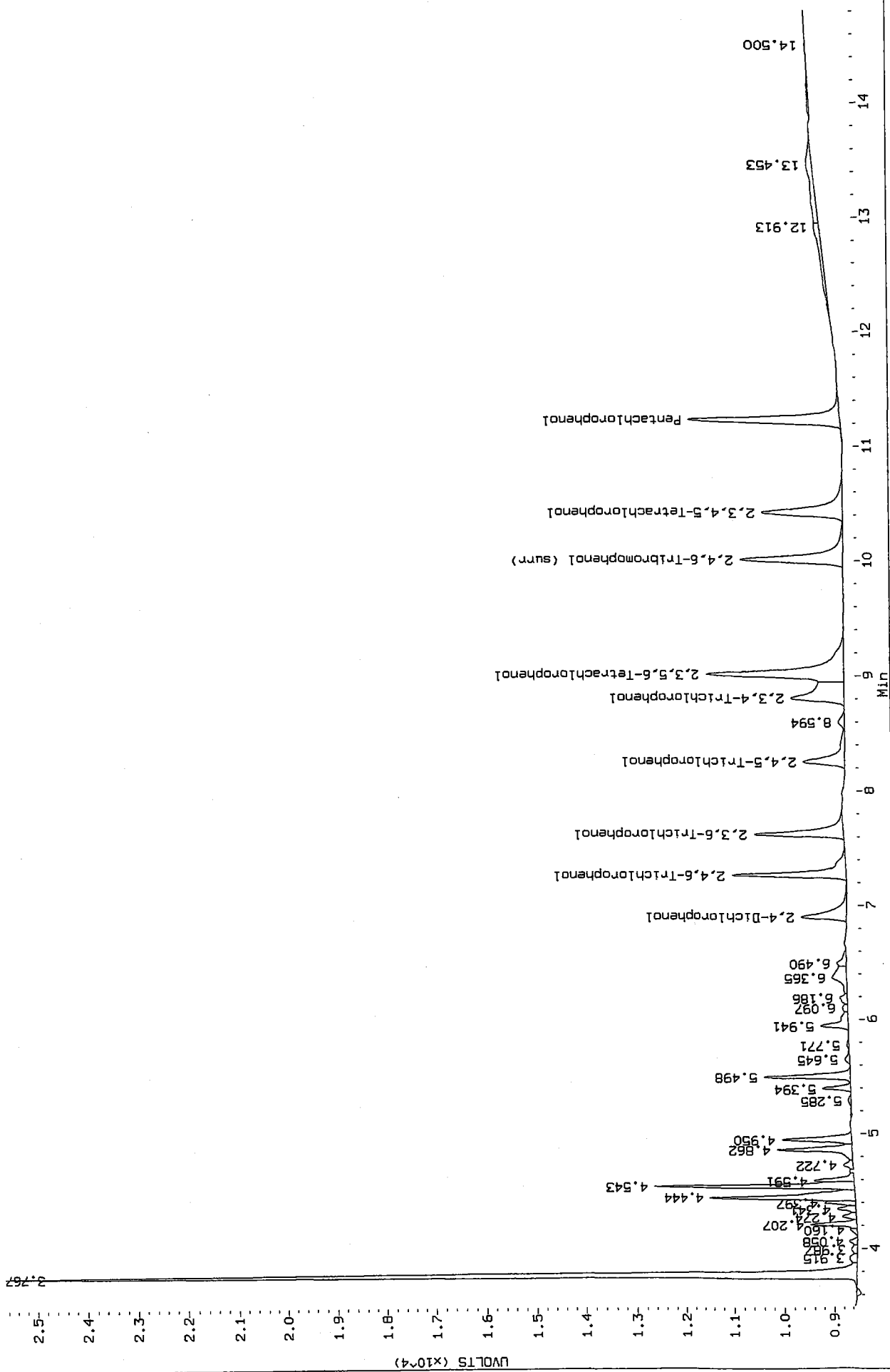
Instrument: ecd1.i
 Operator: ar
 Column diameter: 0.53



Data File: /chem2/ecc1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Injection Date: 09-AUG-2010 12:43
Instrument: ecc1.i
Client Sample ID:

Before 08/12/2010

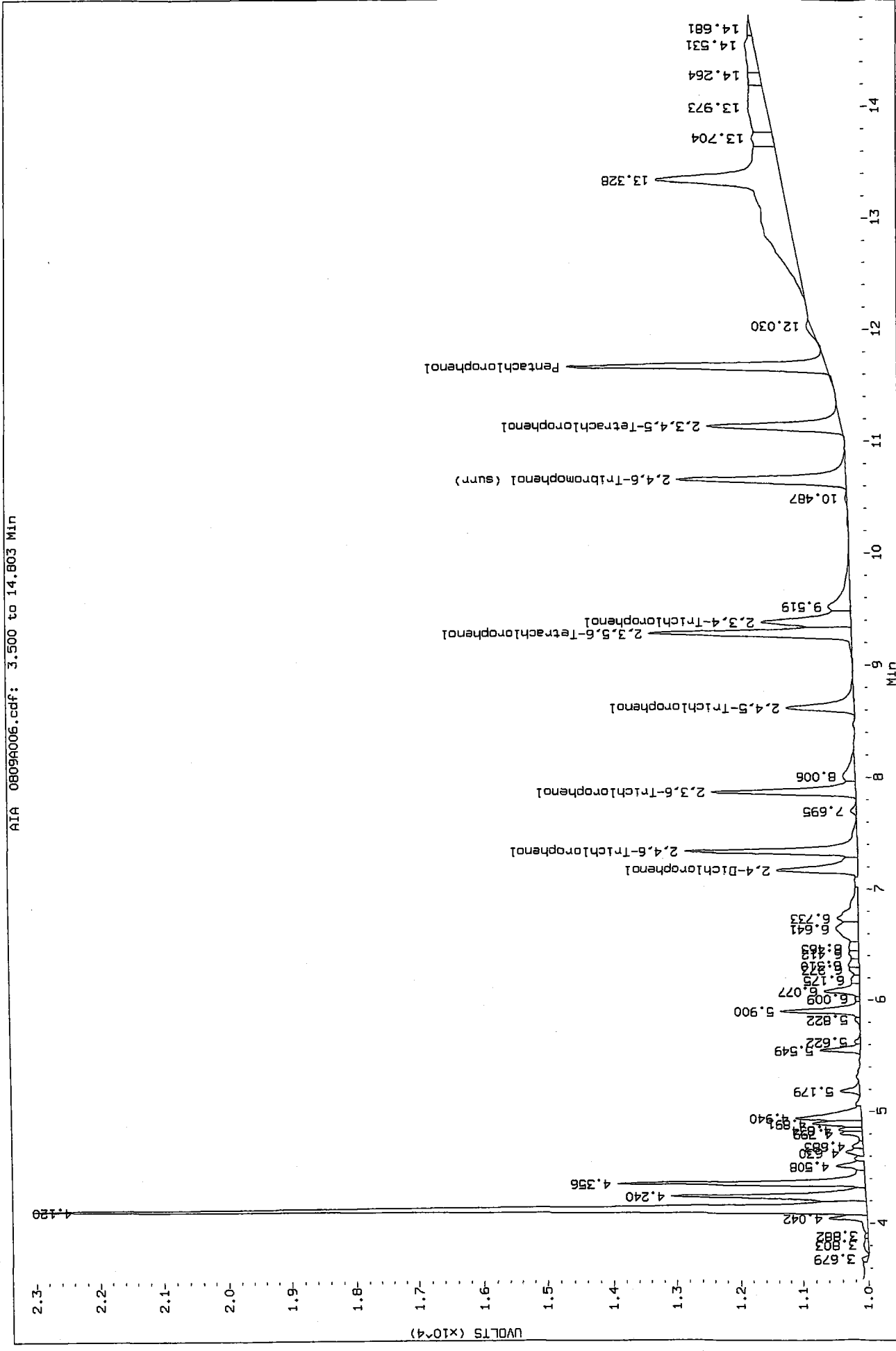
AIA 0809A006.cdf: 3.500 to 14.803 Min



RK21 : 00275

Data File: /chem2/ecdl1/FFCP20100609_b/1cal-2.b/0609A006.d/0609A006.cdf
 Injection Date: 09-AUG-2010 12:43
 Instrument: ecdl1.1
 Client Sample ID:

Before AR 8/19/2010



RK21: 00275

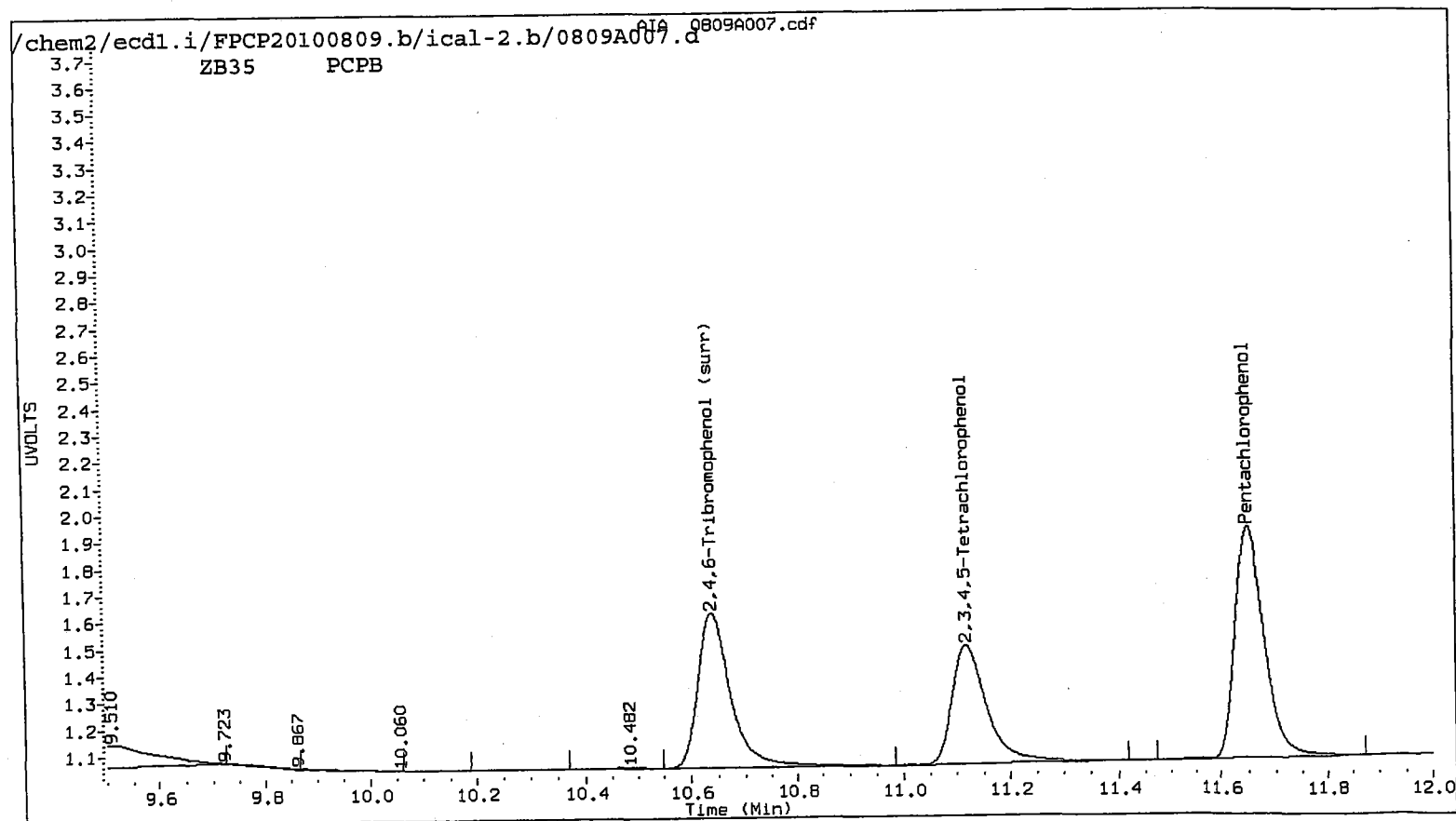
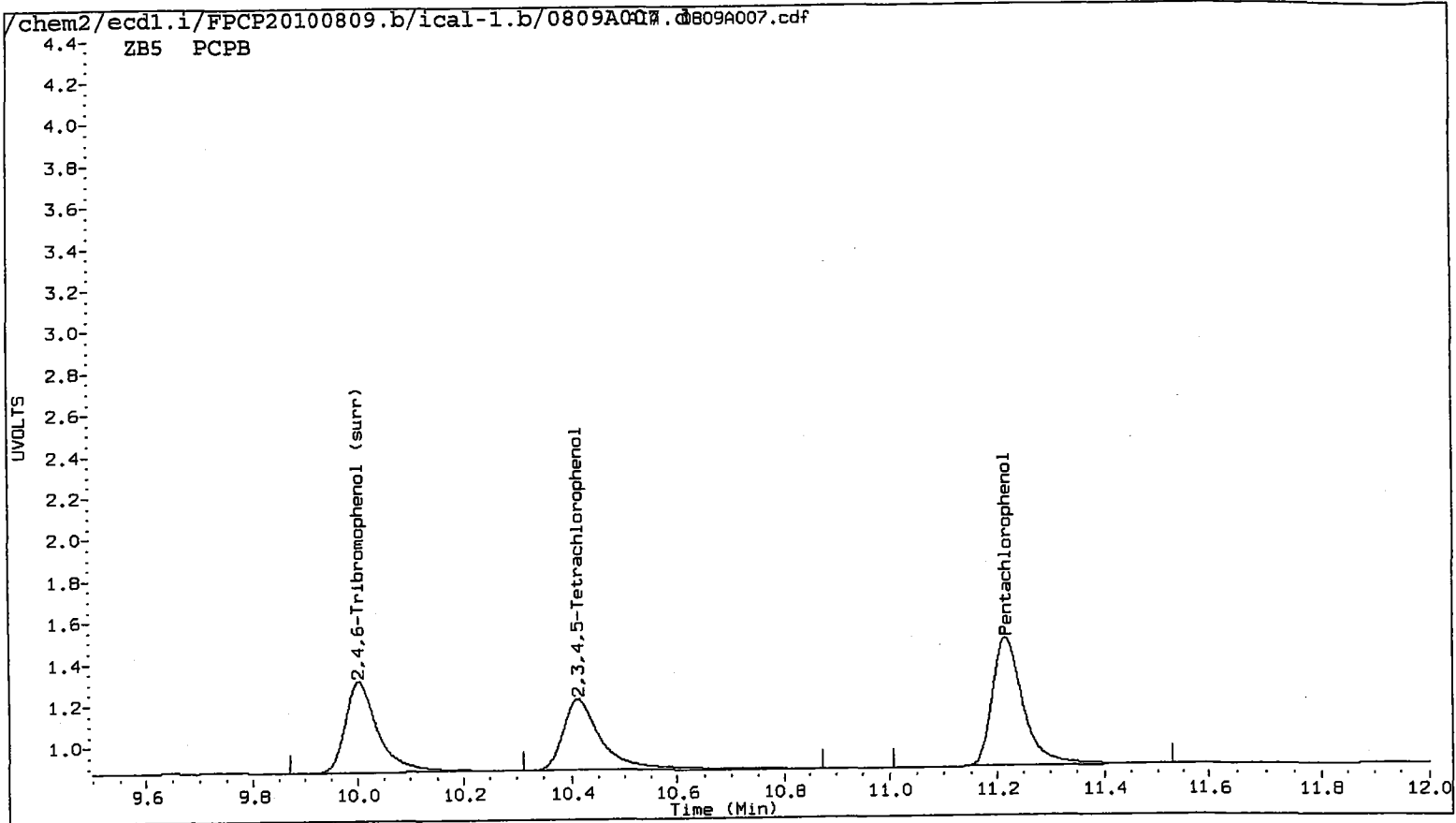
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A007.d ARI ID: PCPB
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A007.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:03
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	123902	11.654	-0.004	156217	7.2292	6.8035	6.1	Pentachlorophenol
7.264	0.000	65457	7.333	0.000	78390	7.0775	6.2789	12.0	2,4,6-Trichlorophenol
7.619	0.000	65624	7.862	-0.002	82392	6.9041	6.6399	3.9	2,3,6-Trichlorophenol
8.242	0.000	33512	8.607	-0.008	48273	6.6393	7.0262	5.7	2,4,5-Trichlorophenol
8.792	0.000	44178	9.373	-0.007	73211	6.4577	7.9367	20.5	2,3,4-Trichlorophenol
9.007	0.000	94127	9.270	-0.007	125627	6.6730	6.7852	1.7	2,3,5,6-Tetrachlorophenol
10.413	0.000	84118	11.119	-0.007	100660	7.1596	6.8989	3.7	2,3,4,5-Tetrachlorophenol
6.893	0.000	39212	7.163	-0.003	45023	67.0259	63.5184	5.4	2,4-Dichlorophenol
10.002	0.000	93741	10.640	-0.006	121487	7.0	6.5	7.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	28.0	26.0



Data File: /chem2/eed1.i/FPCP20100809.b/ical-1.b/0809A007.d

Date : 09-AUG-2010 13:03

Client ID:

Sample Info: PCPB

Purge Volume: 2.0

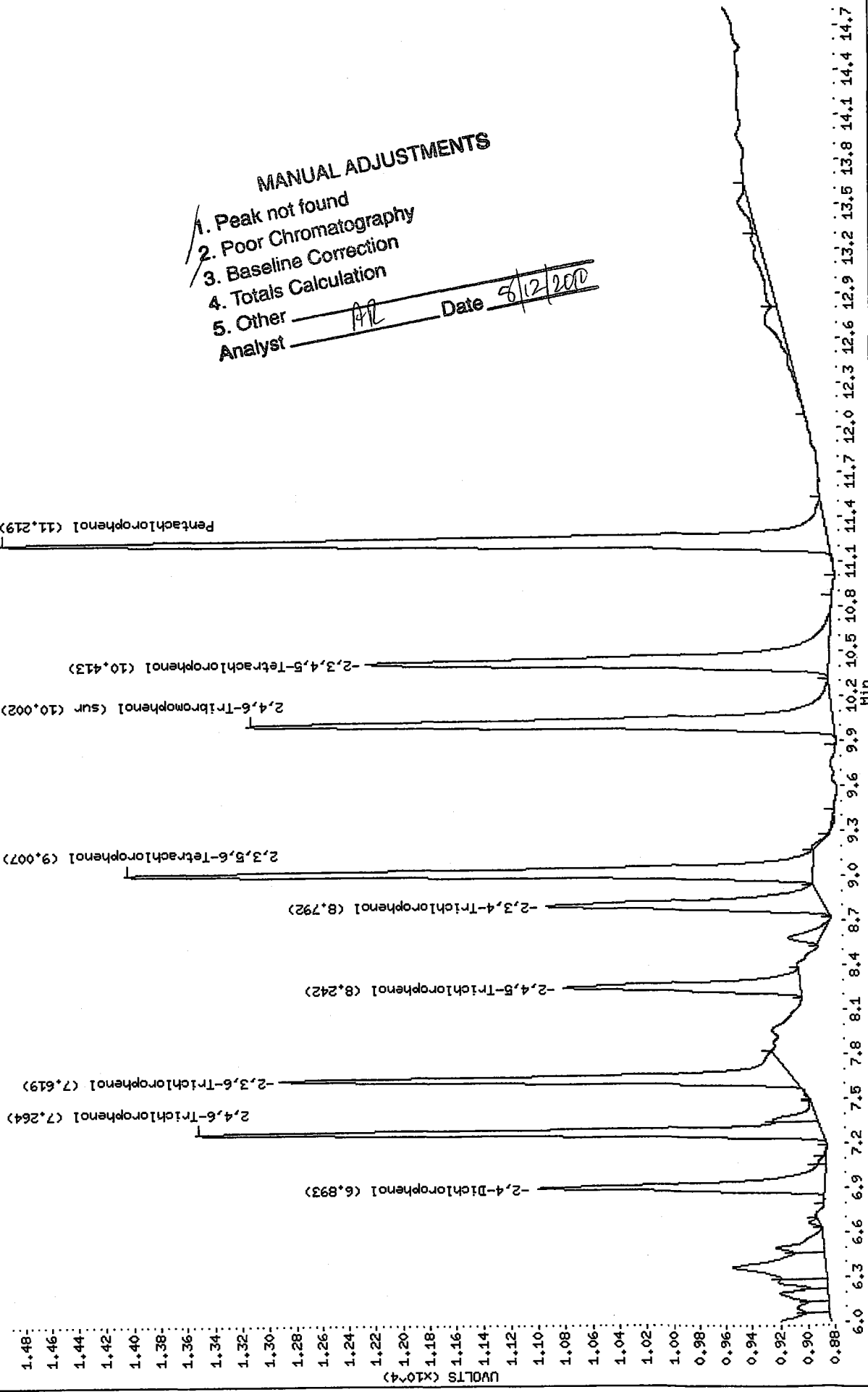
Column phase: ZB5

Instrument: eed1.i

Operator: ar

Column diameter: 0.53

/chem2/eed1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

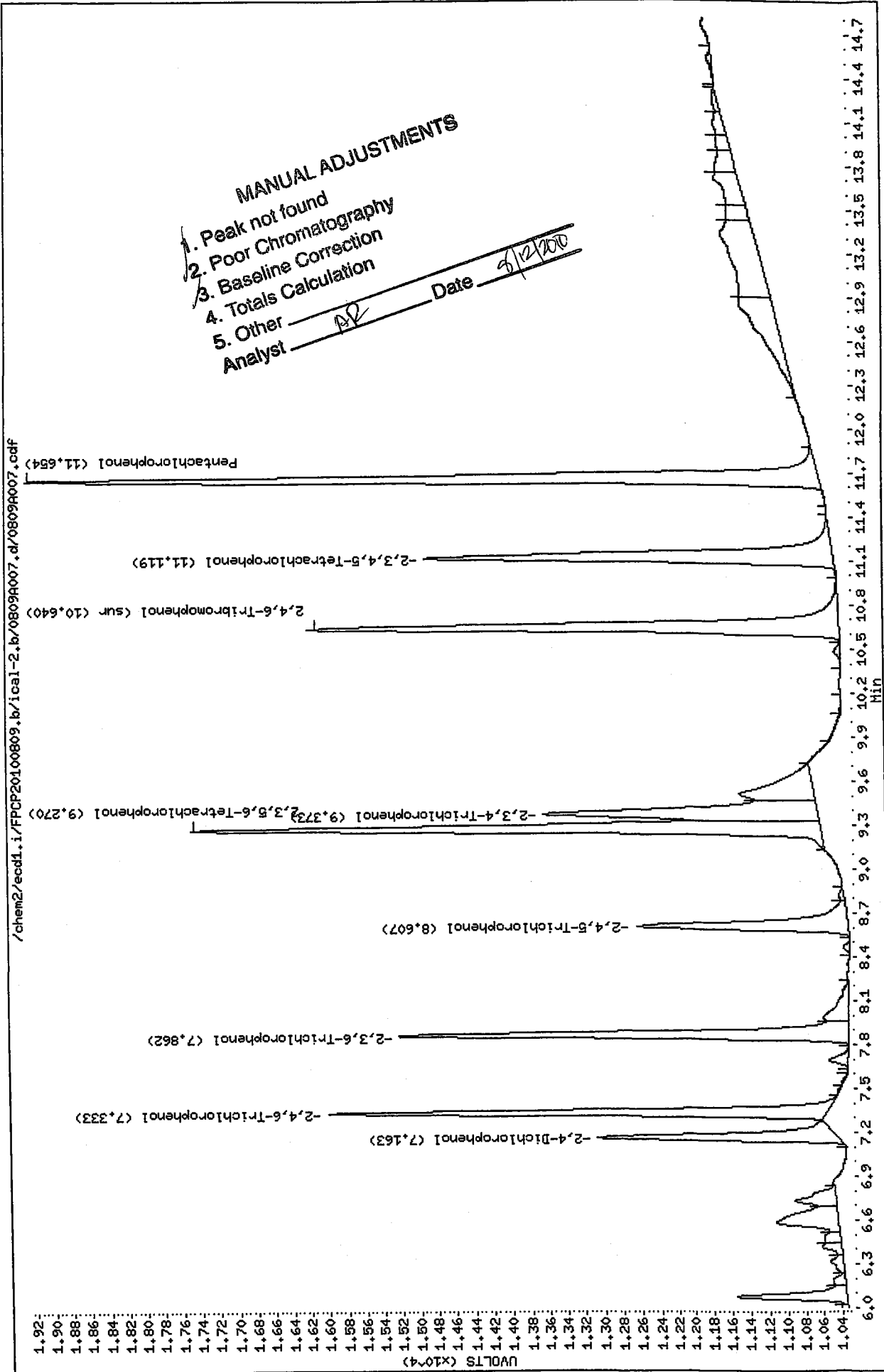
Analyst: AR Date: 8/12/2010

Data File: /chem2/eecd1.i/FPCP20100809.b/ical-2.b/0809A007.d
 Date : 09-AUG-2010 13:03
 Client ID:
 Sample Info: PCFB
 Purge Volume: 2.0
 Column phase: ZB35

Instrument: eecd1.i

Operator: ar

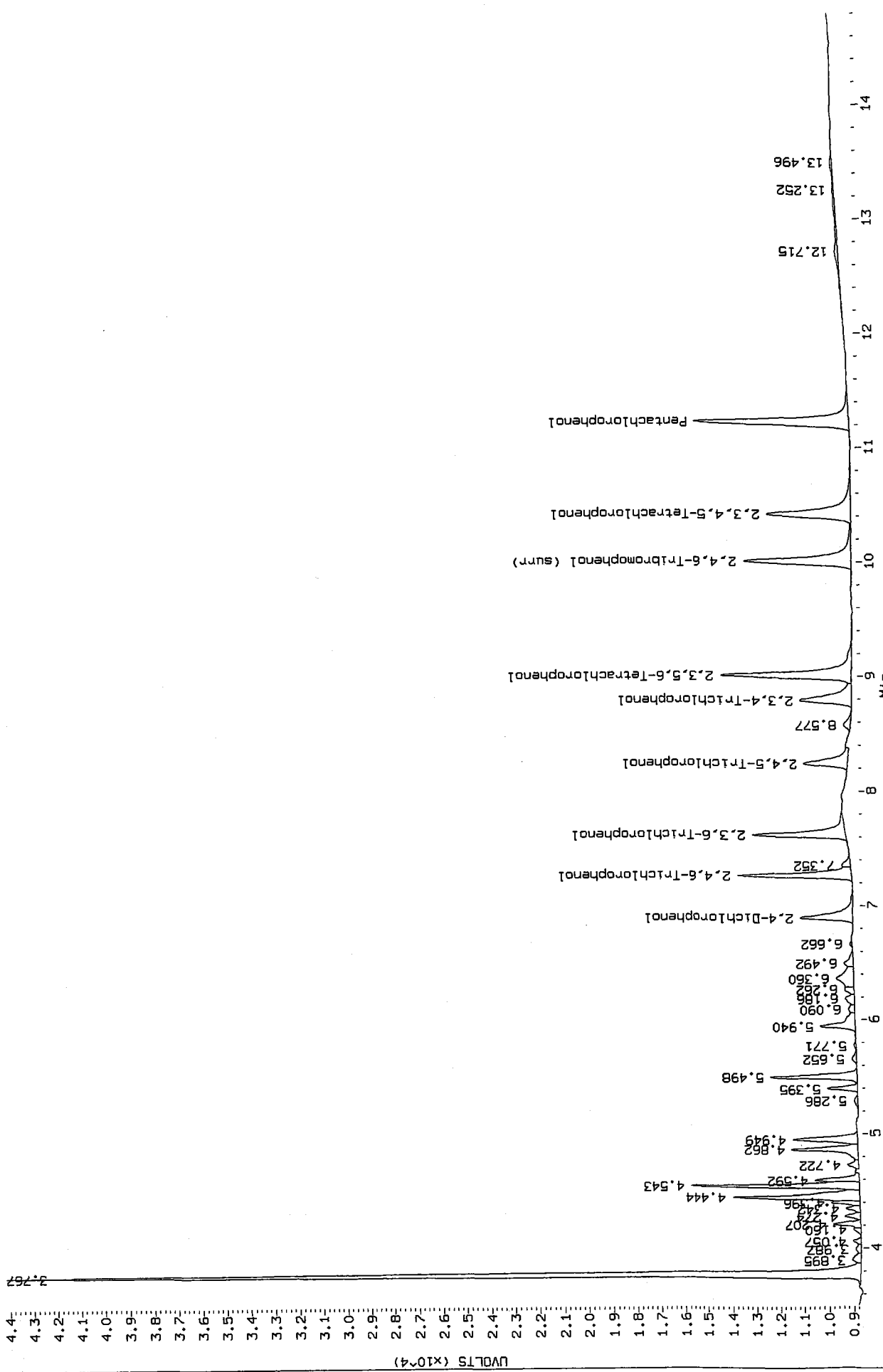
Column diameter: 0.53



Data File: /chem2/ecdi.i/FPCP20100809.b/1cal-1.b/0809A007.d/0809A007.cdf
 Injection Date: 09-AUG-2010 13:03
 Instrument: ecdi.i
 Client Sample ID:

Before AR 8/18/2010

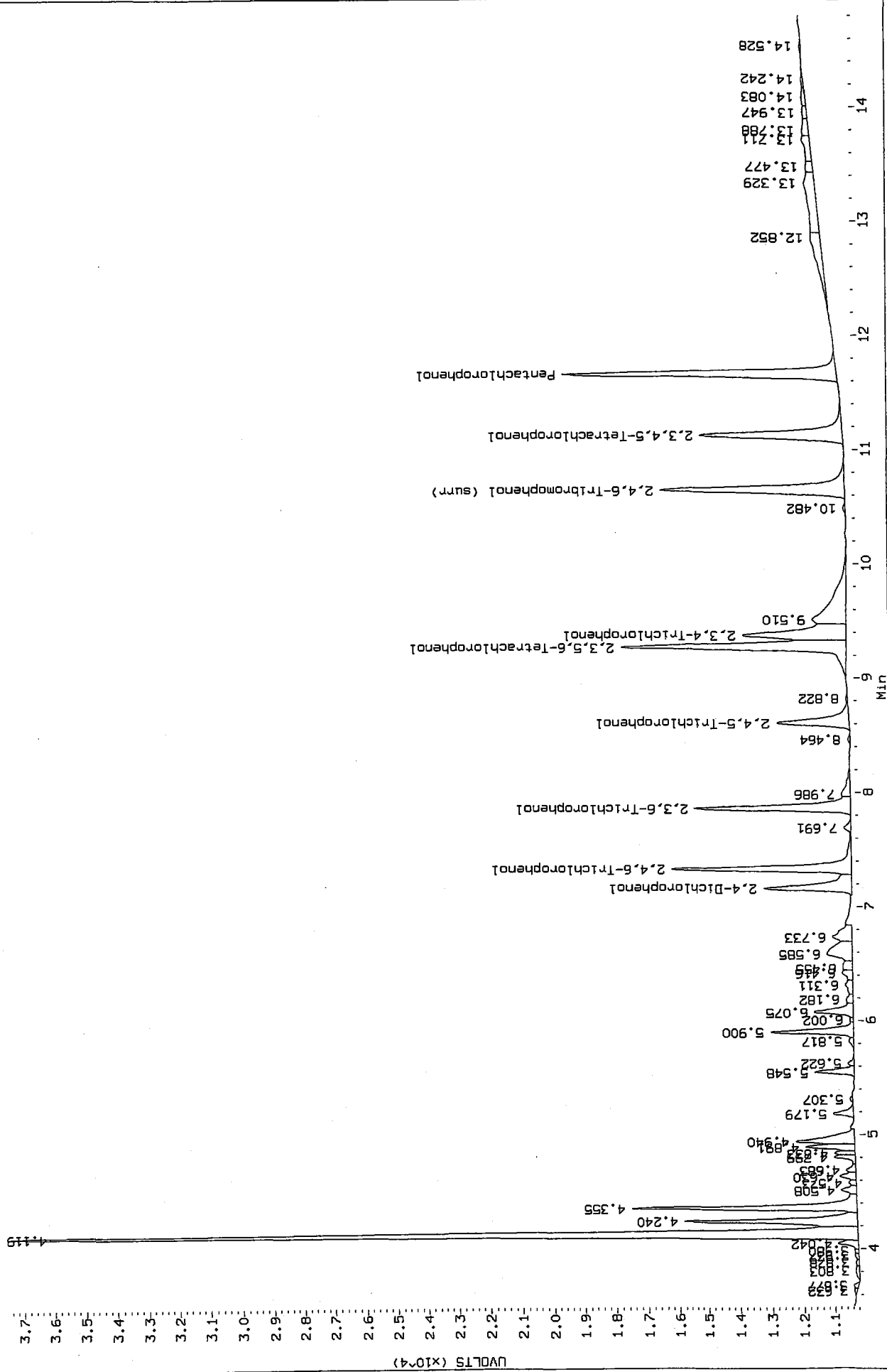
AIA 0809A007.cdf: 3.500 to 14.800 Min



Data File: /chem2/ecdd1.1/TPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
 Injection Date: 09-AUG-2010 13:03
 Instrument: ecdd1.1
 Client Sample ID:

Before AR 8/12/2010

RIA 0809A007.cdf: 3.500 to 14.800 Min



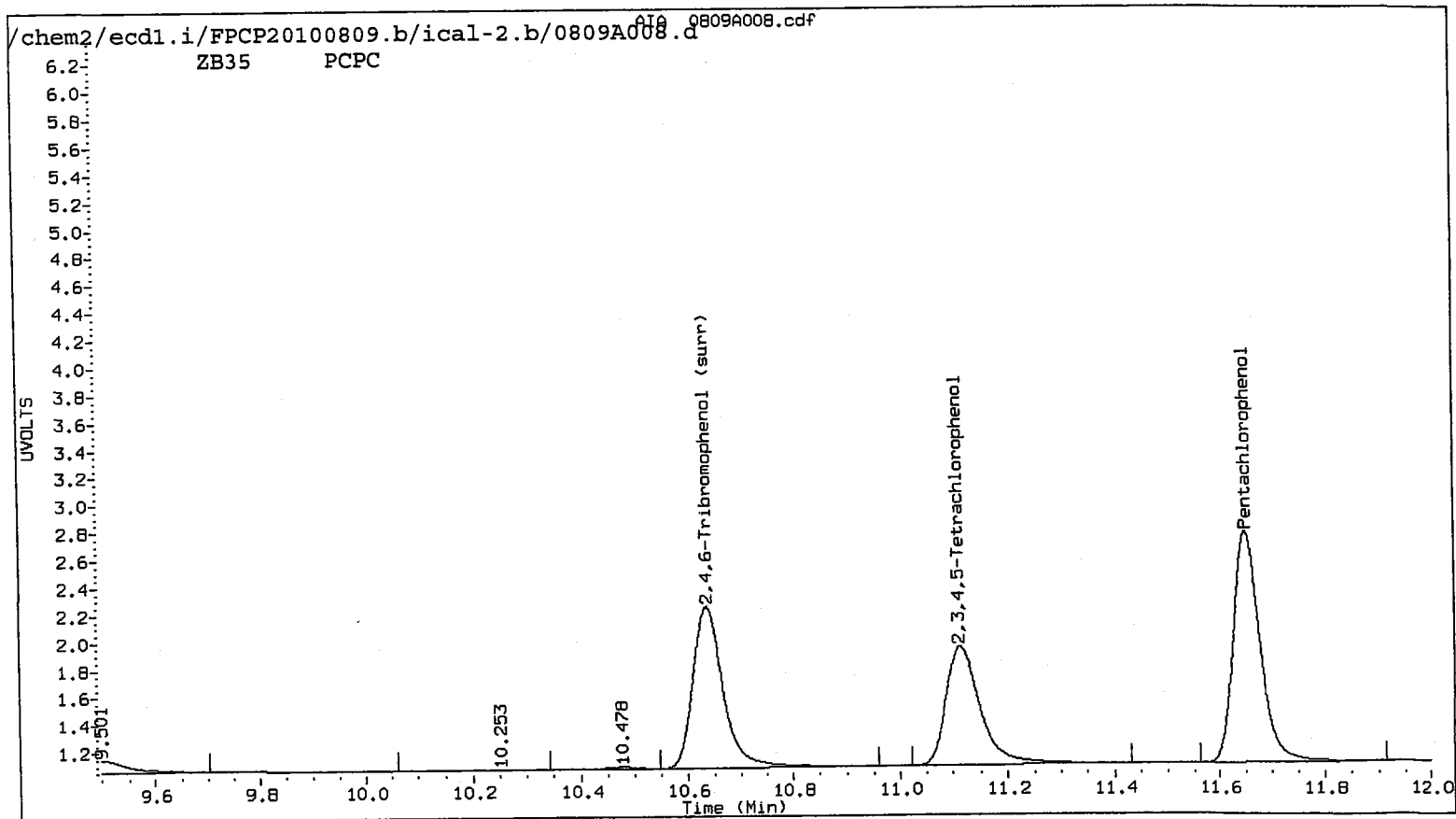
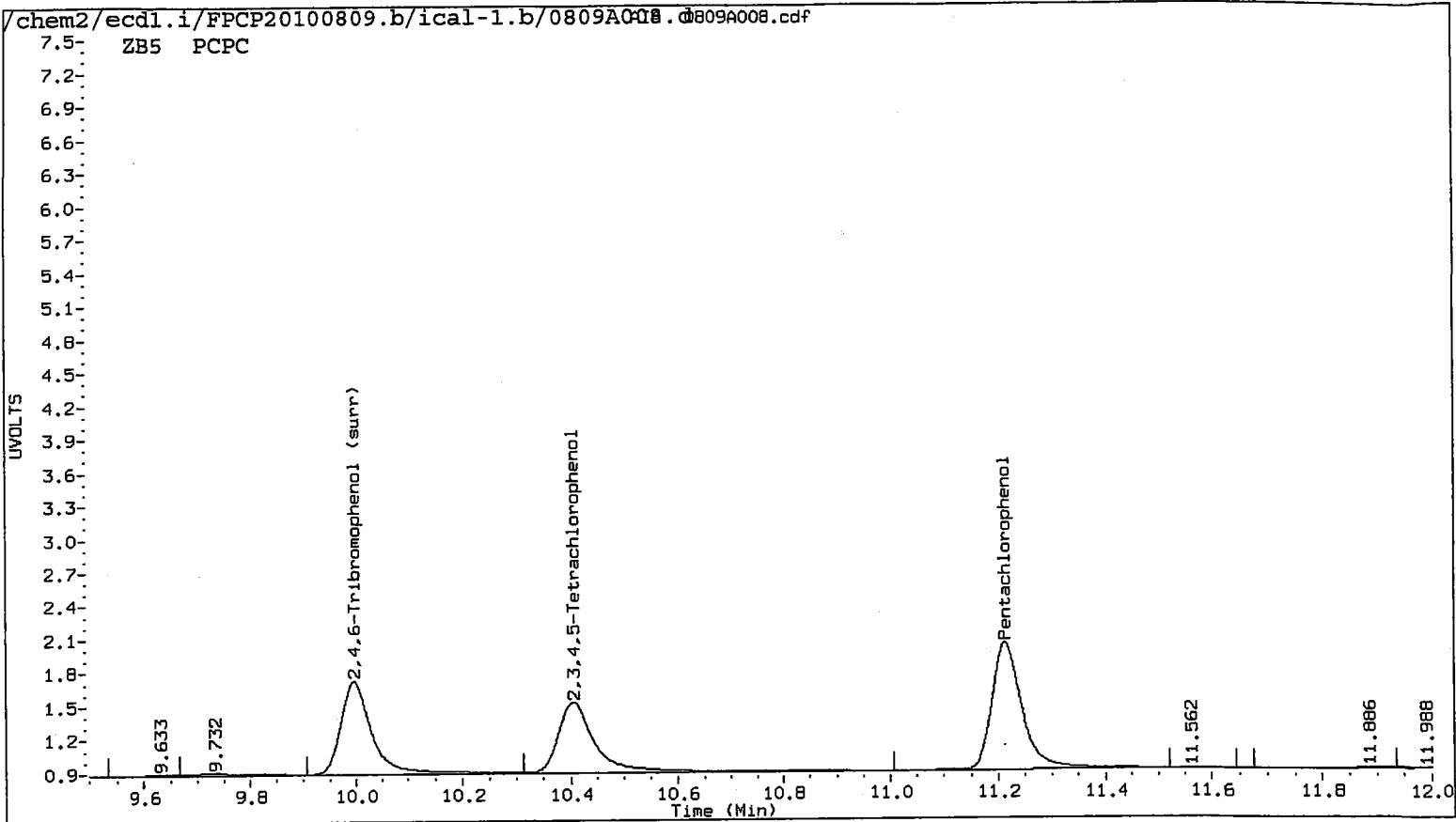
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A008.d	ARI ID: PCPC
Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A008.d	Client ID:
Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m	Injection Date: 09-AUG-2010 13:23
Compound Sublist: all	Report Date: 08/12/2010 19:15
Instrument: ecdl.i	Matrix: WATER
Operator: ar	Dilution Factor: 1.000

RT	ZB-5 Col Shift Response	RT	ZB35 Col Shift Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.215	-0.004 222874	11.652	-0.006 298790	13.5277	13.0127	3.9	Pentachlorophenol
7.263	-0.001 119503	7.331	-0.002 175254	13.3777	14.0376	4.8	2,4,6-Trichlorophenol
7.617	-0.002 120087	7.860	-0.004 157630	12.9827	12.7034	2.2	2,3,6-Trichlorophenol
8.232	-0.010 71098	8.600	-0.015 89400	14.0857	13.5058	4.2	2,4,5-Trichlorophenol
8.780	-0.012 89192	9.365	-0.015 117878	13.0377	13.1515	0.9	2,3,4-Trichlorophenol
9.002	-0.005 187444	9.266	-0.011 232265	13.2886	12.5448	5.8	2,3,5,6-Tetrachlorophenol
10.406	-0.007 153678	11.115	-0.011 189199	13.8120	12.9671	6.3	2,3,4,5-Tetrachlorophenol
6.890	-0.003 76337	7.160	-0.006 91643	141.9985	137.3547	3.3	2,4-Dichlorophenol
9.996	-0.006 174610	10.636	-0.010 235194	13.5	12.6	6.6	2,4,6-Tribromophenol (surr)

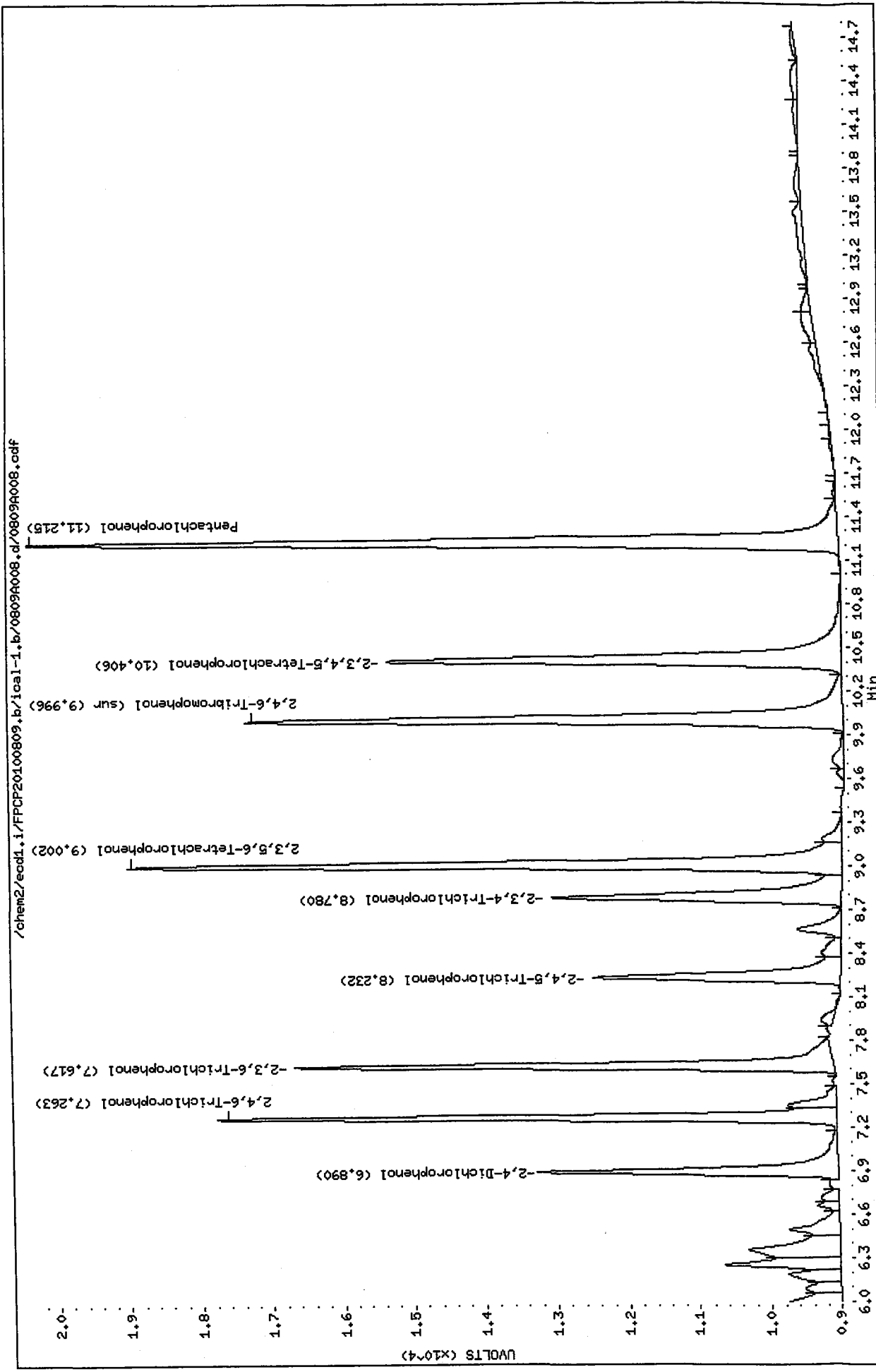
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	53.9	50.4



Data File: /chem2/ecod1.i/FPCP20100809.b/ical-1.b/0809R008.d
Date: 09-AUG-2010 13:23
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB5

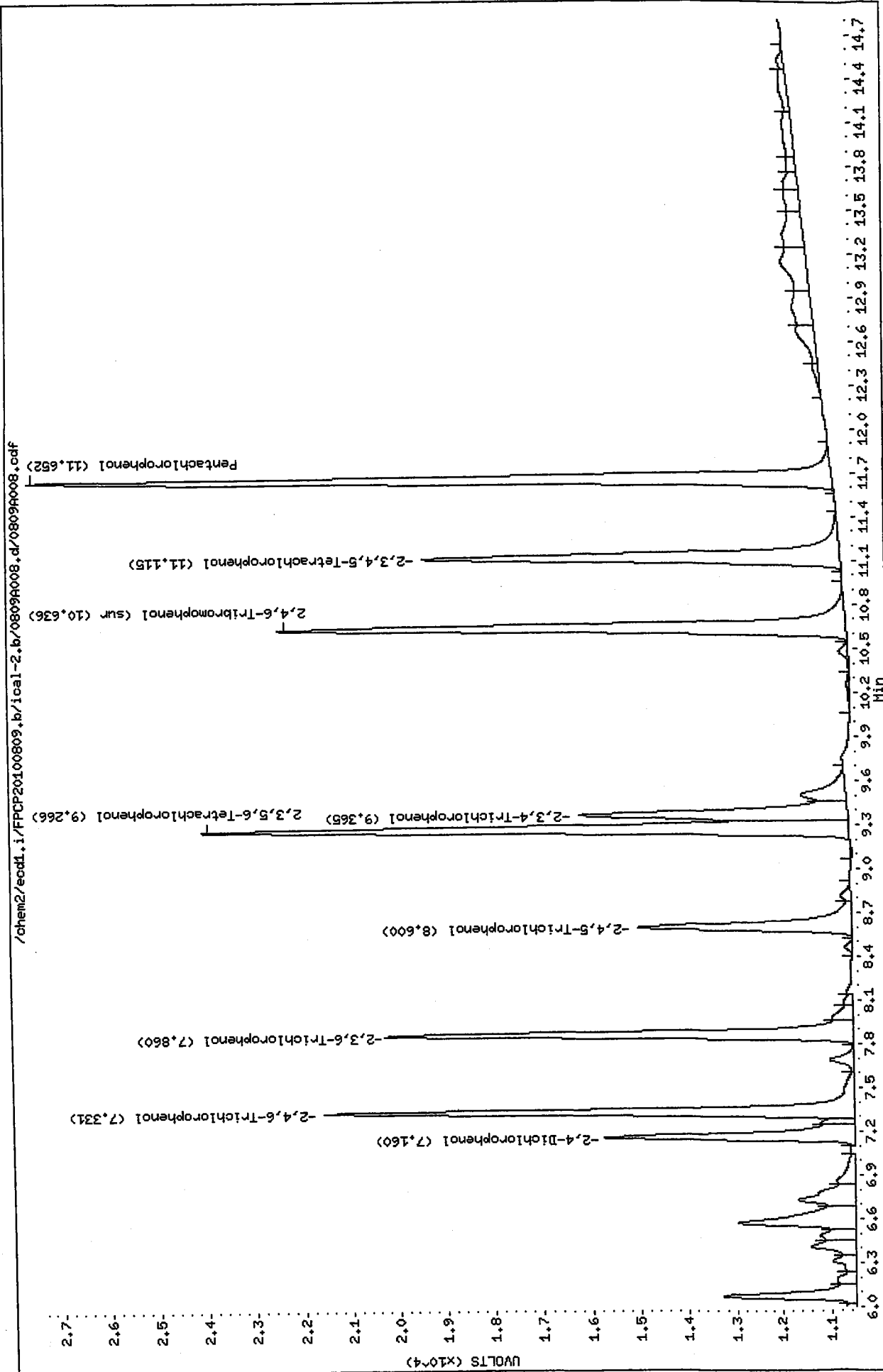
Instrument: ecod1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A008.d
Date: 09-AUG-2010 13:23
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



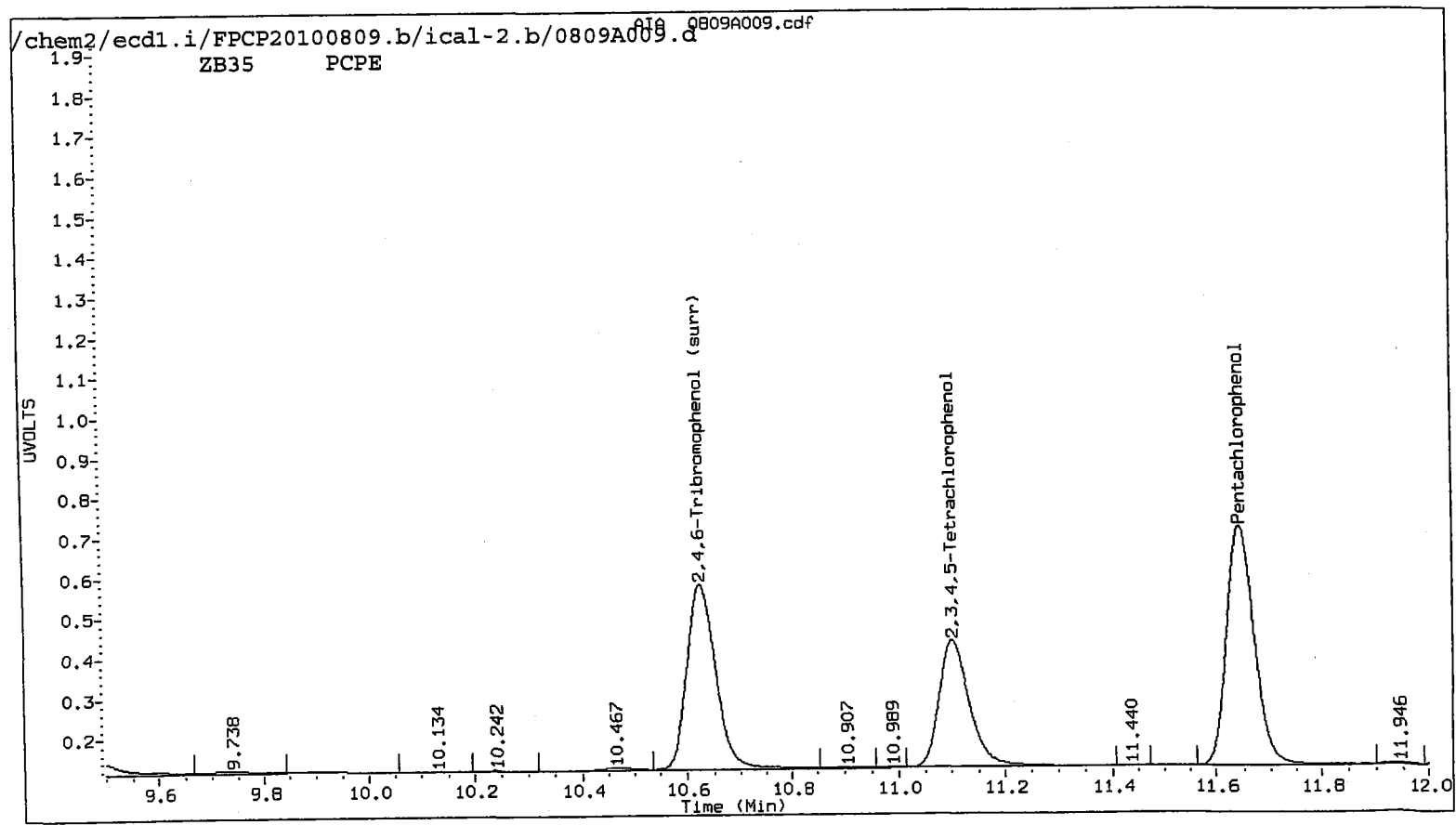
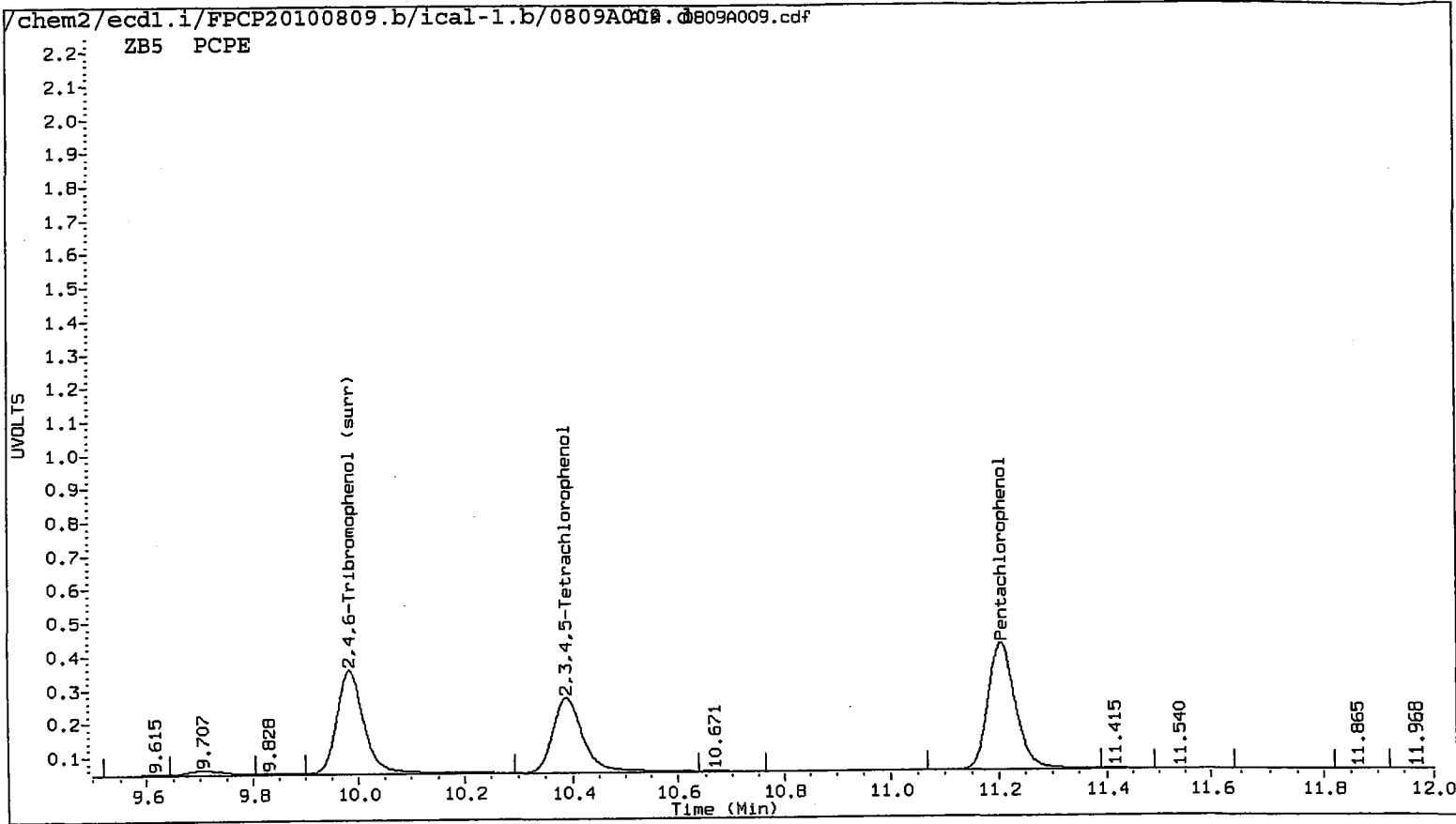
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A009.d ARI ID: PCPE
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A009.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:43
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col Shift Response	ZB35 Col Shift Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.206	-0.013 684285	11.645 -0.013 1025332	49.0326	44.6545	9.3	Pentachlorophenol
7.259	-0.005 376941	7.327 -0.006 561100	49.0547	44.9434	8.7	2,4,6-Trichlorophenol
7.611	-0.008 401238	7.855 -0.009 556890	49.3933	44.8796	9.6	2,3,6-Trichlorophenol
8.212	-0.030 214503	8.586 -0.029 278412	42.4967	49.1247	14.5	2,4,5-Trichlorophenol
8.760	-0.032 273728	9.351 -0.029 376624	40.0123	48.9147	20.0	2,3,4-Trichlorophenol
8.990	-0.017 594124	9.256 -0.021 833297	42.1197	45.0070	6.6	2,3,5,6-Tetrachlorophenol
10.389	-0.024 444734	11.103 -0.023 639912	48.8325	43.8575	10.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009 204471	7.153 -0.013 267768	486.7918	490.3559	0.7	2,4-Dichlorophenol
9.984	-0.018 559983	10.626 -0.020 861309	49.4	46.1	6.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

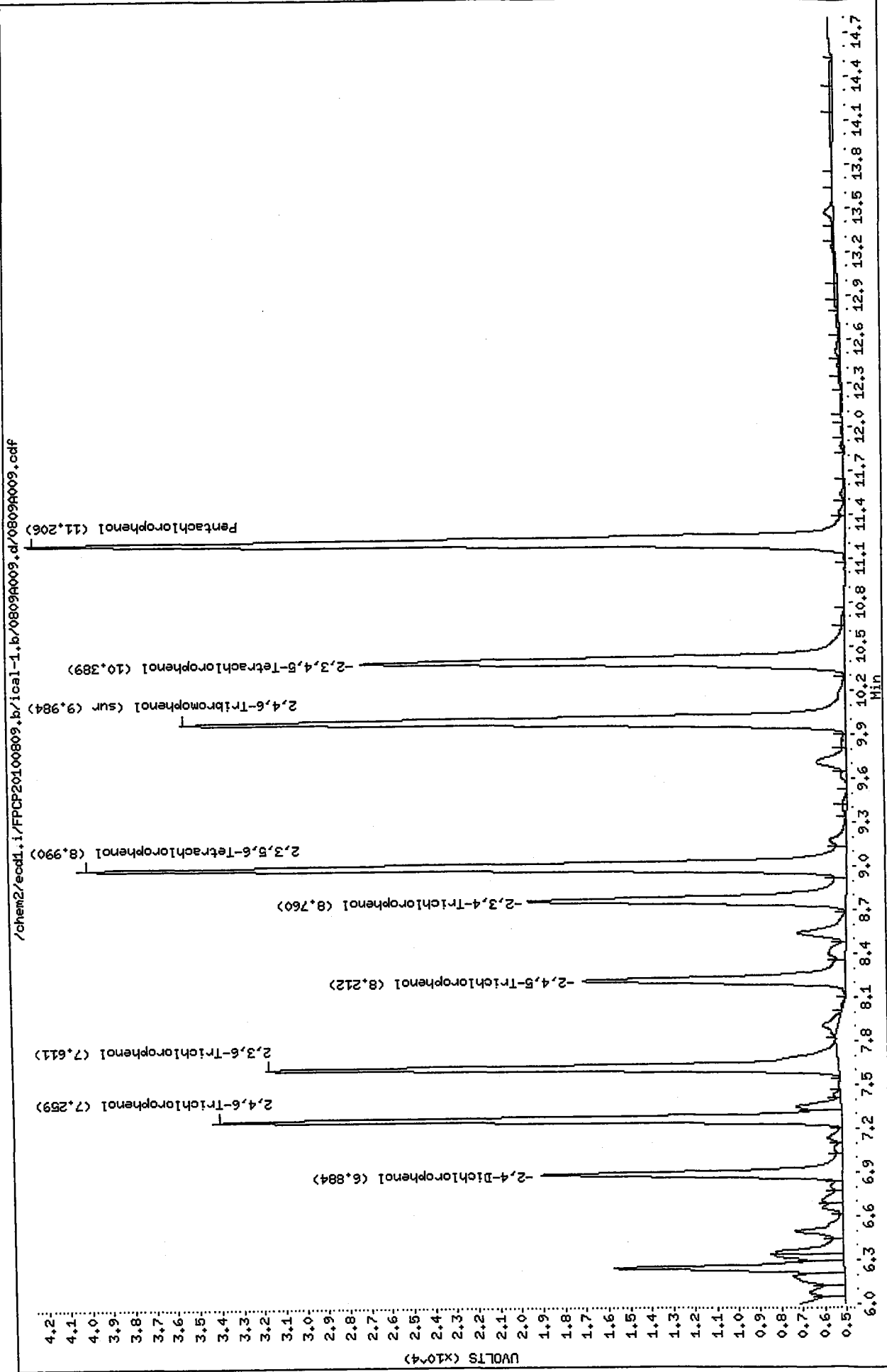
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	197.7	184.6



Data File: /chem2/eod1.i/FPCP20100809.b/ical-1.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB5

Instrument: eod1.i

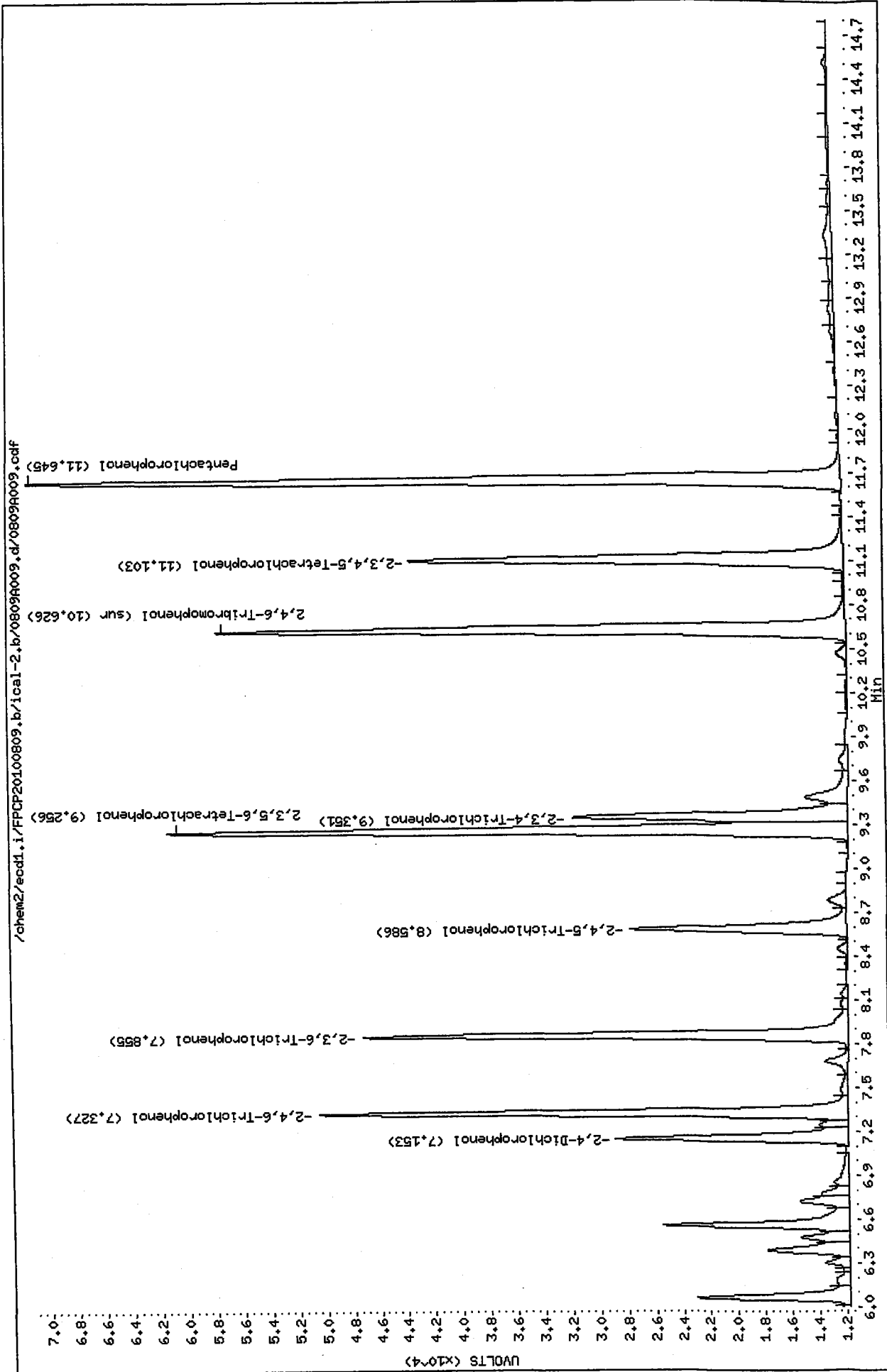
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column Phase: ZB35

Instrument: eccl.i

Operator: ar
Column diameter: 0.53



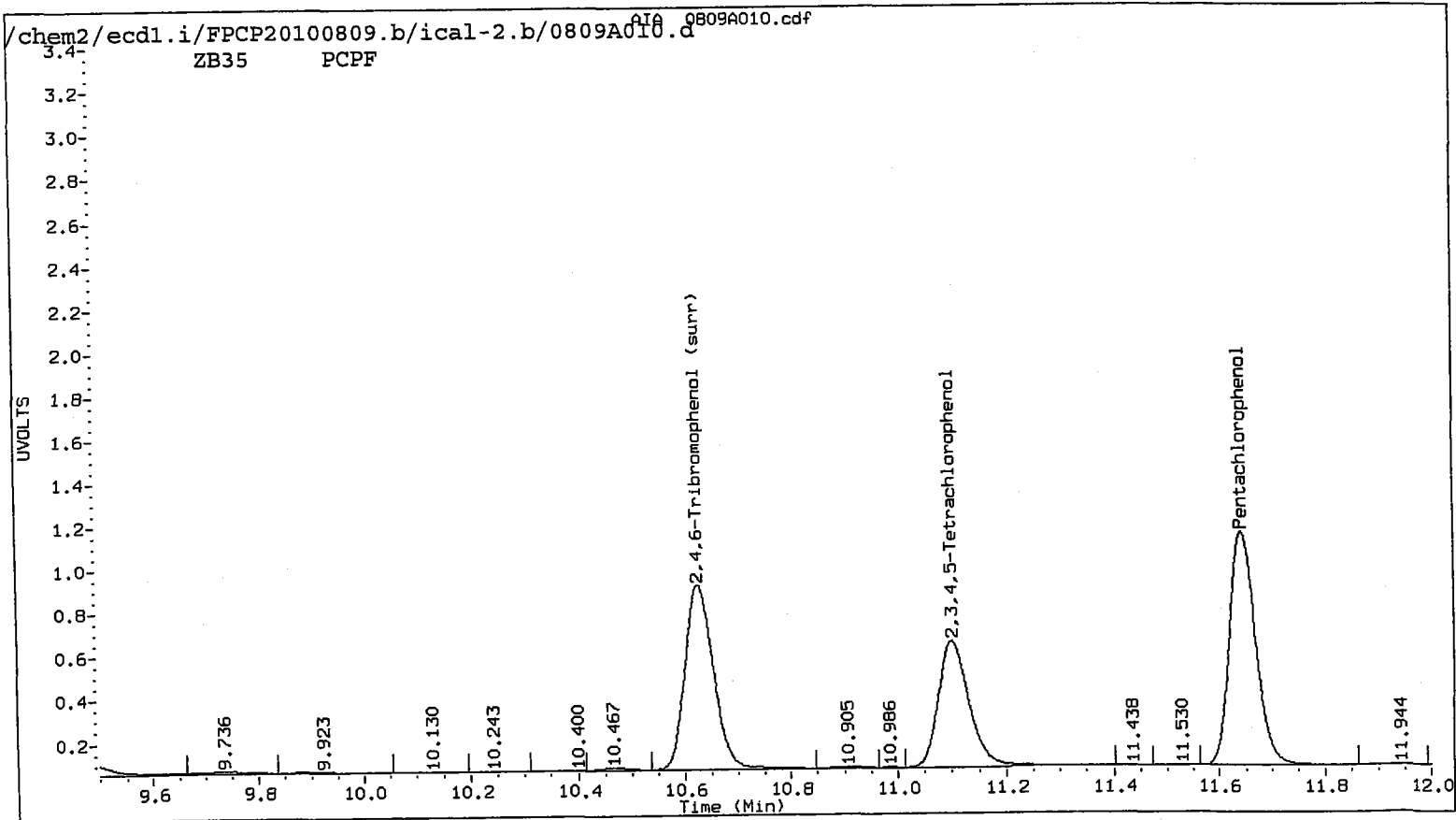
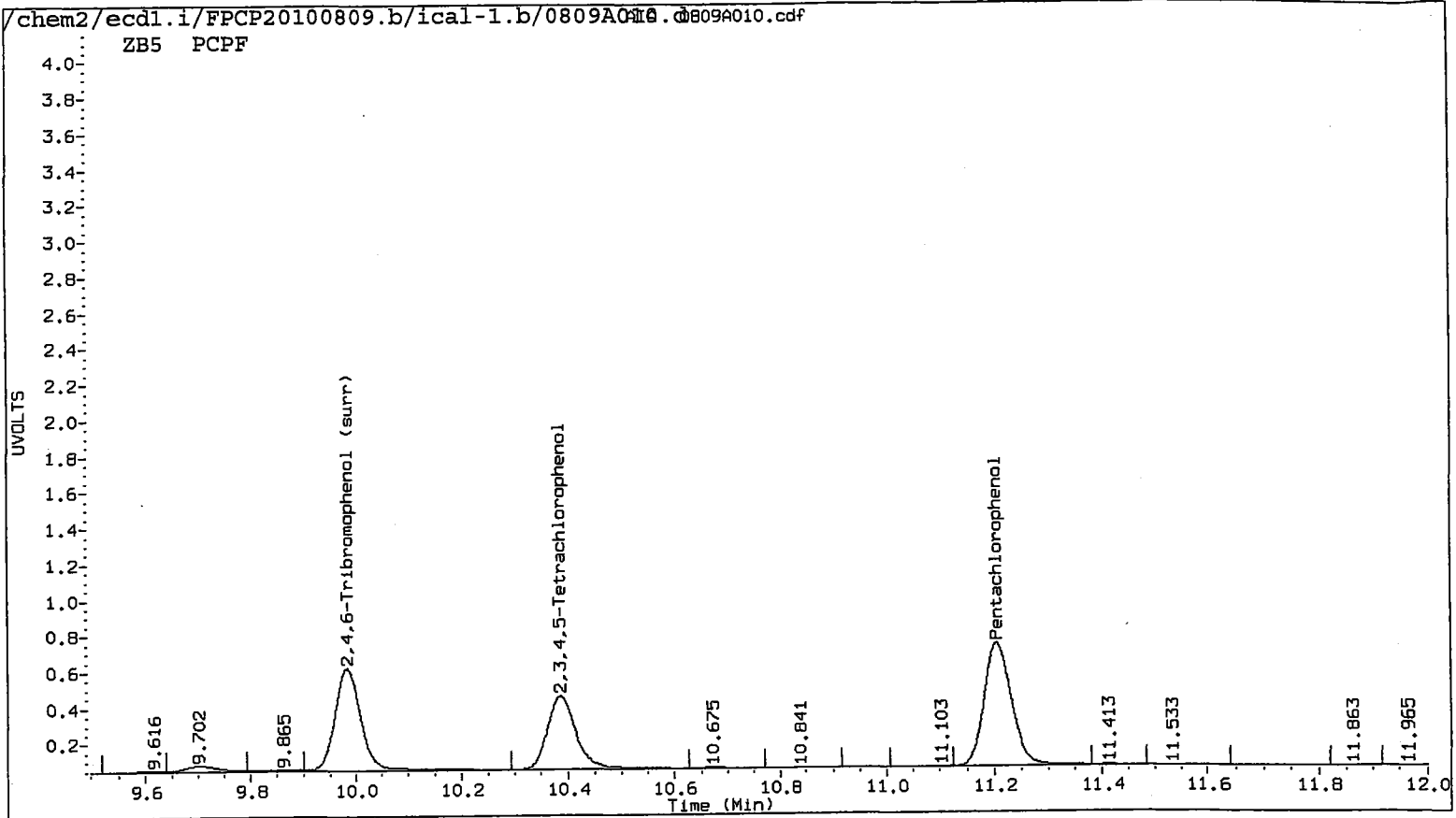
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A010.d ARI ID: PCPF
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A010.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:03
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col		ZB35 Col		ZB-5	ZB35	RPD	Compound	
	Shift	Response	RT	Shift	Response	on col			on col
11.206	-0.013	1196534	11.646	-0.012	1836826	100.2949	79.9961	22.5	Pentachlorophenol
7.260	-0.004	665977	7.328	-0.005	1007057	100.2742	80.6640	21.7	2,4,6-Trichlorophenol
7.612	-0.007	716085	7.856	-0.008	1010769	100.1734	81.4576	20.6	2,3,6-Trichlorophenol
8.209	-0.033	362686	8.584	-0.031	489569	71.8542	100.2604	33.0	2,4,5-Trichlorophenol
8.756	-0.036	505263	9.349	-0.031	666942	73.8571	100.3206	30.4	2,3,4-Trichlorophenol
8.990	-0.017	1055773	9.257	-0.020	1529812	74.8477	82.6263	9.9	2,3,5,6-Tetrachloropheno
10.387	-0.026	762767	11.103	-0.023	1154091	100.3602	79.0976	23.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009	341711	7.153	-0.013	457854	1004.0557	1002.7434	0.1	2,4-Dichlorophenol
9.983	-0.019	994034	10.627	-0.019	1608339	100.2	86.2	15.1	2,4,6-Tribromophenol (surr

PERCENT RECOVERY

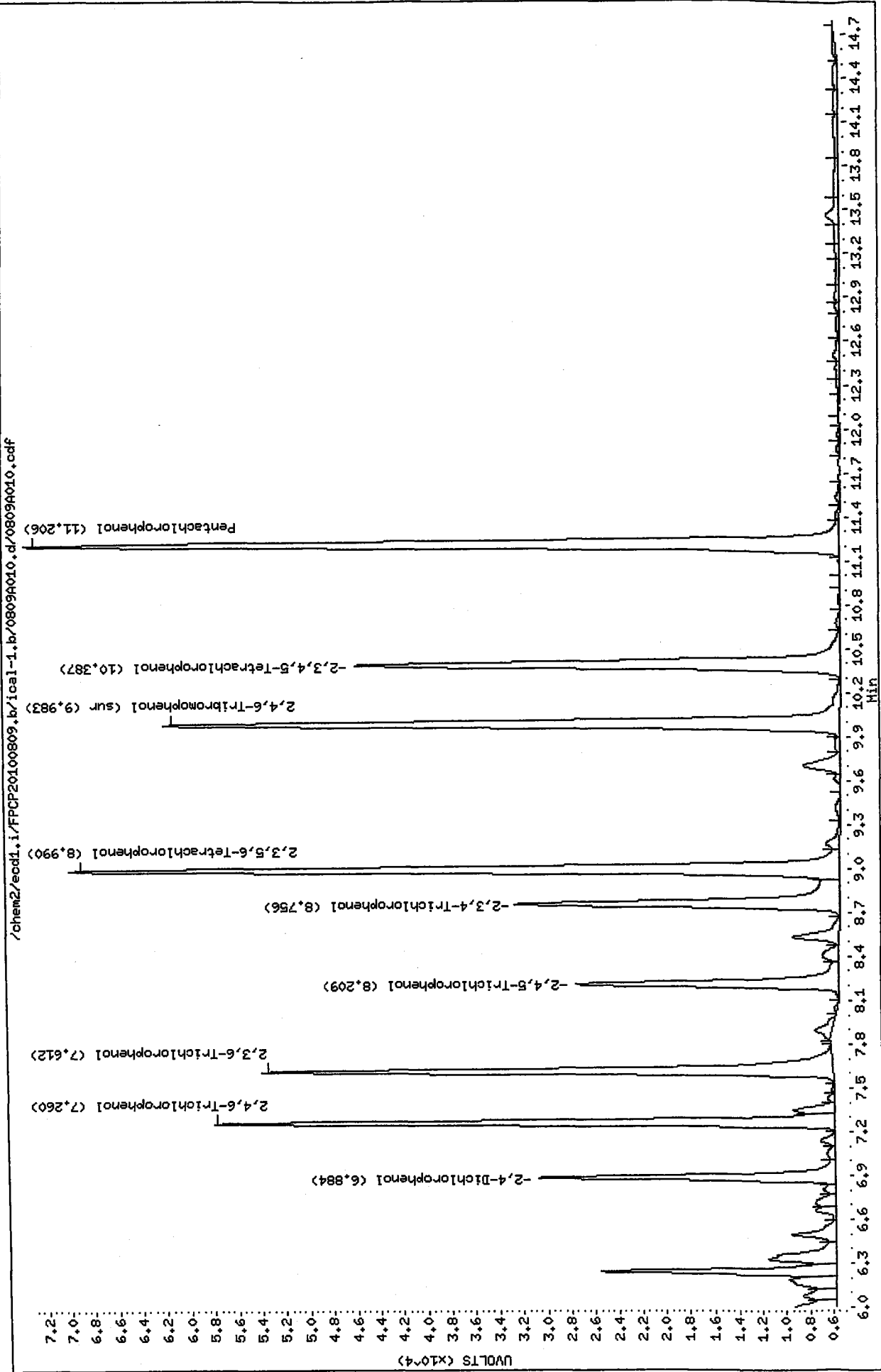
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	400.8	344.6



Data File: /chem2/eod1.i/FFCP20100809.b/ical-1.b/0809A010.d
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB5

Instrument: eod1.i

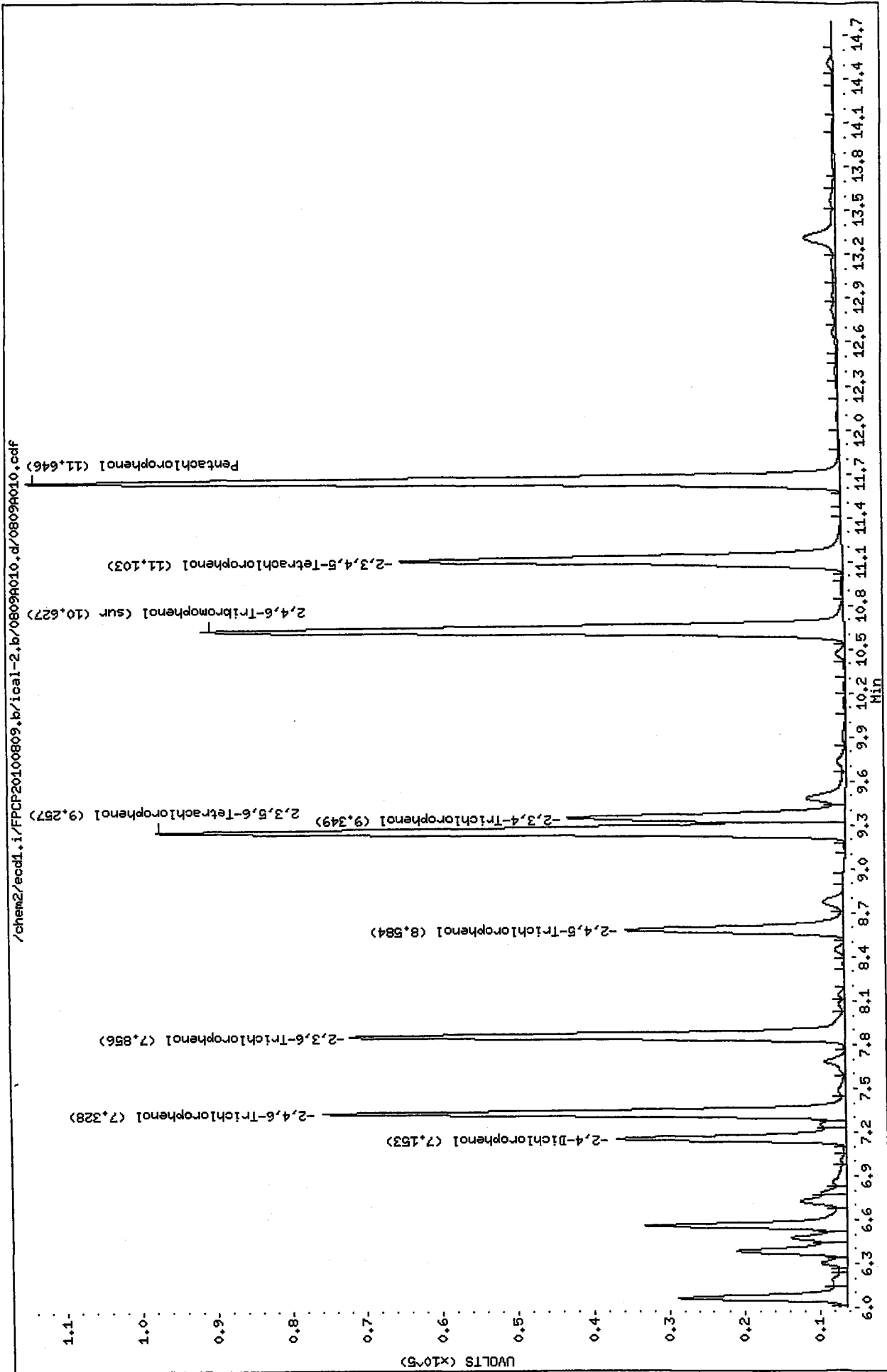
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCP20100809,b/ical-2,b/0809A010.d
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



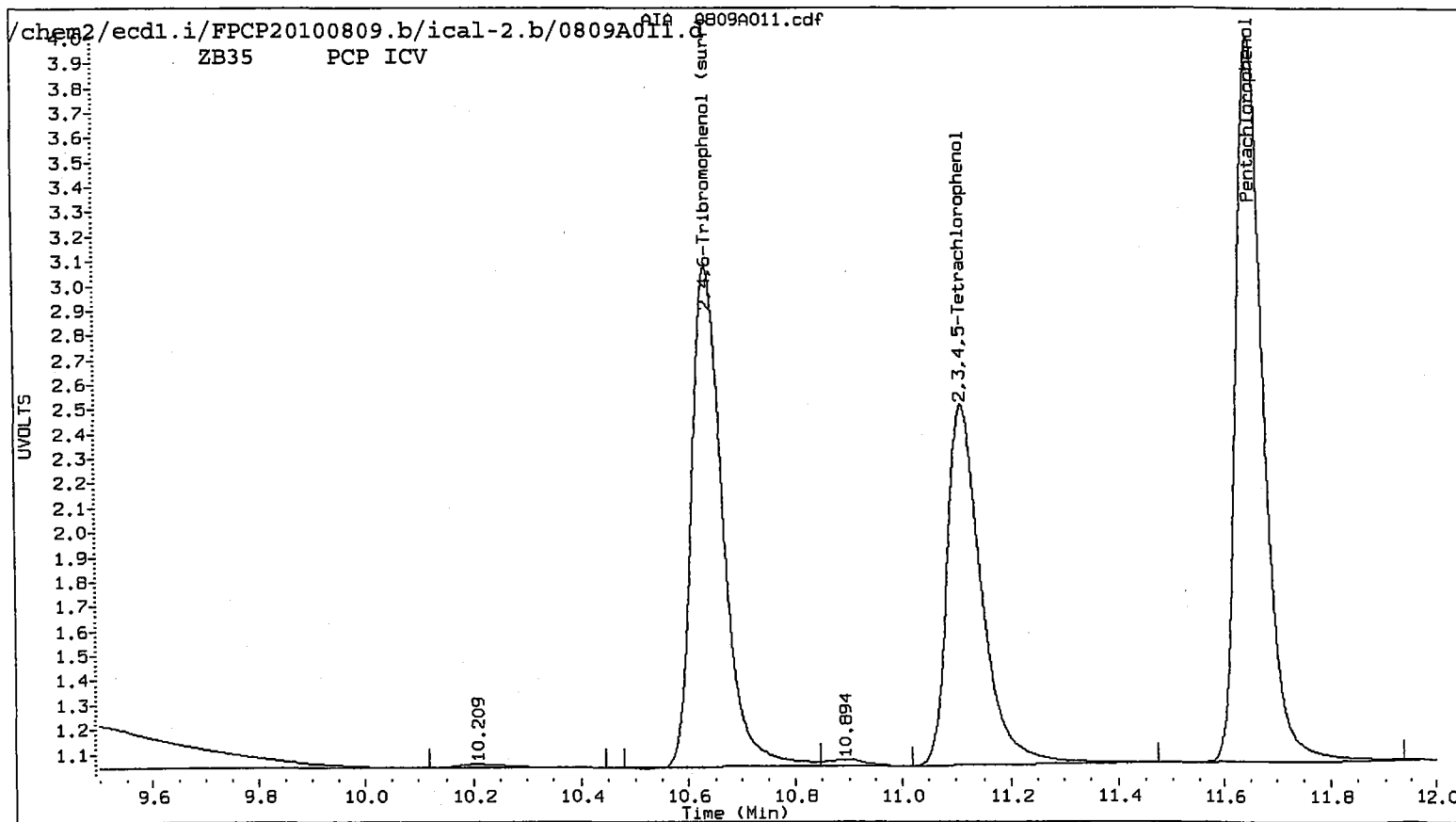
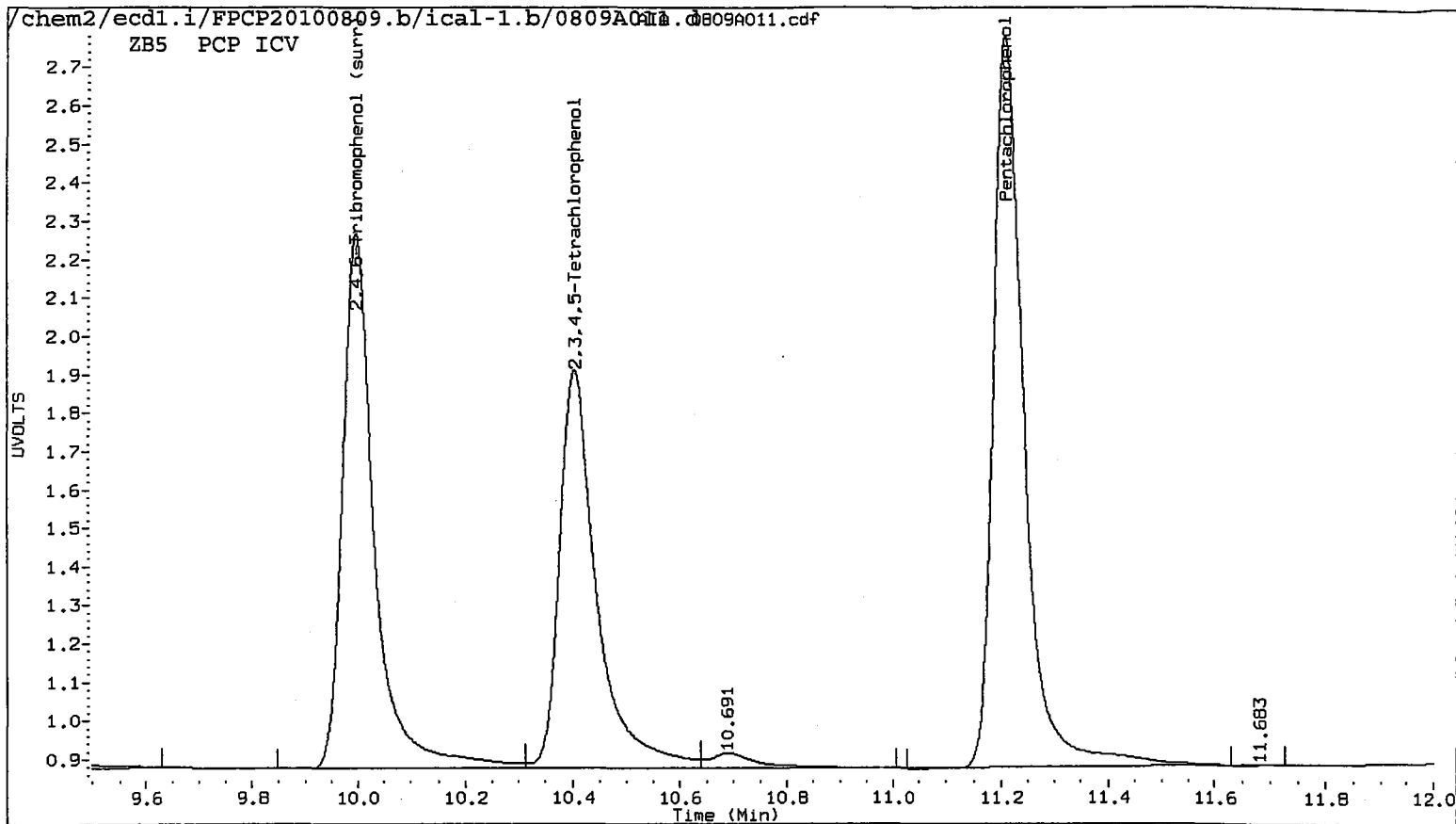
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/ical-1.b/0809A011.d ARI ID: PCP ICV
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/ical-2.b/0809A011.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:23
 Compound Sublist: all Report Date: 08/12/2010 19:15
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.215	-0.004	379790	11.652	-0.006	529883	24.4673	23.0771	5.8	Pentachlorophenol
7.262	-0.002	205092	7.330	-0.003	298811	24.1995	23.9344	1.1	2,4,6-Trichlorophenol
7.616	-0.003	218352	7.859	-0.005	286346	24.7503	23.0765	7.0	2,3,6-Trichlorophenol
8.230	-0.012	122402	8.599	-0.016	148542	24.2499	23.6199	2.6	2,4,5-Trichlorophenol
8.781	-0.011	146955	9.367	-0.013	237744	21.4812	28.5412	28.2	2,3,4-Trichlorophenol
9.000	-0.007	327277	9.265	-0.012	434865	23.2019	23.4874	1.2	2,3,5,6-Tetrachlorophenol
10.405	-0.008	246924	11.114	-0.012	318432	23.7688	21.8243	8.5	2,3,4,5-Tetrachlorophenol
6.888	-0.005	114813	7.158	-0.008	155429	231.5174	251.6722	8.3	2,4-Dichlorophenol
9.997	-0.005	292116	10.636	-0.010	411868	23.5	22.1	6.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

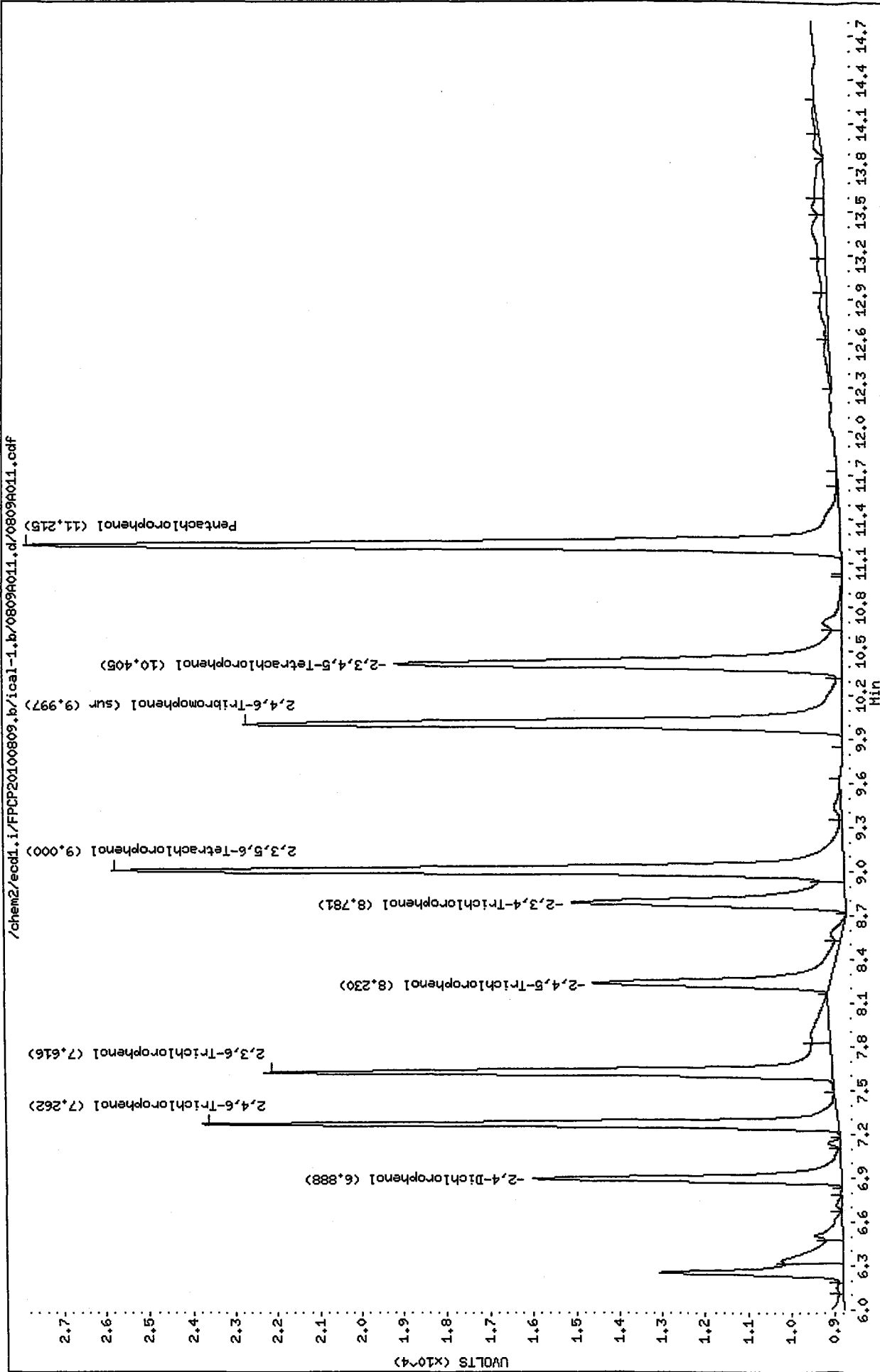
COMPOUND	Col1	Col2
Pentachlorophenol	97.9	92.3
2,4,6-Trichlorophenol	96.8	95.7
2,3,6-Trichlorophenol	99.0	92.3
2,4,5-Trichlorophenol	97.0	94.5
2,3,4-Trichlorophenol	85.9	114.2
2,3,5,6-Tetrachlorophenol	92.8	93.9
2,3,4,5-Tetrachlorophenol	95.1	87.3
2,4-Dichlorophenol	92.6	100.7
2,4,6-TBP (surr)	47.0	44.1



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A011.d
Date: 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB5

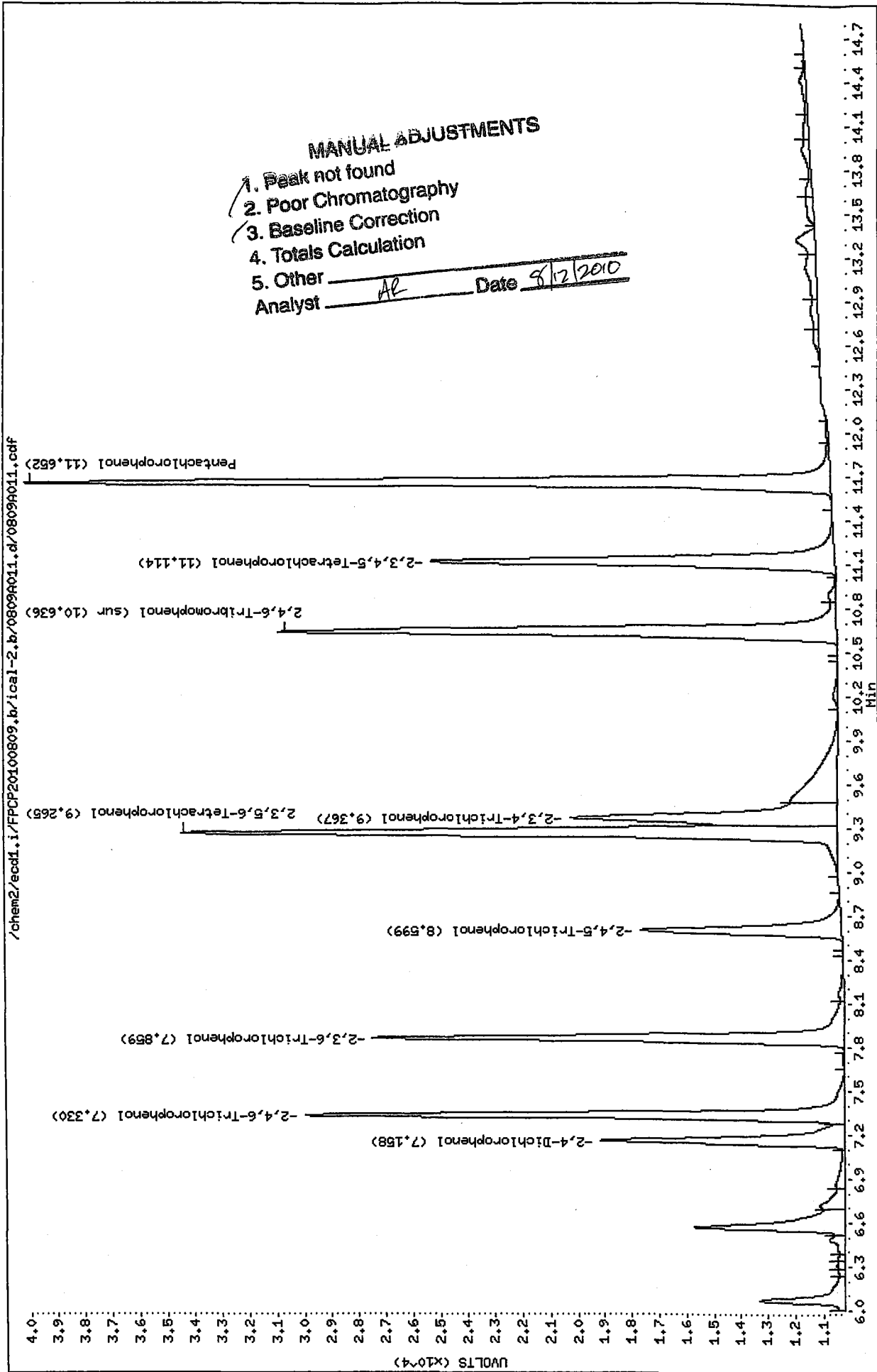
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FFCP20100809.lb/ical-2.b/0809A011.d
Date : 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB35

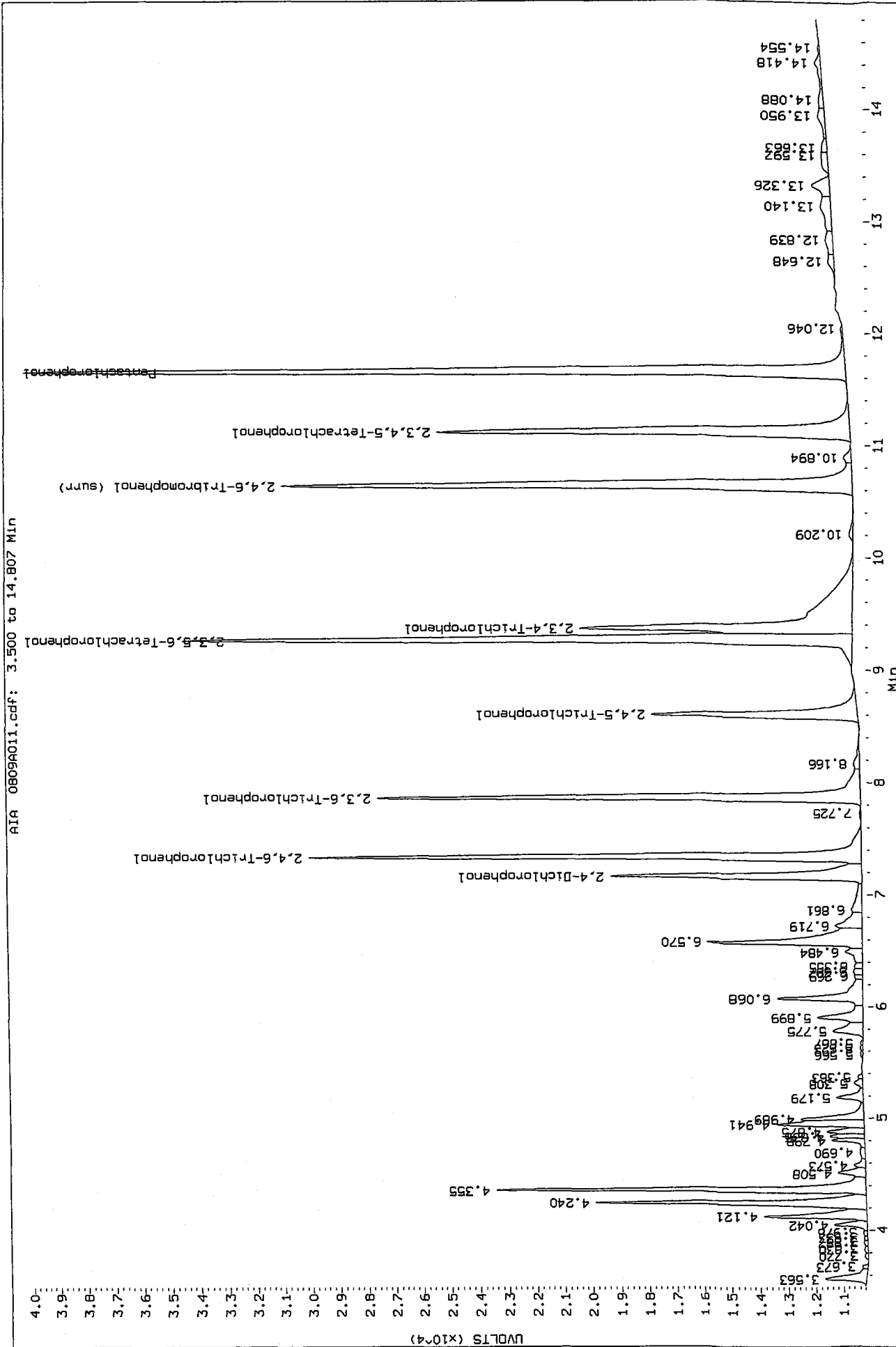
Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other _____
Analyst AR Date 8/12/2010

Data File: /chem2/ecdl1/TFPCP20100809.b/1cal-2.b/0809A011.d/0809A011.cdf
 Injection Date: 09-AUG-2010 14:23
 Instrument: ecdl1
 Client Sample ID:

Before AR 8/12/2010



RK21 : 00299

**PCP/Chlorophenols Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RK21, RK89

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 9/10/2010

Analysis: PCP

Analyst: VZ

GC Program: PCPFAST.M

Column No: 150608/14846

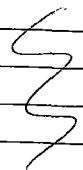
Column Type: 235/35

Instrument Tune (.U or .CT.): NA

EM Voltage: NA

Calibration File: FPCP20100809.b

Curve Date: _____

IS/SS	Ical/Ccal	LCS/ICV
	1663-2 & 1739-1	1703-2 & 1731-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0910-1.b

Inject	Date/Time	Filename	DF	LabID	ClientID
1	10-SEP-2010 15:18	0910A001.d	1	RINSE	
2	10-SEP-2010 15:38	0910A002.d	1	RINSE	
3	10-SEP-2010 15:58	0910A003.d	1	PCPCCAL	
4	10-SEP-2010 16:18	0910A004.d	1	RK21MBS1	RK21MBS1
5	10-SEP-2010 16:38	0910A005.d	1	RK21LCSS1	RK21LCSS1
6	10-SEP-2010 16:58	0910A006.d	1	RK21A	MW15-50-55-082310
7	10-SEP-2010 17:18	0910A007.d	1	RK21B	MW16-39-40-082410
8	10-SEP-2010 17:38	0910A008.d	1	RK21C	MW16-39-40-082410-D
9	10-SEP-2010 17:58	0910A009.d	1	RK21CMS	MW16-39-40-0824 MS
10	10-SEP-2010 18:18	0910A010.d	1	RK21CMSD	MW16-39-40-0824 MSD
11	10-SEP-2010 18:38	0910A011.d	1	RK84A	PSB21-0-0.5-082510
12	10-SEP-2010 18:58	0910A012.d	1	RK84B	PSB21-1.5-2-082510
13	10-SEP-2010 19:18	0910A013.d	1	RK84C	PSB21-2-4-082510
14	10-SEP-2010 19:38	0910A014.d	1	PCPCCAL	
15	10-SEP-2010 19:58	0910A015.d	1	PCPCCAL	
16	10-SEP-2010 20:18	0910A016.d	1	RK84D	PSB21-4-6-082510
17	10-SEP-2010 20:38	0910A017.d	1	RK84E	PSB21-6-7-082510
18	10-SEP-2010 20:58	0910A018.d	1	RK84F	PSB21-9-11-082510
19	10-SEP-2010 21:18	0910A019.d	1	RK84H	PSB19-0-1-082510
20	10-SEP-2010 21:38	0910A020.d	1	RK84I	PSB19-1-2-082510
21	10-SEP-2010 21:58	0910A021.d	1	RK84J	PSB19-2-4-082510
22	10-SEP-2010 22:18	0910A022.d	1	RK84K	PSB19-13-15-082510
23	10-SEP-2010 22:37	0910A023.d	1	RK84KMS	PSB19-13-15-082 MS
24	10-SEP-2010 22:57	0910A024.d	1	RK84KMSD	PSB19-13-15-082 MSD
25	10-SEP-2010 23:17	0910A025.d	1	RK89A	MW17-50-51-082610
26	10-SEP-2010 23:37	0910A026.d	1	PCPCCAL	
27	10-SEP-2010 23:57	0910A027.d	1	PCPCCAL	

AR 9/14/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



GC Analyst Notes / Corrective Action Log

ARI Project ID: RK21 Client ID: Floyd-Snyder

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): NA

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 8/9/10 Analysis Start: 9/10/2010

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	<u>YES</u> / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	<u>YES</u> / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 9/15/2010

Reviewer: [Signature] Date: 9/15/10



GC Analyst Notes / Corrective Action Log

ARI Project ID: RK89 Client ID: Floyd-Snyder

ARI SOP: **403S(PCB)** **405S(Herb)** **407S(TPH-D)** **409S(HCID)** **412S(PCP)** **423S(Pest)**
427S(Dir Inj) **428S(EPH)** **432S(EDB)** **Other**

Parameter(s): NA

Instrument:	FID-3A	FID-3B	FID-4A	FID-4B	FID-5	FID-7	FID-8
	FID-9	<u>ECD-1</u>	ECD-3	ECD-4	ECD-5	ECD-6	ECD-7

Dates: Curve: 8/9/10 Analysis Start: 9/10/2010

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	<u>YES</u> / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	<u>YES</u> / NO / NA

JDP

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: /// Date: 9/15/2010

Reviewer: [Signature] Date: 9/15/10

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

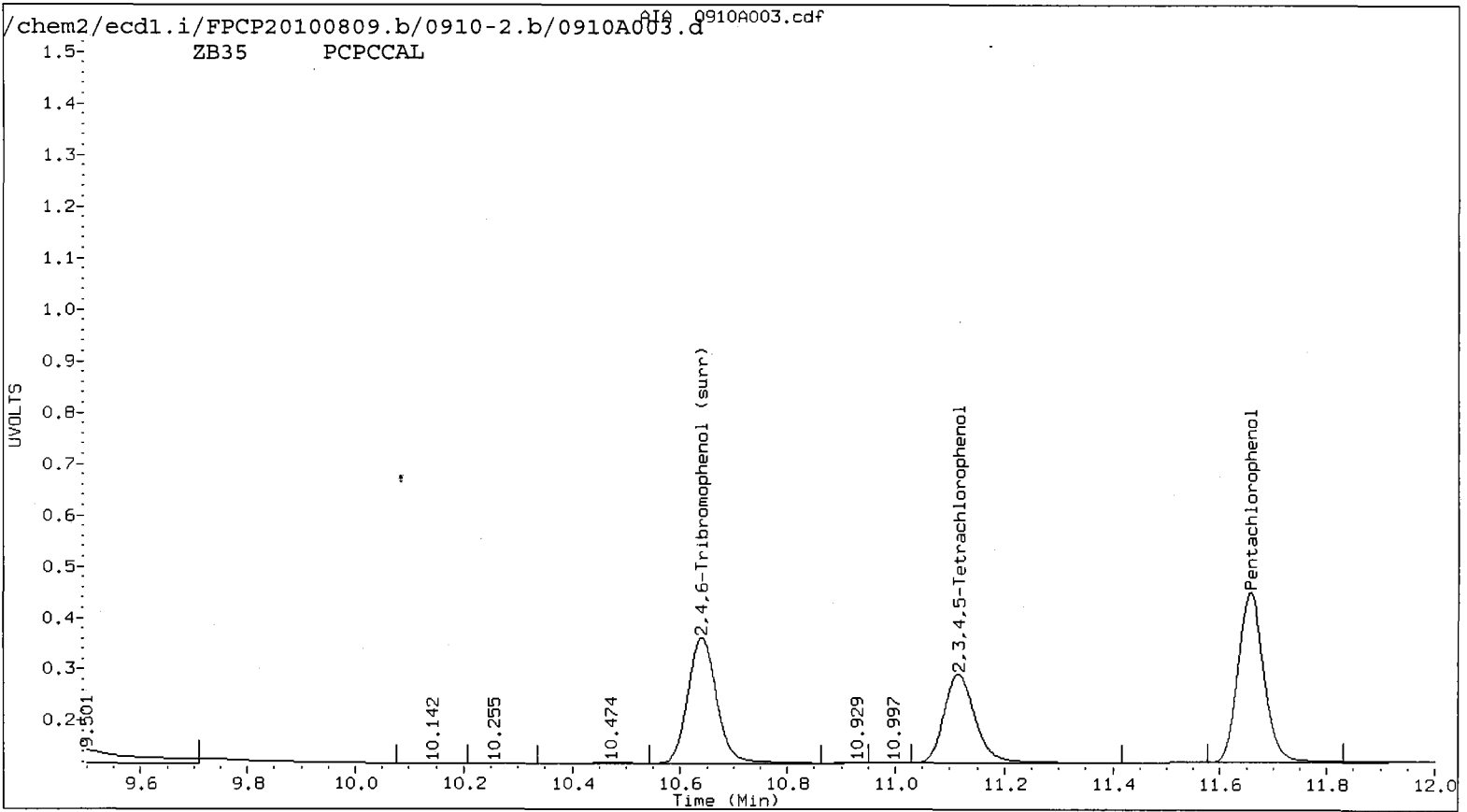
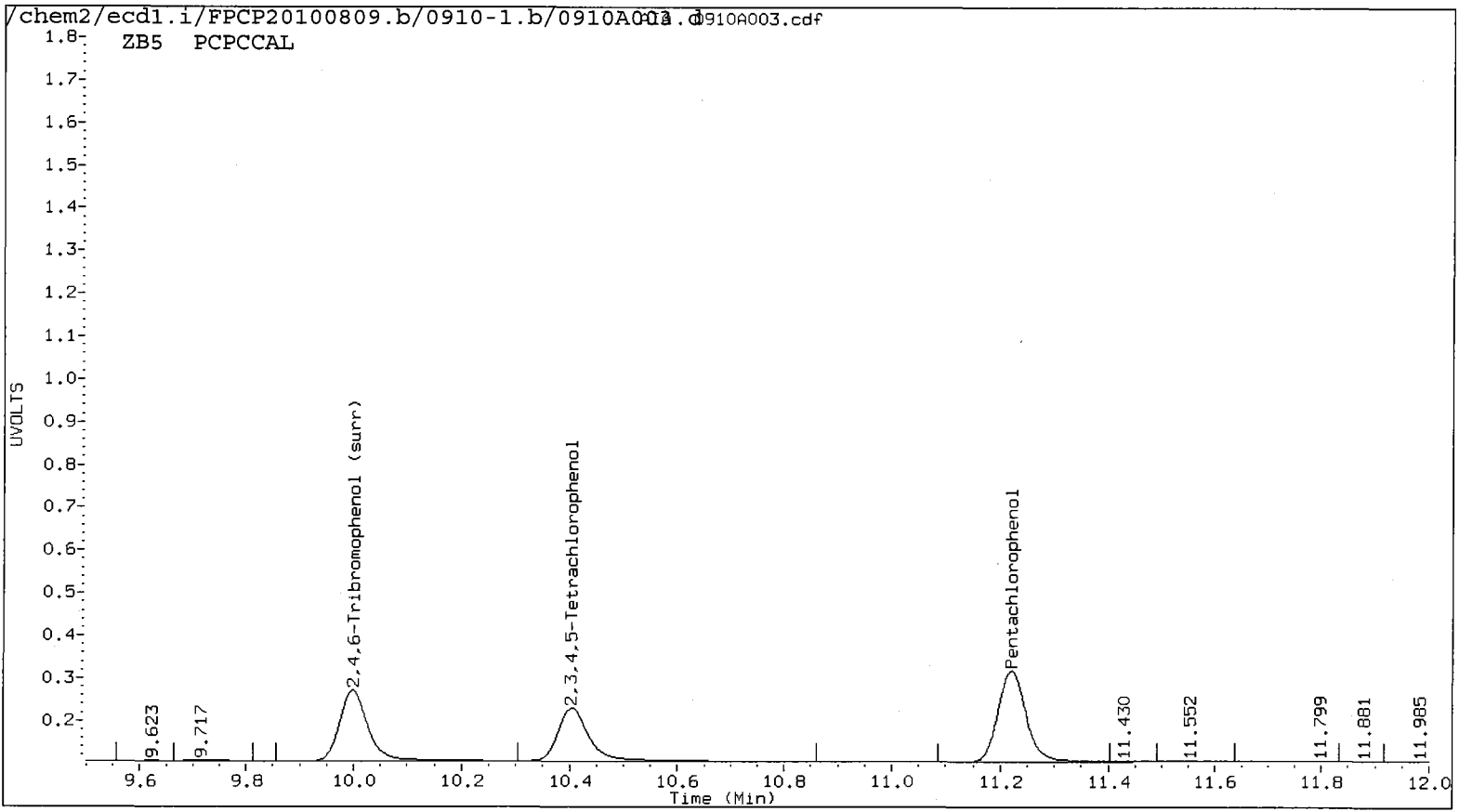
AR 9/14/10

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A003.d ARI ID: PCPCCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A003.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 15:58
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col		ZB35 Col		ZB-5 on col	ZB35 on col	RPD	Compound
	Shift	Response	RT	Response				
11.220	0.001	384518	11.656	-0.002 559762	24.8152	24.3784	1.8	Pentachlorophenol
7.269	0.005	218326	7.337	0.004 315551	25.9653	25.2752	2.7	2,4,6-Trichlorophenol
7.622	0.003	232022	7.865	0.001 294803	26.4690	23.7581	10.8	2,3,6-Trichlorophenol
8.226	-0.016	144391	8.598	-0.017 163827	28.6064	26.3866	8.1	2,4,5-Trichlorophenol
8.775	-0.017	163295	9.364	-0.016 229805	23.8698	27.4591	14.0	2,3,4-Trichlorophenol
9.003	-0.004	344455	9.269	-0.008 474173	24.4198	25.6104	4.8	2,3,5,6-Tetrachlorophenol
10.404	-0.009	258762	11.115	-0.011 345983	25.1181	23.7126	5.8	2,3,4,5-Tetrachlorophenol
6.894	0.001	118049	7.163	-0.003 159411	239.5968	259.3199	7.9	2,4-Dichlorophenol
9.998	-0.004	308175	10.640	-0.006 456327	25.0	24.4	2.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

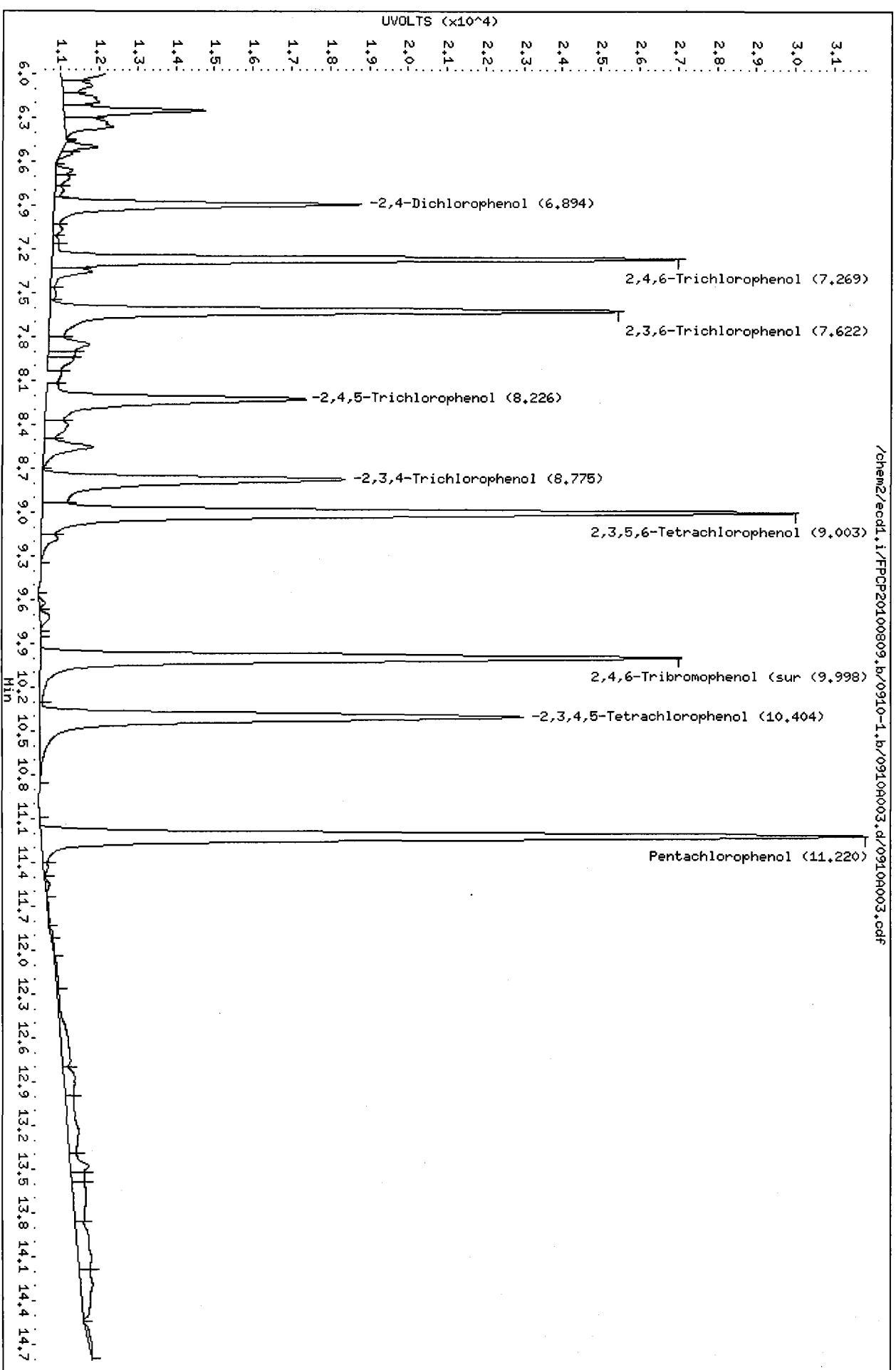
COMPOUND	Col1	Col2
Pentachlorophenol	99.3	97.5
2,4,6-Trichlorophenol	103.9	101.1
2,3,6-Trichlorophenol	105.9	95.0
2,4,5-Trichlorophenol	114.4	105.5
2,3,4-Trichlorophenol	95.5	109.8
2,3,5,6-Tetrachlorophenol	97.7	102.4
2,3,4,5-Tetrachlorophenol	100.5	94.9
2,4-Dichlorophenol	95.8	103.7
2,4,6-TBP (surr)	99.8	97.8



RK21 : 00305

Data File: /chem2/ecdl.i/PCPP20100809.b/0910-1.b/09100003.d
Date: 10-SEP-2010 15:58
Client ID:
Sample Info: PCPPCAL
Purge Volume: 2.0
Column phase: ZBS

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl1.i/FPCP20100809.b/0910-2.b/0910A003.d

Date: 10-SEP-2010 15:58

Client ID:

Sample Info: PCFCCAL

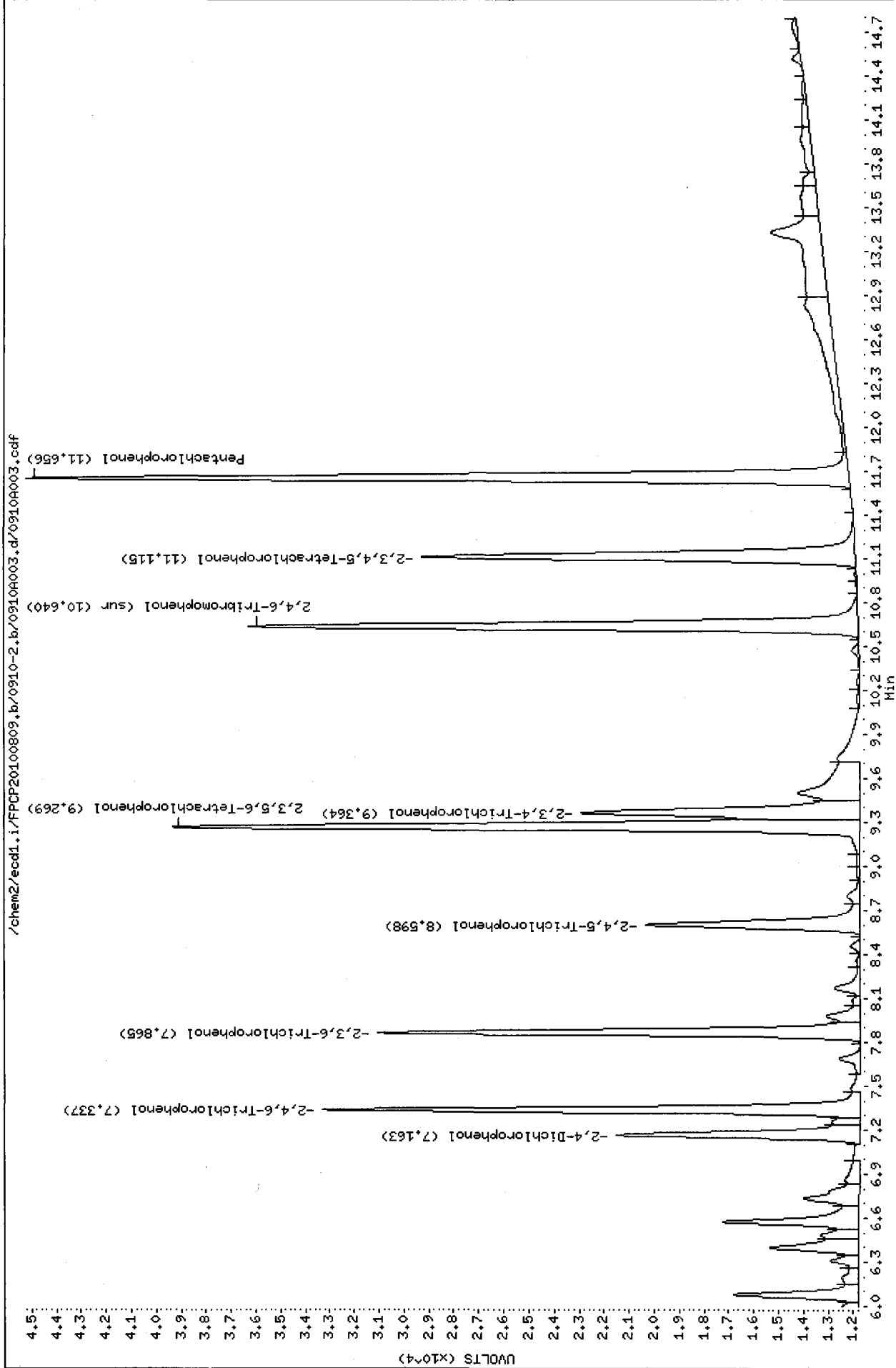
Purge Volume: 2.0

Column phase: ZB35

Instrument: eccl1.i

Operator: ar

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

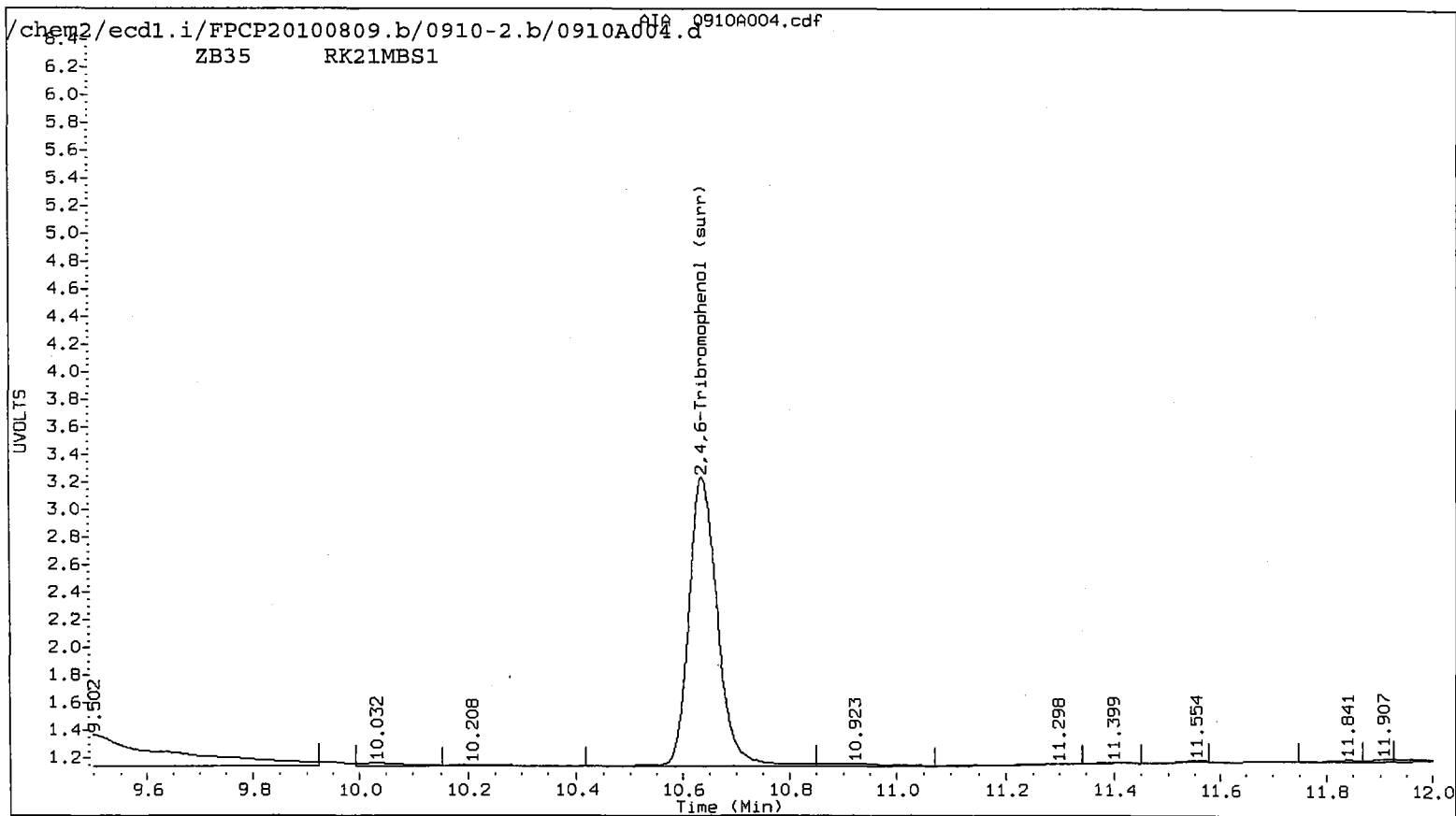
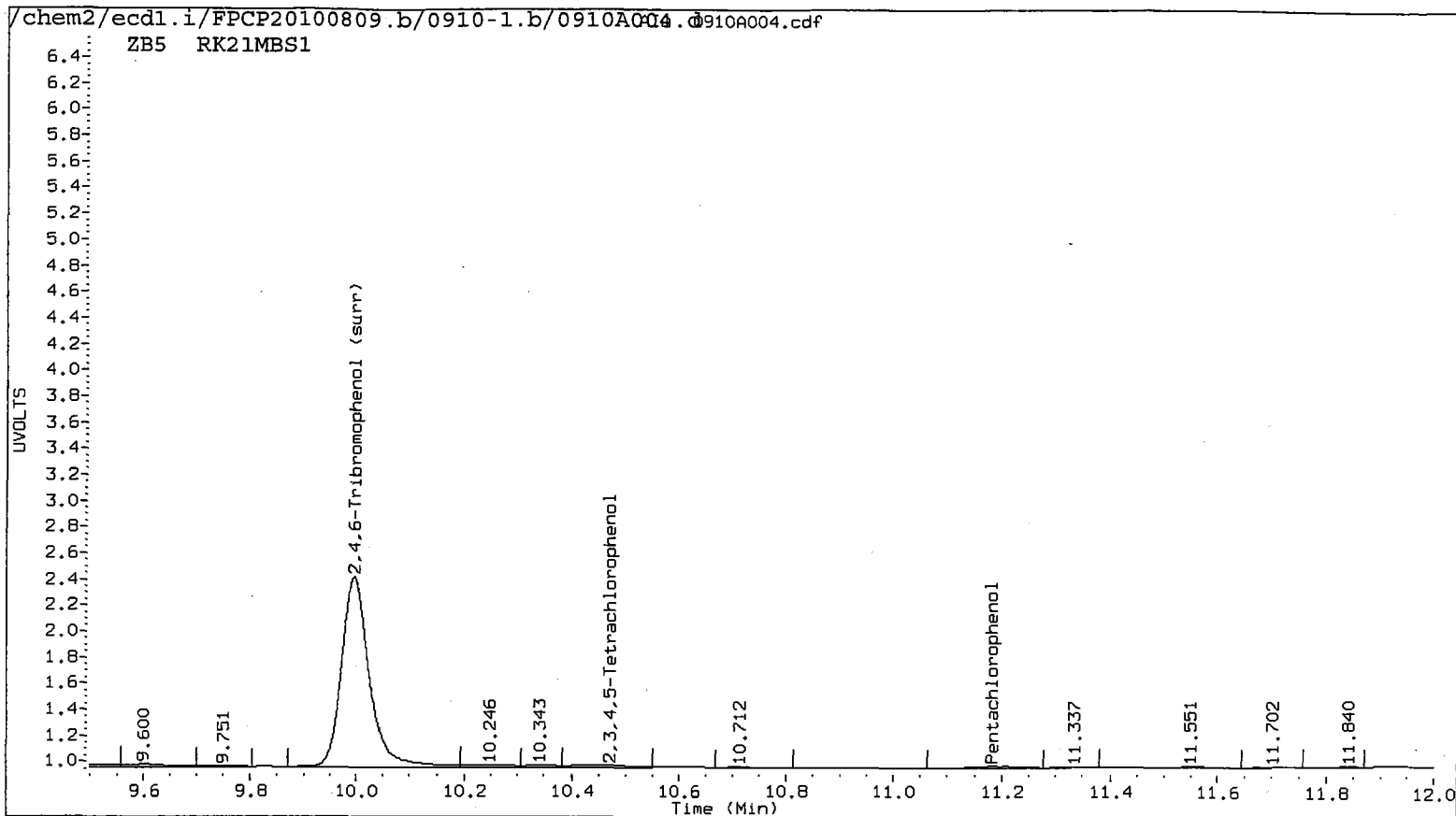
AR 9/13/2010

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A004.d ARI ID: RK21MBS1
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A004.d Client ID: RK21MBS1
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 16:18
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.184	-0.035	4260	----			0.2365	0.0000	---	Pentachlorophenol
7.293	0.029	25592	7.373	0.040	29843	2.6951	2.3904	12.0	2,4,6-Trichlorophenol
7.575	-0.044	5502	7.824	-0.040	6201	0.5612	0.4998	11.6	2,3,6-Trichlorophenol
8.303	0.061	17063	8.627	0.012	1527	3.3805	0.2128	176.3*	2,4,5-Trichlorophenol
-----			-----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.025	0.018	10057	9.268	-0.009	17948	0.7130	0.9694	30.5	2,3,5,6-Tetrachlorophenol
10.470	0.056	7851	-----			0.6273	0.0000	---	2,3,4,5-Tetrachlorophenol
6.914	0.021	6055	7.167	0.001	10928	9.5358	14.7143	42.7*	2,4-Dichlorophenol
9.997	-0.005	271854	10.638	-0.008	395823	21.7	21.2	2.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	86.9	84.8

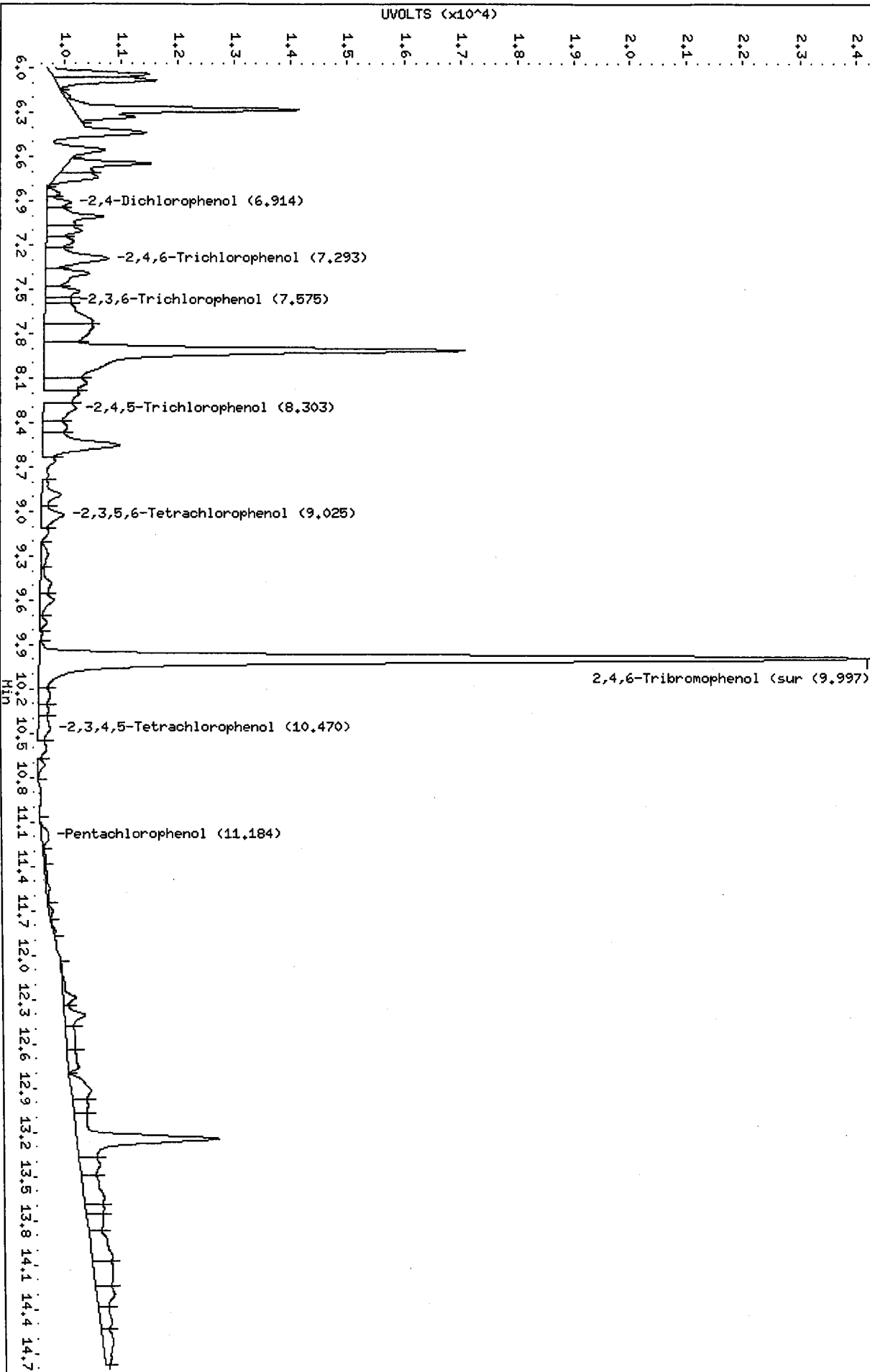


RK21:00309

Data File: /chem2/ecdl.1/FPQPP20100809_b/0910-1_b/0910R004.d
Date: 10-SEP-2010 16:18
Client ID: RK21HBS1
Sample Info: RK21HBS1
Column Phase: ZBS

Instrument: ecdl.1
Operator: ar
Column diameter: 0.53

/chem2/ecdl.1/FPQPP20100809_b/0910-1_b/0910R004.d/0910R004.cdf



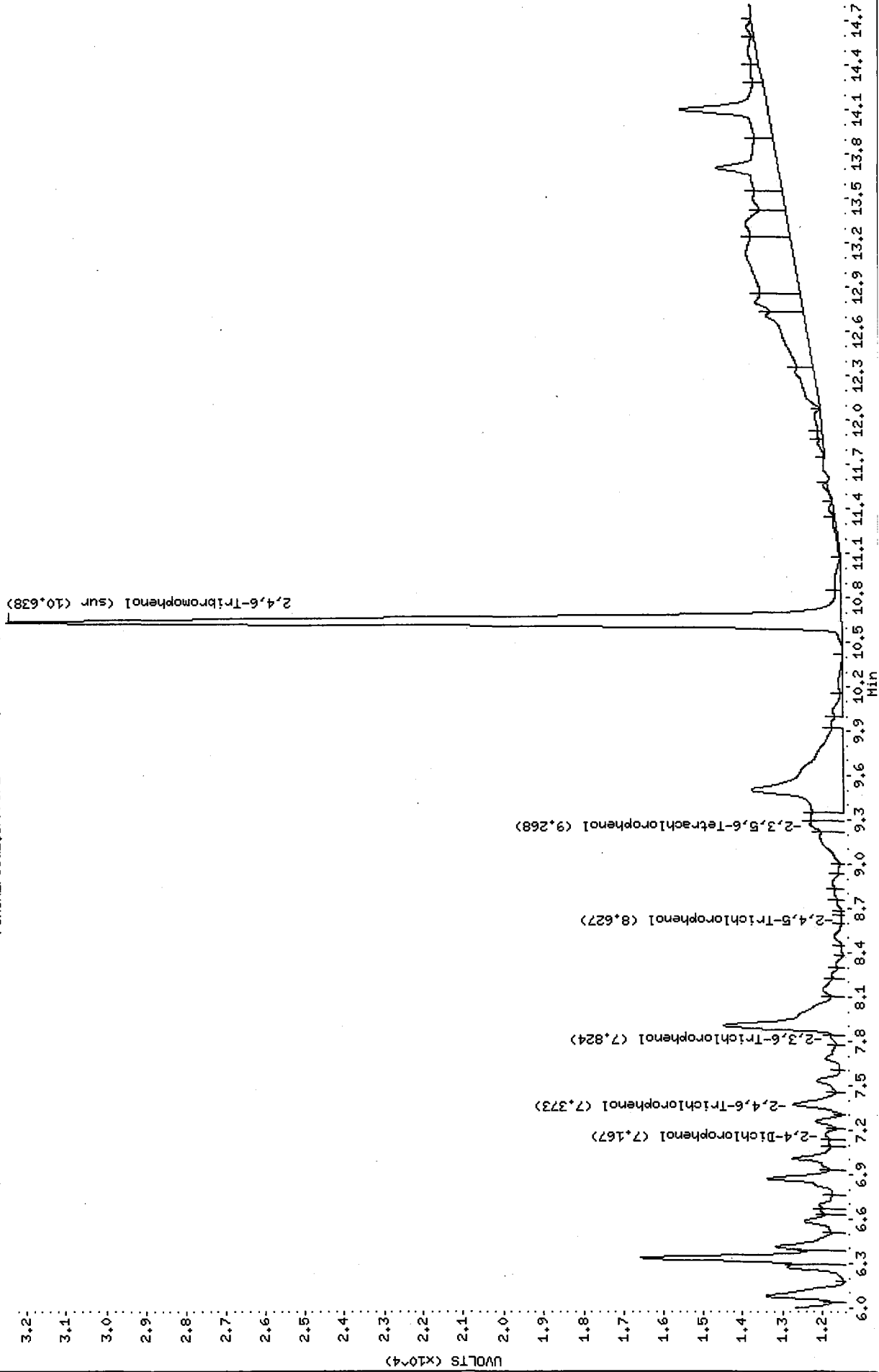
Data File: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A004.d
Date : 10-SEP-2010 16:18
Client ID: RK21MBS1
Sample Info: RK21MBS1

Instrument: eccl.i

Operator: ar
Column diameter: 0.53

Column phase: ZR35

/chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A004.d/0910A004.cdf



Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

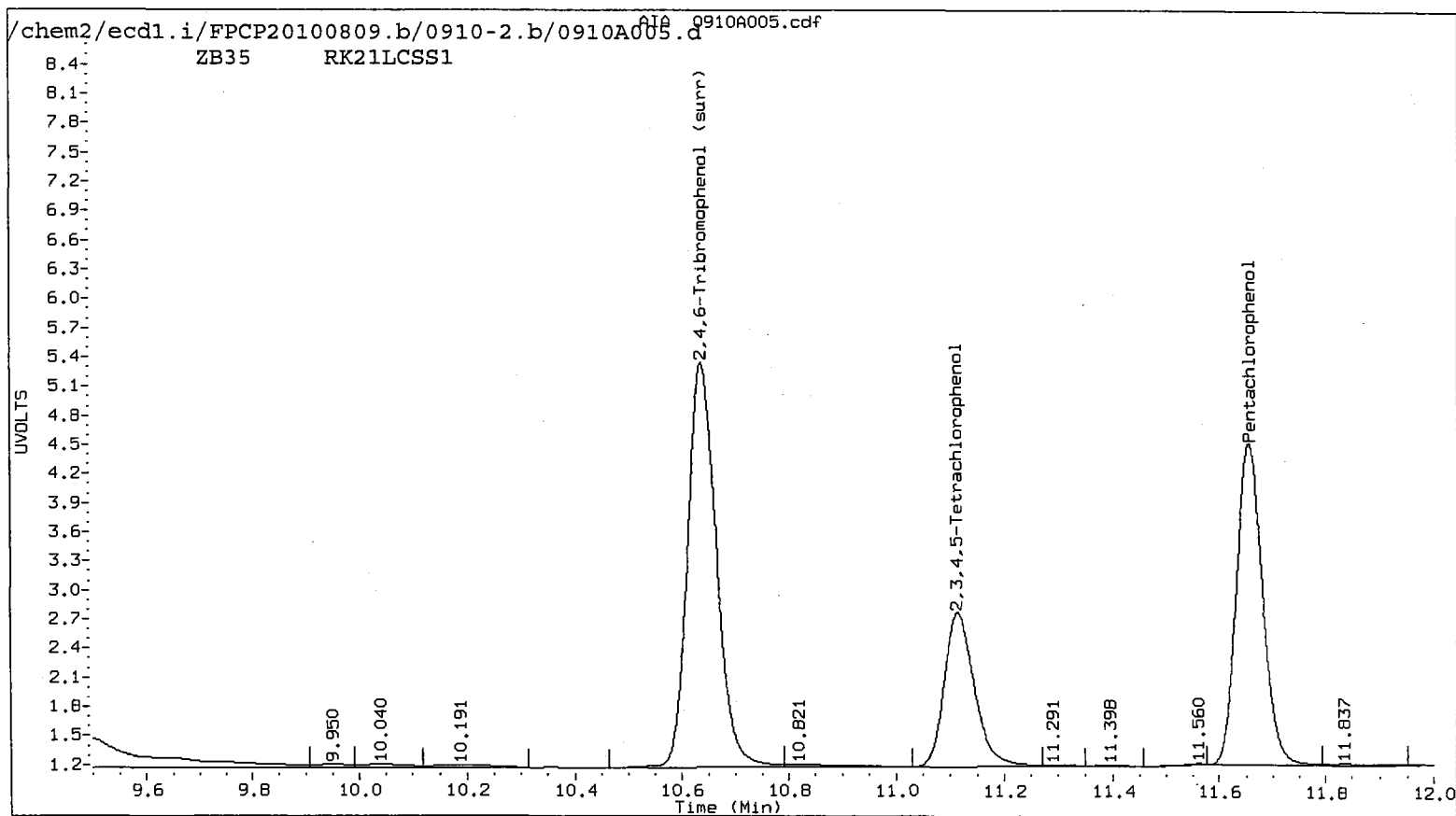
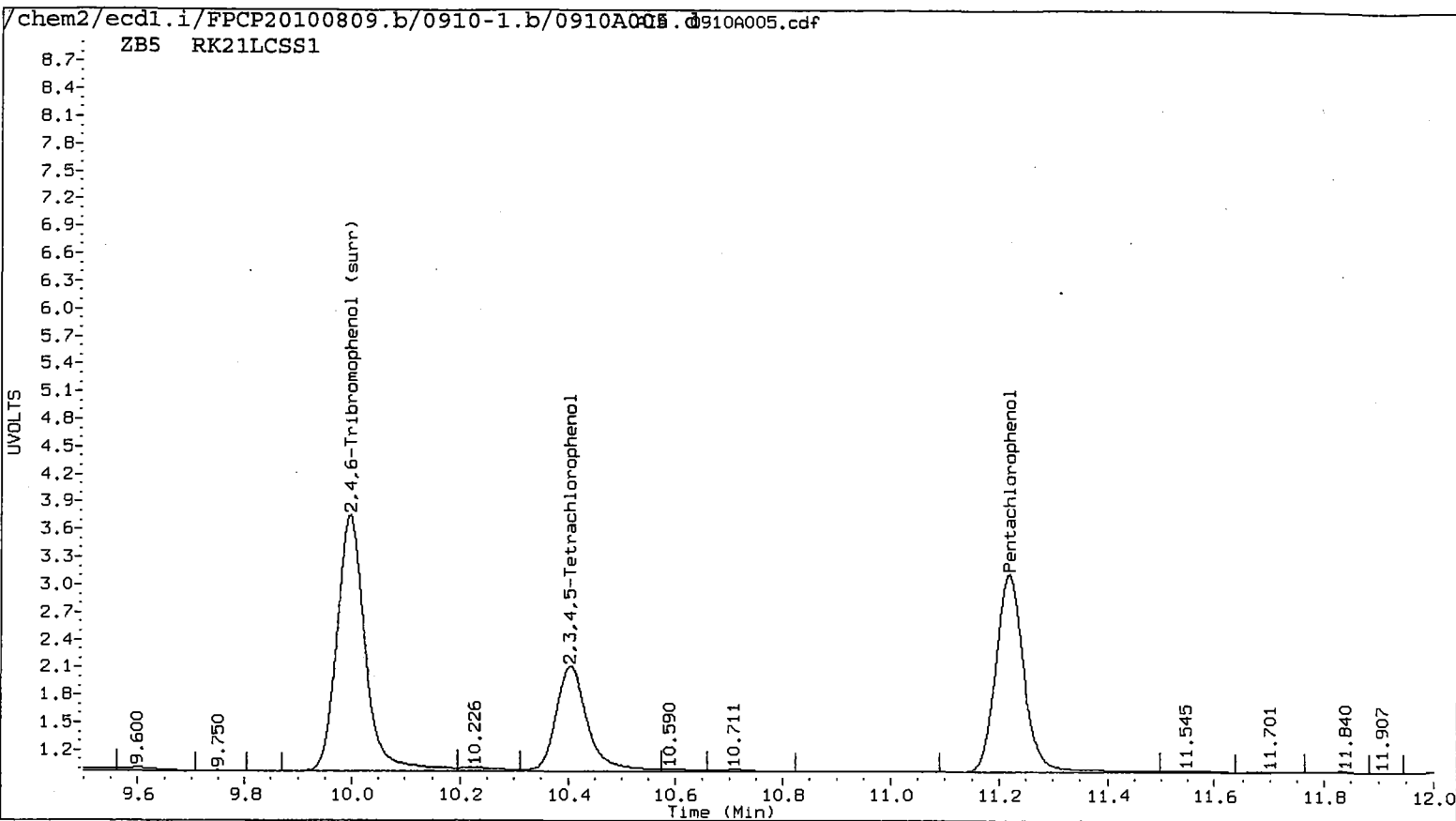
AR9/13/2010

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 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 16:38
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecd1.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	393849	11.655	-0.003	554279	25.5046	24.1396	5.5	Pentachlorophenol
7.268	0.004	221148	7.335	0.002	319318	26.3450	25.5770	3.0	2,4,6-Trichlorophenol
7.621	0.002	233264	7.863	-0.001	301413	26.6261	24.2908	9.2	2,3,6-Trichlorophenol
8.224	-0.018	135016	8.596	-0.019	151406	26.7490	24.1336	10.3	2,4,5-Trichlorophenol
8.773	-0.019	152471	9.362	-0.018	220849	22.2875	26.2490	16.3	2,3,4-Trichlorophenol
9.001	-0.006	339942	9.266	-0.011	476864	24.0998	25.7558	6.6	2,3,5,6-Tetrachlorophenol
10.404	-0.009	238629	11.115	-0.011	312971	22.8349	21.4500	6.3	2,3,4,5-Tetrachlorophenol
6.893	0.000	107545	7.161	-0.005	176562	213.6870	292.9354	31.3	2,4-Dichlorophenol
9.996	-0.006	515799	10.637	-0.009	780053	44.9	41.8	7.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	102.0	96.6
2,4,6-Trichlorophenol	105.4	102.3
2,3,6-Trichlorophenol	106.5	97.2
2,4,5-Trichlorophenol	107.0	96.5
2,3,4-Trichlorophenol	89.2	105.0
2,3,5,6-Tetrachlorophenol	96.4	103.0
2,3,4,5-Tetrachlorophenol	91.3	85.8
2,4-Dichlorophenol	85.5	117.2
2,4,6-TBP (surr)	89.7	83.6



Data File: /chem2/eecd1.i/PCP20100809.b/0910-1.b/09100005.d

Date: 10-SEP-2010 16:38

Client ID: RK21LCSS1

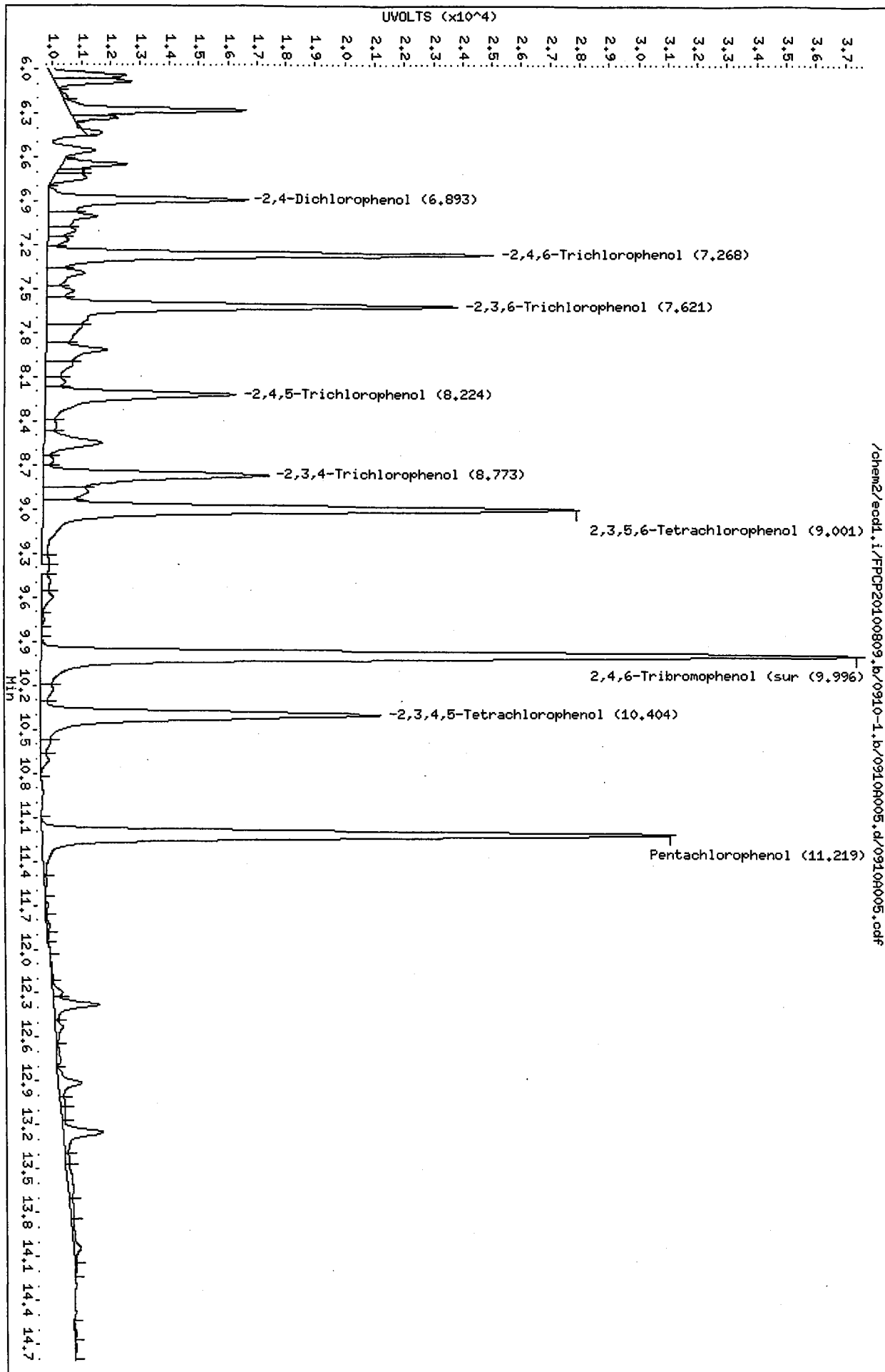
Sample Info: RK21LCSS1

Column phase: ZB5

Instrument: eecd1.i

Operator: ar
Column diameter: 0.53

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Data File: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A005.d

Date : 10-SEP-2010 16:38

Client ID: RK21LCSS1

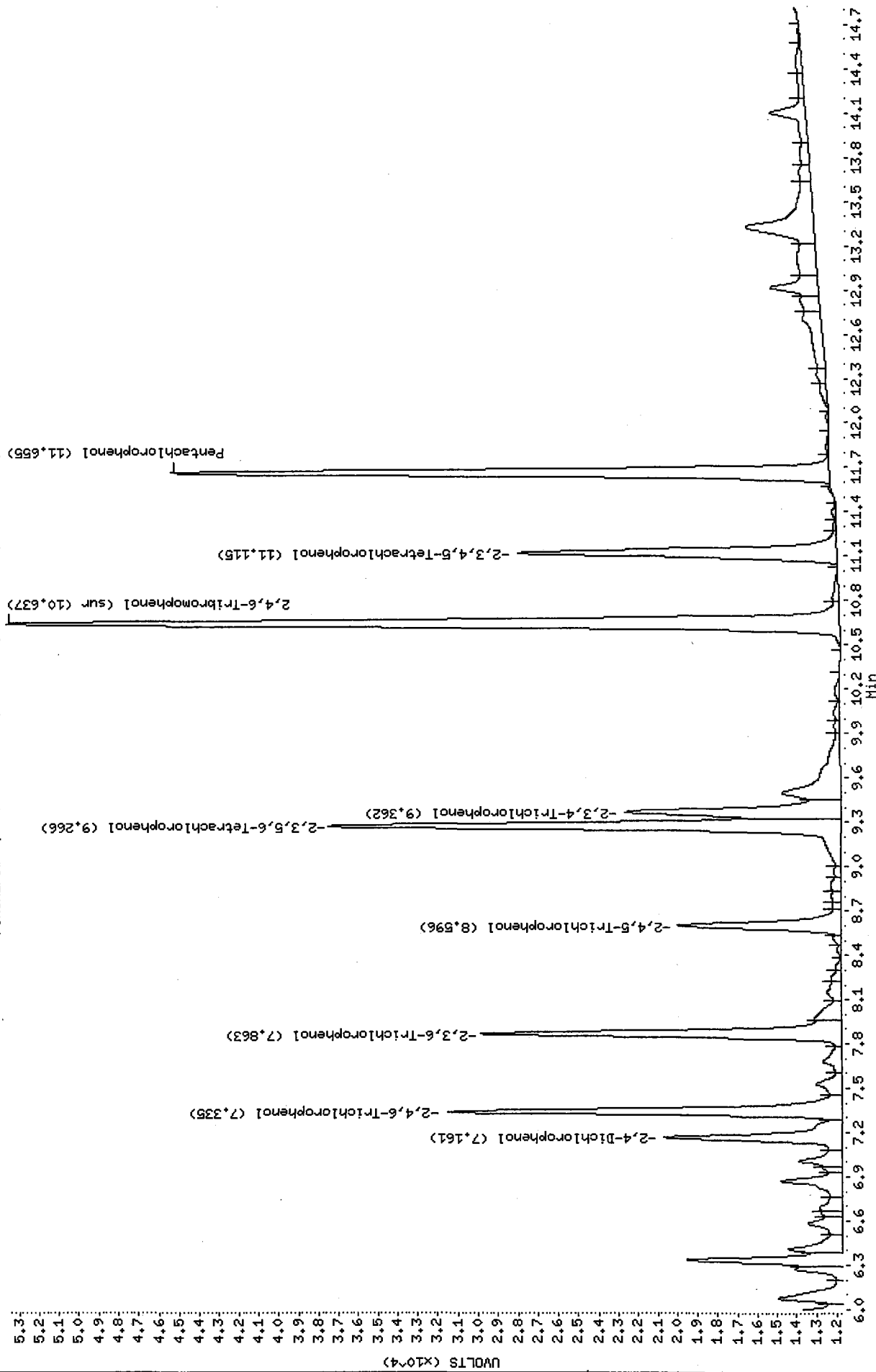
Sample Info: RK21LCSS1

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

Column phase: ZB35

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Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

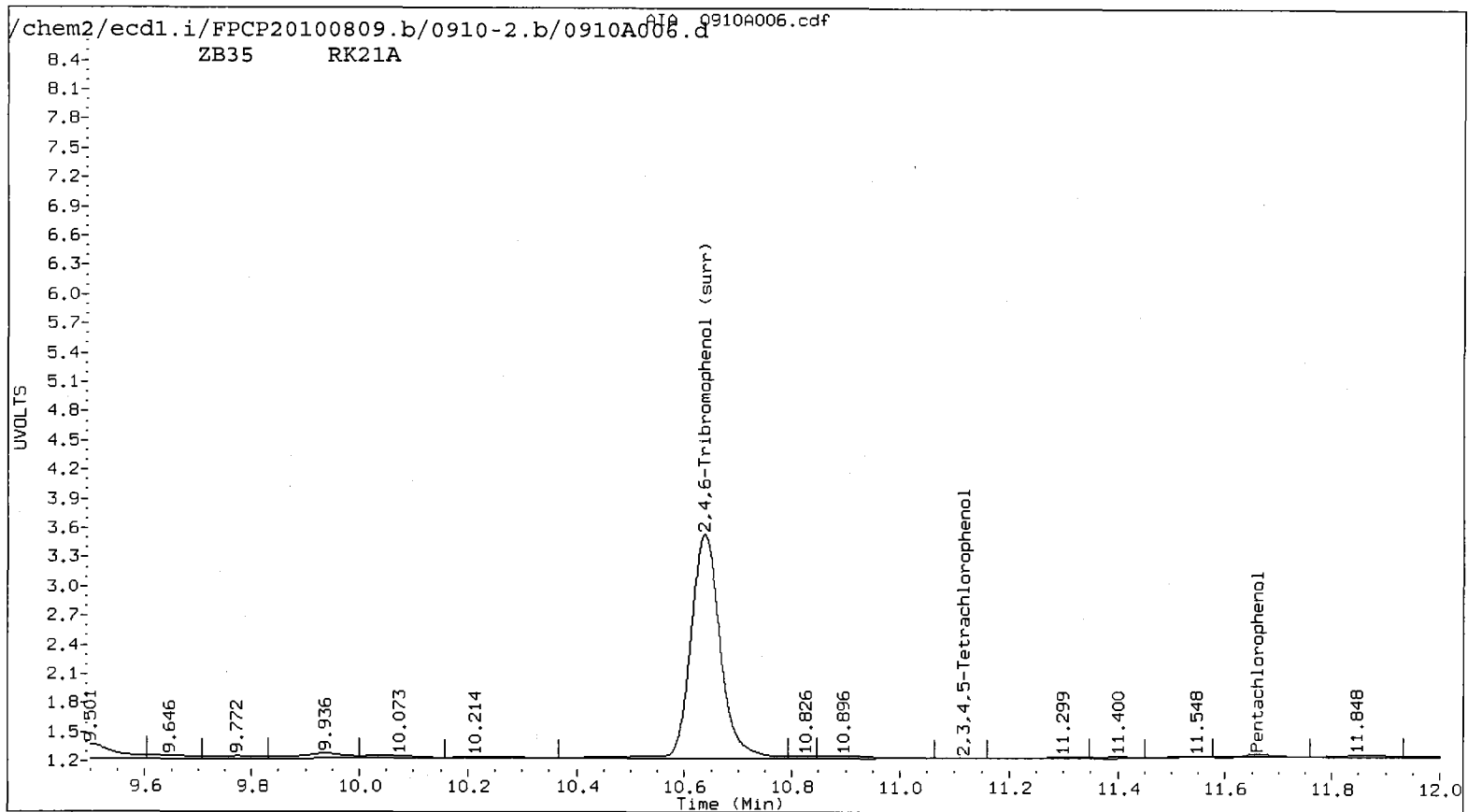
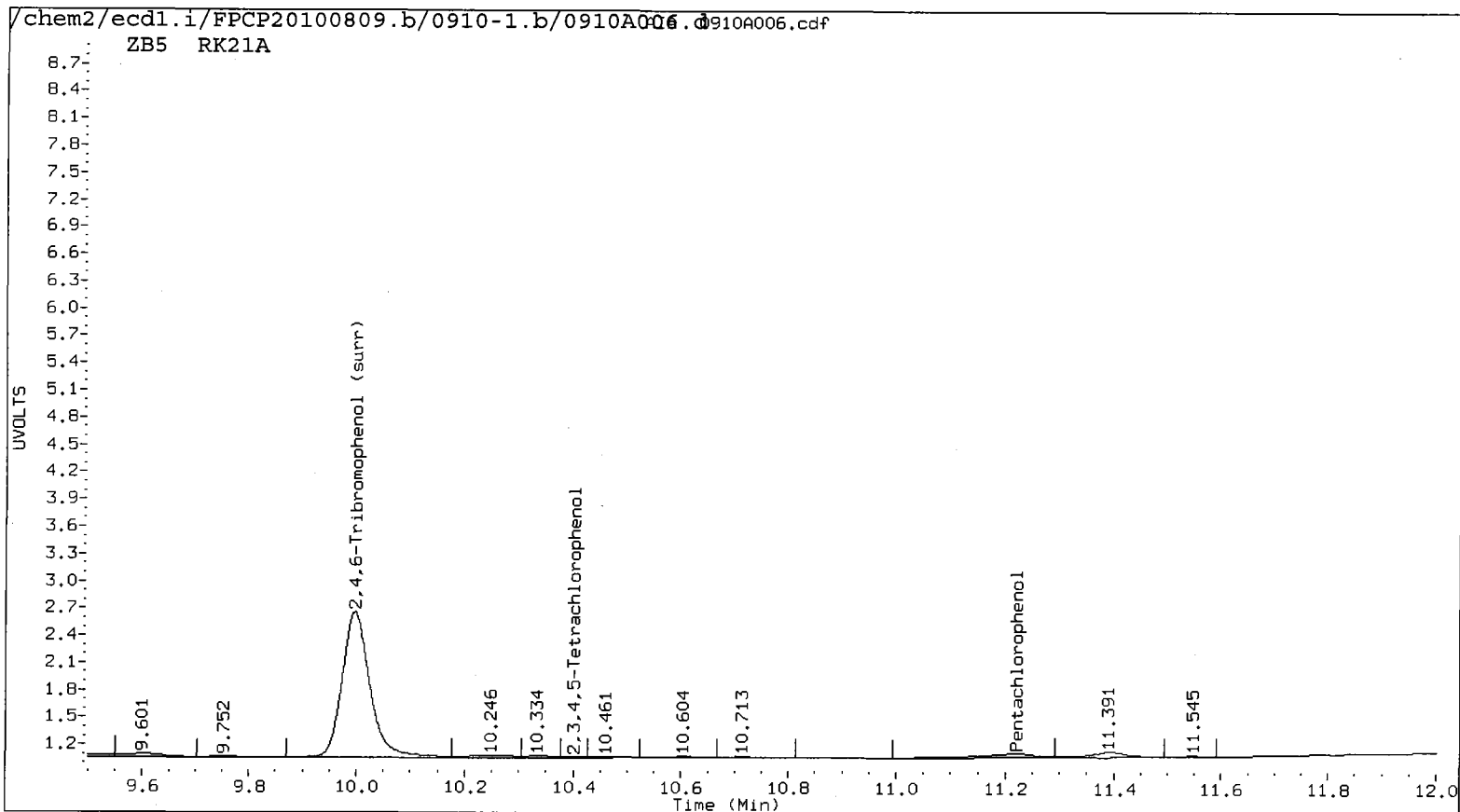
AR 9/14/2010

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 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A006.d Client ID: MW15-50-55-082310
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 16:58
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	10758	11.659	0.001	5837	0.5988	0.2542 <i>PL</i>	80.8*	Pentachlorophenol
7.294	0.030	35236	7.372	0.039	53581	3.7346	4.2918	13.9	2,4,6-Trichlorophenol
7.629	0.010	8100	7.825	-0.039	15521	0.8274	1.2509	40.8*	2,3,6-Trichlorophenol
8.217	-0.025	14523	8.648	0.033	4965	2.8774	0.6939	122.3*	2,4,5-Trichlorophenol
-----			-----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.040	0.033	199488	9.266	-0.011	22731	14.1425	1.2278	168.0*	2,3,5,6-Tetrachlorophenol
10.401	-0.012	1769	11.115	-0.011	899	0.1406	0.0617	78.0*	2,3,4,5-Tetrachlorophenol
6.857	-0.036	3722	7.165	-0.001	19935	5.8261	27.1813	129.4*	2,4-Dichlorophenol
9.997	-0.005	285745	10.638	-0.008	440703	23.0	23.6	2.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	91.8	94.4



RK21 : 00317

Data File: /chem2/ecdl.i/PPCP20100809.b/0910-1.b/0910A006.d

Date: 10-SEP-2010 16:58

Client ID: MW15-50-55-082310

Sample Info: RK21A

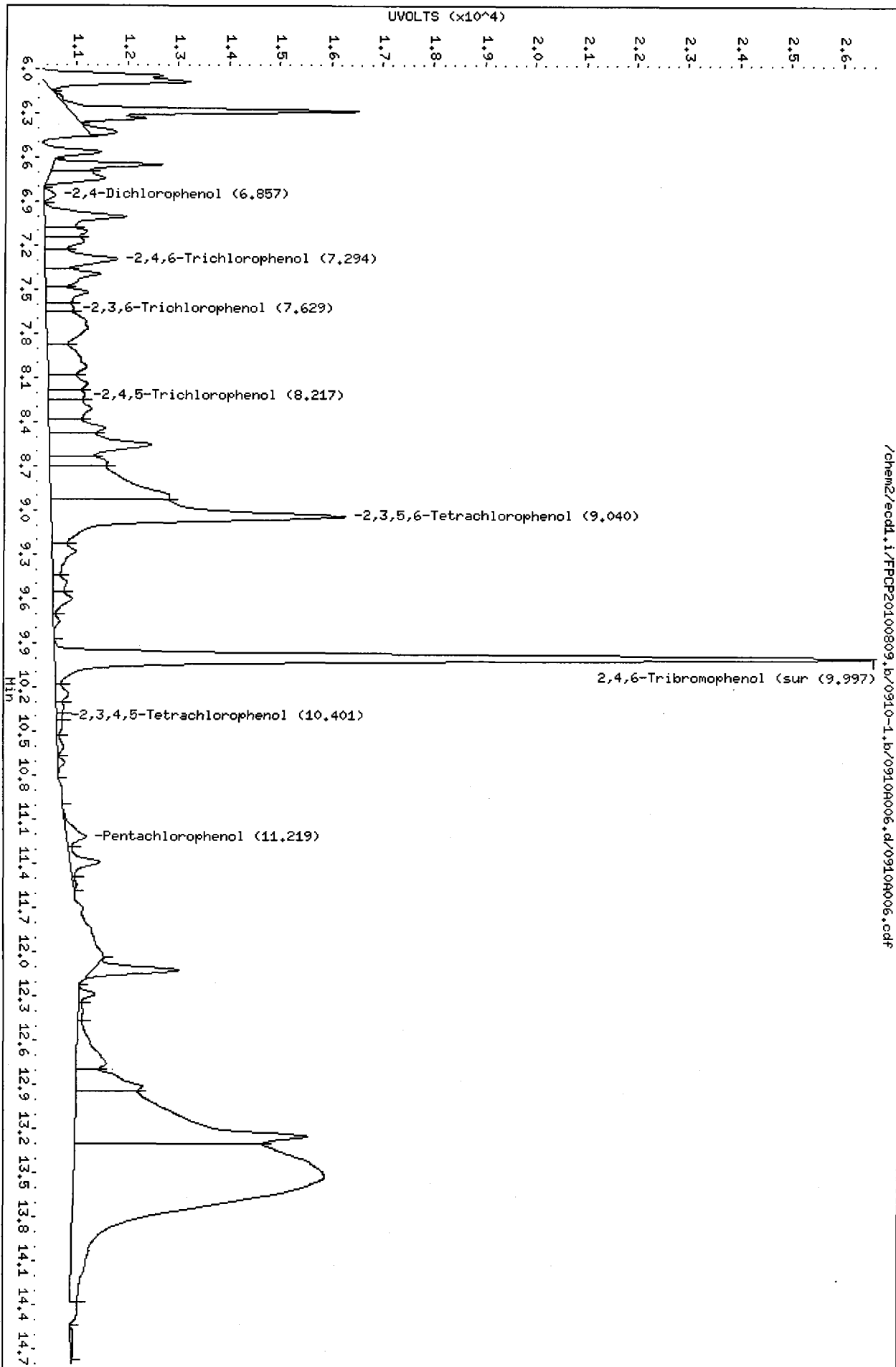
Column phase: ZB5

Instrument: eccl.i

Operator: ar

Column diameter: 0.53

Page 1



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Data File: /chem2/ecdl.i/FPCF20100809.b/0910-2.b/0910A006.d

Date : 10-SEP-2010 16:58

Client ID: MW15-50-55-082310

Sample Info: RK21A

Page 1

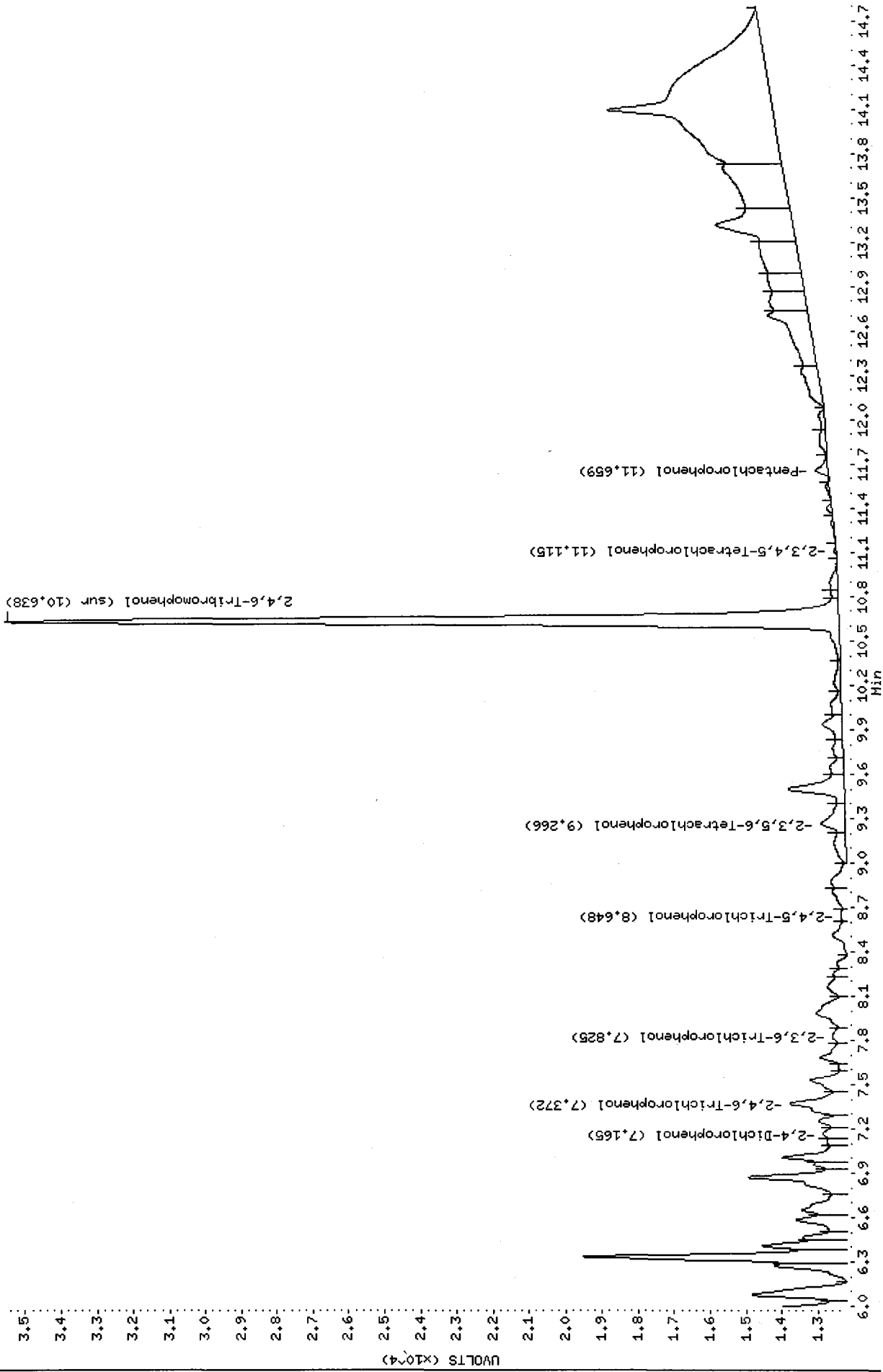
Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35

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RK21 : 00319

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

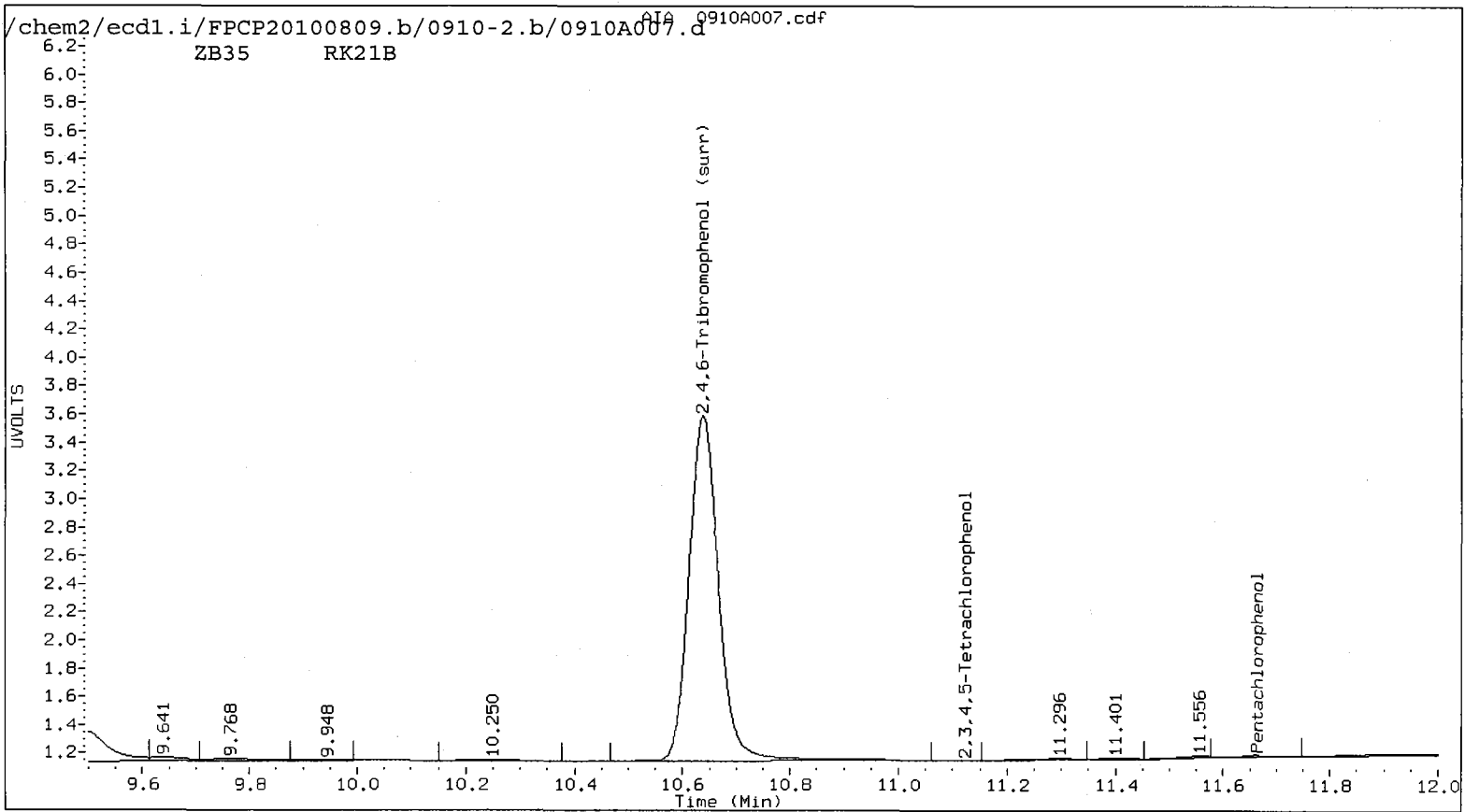
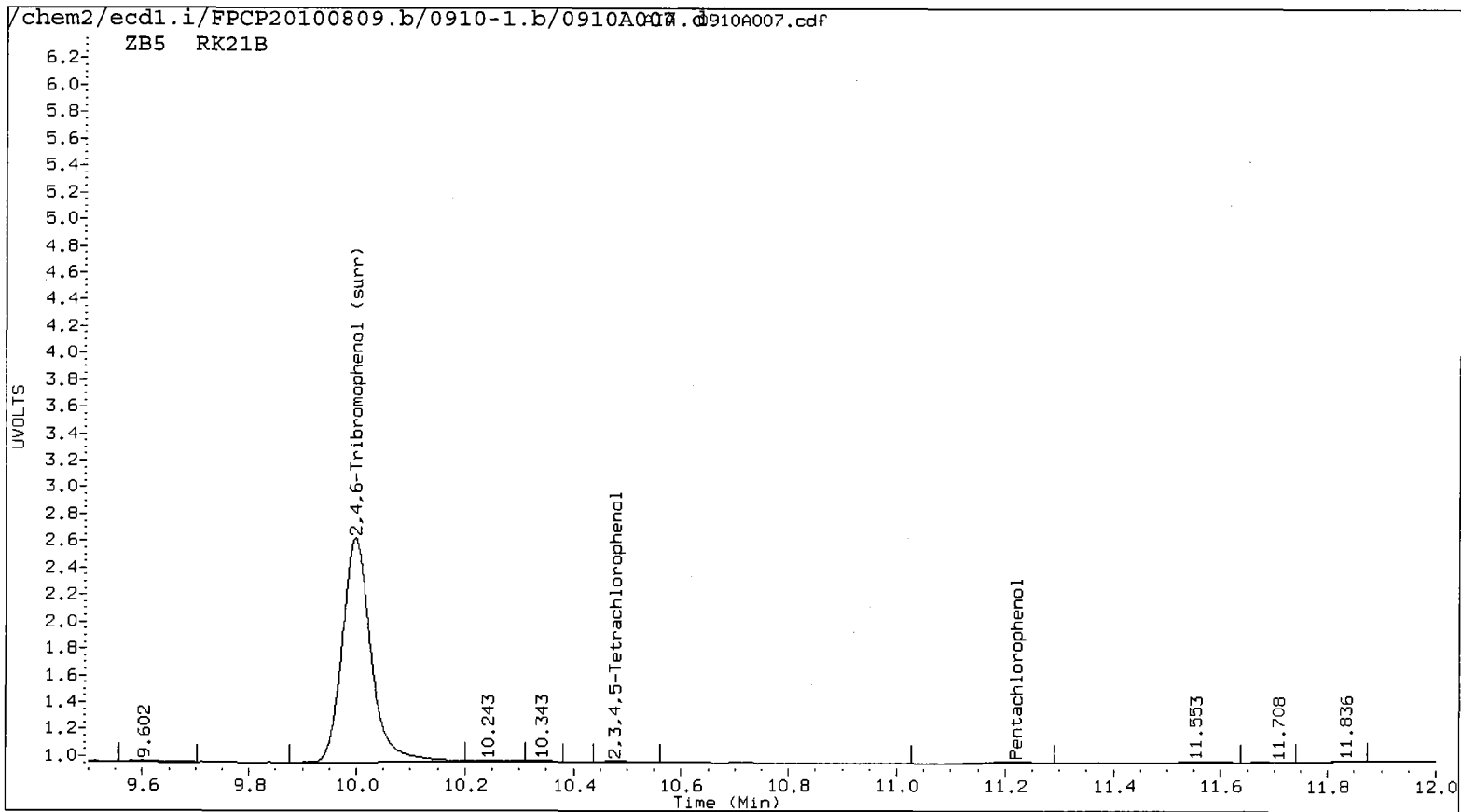
AR 9/14/10

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A007.d ARI ID: RK21B
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A007.d Client ID: MW16-39-40-082410
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 17:18
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	3921	11.663	0.005	875	0.2176	0.0381 <i>142</i>	140.4*	Pentachlorophenol
7.290	0.026	24603	7.369	0.036	33662	2.5892	2.6963	4.1	2,4,6-Trichlorophenol
----			7.820	-0.044	15495	0.0000	1.2488	---	2,3,6-Trichlorophenol
8.215	-0.027	2252	8.633	0.018	3800	0.4463	0.5305	17.2	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.027	0.020	8707	9.265	-0.012	12443	0.6173	0.6721	8.5	2,3,5,6-Tetrachlorophenol
10.478	0.065	1758	11.123	-0.003	559	0.1398	0.0383	113.9*	2,3,4,5-Tetrachlorophenol
6.909	0.016	18687	7.168	0.002	14259	30.3841	19.2895	44.7*	2,4-Dichlorophenol
9.997	-0.005	312932	10.638	-0.008	470366	25.4	25.2	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	101.5	100.8



Data File: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/09100007.d

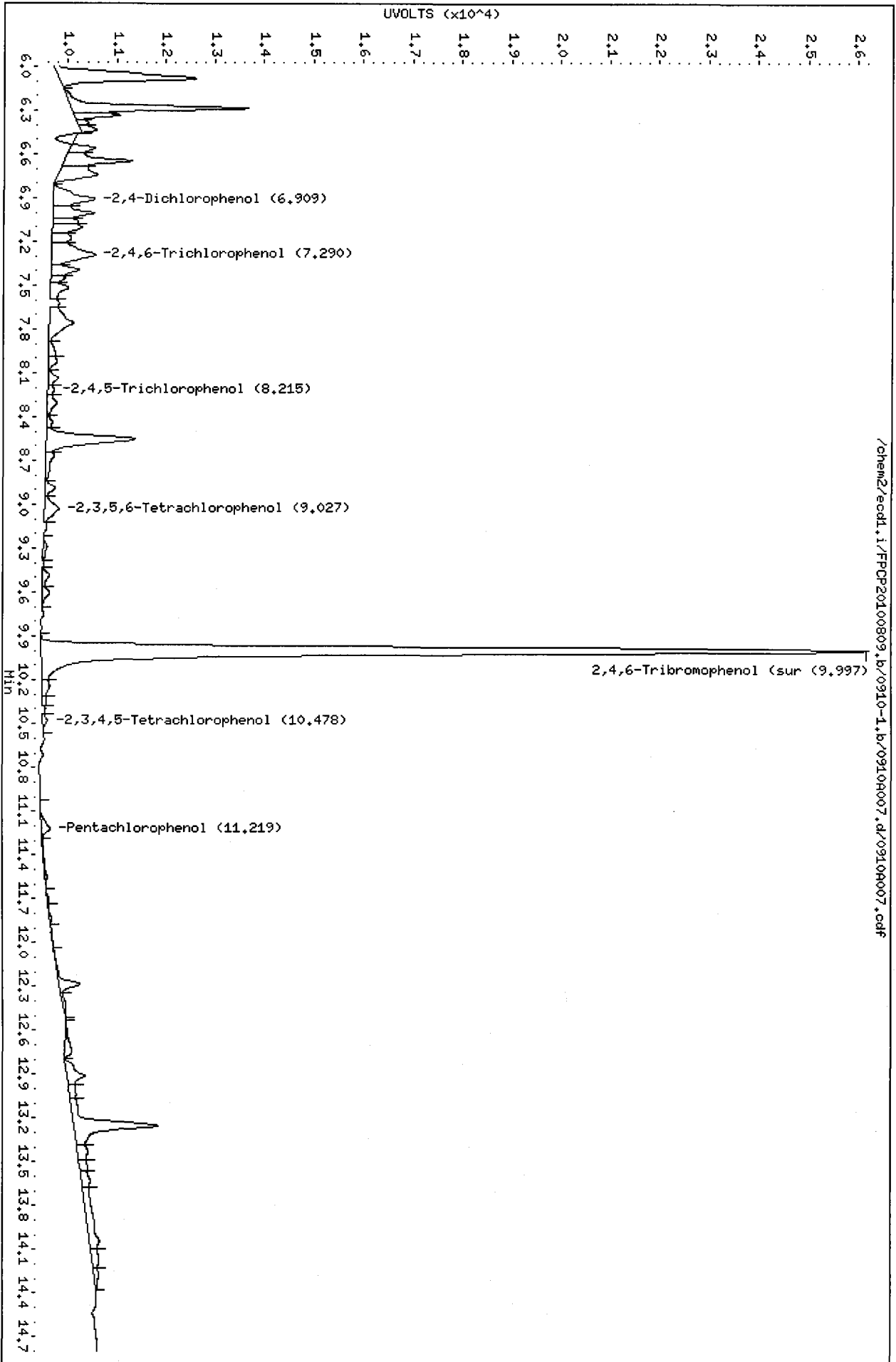
Date: 10-SEP-2010 17:18

Client ID: MML6-39-40-082410

Sample Info: RK21B

Column phase: ZB5

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



/chem2/ecdl.i/FPCP20100809.b/0910-1.b/09100007.d/09100007.cdf

Data File: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A007.d

Date : 10-SEP-2010 17:18

Client ID: MM16-39-40-082410

Sample Info: RK21B

Column phase: ZB35

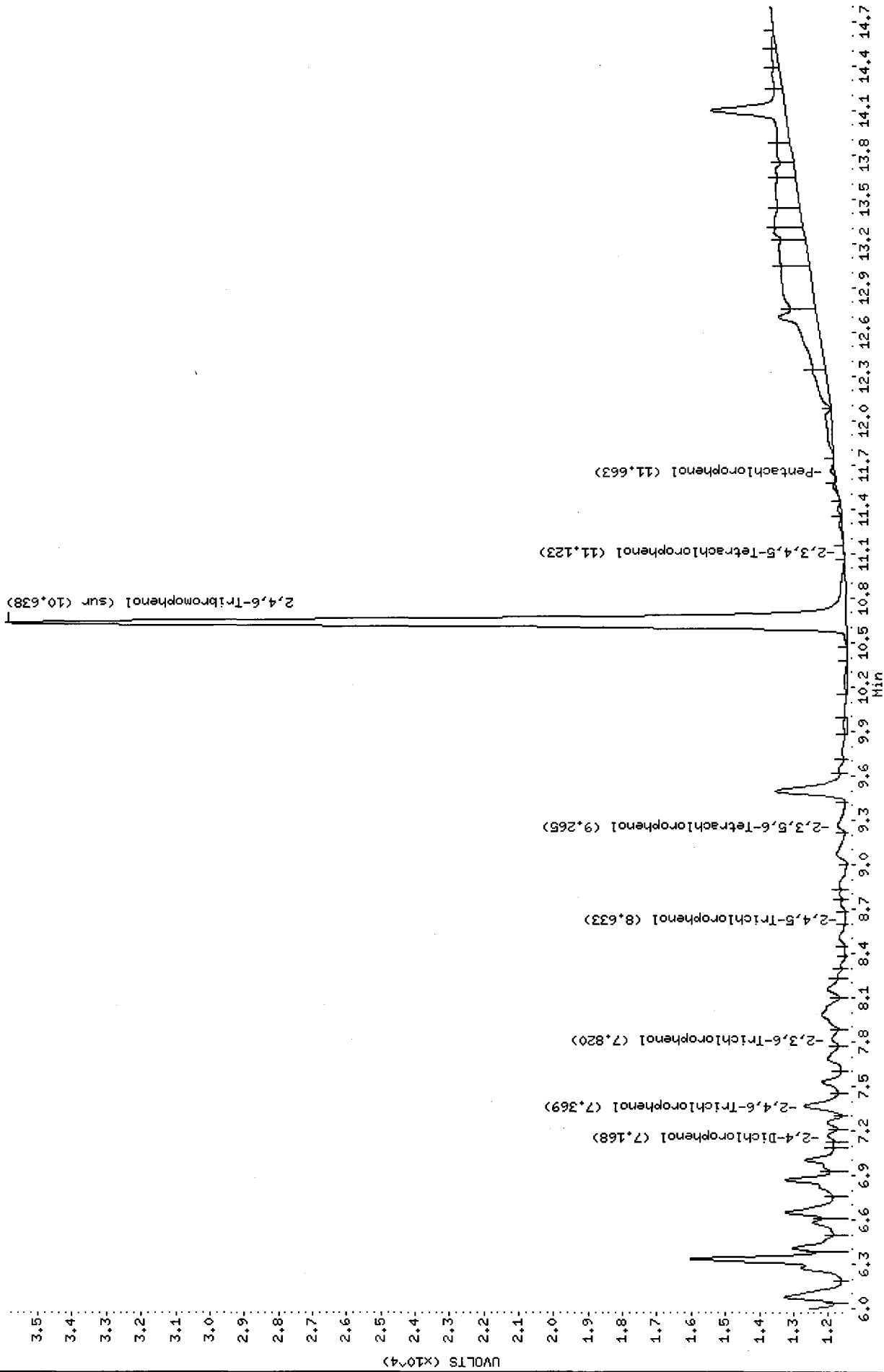
Page 1

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

/chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A007.d/0910A007.cdf



RK21 : 00323

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

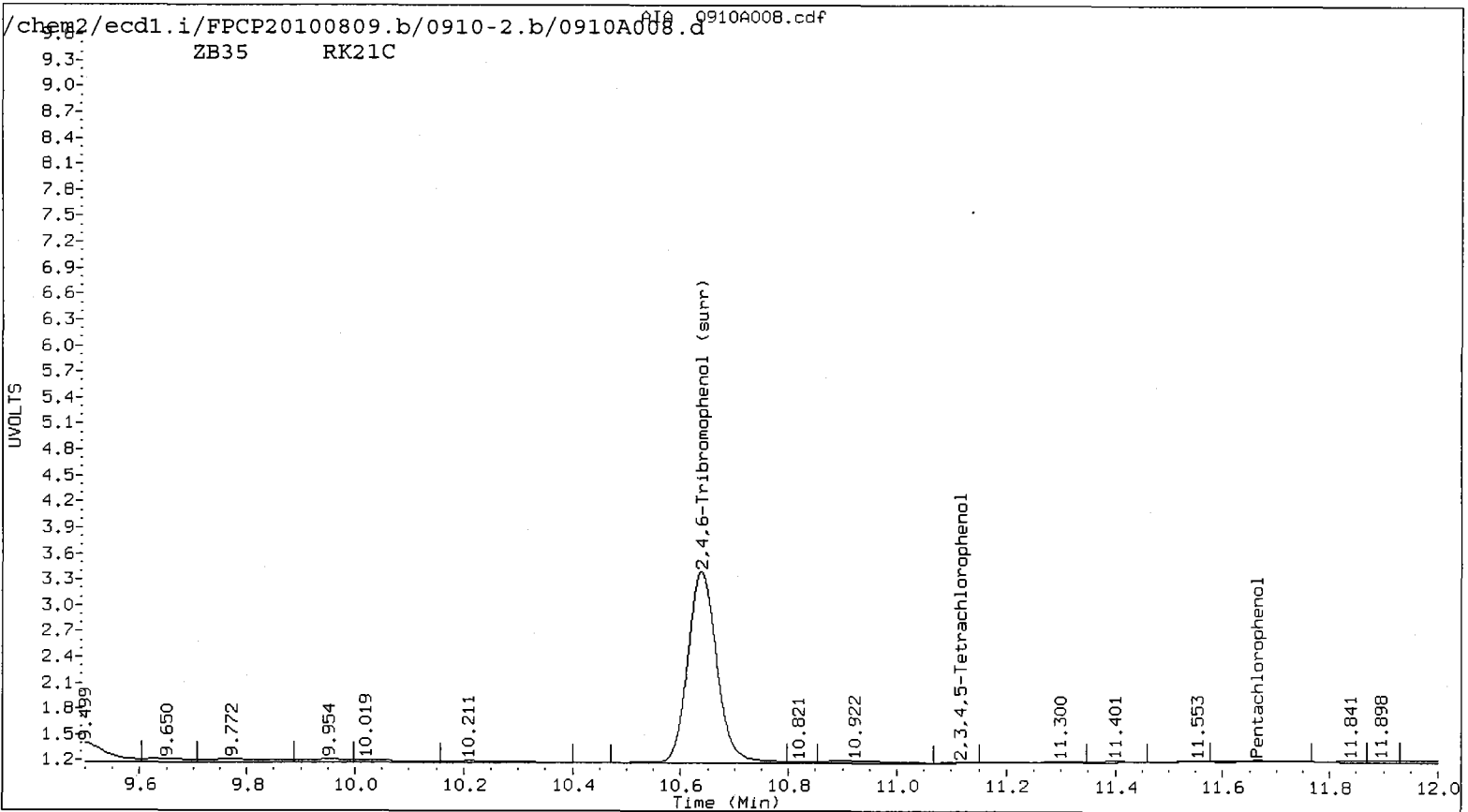
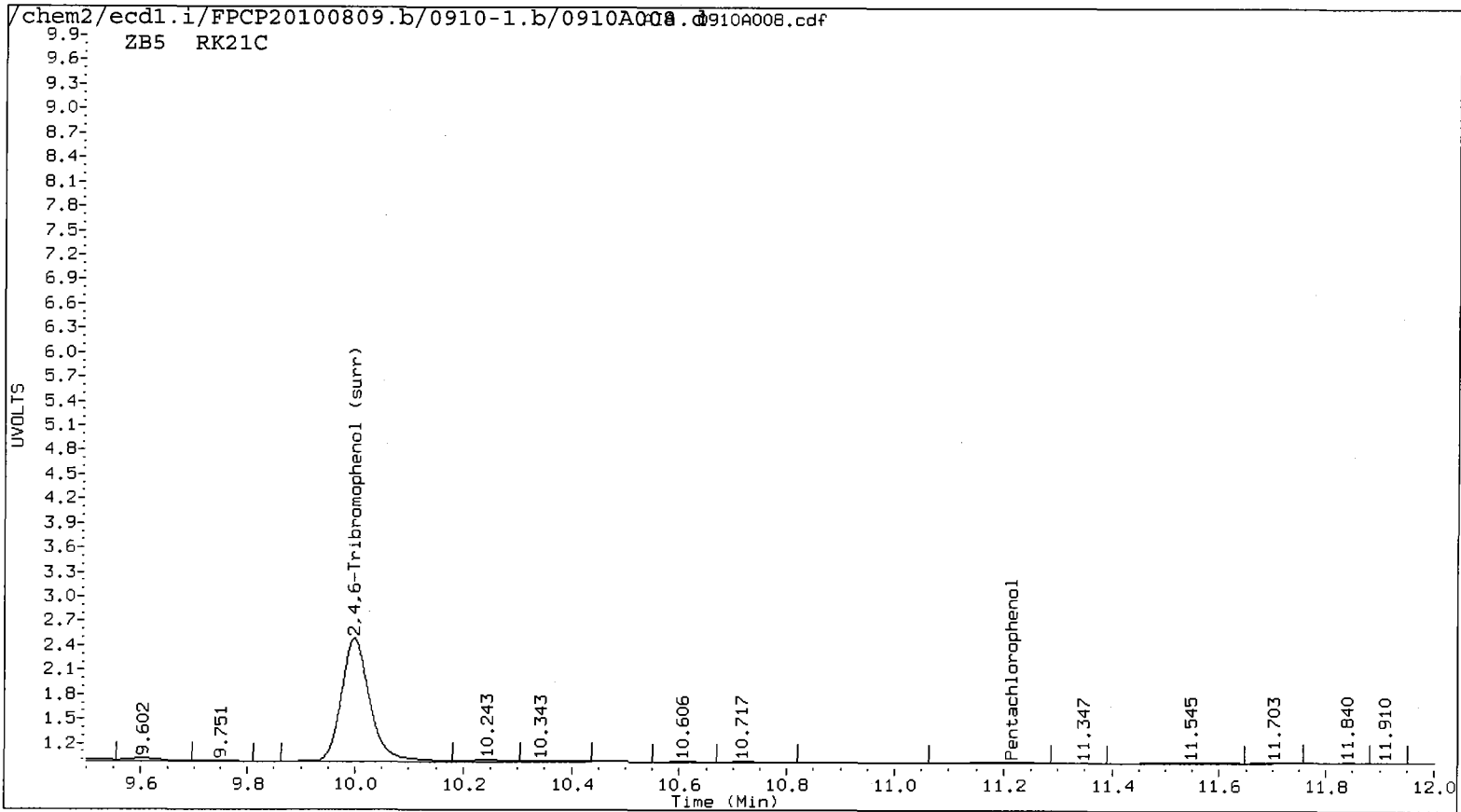
AR 9/14/2010

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A008.d ARI ID: RK21C
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A008.d Client ID: MW16-39-40-082410-D
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 17:38
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.214	-0.005	7110	11.664	0.006	2216	0.3952	0.0965	121.5*	Pentachlorophenol
7.293	0.029	35354	7.372	0.039	67948	3.7474	5.4426	36.9	2,4,6-Trichlorophenol
7.623	0.004	3690	7.826	-0.038	26484	0.3760	2.1344	140.1*	2,3,6-Trichlorophenol
8.216	-0.026	4035	8.639	0.024	9983	0.7995	1.4018	54.7*	2,4,5-Trichlorophenol
-----			-----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.028	0.021	43368	9.266	-0.011	27138	3.0745	1.4658	70.9*	2,3,5,6-Tetrachlorophenol
-----			11.117	-0.009	853	0.0000	0.0585	---	2,3,4,5-Tetrachlorophenol
6.908	0.015	34970	7.166	0.000	25891	59.1735	35.5929	49.8*	2,4-Dichlorophenol
9.998	-0.004	281566	10.639	-0.007	417251	22.6	22.4	1.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	90.3	89.4



Data File: /chem2/ecdl.i/FPDF20100809.b/0910-1.b/0910H008.d

Date: 10-SEP-2010 17:38

Client ID: MW16-39-40-082410-D

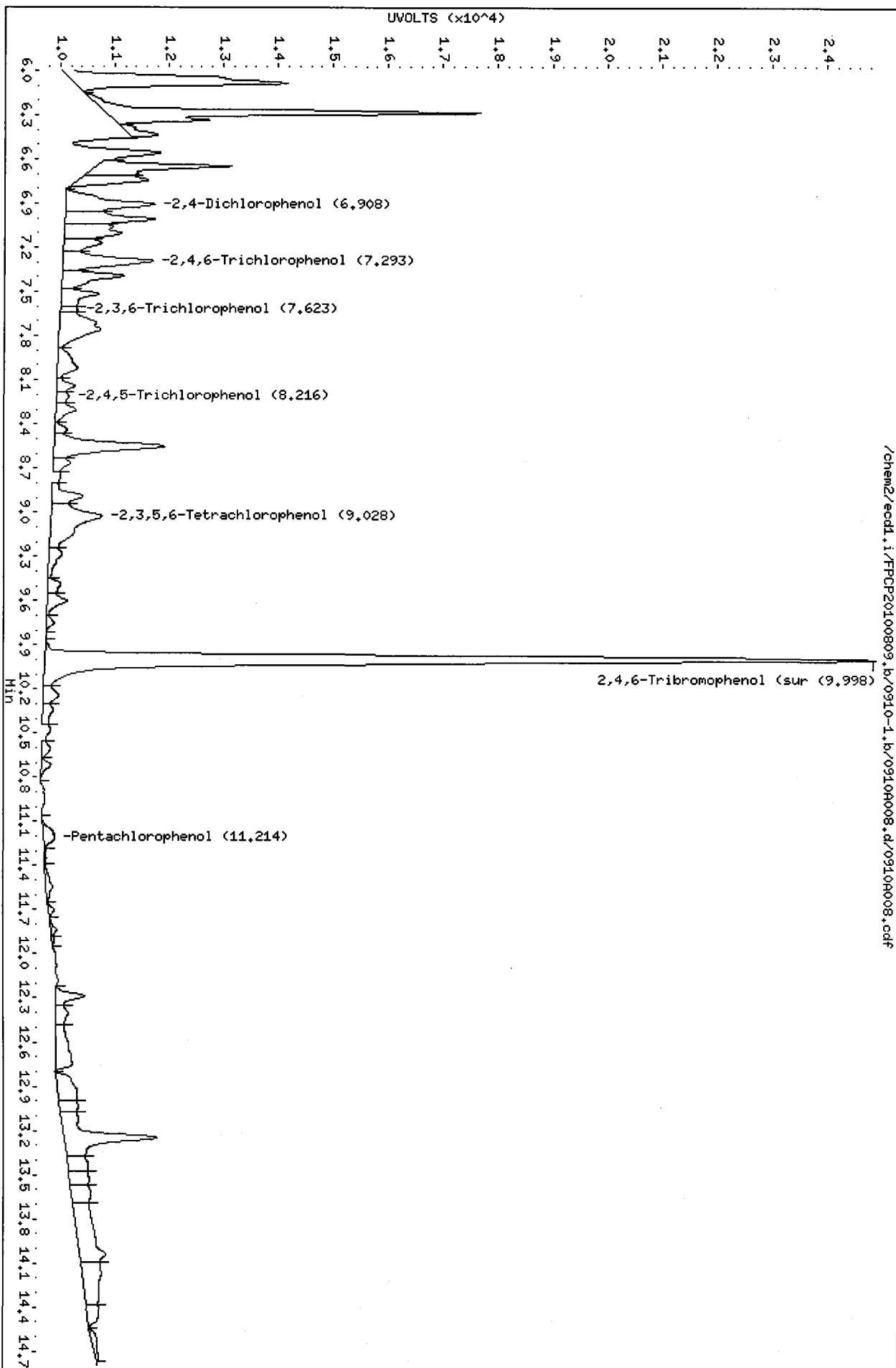
Sample Info: RK21C

Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20100809.b/0910-2.b/0910A008.d

Date : 10-SEP-2010 17:38

Client ID: MHL6-39-40-082410-D

Sample Info: RK21C

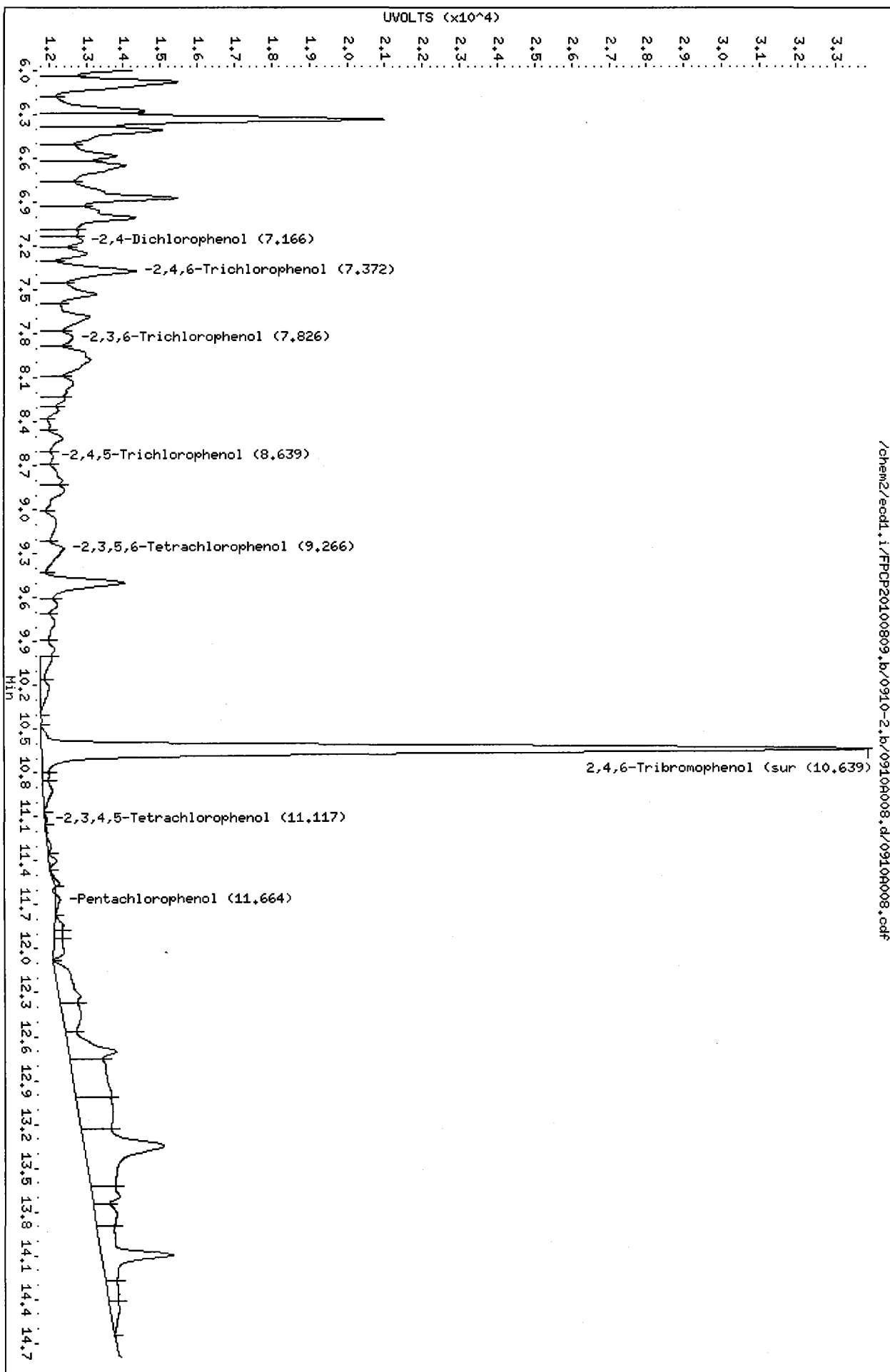
Column phase: ZB35

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Page 1



RK21 : 00327

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

AR 9/14/10

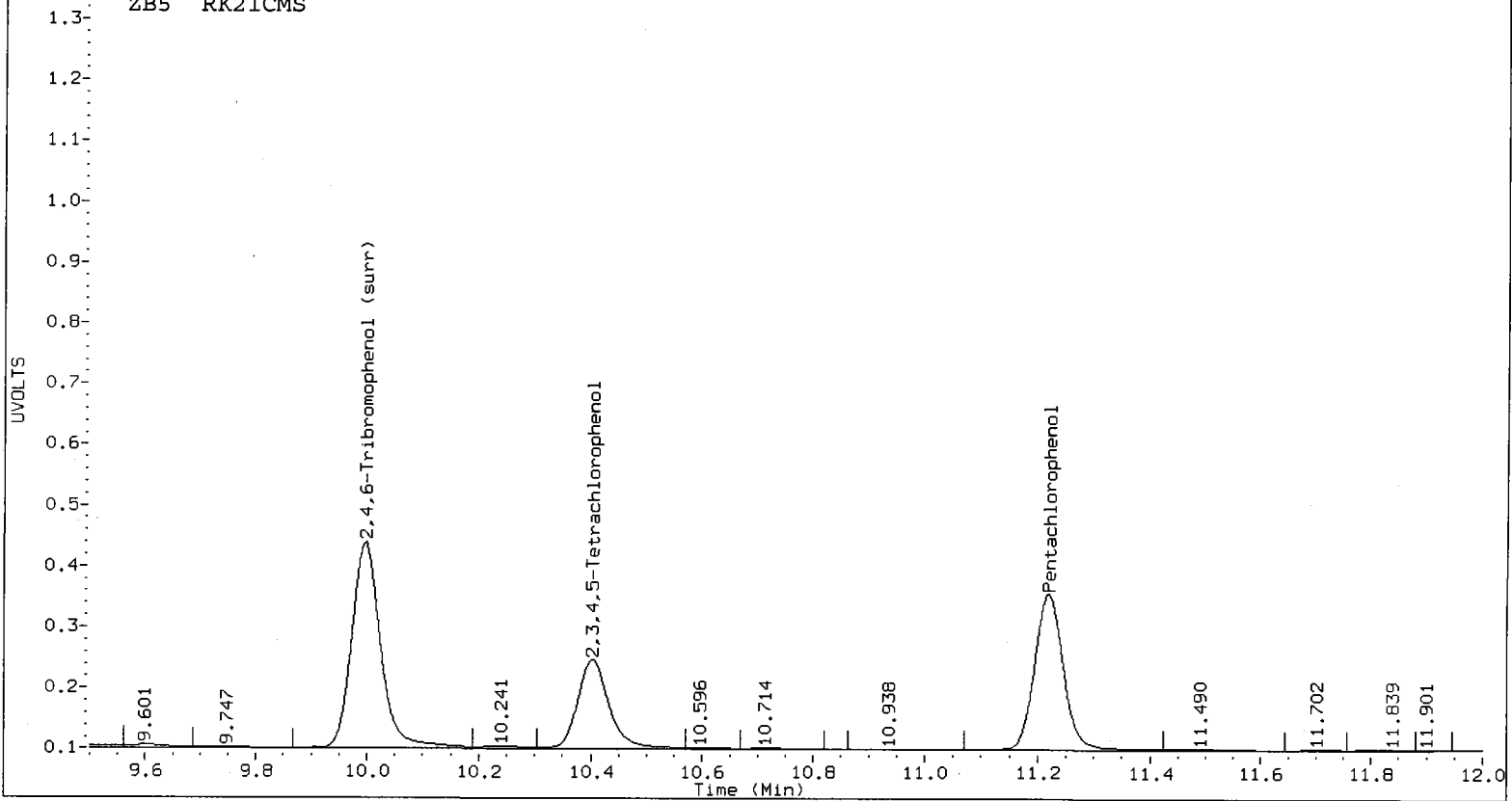
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 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 17:58
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	461136	11.655	-0.003	668660	30.5988	29.1210	4.9	Pentachlorophenol
7.269	0.005	276221	7.336	0.003	437552	33.9809	35.0474	3.1	2,4,6-Trichlorophenol
7.621	0.002	286122	7.863	-0.001	393506	33.4660	31.7126	5.4	2,3,6-Trichlorophenol
8.224	-0.018	146748	8.597	-0.018	203737	29.0734	33.9064	15.3	2,4,5-Trichlorophenol
8.774	-0.018	168304	9.362	-0.018	246236	24.6020	29.7086	18.8	2,3,4-Trichlorophenol
9.003	-0.004	375605	9.267	-0.010	532560	26.6280	28.7640	7.7	2,3,5,6-Tetrachlorophenol
10.402	-0.011	293073	11.114	-0.012	393955	29.1372	27.0005	7.6	2,3,4,5-Tetrachlorophenol
6.894	0.001	151875	7.163	-0.003	244475	329.1227	436.9515	28.2	2,4-Dichlorophenol
9.997	-0.005	614502	10.637	-0.009	945861	55.2	50.7	8.6	2,4,6-Tribromophenol (surr)

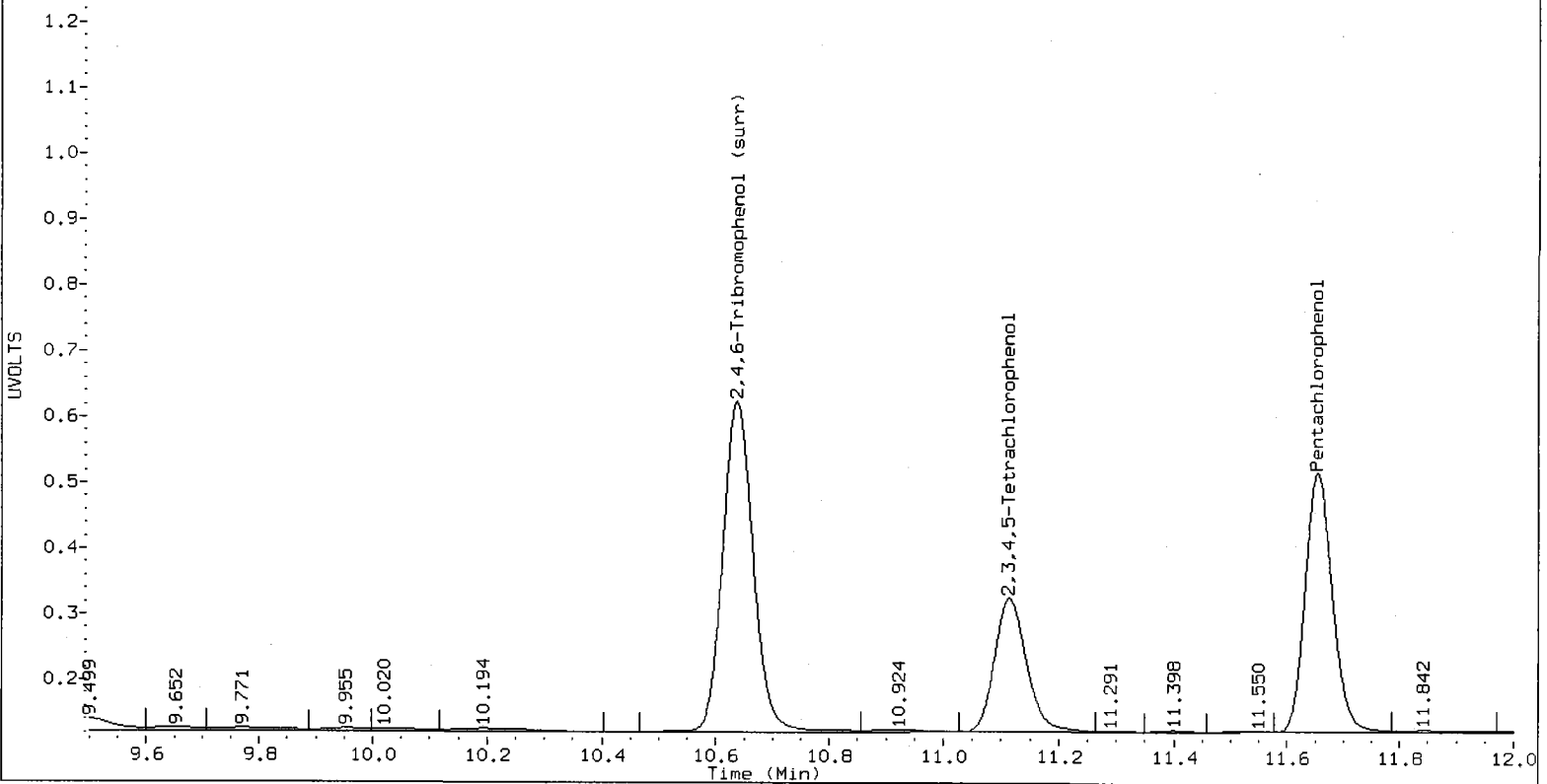
PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	122.4	116.5
2,4,6-Trichlorophenol	135.9	140.2
2,3,6-Trichlorophenol	133.9	126.9
2,4,5-Trichlorophenol	116.3	135.6
2,3,4-Trichlorophenol	98.4	118.8
2,3,5,6-Tetrachlorophenol	106.5	115.1
2,3,4,5-Tetrachlorophenol	116.5	108.0
2,4-Dichlorophenol	131.6	174.8
2,4,6-TBP (surr)	110.4	101.3

ZB5 RK21CMS



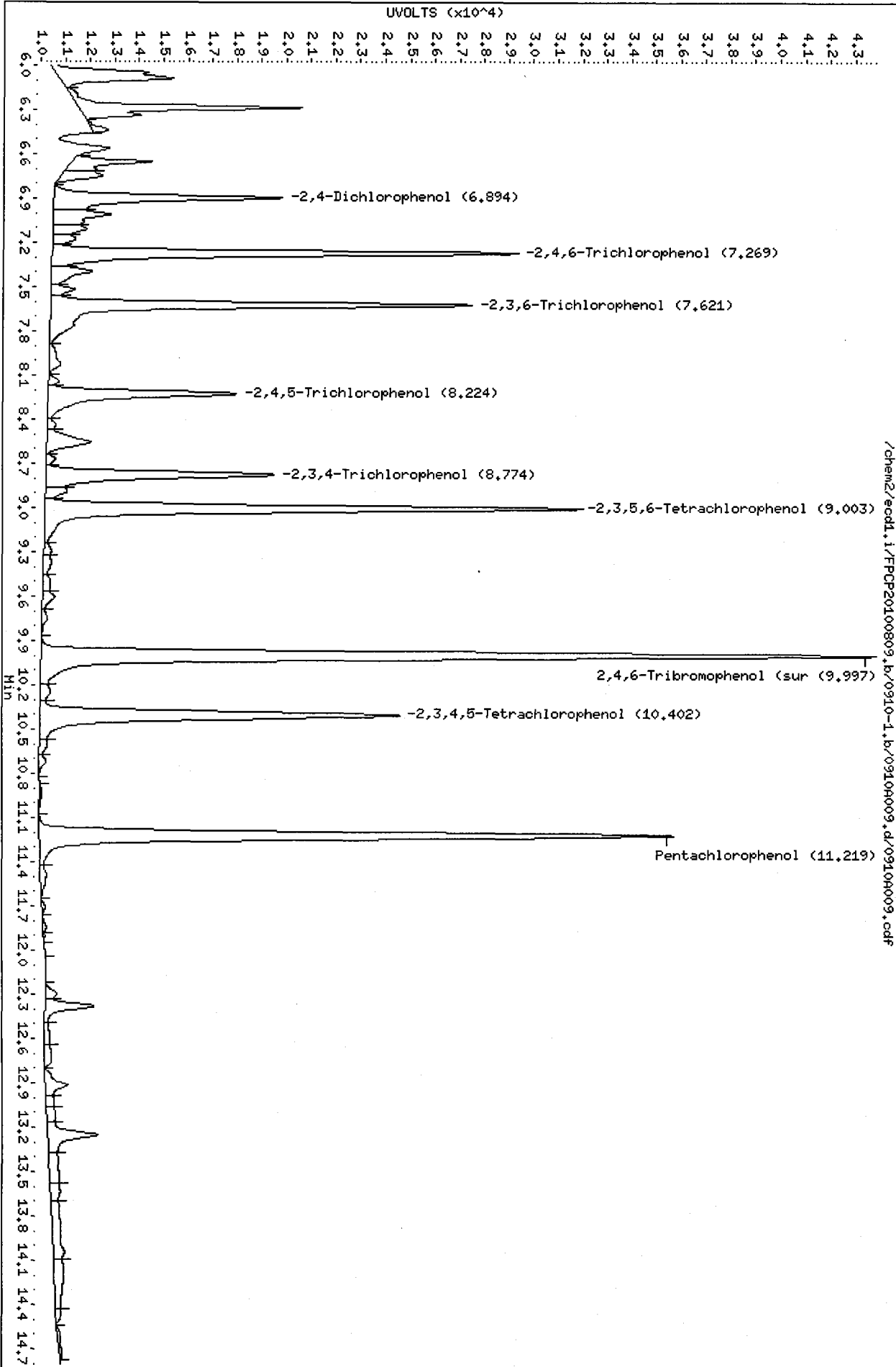
ZB35 RK21CMS



Data File: /chem2/ecdl.i/PPCP20100809.b/0910-1.b/09100009.d
Date : 10-SEP-2010 17:58
Client ID: MML6-39-40-0824 HS
Sample Info: RK21CHS

Column phase: ZBS

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCF20100809.b/0910-2.i.b/0910A009.d

Date: 10-SEP-2010 17:58

Client ID: MM46-39-40-0824 HS

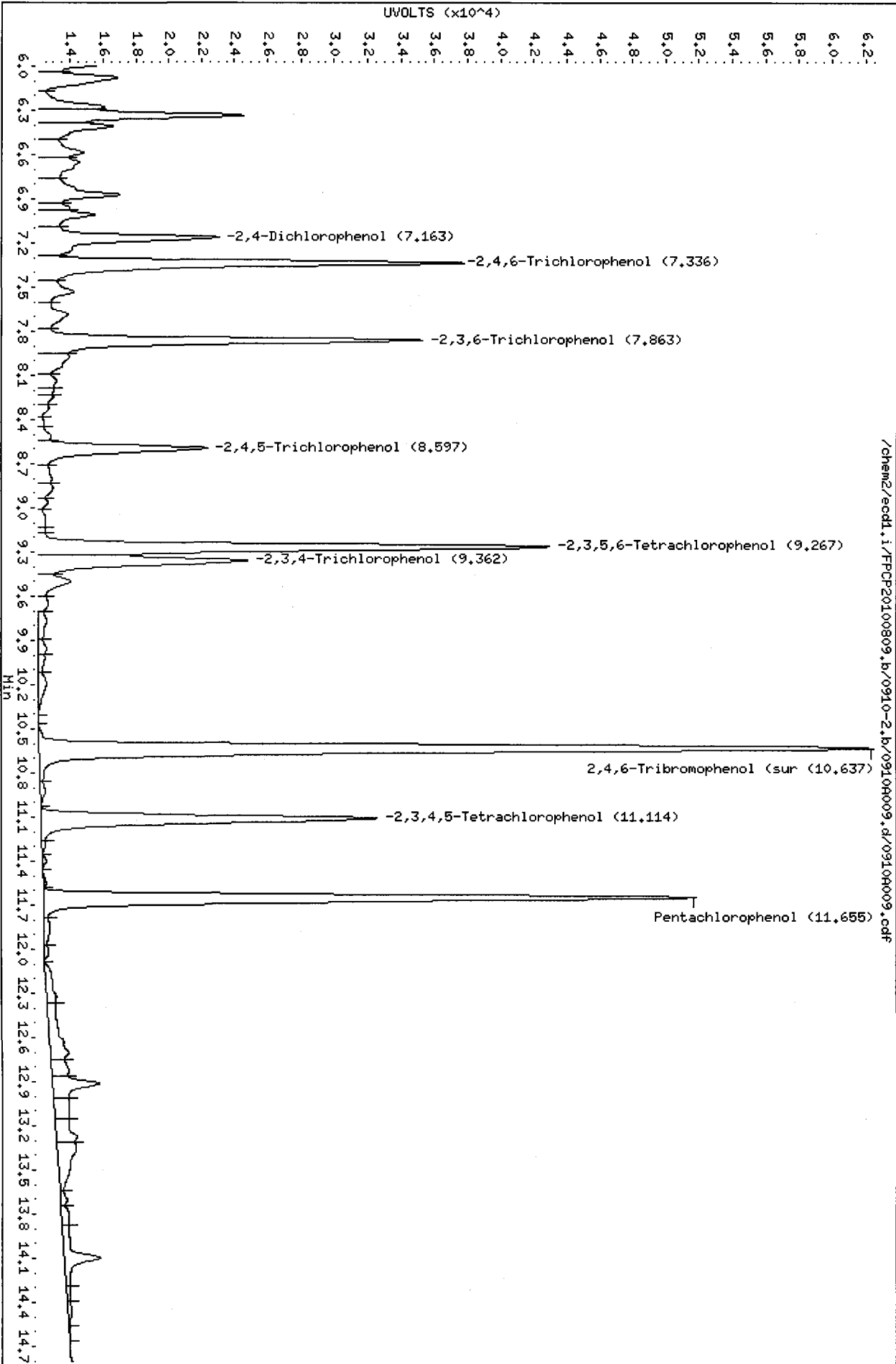
Sample Info: RK21CHS

Column phase: ZB35

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

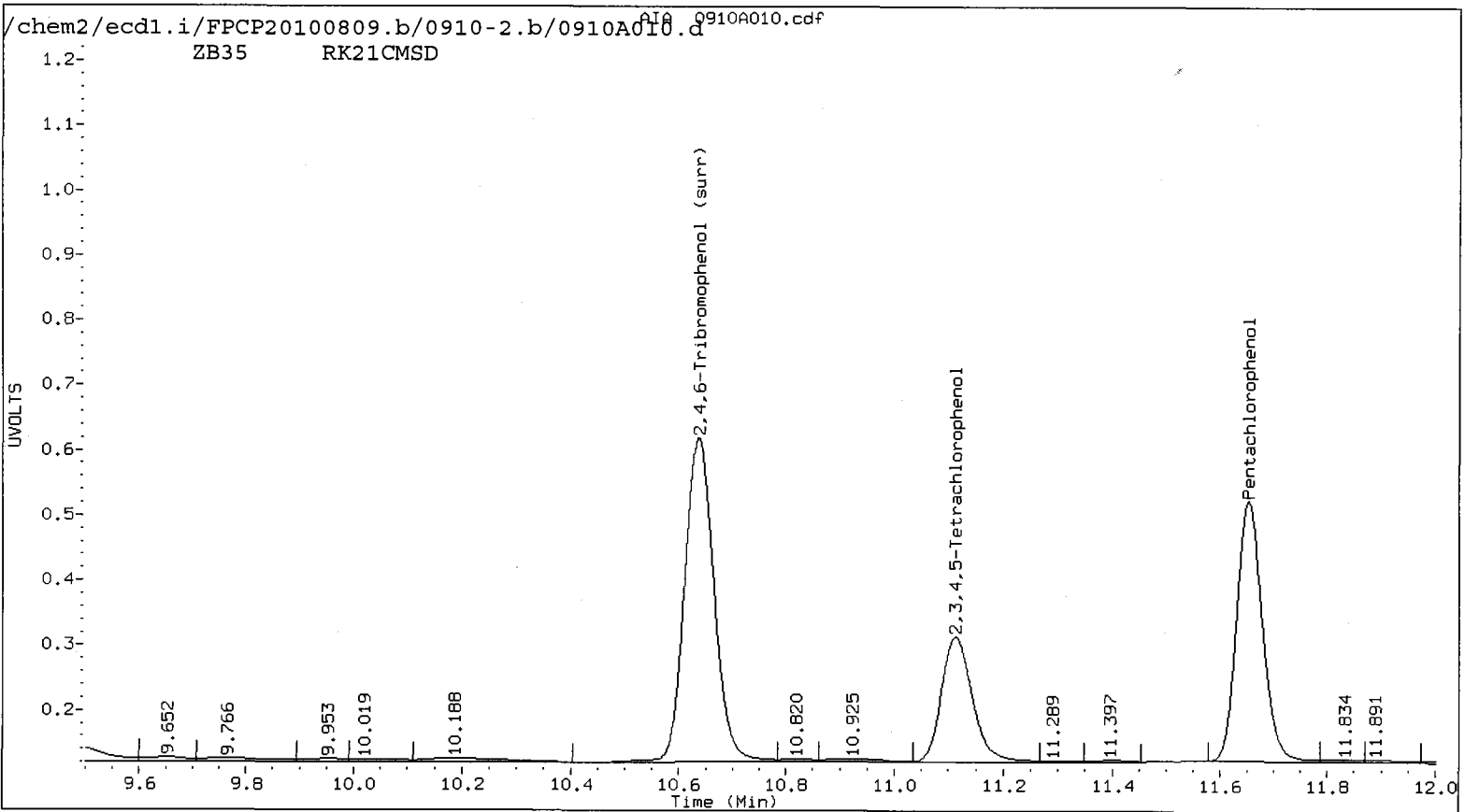
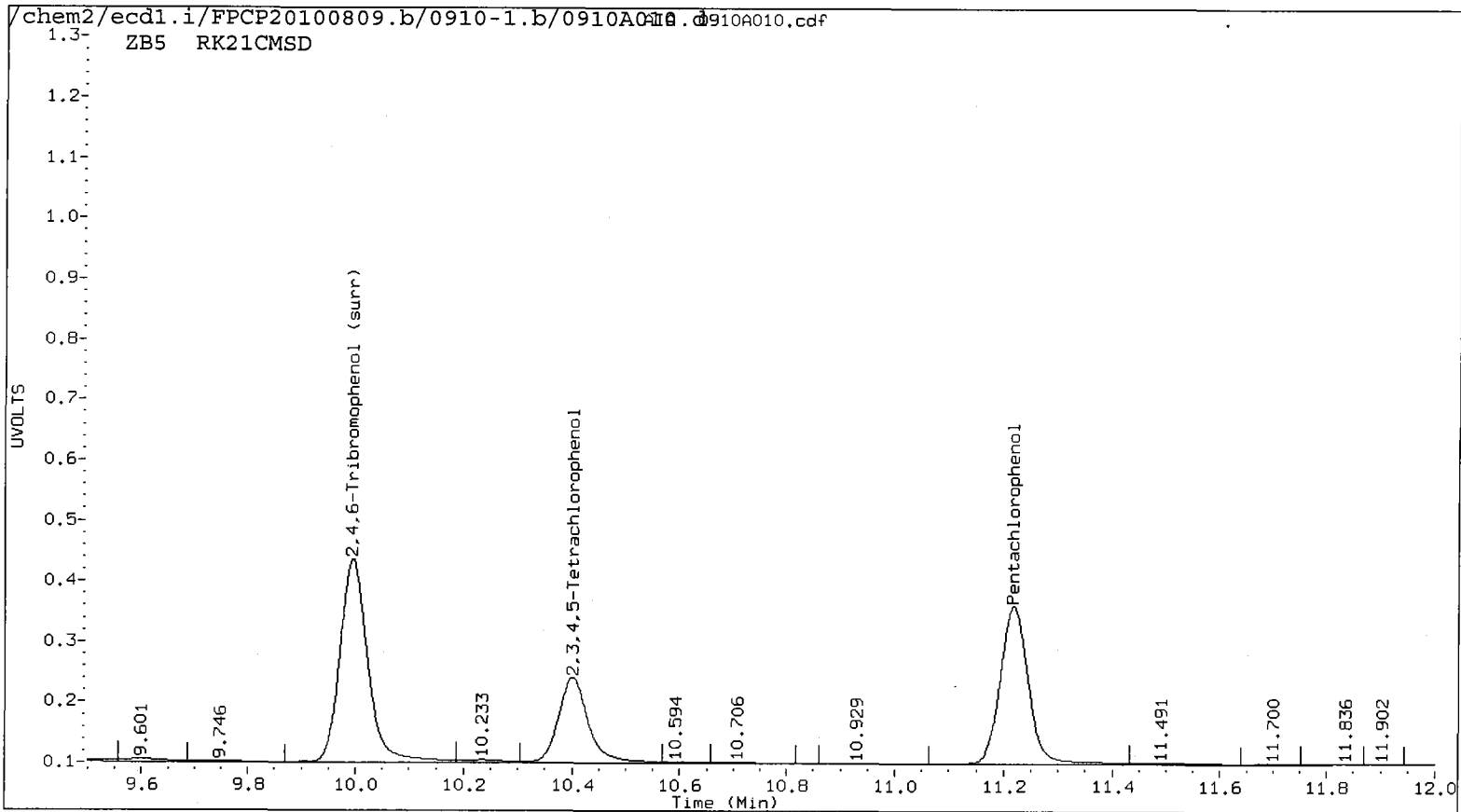
AR 9/14/10

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 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A010.d Client ID: MW16-39-40-0824 MSD
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 18:18
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col Shift Response	RT	ZB35 Col Shift Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.217	-0.002 470733	11.652	-0.006 674998	31.3430	29.3970	6.4	Pentachlorophenol
7.267	0.003 277121	7.335	0.002 433863	34.1092	34.7519	1.9	2,4,6-Trichlorophenol
7.619	0.000 261834	7.862	-0.002 385108	30.2862	31.0358	2.4	2,3,6-Trichlorophenol
8.222	-0.020 150045	8.595	-0.020 196946	29.7265	32.5965	9.2	2,4,5-Trichlorophenol
8.772	-0.020 166374	9.360	-0.020 245119	24.3198	29.5545	19.4	2,3,4-Trichlorophenol
9.000	-0.007 373442	9.265	-0.012 542297	26.4747	29.2899	10.1	2,3,5,6-Tetrachlorophenol
10.400	-0.013 279572	11.112	-0.014 379836	27.5364	26.0328	5.6	2,3,4,5-Tetrachlorophenol
6.892	-0.001 145809	7.161	-0.005 249188	312.3820	447.5921	35.6	2,4-Dichlorophenol
9.995	-0.007 610999	10.635	-0.011 948205	54.8	50.8	7.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	125.4	117.6
2,4,6-Trichlorophenol	136.4	139.0
2,3,6-Trichlorophenol	121.1	124.1
2,4,5-Trichlorophenol	118.9	130.4
2,3,4-Trichlorophenol	97.3	118.2
2,3,5,6-Tetrachlorophenol	105.9	117.2
2,3,4,5-Tetrachlorophenol	110.1	104.1
2,4-Dichlorophenol	125.0	179.0
2,4,6-TBP (surr)	109.6	101.6

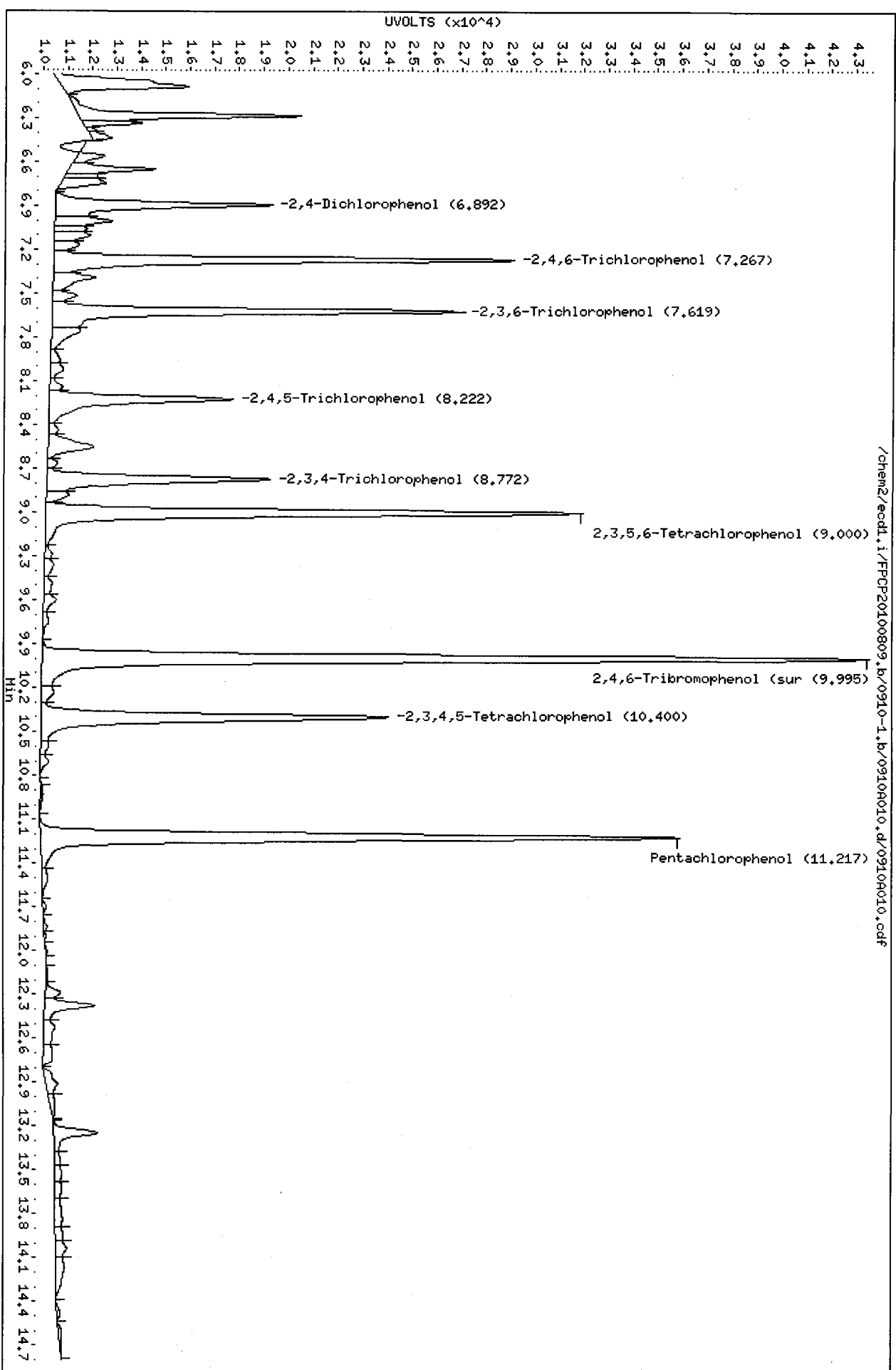


RK21 : 00333

Data File: /chem2/ecdl.i/FPDF20100809.b/0910-1.b/0910A010.d
Date: 10-SEP-2010 18:18
Client ID: MML6-39-40-0824 HSD
Sample Info: RK21CHMSD

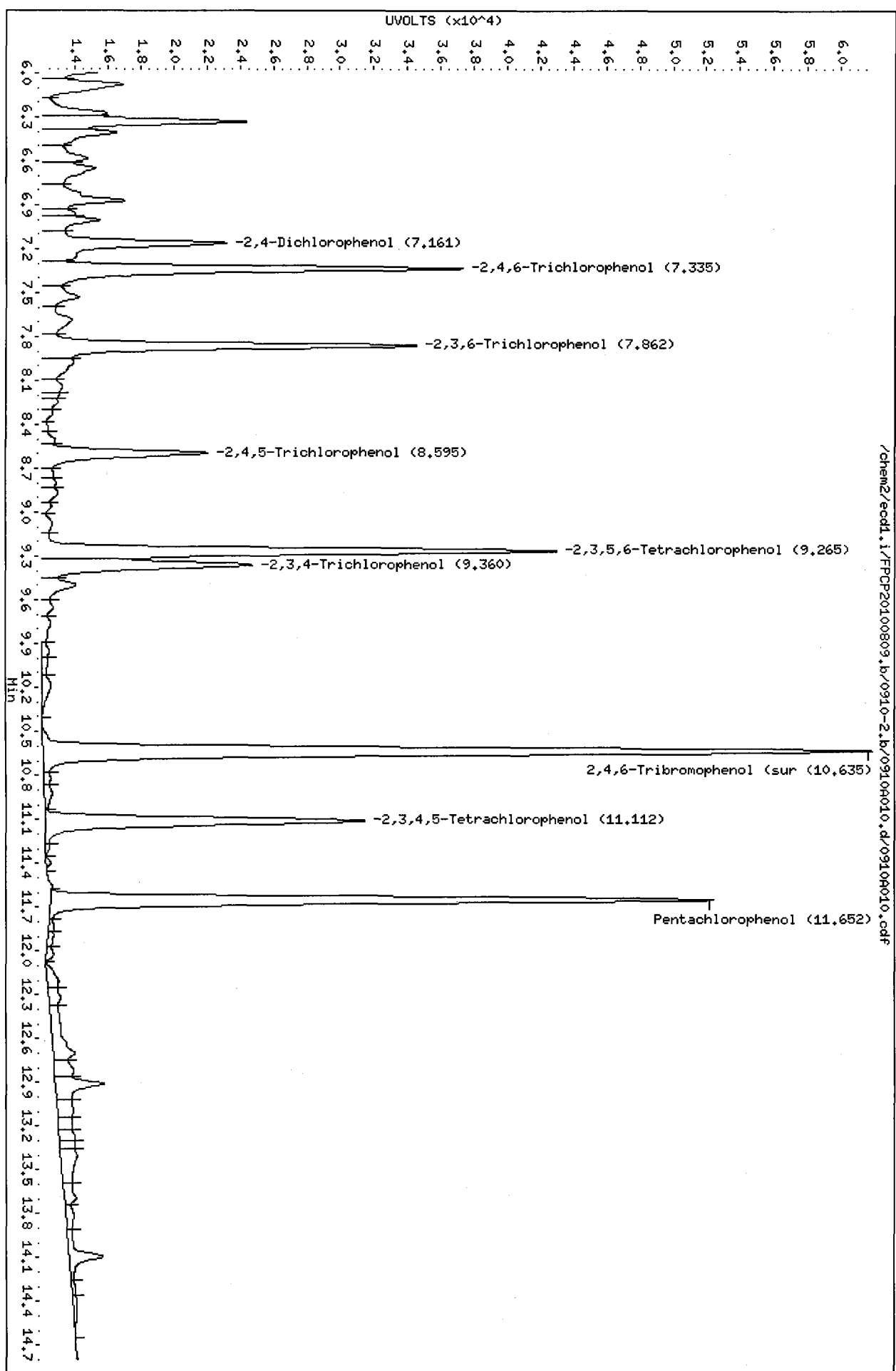
Column phase: ZB5

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdd1.i/PCP20100809.b/0910-2.b/0910A010.d
Date: 10-SEP-2010 18:18
Client ID: MM16-39-40-0824 HSD
Sample Info: RK21CHSD
Column phase: ZB35

Instrument: ecdd1.i
Operator: ar
Column diameter: 0.53



/chem2/ecdd1.i/PCP20100809.b/0910-2.b/0910A010.d/0910A010.cdf

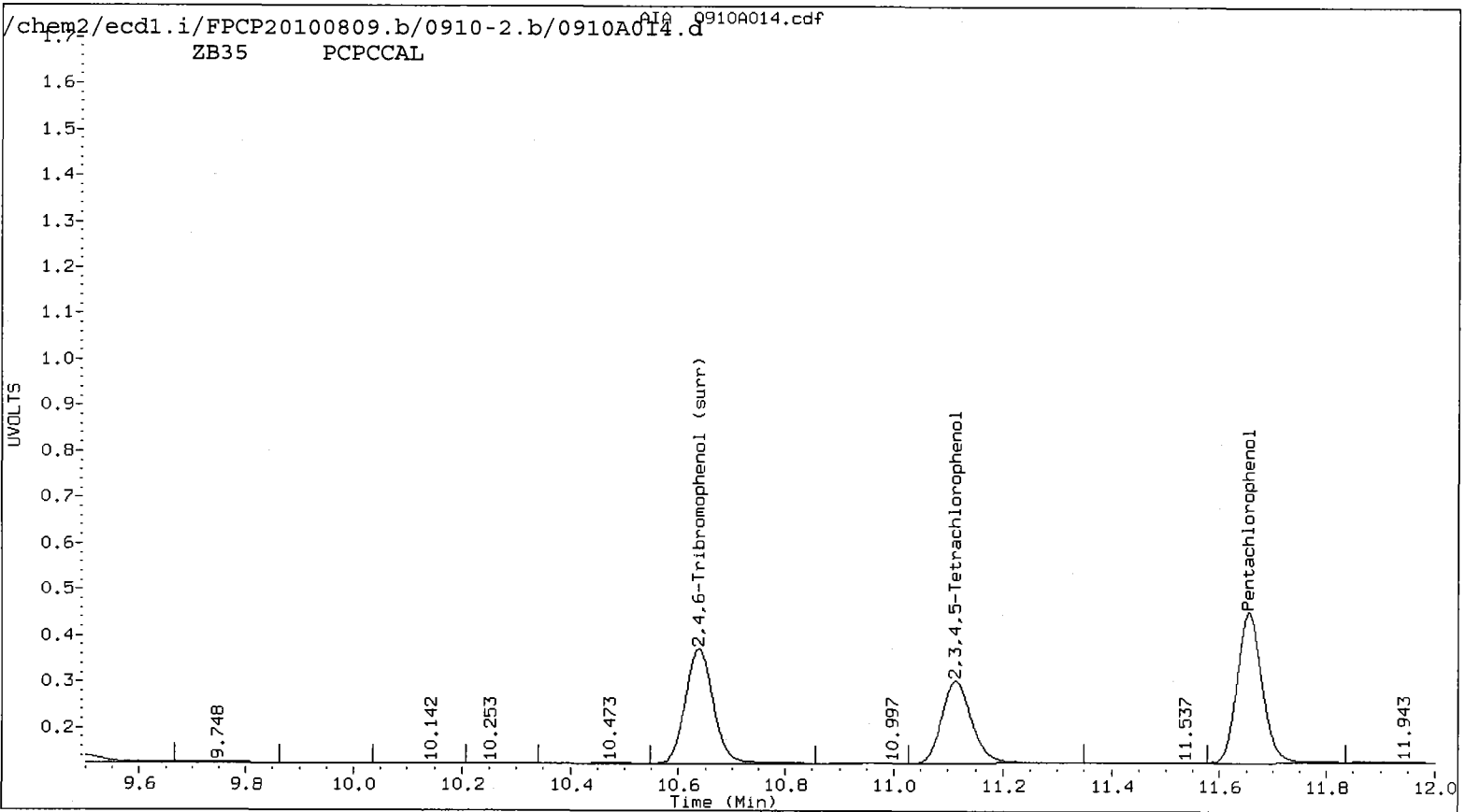
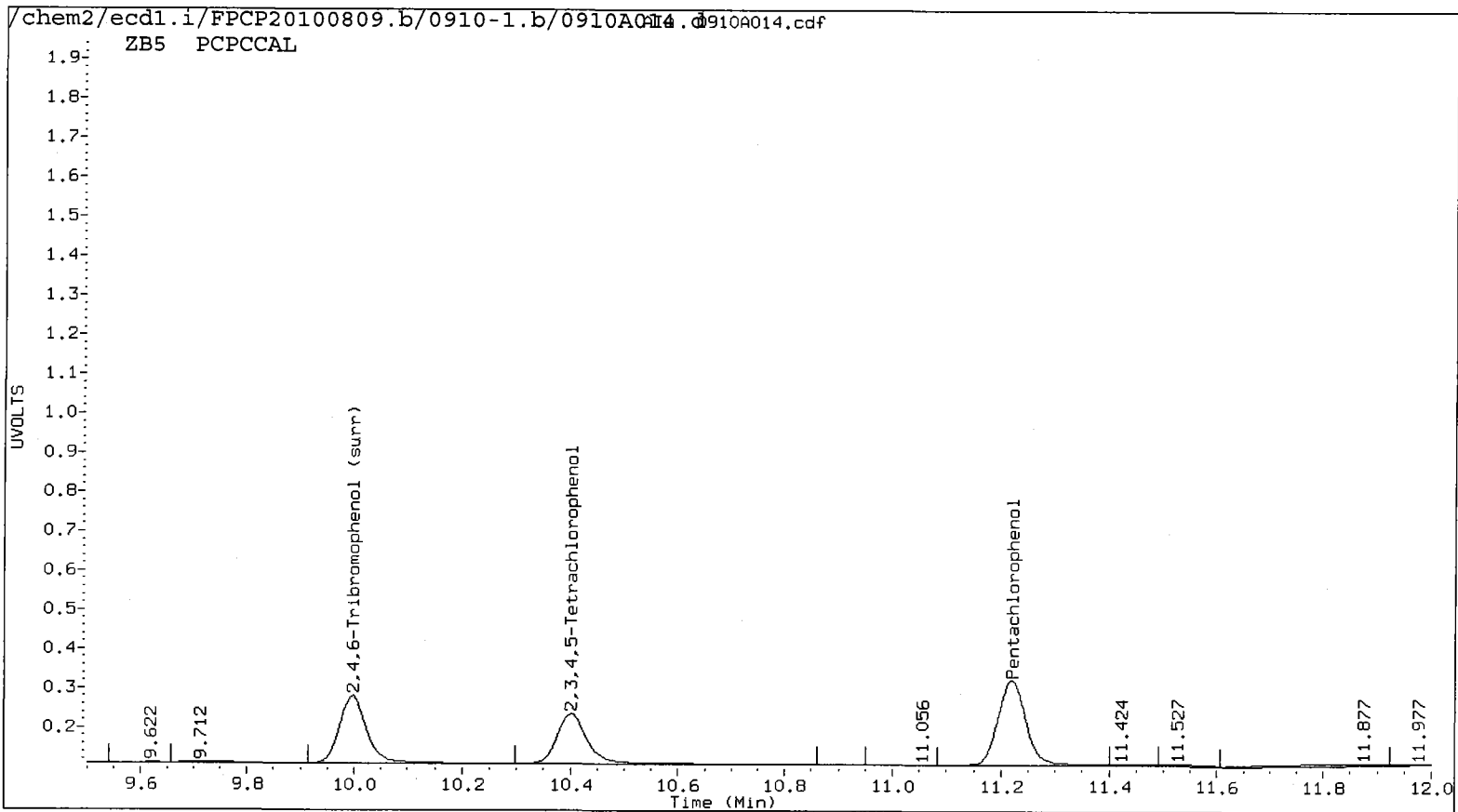
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A014.d ARI ID: PCPCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A014.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 19:38
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	398802	11.654	-0.004	542729	25.8723	23.6366	9.0	Pentachlorophenol
7.268	0.004	210548	7.336	0.003	319637	24.9246	25.6025	2.7	2,4,6-Trichlorophenol
7.621	0.002	198931	7.863	-0.001	299783	22.3430	24.1595	7.8	2,3,6-Trichlorophenol
8.225	-0.017	125588	8.597	-0.018	163806	24.8812	26.3827	5.9	2,4,5-Trichlorophenol
8.774	-0.018	180672	9.362	-0.018	209083	26.4099	24.6765	6.8	2,3,4-Trichlorophenol
9.001	-0.006	356743	9.268	-0.009	460938	25.2909	24.8956	1.6	2,3,5,6-Tetrachlorophenol
10.401	-0.012	256028	11.114	-0.012	345335	24.8048	23.6682	4.7	2,3,4,5-Tetrachlorophenol
6.893	0.000	115615	7.162	-0.004	152939	233.5132	246.9232	5.6	2,4-Dichlorophenol
9.996	-0.006	313616	10.638	-0.008	453238	25.4	24.3	4.7	2,4,6-Tribromophenol (surr)

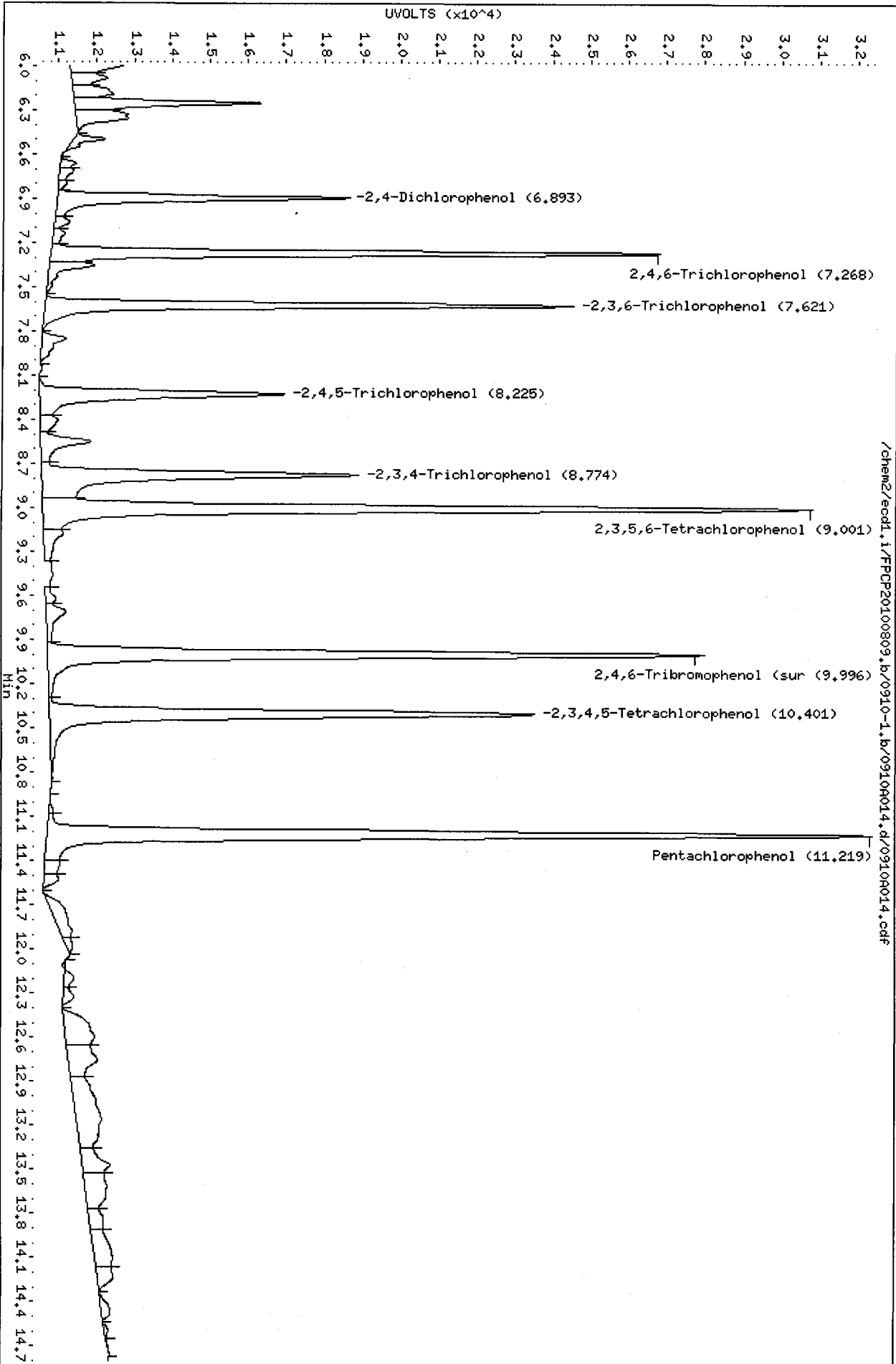
PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	103.5	94.5
2,4,6-Trichlorophenol	99.7	102.4
2,3,6-Trichlorophenol	89.4	96.6
2,4,5-Trichlorophenol	99.5	105.5
2,3,4-Trichlorophenol	105.6	98.7
2,3,5,6-Tetrachlorophenol	101.2	99.6
2,3,4,5-Tetrachlorophenol	99.2	94.7
2,4-Dichlorophenol	93.4	98.8
2,4,6-TBP (surr)	101.8	97.1



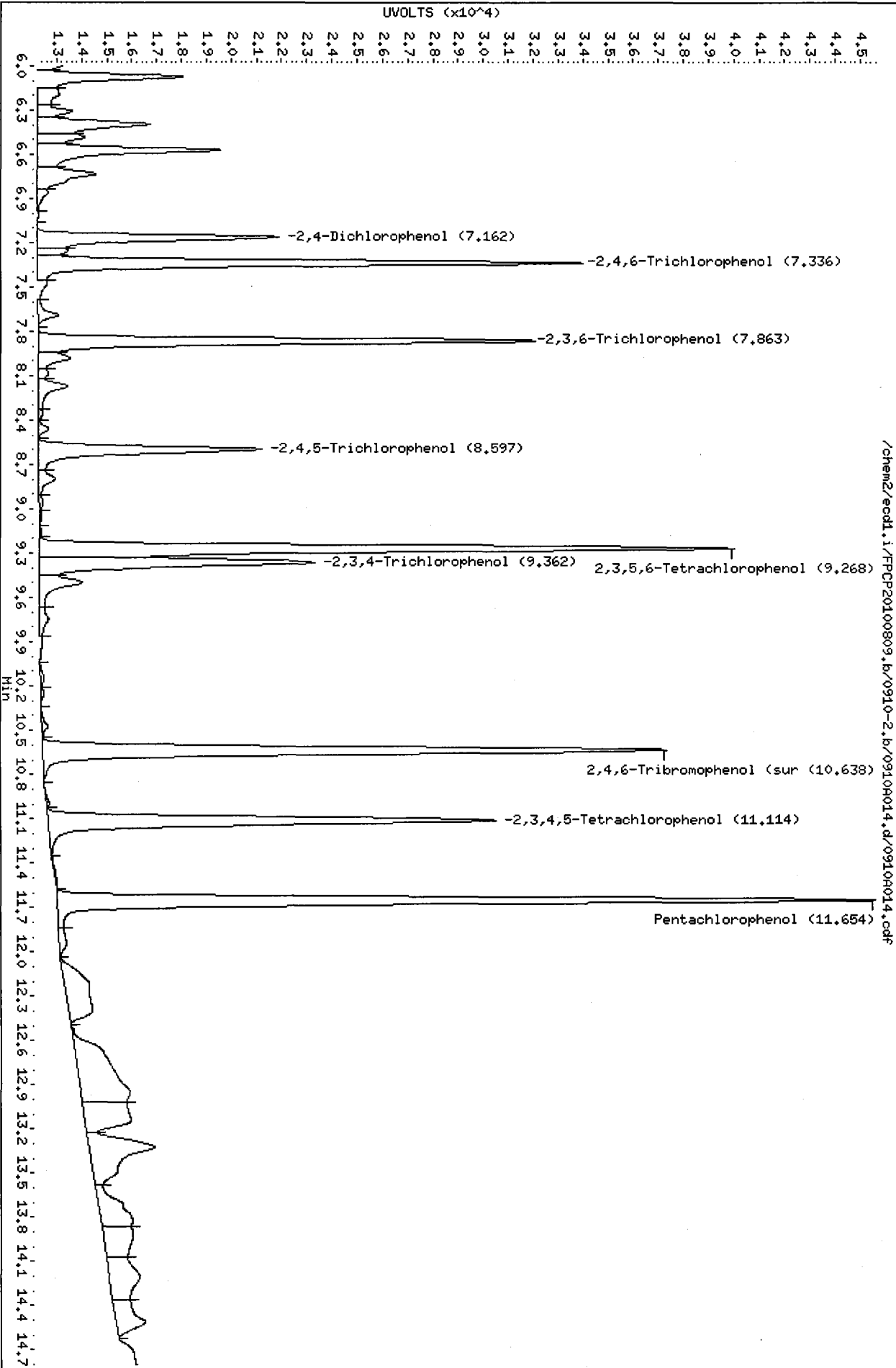
Data File: /chem2/ecdl.i/PPCP20100809.b/0910-1.b/0910A014.d
Date: 10-SEP-2010 19:38
Client ID:
Sample Info: PPCPCL
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdd1.i/PCPP20100809.b/0910-2.b/0910A014.d
Date: 10-SEP-2010 19:38
Client ID:
Sample Info: PCPPCAL
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdd1.i
Operator: ar
Column diameter: 0.53



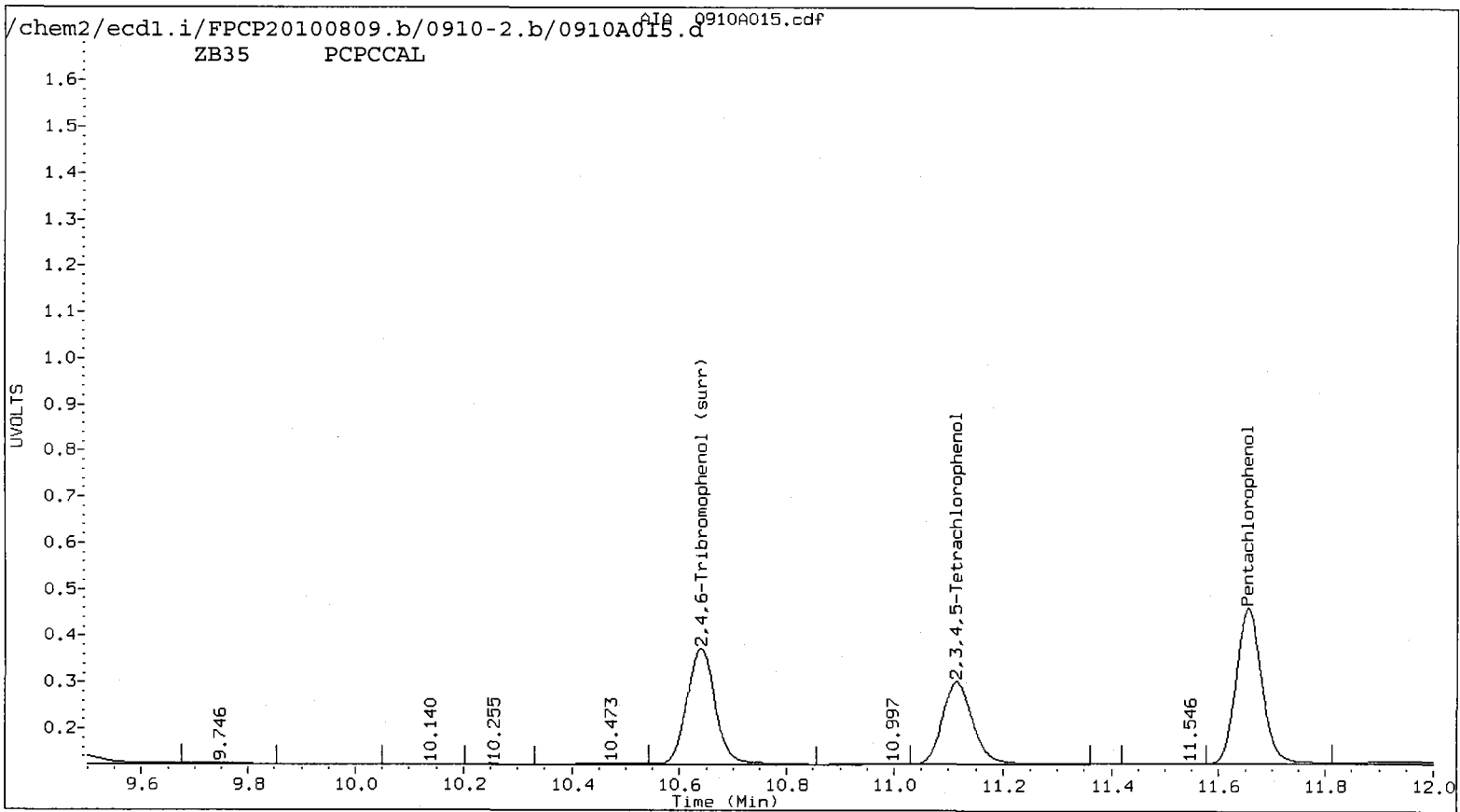
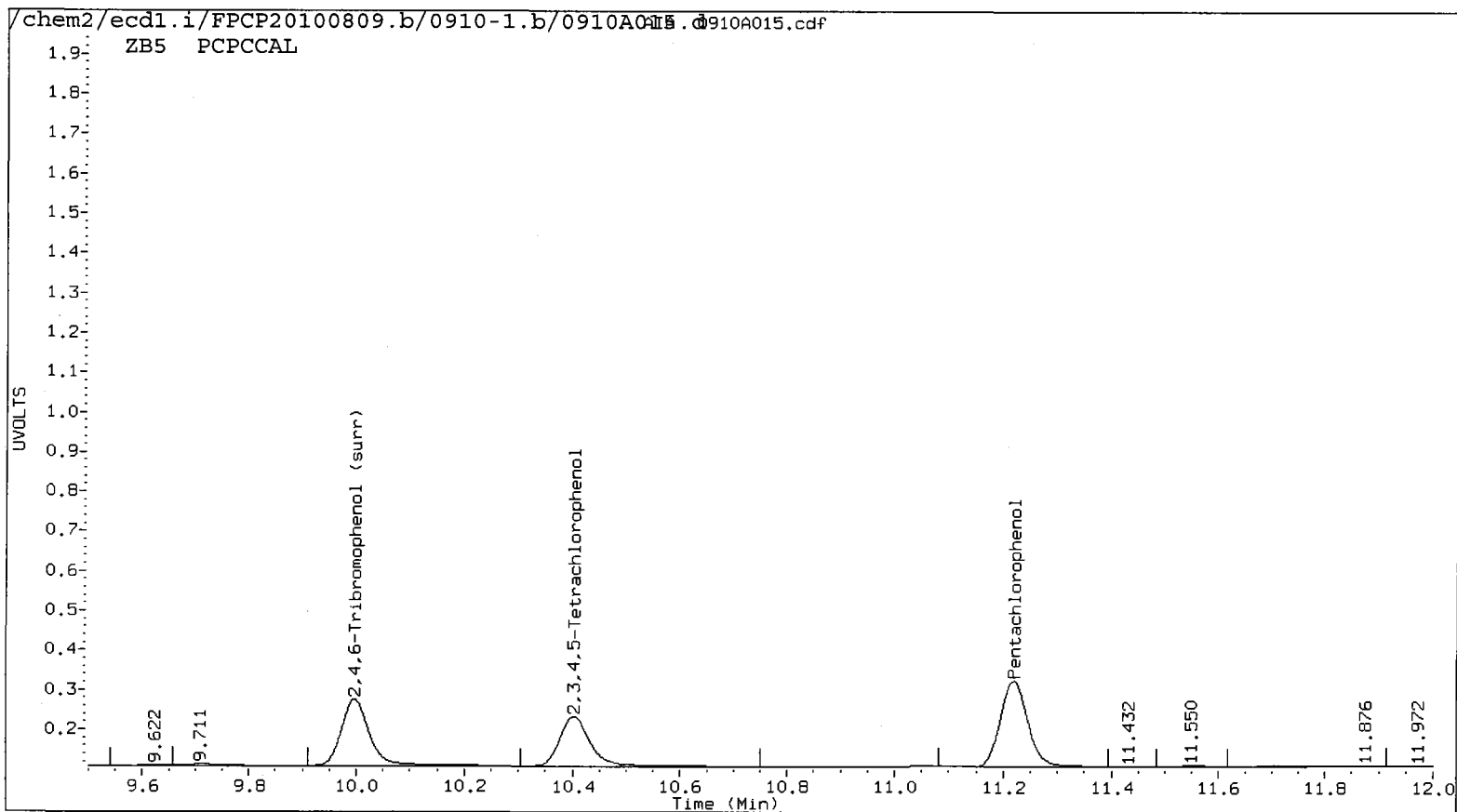
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A015.d ARI ID: PCPCCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A015.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 19:58
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	379187	11.655	-0.003	567603	24.4231	24.7199	1.2	Pentachlorophenol
7.268	0.004	216510	7.335	0.002	322284	25.7216	25.8146	0.4	2,4,6-Trichlorophenol
7.621	0.002	212571	7.863	-0.001	299485	24.0295	24.1354	0.4	2,3,6-Trichlorophenol
8.225	-0.018	129017	8.597	-0.018	164271	25.5606	26.4679	3.5	2,4,5-Trichlorophenol
8.774	-0.018	159818	9.362	-0.018	212362	23.3615	25.1128	7.2	2,3,4-Trichlorophenol
9.001	-0.006	344892	9.267	-0.010	465398	24.4507	25.1365	2.8	2,3,5,6-Tetrachlorophenol
10.402	-0.011	248637	11.114	-0.012	347856	23.9630	23.8410	0.5	2,3,4,5-Tetrachlorophenol
6.893	0.000	119017	7.162	-0.004	160318	242.0278	261.0681	7.6	2,4-Dichlorophenol
9.997	-0.005	308751	10.638	-0.008	463098	25.0	24.8	0.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

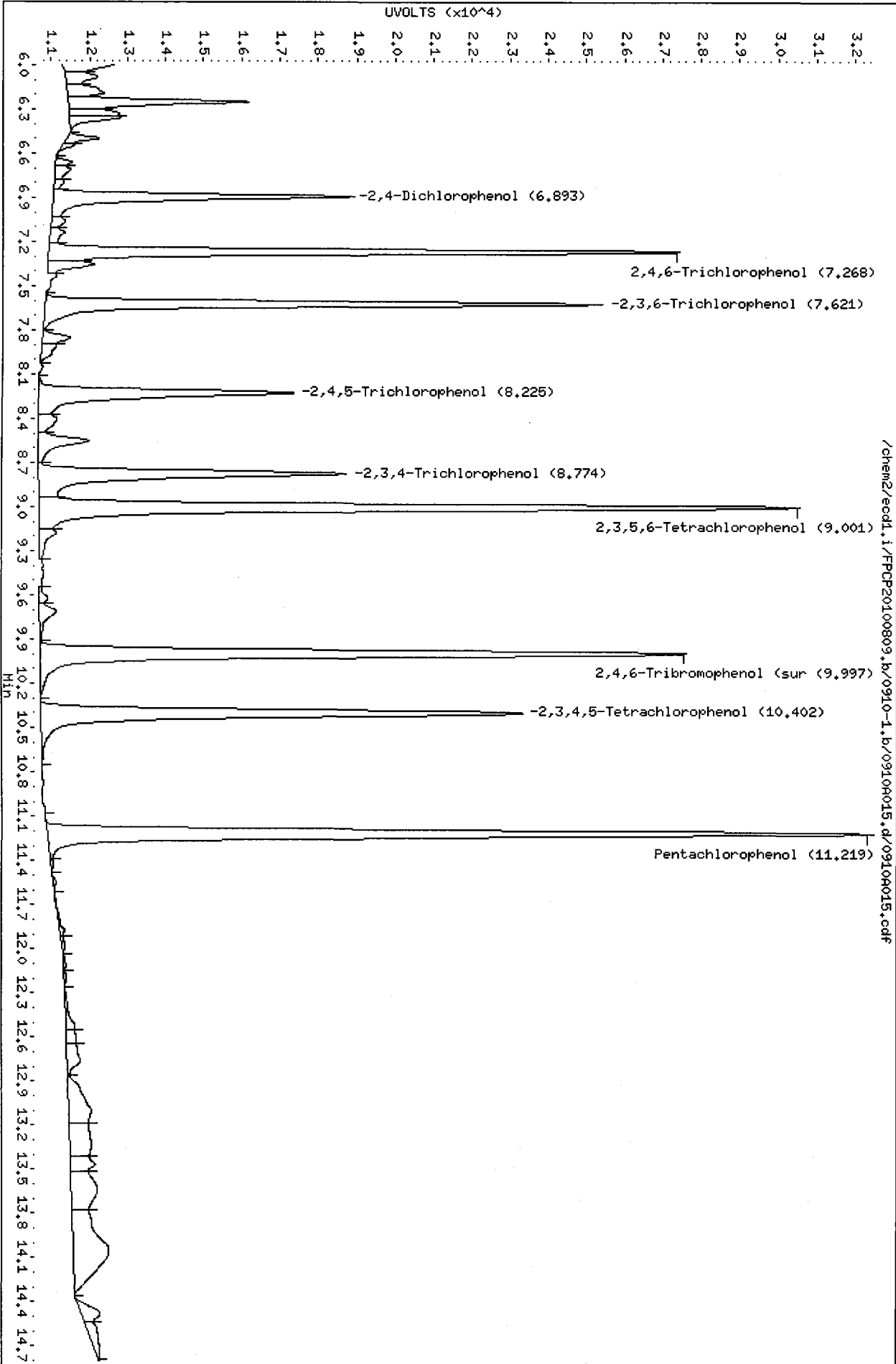
COMPOUND	Col1	Col2
Pentachlorophenol	97.7	98.9
2,4,6-Trichlorophenol	102.9	103.3
2,3,6-Trichlorophenol	96.1	96.5
2,4,5-Trichlorophenol	102.2	105.9
2,3,4-Trichlorophenol	93.4	100.5
2,3,5,6-Tetrachlorophenol	97.8	100.5
2,3,4,5-Tetrachlorophenol	95.9	95.4
2,4-Dichlorophenol	96.8	104.4
2,4,6-TBP (surr)	100.0	99.2



RK21 : 00341

Data File: /chem2/ecdl.i/PCP20100809.b/0910-1.b/09100015.d
Date: 10-SEP-2010 19:58
Client ID:
Sample Info: PCPCCAL
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20100809.b/0910-2.b/0910A015.d

Date: 10-SEP-2010 19:58

Client ID:

Sample Info: POPCCAL

Purge Volume: 2.0

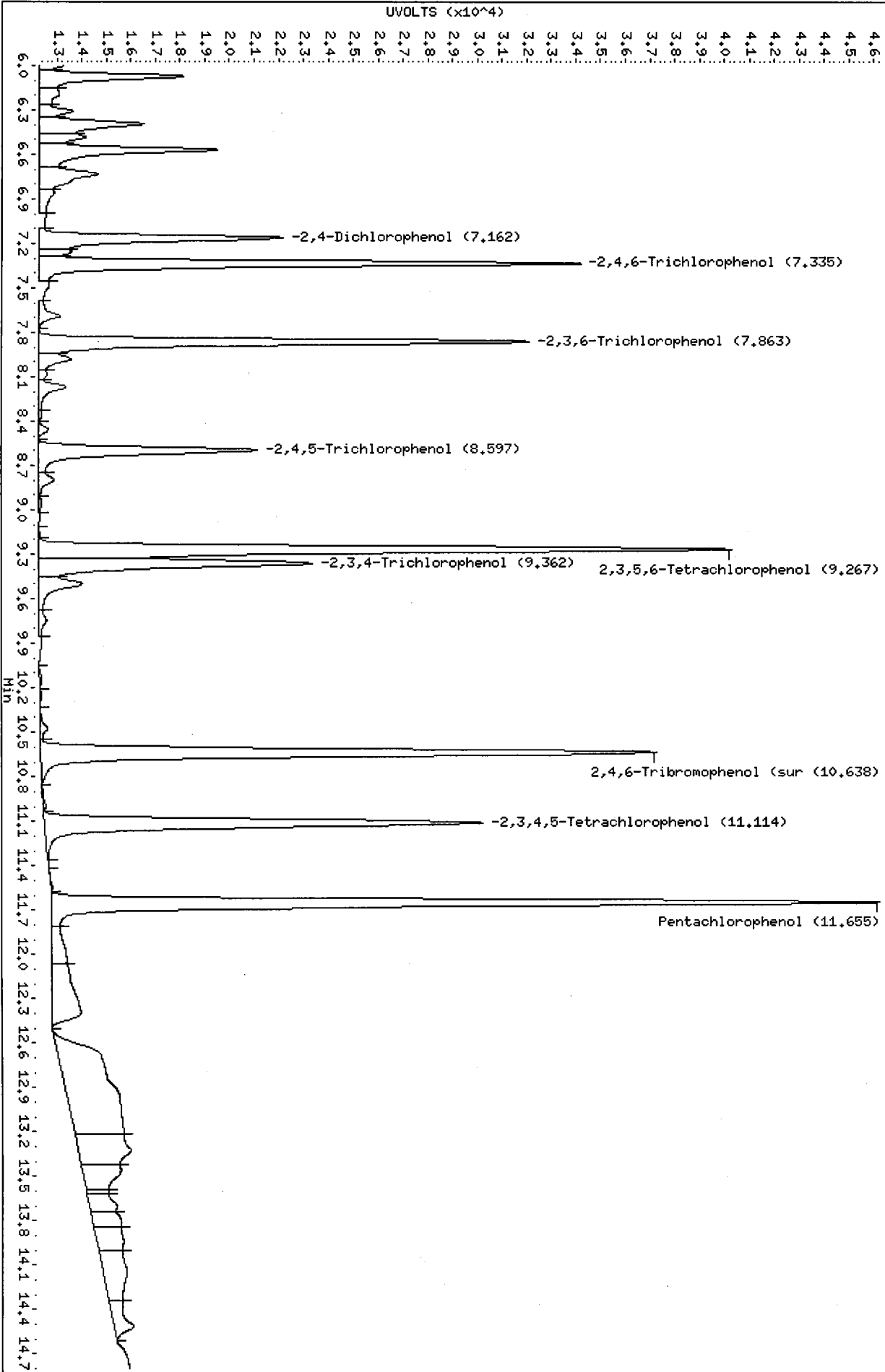
Column phase: ZB35

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

/chem2/ecdl.i/PCP20100809.b/0910-2.b/0910A015.d/0910A015.cdf



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

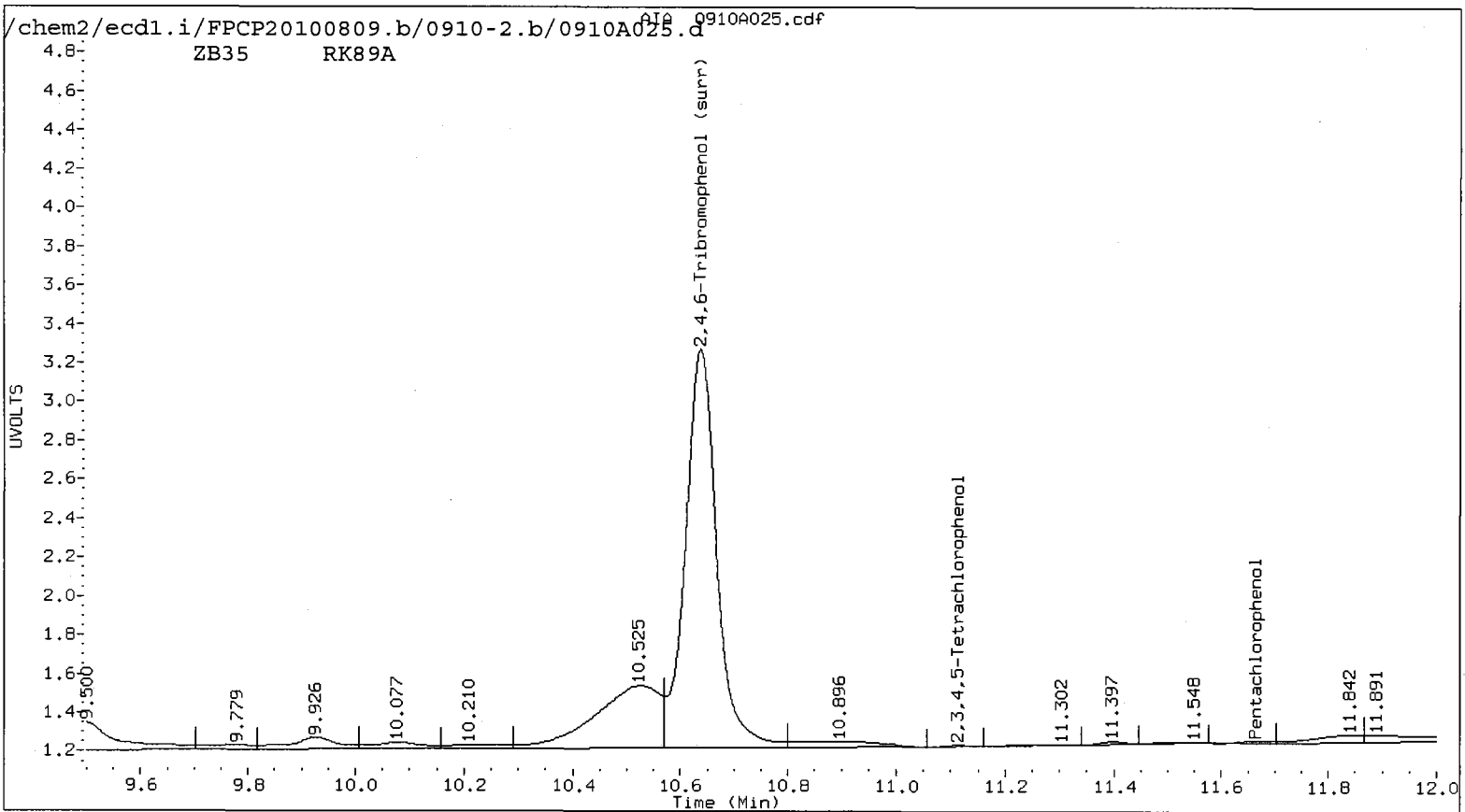
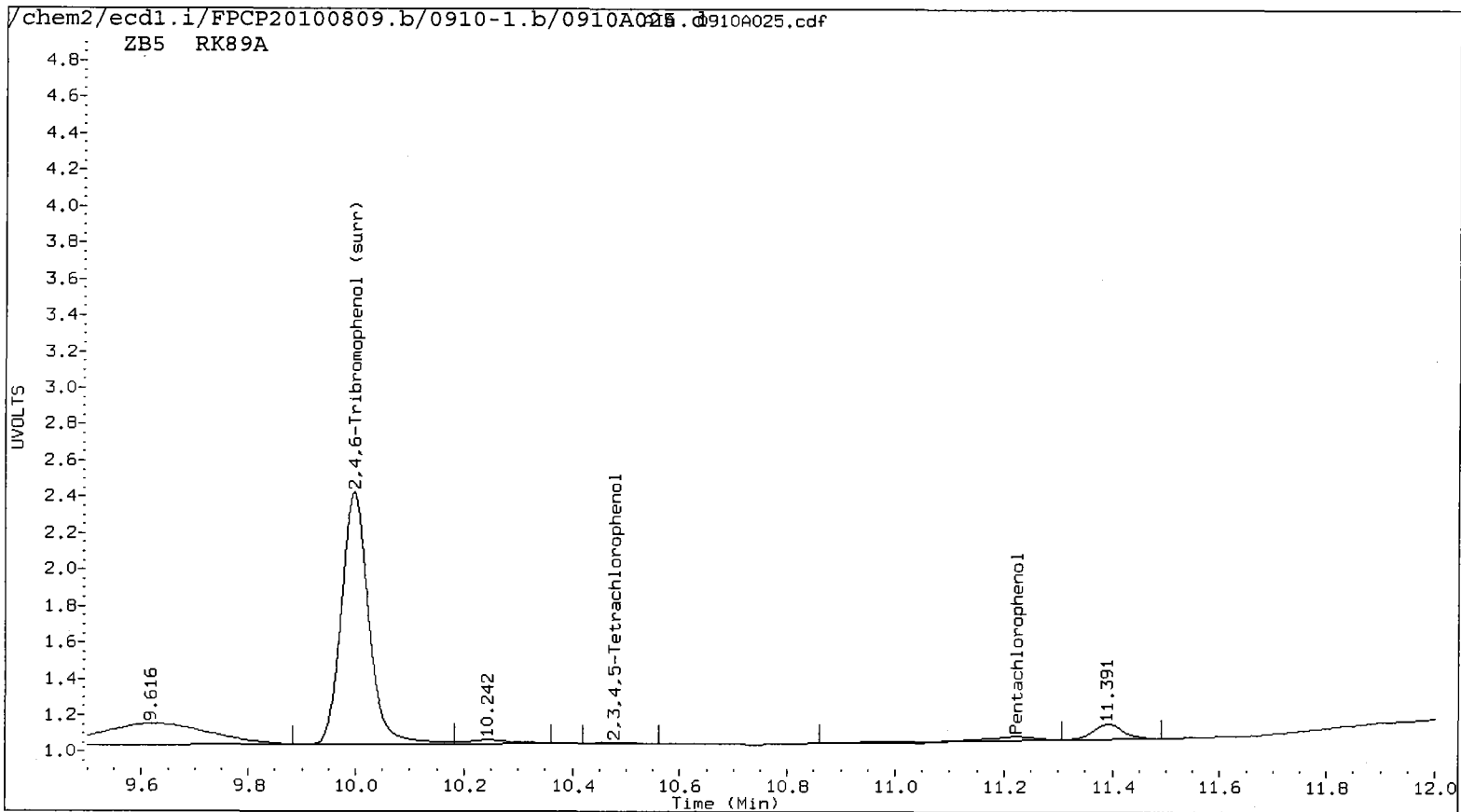
AR 9/14/10

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A025.d ARI ID: RK89A
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A025.d Client ID: MW17-50-51-082610
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 23:17
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: SOIL
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.222	0.003	5605	11.662	0.004	2033	0.3113	0.0886	111.4*	Pentachlorophenol
7.284	0.020	33522	7.321	-0.012	17958	3.5489	1.4384	84.6*	2,4,6-Trichlorophenol
7.626	0.007	7001	7.840	-0.024	8938	0.7147	0.7204	0.8	2,3,6-Trichlorophenol
8.270	0.028	30722	8.570	-0.045	4015	6.0866	0.5606	166.3*	2,4,5-Trichlorophenol
-----	-----	-----	-----	-----	-----	0.0000	0.0000	---	2,3,4-Trichlorophenol
9.042	0.035	353235	9.267	-0.010	11038	25.0422	0.5962	190.7*	2,3,5,6-Tetrachlorophenol
10.475	0.062	2082	11.114	-0.012	1436	0.1656	0.0985	50.8*	2,3,4,5-Tetrachlorophenol
-----	-----	-----	7.152	-0.014	12067	0.0000	16.2738	---	2,4-Dichlorophenol
9.997	-0.005	244297	10.638	-0.008	412240	19.3	22.1	13.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	77.3	88.3



Data File: /chem2/eod1.i/PPCP20100809.b/0910-1.b/09100025.d

Date : 10-SEP-2010 23:17

Client ID: MM17-50-51-082610

Sample Info: RK89A

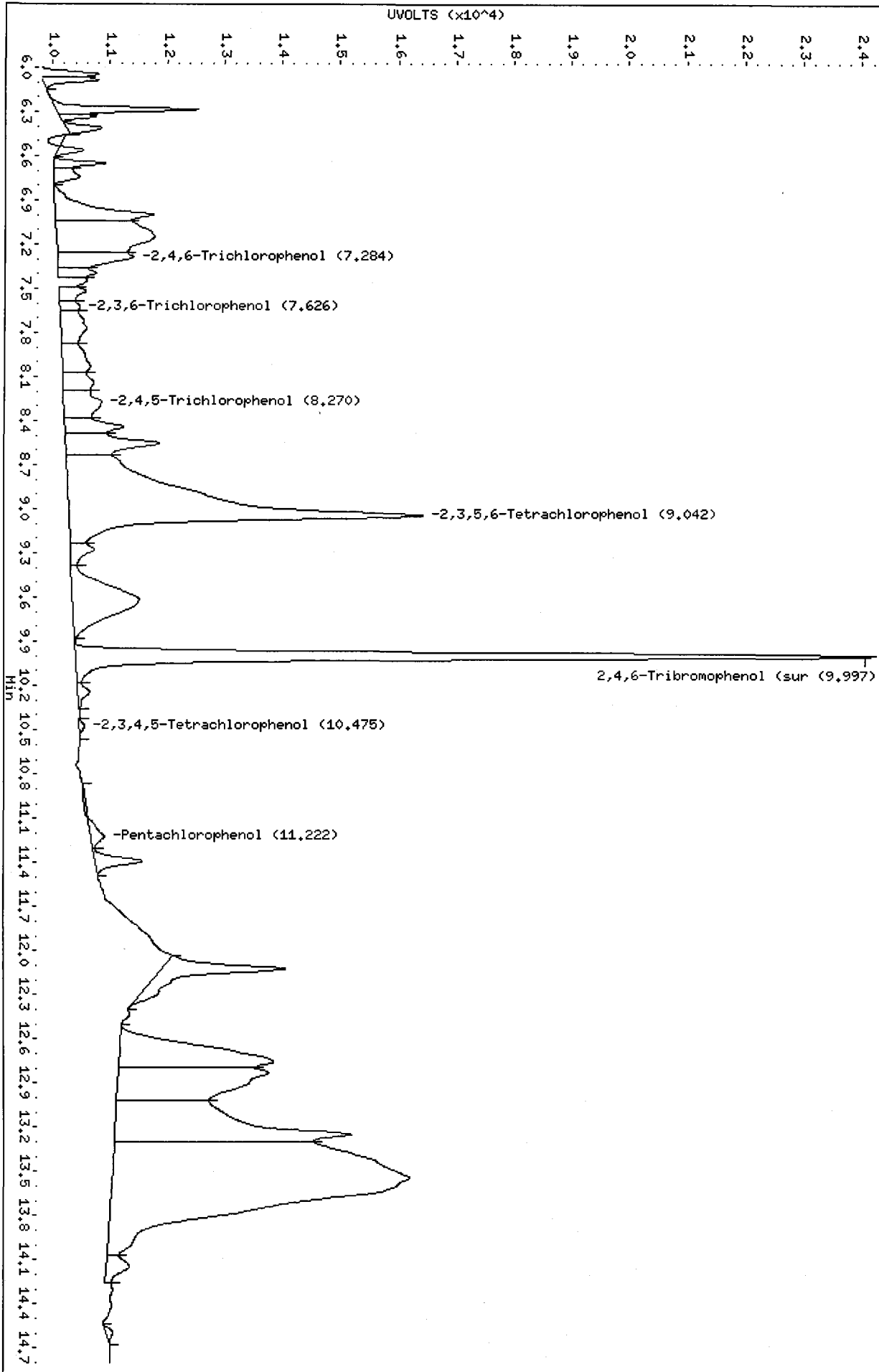
Column phase: ZB5

Instrument: eod1.i

Operator: ar

Column diameter: 0.53

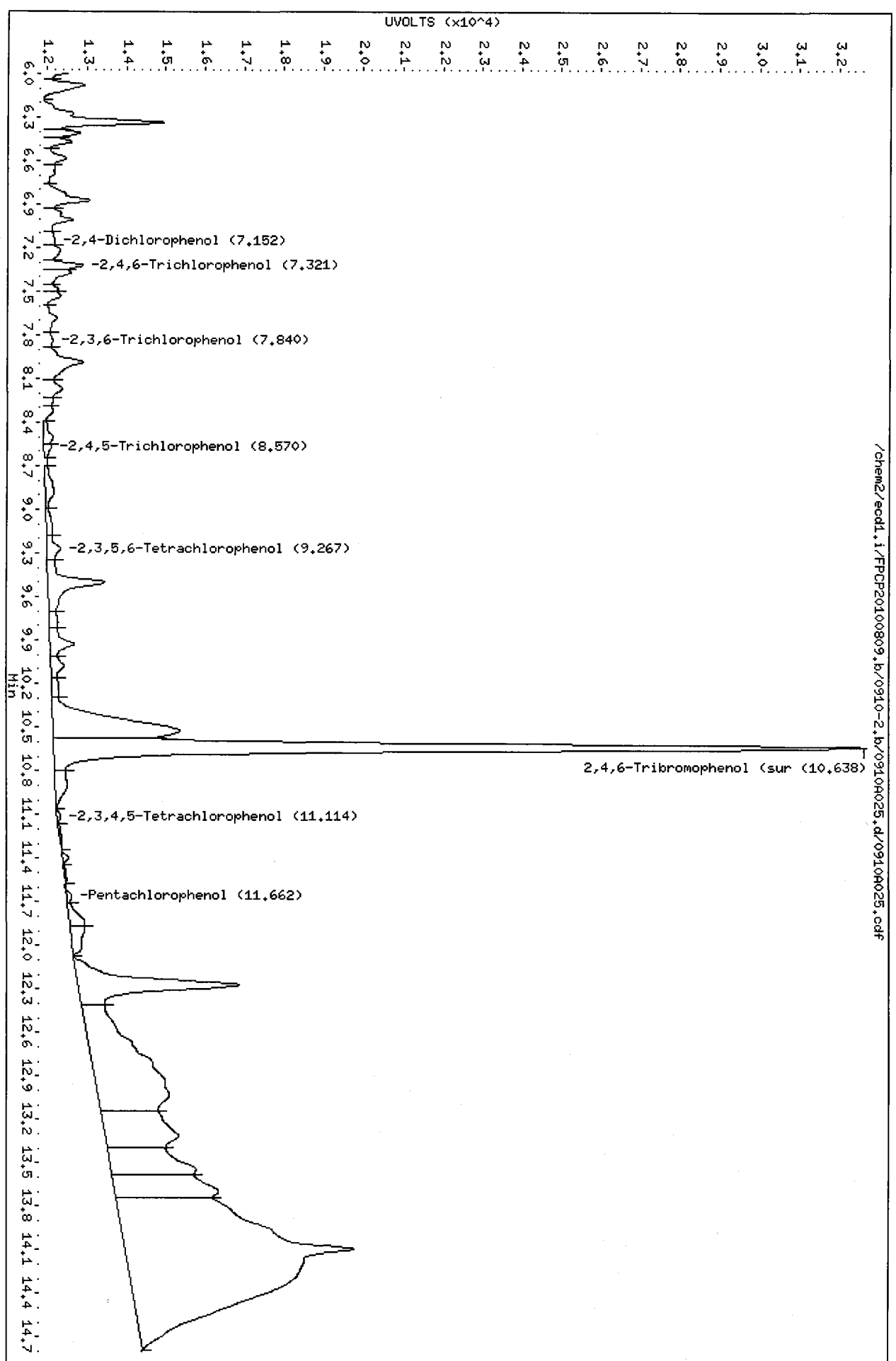
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Data File: /chem2/eodl.i/PPCP20100809.b/0910-2.b/0910A025.d
Date: 10-SEP-2010 23:17
Client ID: MML7-50-51-082610
Sample Info: RK89A
Column phase: ZB35

Instrument: eodl.i
Operator: ar
Column diameter: 0.53

/chem2/eodl.i/PPCP20100809.b/0910-2.b/0910A025.d/0910A025.cdf



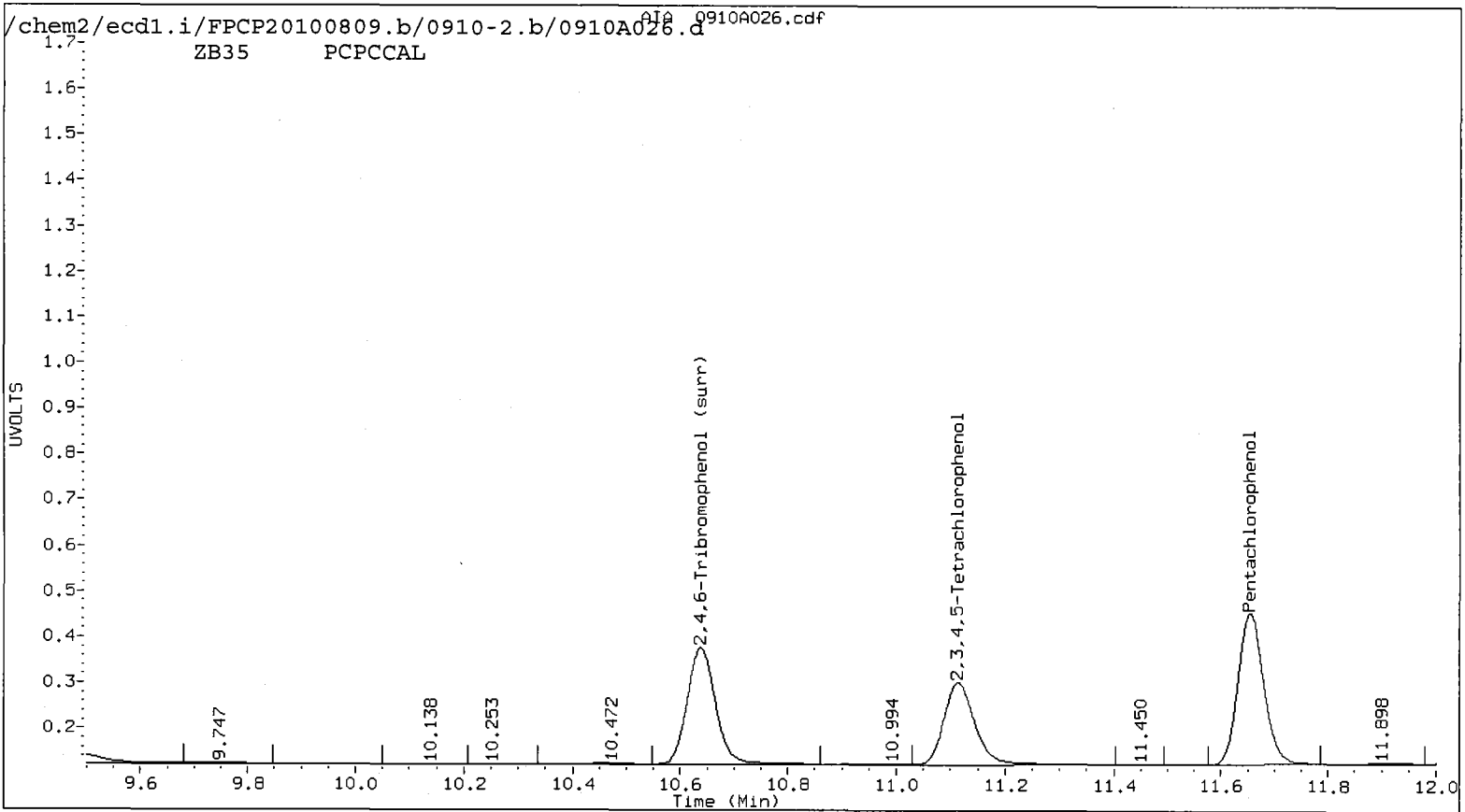
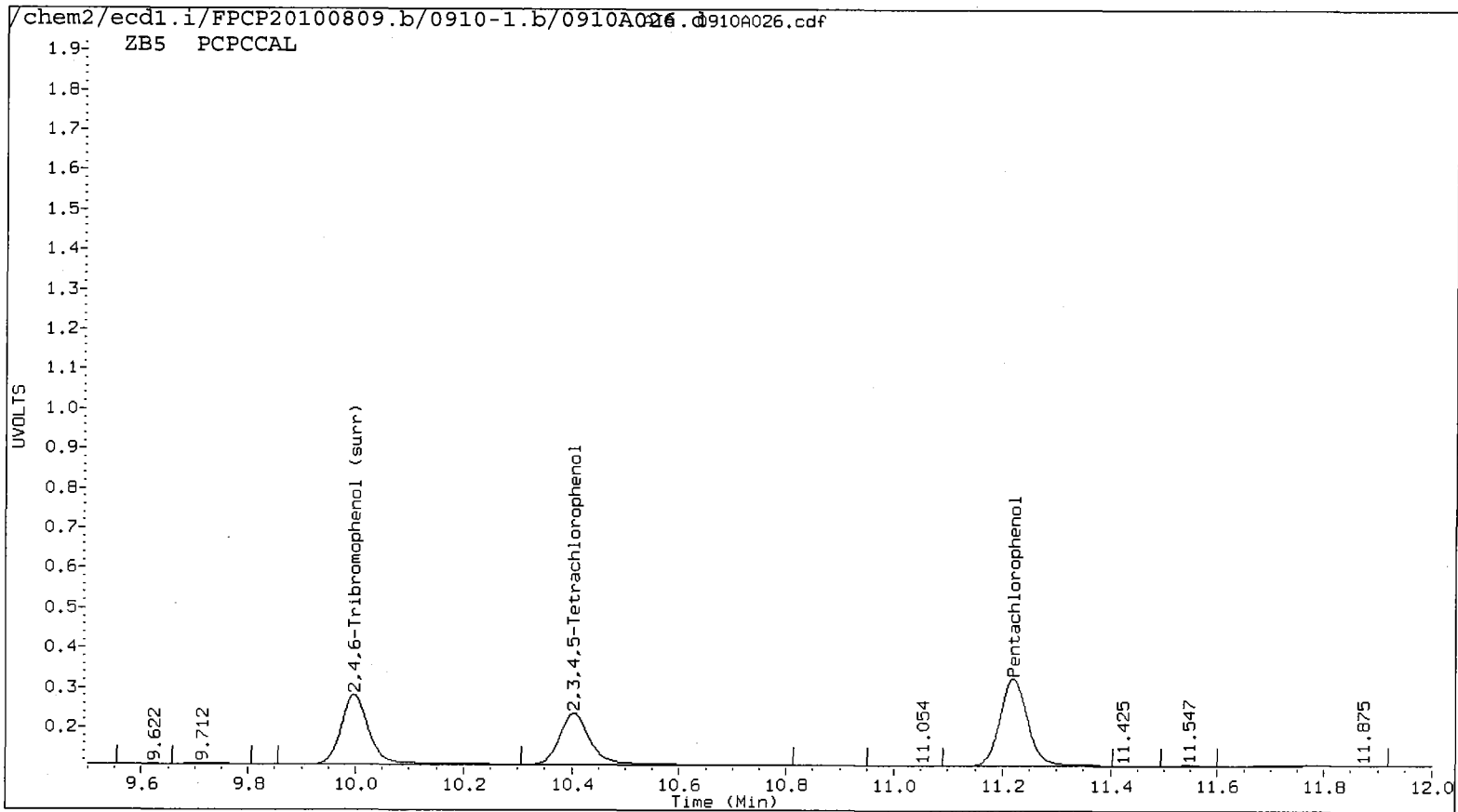
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A026.d ARI ID: PCPCCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A026.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 23:37
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	385700	11.655	-0.003	554441	24.9023	24.1467	3.1	Pentachlorophenol
7.268	0.004	222690	7.335	0.002	333658	26.5529	26.7256	0.6	2,4,6-Trichlorophenol
7.621	0.002	228897	7.864	0.000	315511	26.0744	25.4270	2.5	2,3,6-Trichlorophenol
8.225	-0.017	132361	8.597	-0.018	172163	26.2230	27.9220	6.3	2,4,5-Trichlorophenol
8.774	-0.018	164982	9.362	-0.018	216195	24.1164	25.6246	6.1	2,3,4-Trichlorophenol
9.002	-0.005	344390	9.268	-0.009	474041	24.4151	25.6033	4.8	2,3,5,6-Tetrachlorophenol
10.403	-0.010	255409	11.114	-0.012	353246	24.7340	24.2104	2.1	2,3,4,5-Tetrachlorophenol
6.893	0.000	120933	7.162	-0.004	166941	246.8667	273.9405	10.4	2,4-Dichlorophenol
9.997	-0.005	314389	10.638	-0.008	466822	25.5	25.0	2.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

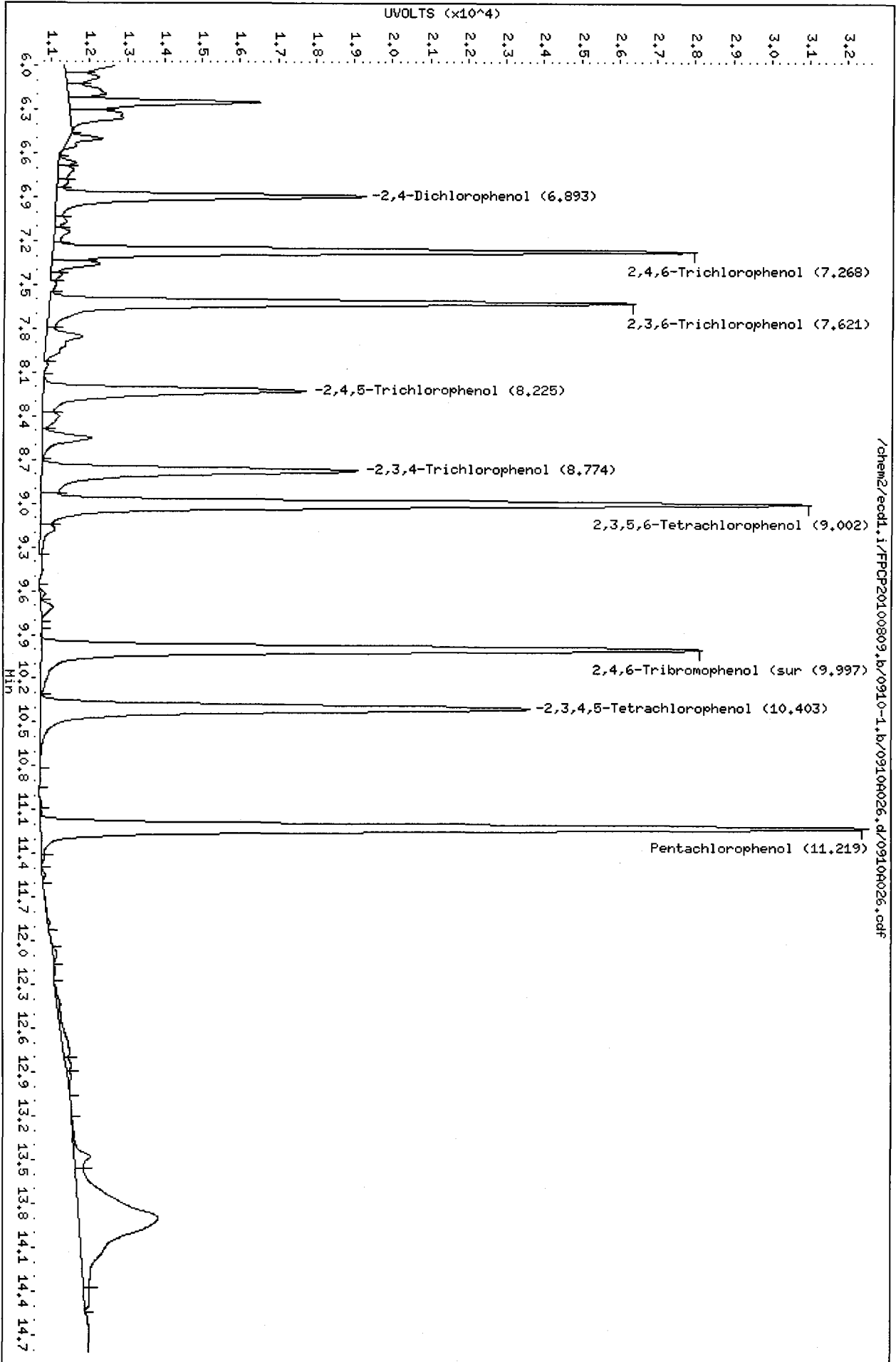
COMPOUND	Col1	Col2
Pentachlorophenol	99.6	96.6
2,4,6-Trichlorophenol	106.2	106.9
2,3,6-Trichlorophenol	104.3	101.7
2,4,5-Trichlorophenol	104.9	111.7
2,3,4-Trichlorophenol	96.5	102.5
2,3,5,6-Tetrachlorophenol	97.7	102.4
2,3,4,5-Tetrachlorophenol	98.9	96.8
2,4-Dichlorophenol	98.7	109.6
2,4,6-TBP (surr)	102.1	100.0



RK21 : 00349

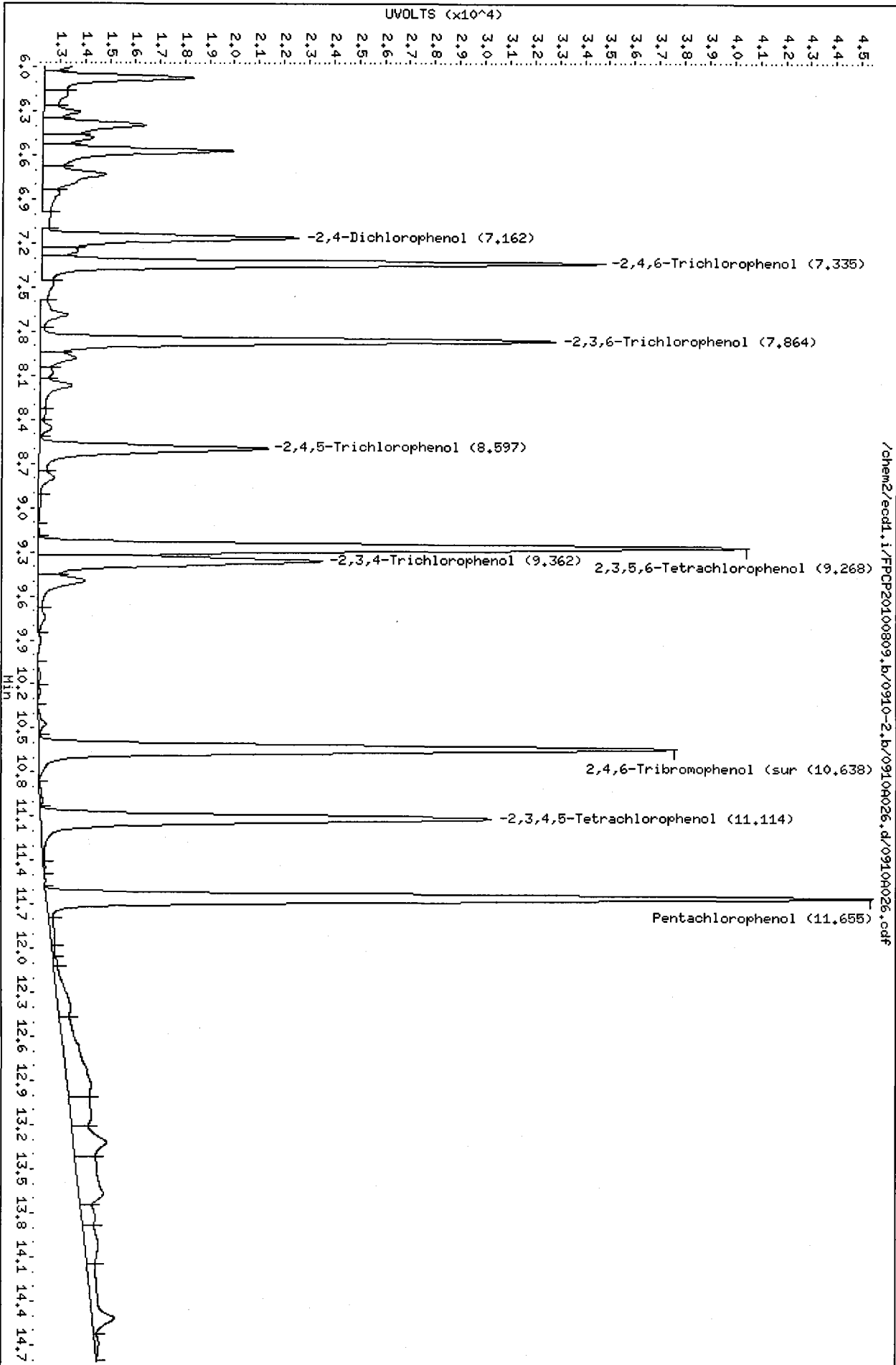
Data File: /chem2/eodl.i/FPCP20100809.b/0910-1.b/091004026.d
Date: 10-SEP-2010 23:37
Client ID:
Sample Info: POCPCAL
Purge Volume: 2.0
Column phase: ZB5

Instrument: eodl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/09104026.d
Date: 10-SEP-2010 23:37
Client ID:
Sample Info: POPCCAL
Purge Volume: 2.0
Column phase: ZR35

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



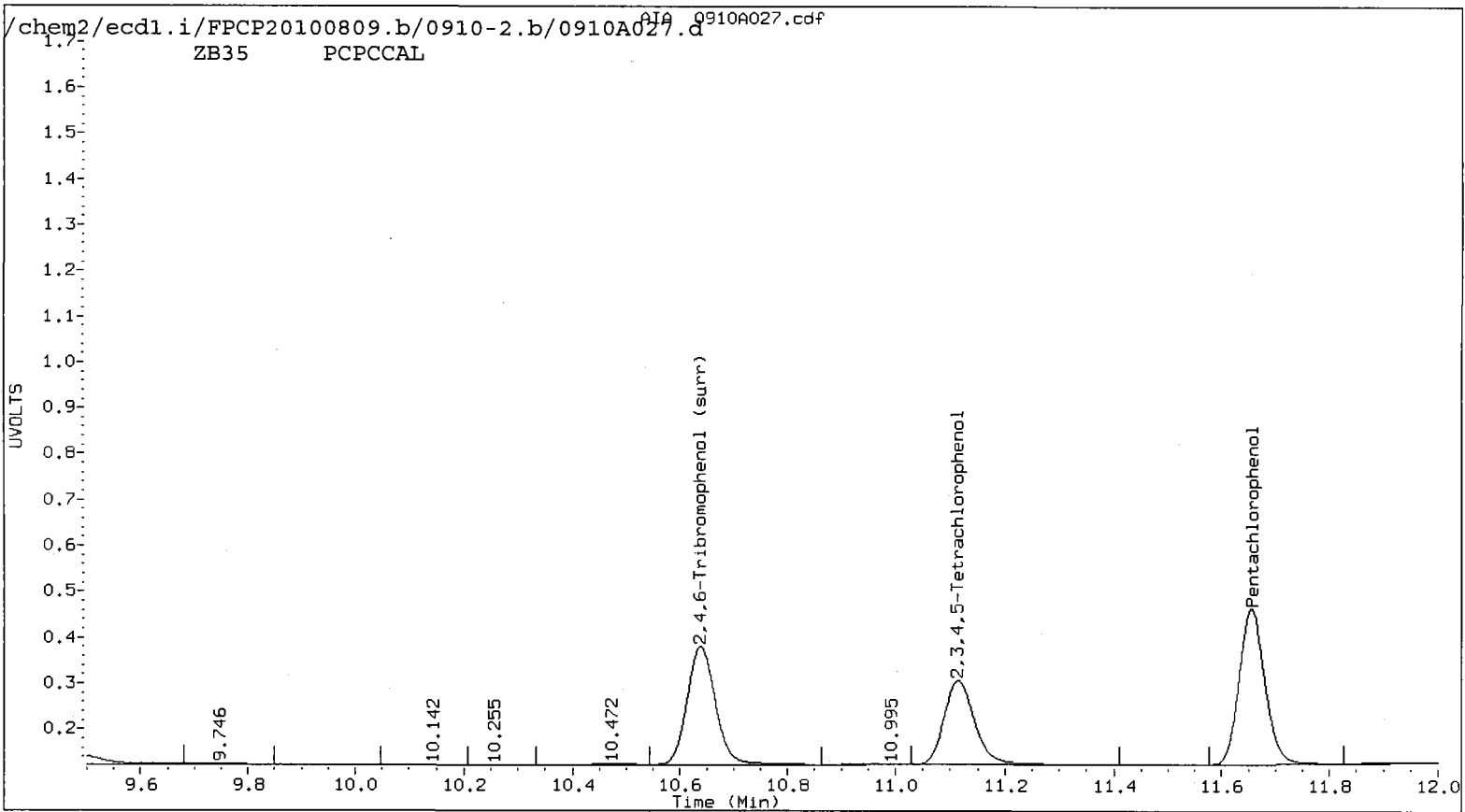
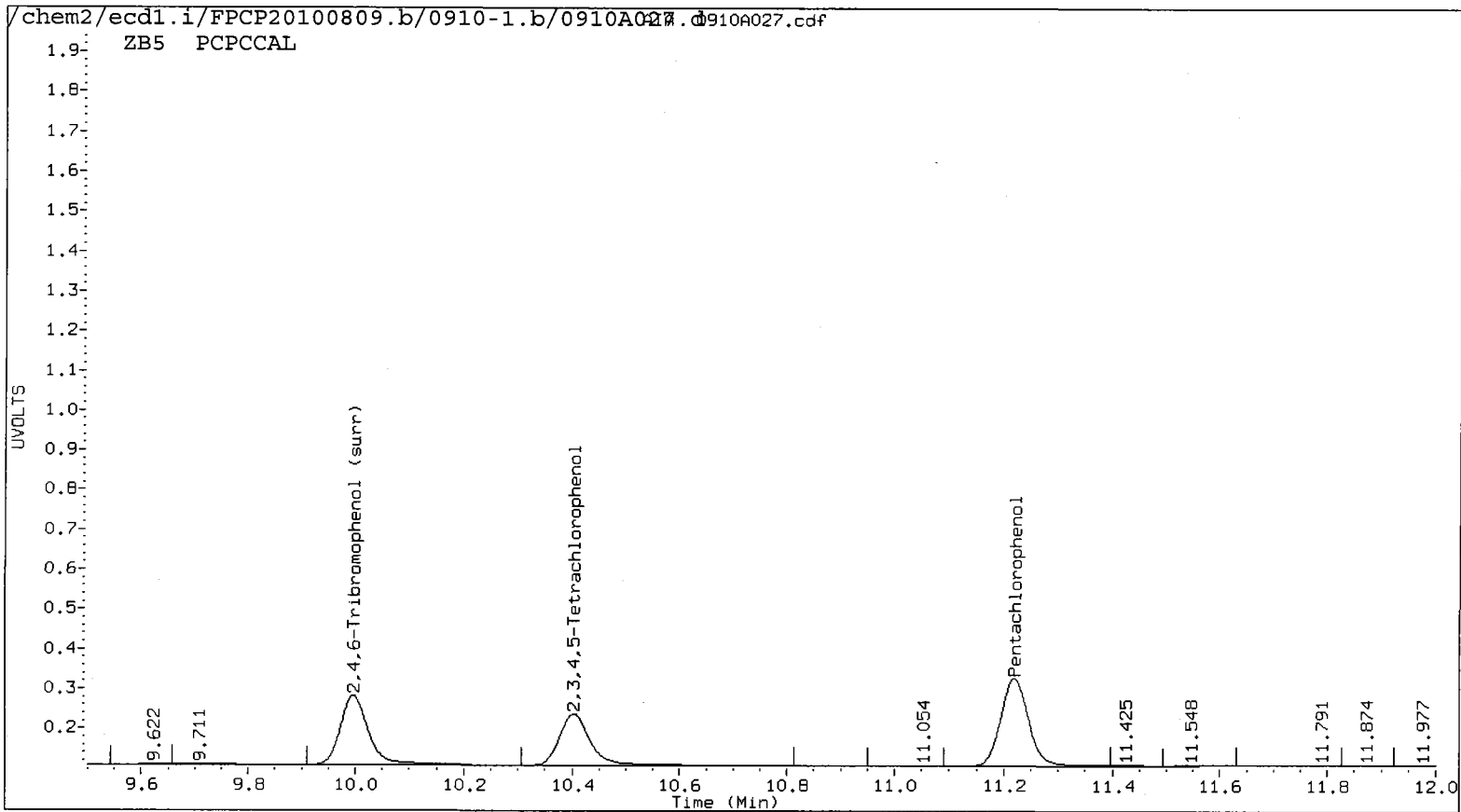
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0910-1.b/0910A027.d ARI ID: PCPCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0910-2.b/0910A027.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 10-SEP-2010 23:57
 Compound Sublist: all Report Date: 09/13/2010 13:05
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.219	0.000	387122	11.655	-0.003	570563	25.0072	24.8488	0.6	Pentachlorophenol
7.268	0.004	224169	7.336	0.003	336555	26.7527	26.9577	0.8	2,4,6-Trichlorophenol
7.621	0.002	230599	7.864	0.000	312312	26.2891	25.1692	4.4	2,3,6-Trichlorophenol
8.225	-0.017	133520	8.597	-0.018	171845	26.4526	27.8630	5.2	2,4,5-Trichlorophenol
8.774	-0.018	160571	9.362	-0.018	219579	23.4716	26.0783	10.5	2,3,4-Trichlorophenol
9.002	-0.005	354043	9.268	-0.009	481288	25.0994	25.9947	3.5	2,3,5,6-Tetrachlorophenol
10.403	-0.010	256676	11.114	-0.012	358585	24.8790	24.5763	1.2	2,3,4,5-Tetrachlorophenol
6.893	0.000	121115	7.162	-0.004	167920	247.3285	275.8577	10.9	2,4-Dichlorophenol
9.996	-0.006	315867	10.638	-0.008	475702	25.6	25.5	0.6	2,4,6-Tribromophenol (surr)

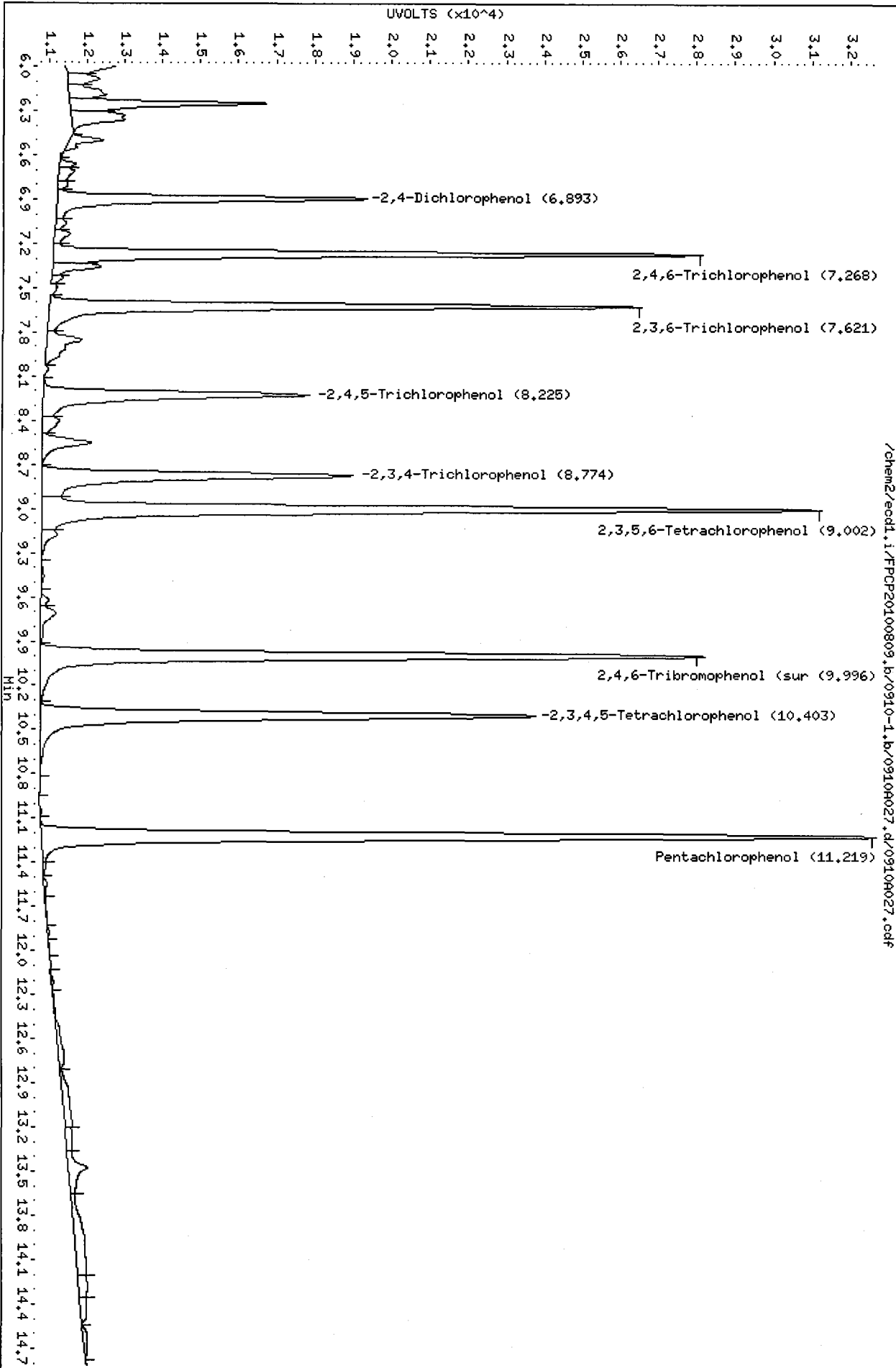
PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	100.0	99.4
2,4,6-Trichlorophenol	107.0	107.8
2,3,6-Trichlorophenol	105.2	100.7
2,4,5-Trichlorophenol	105.8	111.5
2,3,4-Trichlorophenol	93.9	104.3
2,3,5,6-Tetrachlorophenol	100.4	104.0
2,3,4,5-Tetrachlorophenol	99.5	98.3
2,4-Dichlorophenol	98.9	110.3
2,4,6-TBP (surr)	102.6	101.9



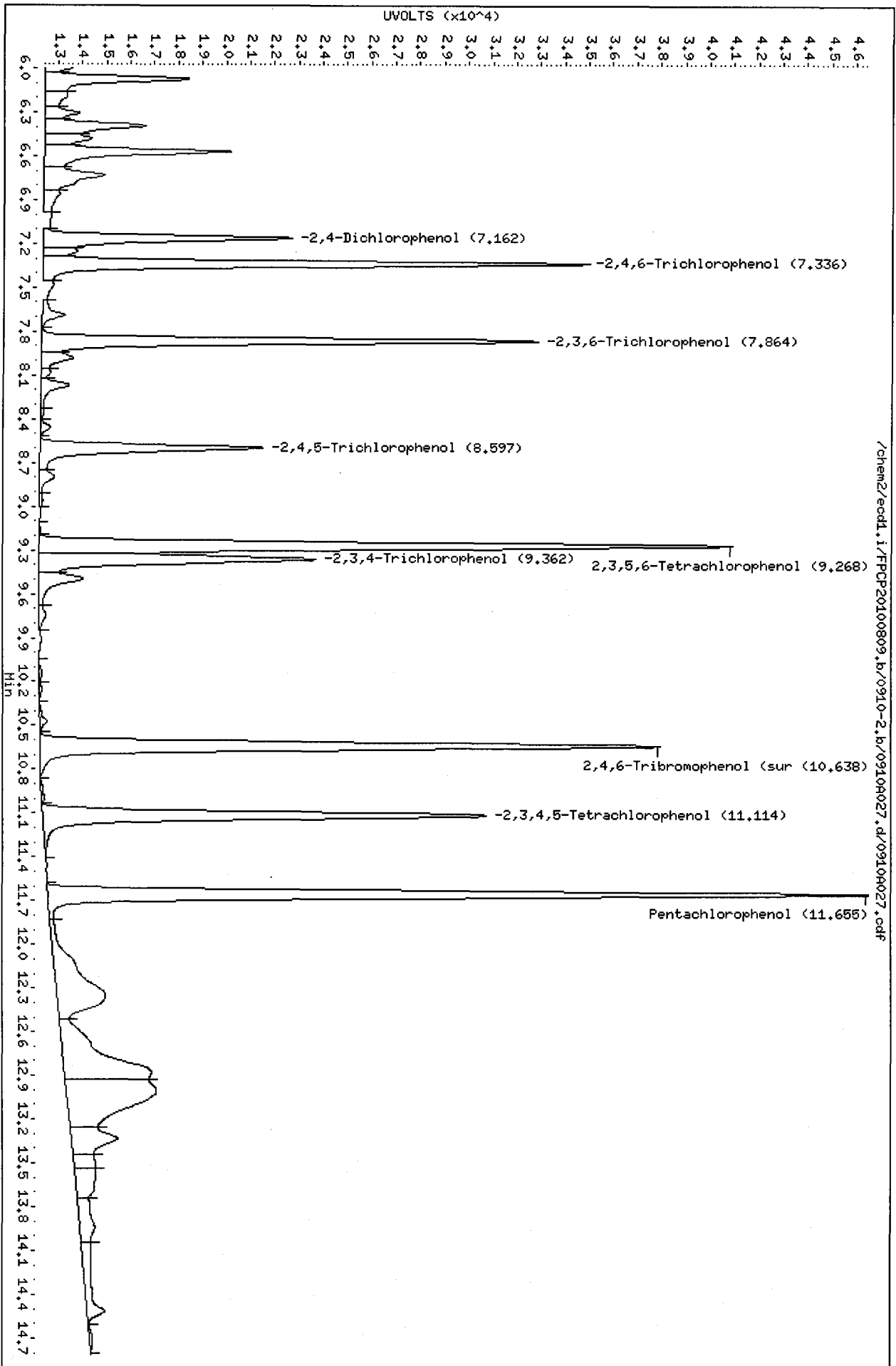
Data File: /chem2/ecdl.i/PPCP20100809.b/0910-1.b/09104027.d
Date : 10-SEP-2010 23:57
Client ID:
Sample Info: PPCPCL
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20100809.b/0910-2.b/0910H027.d
Date: 10-SEP-2010 23:57
Client ID:
Sample Info: PCPCCAL
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RK21, RK89

W
8-30-10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) **DATE:** 8/27/2010 **ANALYST:** CDE / RR 16:50

Instrumentation **Drying Ovens:** 12 **Analytical Balance:** 1123230597 **Muffle Furnace:** N/A

Batch drying time
 record times as mm/dd/yy hh:mm
 8/27/2010 16:50 date/time in oven CDE
 8/28/2010 12:15 date/time out RR
 elapsed hrs = 19.4

Cal Weight ID CV-02 CV-02 CV-02 CV-02
 Date & Time 8/27/10 14:44 8/27/11:32 8/28/10 13:33
 Cal Wt (g) 10.0000 10.0000 10.0000 10.0000
 record weights to 4 places Cal OK! Cal OK! Cal OK! Cal OK!

SAMPLE ID	DISH #	TARE WT (grams)	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
			1	2			1	2		
Blank		0.0000	1.1471		0.00					
RK62 A2		6.5453	5.2064		4.14	75.6%				
RK62 B2		7.0333	5.5036		4.43	74.3%				
RK62 C2		6.4022	4.9882		3.92	73.5%				
RK62 D2		7.1526	5.5205		4.44	73.1%				
RK62 E2		6.3161	5.0270		3.94	75.4%				
RK62 F2		6.5482	5.1912		4.12	75.2%				
RK62 G2		6.4602	5.2939		4.23	78.4%				
RK62 H2		7.0207	5.8171		4.69	79.6%				
RK62 I2		6.2989	5.0640		3.93	76.1%				
RK62 J2		6.8386	5.5176		4.42	77.0%				
RK62 K2		6.8094	5.3345		4.27	74.3%				
RK62 L2		6.7841	5.2336		4.13	72.7%				
RK62 M2		6.3837	4.8463		3.74	70.9%				
RK62 N2		6.0366	4.5675		3.49	70.4%				
RK62 O2		7.0517	5.6477		4.58	76.5%				
RK62 O2 dup		7.3253	5.8170		4.74	75.9%				

RPD = 0.88% RPD = 4.24 RPD = 5.3172

RSD = 0.48% RSD = 4.27 RSD = 5.3469

NA NA NA

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) **DATE:** 8/27/2010 **ANALYST:** CDE / RR 16:50

Instrumentation **Drying Ovens:** 12 **Analytical Balance:** 1123230597 **Muffle Furnace:** N/A

Batch drying time
 record times as mm/dd/yy hh:mm
 8/27/2010 16:50 date/time in oven CDE
 8/28/2010 12:15 date/time out RR
 elapsed hrs = 19.4

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"

SAMPLE ID	DISH #	Cal Weight ID	Date & Time	CV-02	CV-02	CV-02	CV-02	CV-02	TS (%)	dry Wt (g)		TVS (mg/kg) (%)
										ASH WT 550C (grams)	Ash Wt (g)	
RK58 A5		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	81.2%	4.68		
RK58 A5 dup		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	80.9%	4.07		

SAMPLE ID	DISH #	Cal Weight ID	Date & Time	CV-02	CV-02	CV-02	CV-02	CV-02	TS (%)	dry Wt (g)		TVS (mg/kg) (%)
										ASH WT 550C (grams)	Ash Wt (g)	
RK58 B5		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	94.4%	5.18		
RK21 A4		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	81.0%	4.30		
RK21 A4 dup		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	79.8%	4.30		

SAMPLE ID	DISH #	Cal Weight ID	Date & Time	CV-02	CV-02	CV-02	CV-02	CV-02	TS (%)	dry Wt (g)		TVS (mg/kg) (%)
										ASH WT 550C (grams)	Ash Wt (g)	
RK21 A4 trp		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	1.58%	4.70		
RK21 B4		10.0000	8/27/10 14:44	10.0000	8/27/11:32	10.0000	10.0000	10.0000	1.10%	4.34		

RK21 : 00358

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

DATE: 8-27-10 16:50

ANALYST: CAZ

Batch drying time		TS (%) calculated as:		CV-02		CV-02		CV-02		CV-02		CV-02	
record times as mm/dd/yy hr:min		Final dry wt (g) = (Dry Wt - Tare Wt)		Final ash wt (g) = (min ash wt - tare wt)		TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] * 1,000,000		if ash wt > dry wt, "Chk for Err"		if dry wt-ash wt < 0.001 g, "< (1/dry wt) * 1,000,000"			
SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)	dry Wt (g)	TS (%)	ASH WT 550C (grams)	Ash Wt (g)	TVS (mg/kg)	(%)			
Blank	25	0	1.1472	1.1471			1						
RK21 A2	26	6.5453	1.0673	5.2064			2						
B2	27	7.0333	1.0780	5.5036									
A2	28	6.4022	1.0678	4.9882									
D2	29	7.1526	1.0807	5.5205									
E2	30	6.3161	1.0839	5.0270									
F2	31	6.5482	1.0693	5.1912									
G2	32	6.4602	1.0688	5.2939									
H2	33	7.0207	1.1290	5.8171									
I2	34	6.2989	1.1342	5.0640									
J2	35	6.8386	1.1009	5.5176									
K2	36	6.8094	1.0689	5.3345									
L2	37	6.9841	1.1045	5.2326									
M2	38	6.3837	1.1064	4.8463									
N2	39	6.0866	1.0762	4.15675									
O2	40	7.0519	1.0718	5.6477									
P2	41	7.3253	1.0989	5.8170									
Q2	42	6.6608	1.0775	5.3172									
R2	43	6.5413	1.0732	5.3469									
RS8 A5	44	6.8553	1.0926	5.7738									
RS8 A5	45	6.1191	1.0857	5.1522									
V	46	6.5747	1.0900	6.2673									
RK21 A7	71	6.4039	1.0984	5.3991									
RS8 A7	72	6.4988	1.1147	5.4097									
V	73	6.9856	1.1188	5.8178									
B7	74	6.4129	1.1558	5.4962									

RK21 : 00359

000489

ARI 6053 TS/TVS, Soils

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