



MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecdl1.i/PCP20110401.b/ical-2.b

ARI Job No.: PCP Method: PCPB.m Instrument: ecdl1.i Date: 01-APR-2011

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1629	0401A008.d	PCP D		1	NO MANUAL INTEGRATION
1706	0401A009.d	PCP A		1	Pentachlorophenol,
1742	0401A010.d	PCP B		1	Pentachlorophenol,
1818	0401A011.d	PCP C		1	Pentachlorophenol,
1854	0401A012.d	PCP E		1	NO MANUAL INTEGRATION
1931	0401A013.d	PCP F		1	NO MANUAL INTEGRATION
0921	0401A036.d	PCP ICV		1	NO MANUAL INTEGRATION

Analytical Resources, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecdl.i/PCP20110401.b/PCPB.m  
Batch File: /chem2/ecdl.i/PCP20110401.b/ical-2.b  
Inst ID: ecdl.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	13.430	13.434	13.435	13.431	13.428	13.427	13.438	13.430	13.360-13.500	13.432	0.004
2 2,4,6-Trichlorophenol	13.777	13.778	13.780	13.779	13.777	13.777	13.786	13.777	13.707-13.847	13.779	0.003
3 2,3,6-Trichlorophenol	15.183	15.185	15.187	15.185	15.184	15.184	15.193	15.183	15.113-15.253	15.186	0.004
4 2,4,5-Trichlorophenol	17.150	17.185	17.172	17.159	17.145	17.142	17.165	17.150	17.080-17.220	17.160	0.015
5 2,3,5,6-Tetrachlorophe	18.411	18.422	18.419	18.414	18.408	18.406	18.422	18.411	18.341-18.481	18.415	0.007
6 2,3,4-Trichlorophenol	18.725	18.764	18.753	18.738	18.712	18.706	18.740	18.725	18.655-18.795	18.734	0.021
7 2,4,6-Tribromophenol	20.870	20.894	20.888	20.879	20.864	20.860	20.886	20.870	20.800-20.940	20.877	0.013
8 2,3,4,5-Tetrachlorophe	21.819	21.846	21.838	21.828	21.811	21.805	21.835	21.819	21.749-21.889	21.826	0.015
9 Pentachlorophenol	22.631	22.647	22.643	22.637	22.626	22.622	22.644	22.631	22.561-22.701	22.636	0.009

Reviewer 1 \_\_\_\_\_ Date: 4/2/2011  
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

## Analytical Resources, Inc.

## INITIAL CALIBRATION DATA

Start Cal Date : 01-APR-2011 16:29  
 End Cal Date : 01-APR-2011 19:31  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem2/ecdl.i/PCP20110401.b/PCPB.m  
 Cal Date : 02-Apr-2011 10:03 aron  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A009.d  
 Level 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A010.d  
 Level 3: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A011.d  
 Level 4: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A008.d  
 Level 5: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A012.d  
 Level 6: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A013.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	1052	935	903	724	742	641	833	18.630
2 2,4,6-Trichlorophenol	18067	16685	17022	14481	16094	14858	16201	8.356
3 2,3,6-Trichlorophenol	16623	15623	15797	13291	14677	13675	14948	8.684
4 2,4,5-Trichlorophenol	9223	8624	8724	7196	7623	6835	8038	11.863
5 2,3,5,6-Tetrachlorophenol	25256	23960	24545	20670	22769	21310	23085	7.915
6 2,3,4-Trichlorophenol	10128	10897	11196	8917	9732	8688	9926	10.259
8 2,3,4,5-Tetrachlorophenol	16901	17108	17518	14662	16006	14923	16187	7.356
9 Pentachlorophenol	27844	27891	28971	25017	28058	26455	27373	5.142
\$ 7 2,4,6-Tribromophenol (surr)	21409	20597	22269	19519	22526	21661	21330	5.239



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-APR-2011 16:29  
 End Cal Date : 01-APR-2011 19:31  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem2/ecdl.i/PCP20110401.b/PCP.m  
 Cal Date : 02-Apr-2011 10:10 aron  
 Curve Type : Average

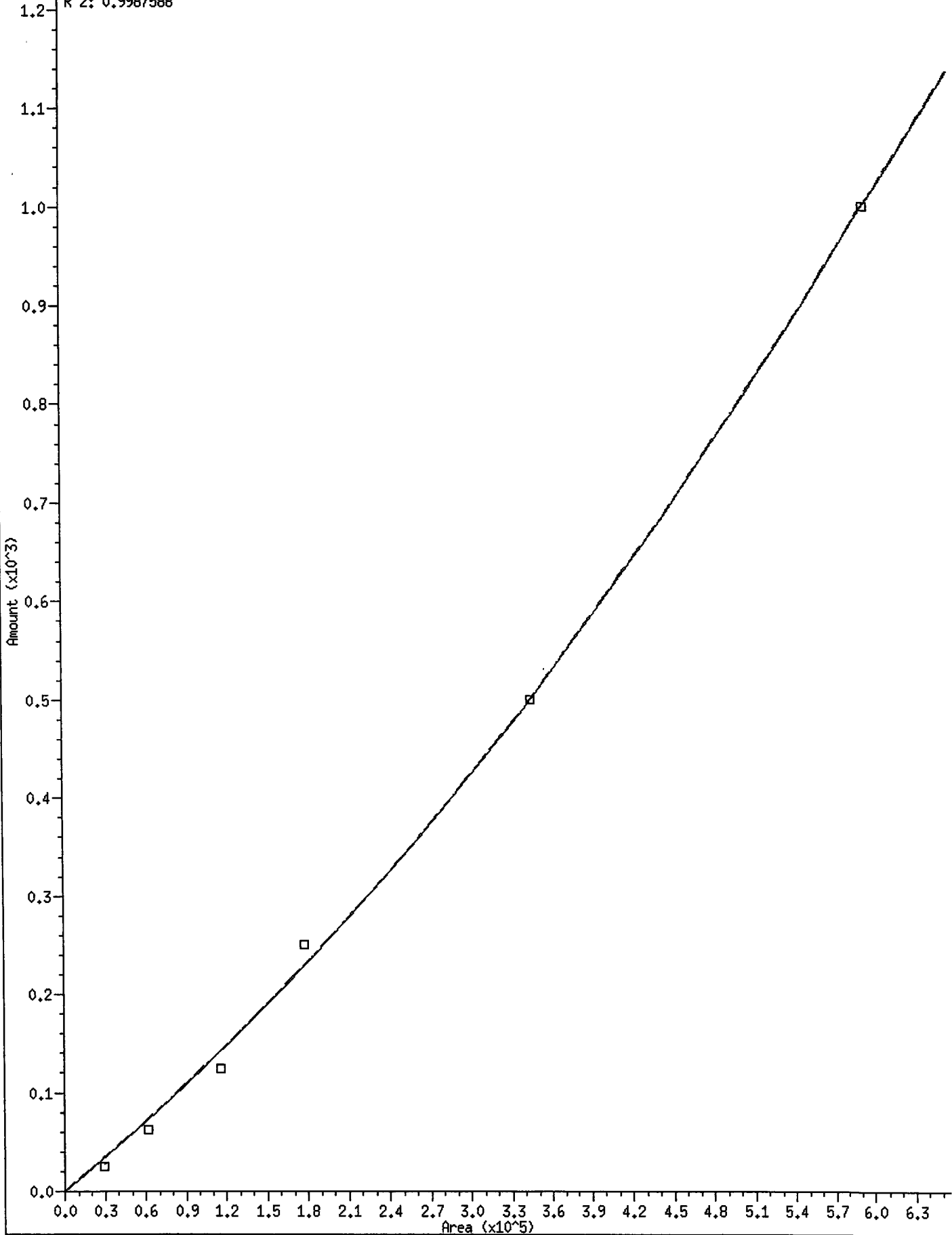
Calibration File Names:

- Level 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A009.d
- Level 2: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A010.d
- Level 3: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A011.d
- Level 4: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A008.d
- Level 5: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A012.d
- Level 6: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A013.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 ✓	1167	995	930	711	692	595	849	25.681   <-
2 2,4,6-Trichlorophenol ✓	23973	19056	17104	13948	14398	12938	16903	24.449   <-
3 2,3,6-Trichlorophenol	17697	15903	15568	12834	13478	12207	14614	14.460
4 2,4,5-Trichlorophenol	+++++	8437	8745	7336	7536	6502	7711	11.651
5 2,3,4-Trichlorophenol ✓	15137	12572	13596	10067	9677	7988	11506	23.477   <-
6 2,3,5,6-Tetrachlorophenol	28937	25200	24487	20185	21240	19116	23194	15.922
8 2,3,4,5-Tetrachlorophenol	19018	18483	17317	14350	15450	13546	16361	13.742
9 Pentachlorophenol	29405	27955	27704	22662	24213	22067	25668	12.003
§ 7 2,4,6-Tribromophenol (surr)	24452	23977	22590	18840	20483	18745	21514	11.709

1 2,4-Dichlorophenol

Curve Type: Quadratic By-Response  
Amt = 0 + 0.001121443\*Rsp + 9.399985e-10\*Rsp^2  
R^2: 0.9987588

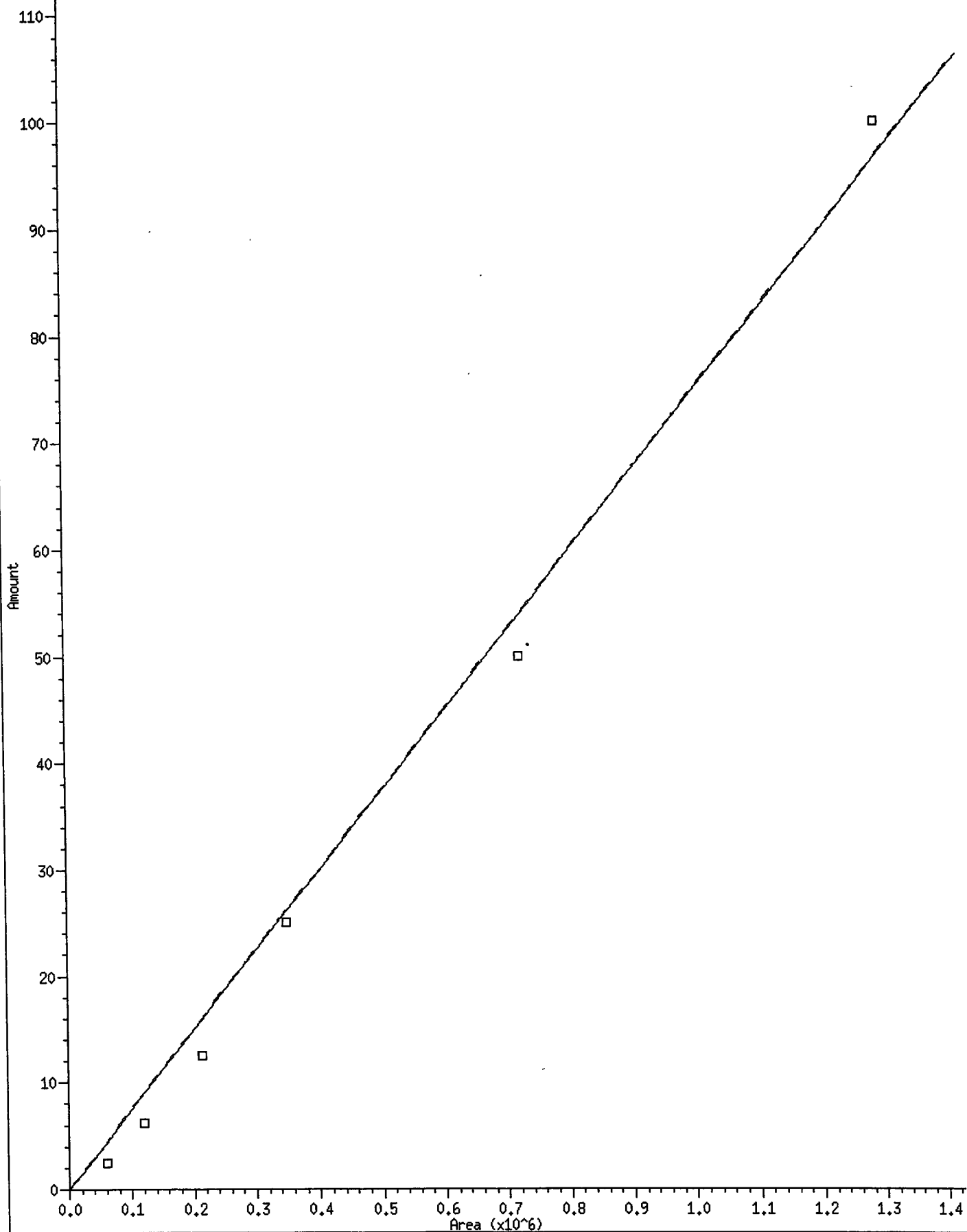


2,2,4,6-Trichlorophenol

Curve Type: Linear By-Response

Amt = 0 + Rsp/13380.82

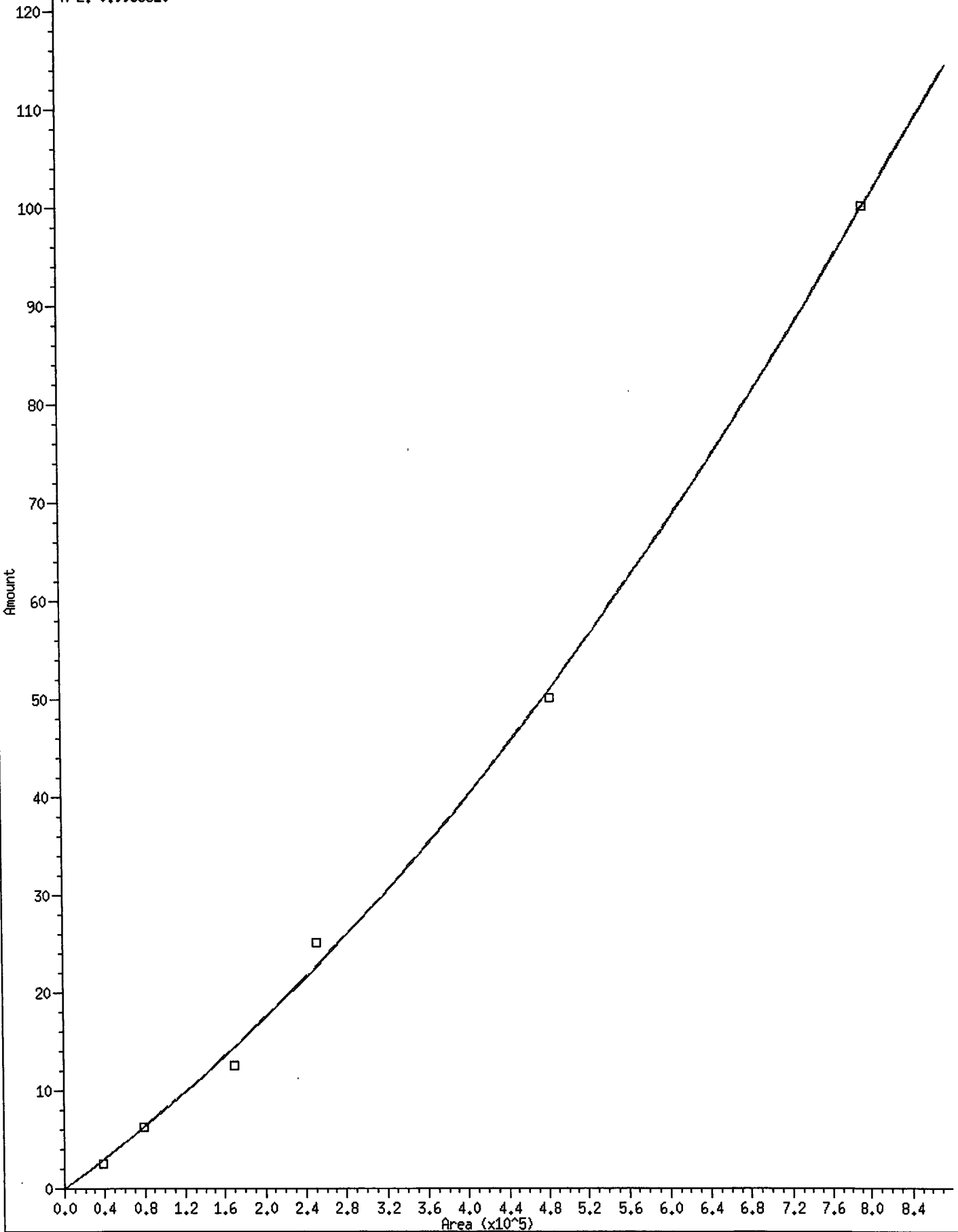
R<sup>2</sup>: 0.9928266



SN54 : 00470

5 2,3,4-Trichlorophenol

Curve Type: Quadratic By-Response  
Amt = 0 + 0.0000738566\*Rsp + 6.40799e-11\*Rsp^2  
R^2: 0.9985820



Report Date : 02-Apr-2011 10:11

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-APR-2011 16:29  
 End Cal Date : 01-APR-2011 19:31  
 Quant Method : ESTD  
 Origin : Force  
 Target Version : 3.50  
 Integrator : HP Genie  
 Method file : /chem2/ecdl1.i/PCP20110401.b/PCP.m  
 Cal Date : 02-Apr-2011 10:10 aron

Calibration File Names:

Level 1: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A009.d  
 Level 2: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A010.d  
 Level 3: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A011.d  
 Level 4: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A008.d  
 Level 5: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A012.d  
 Level 6: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A013.d

Compound	2		6		12		25		50		100		Coefficients		RSD
	Level 1	Level 2	Level 2	Level 2	Level 3	Level 3	Level 4	Level 4	Level 5	Level 5	Level 6	Level 6	b	m2	
1 2,4-Dichlorophenol	29184	62201	116310	177724	345985	595366	QUAD	0.000e+00	0.00112	9.400e-10	0.99876				
2 2,4,6-Trichlorophenol	5932	119099	213800	348689	719879	1293794	LI	0.000e+00	13381		0.99283				
3 2,3,6-Trichlorophenol	17697	15903	15568	12834	13478	12207	AVRG		14614		14.45992				
4 2,4,5-Trichlorophenol	++++	8437	8745	7336	7536	6502	AVRG		7711		11.65090				
5 2,3,4-Trichlorophenol	37842	78574	169953	251668	483858	798751	QUAD	0.000e+00	0.00007	6.408e-11	0.99858				
6 2,3,5,6-Tetrachlorophenol	28937	25200	24487	20185	21240	19116	AVRG		23194		15.92170				
8 2,3,4,5-Tetrachlorophenol	19018	18483	17317	14350	15450	13546	AVRG		16361		13.74172				
9 Pentachlorophenol	29405	27955	27704	22662	24213	22067	AVRG		25668		12.00302				
\$ 7 2,4,6-Tribromophenol (sur)	24452	23977	22590	18840	20483	18745	AVRG		21514		11.70945				

Report Date : 02-Apr-2011 10:11

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-APR-2011 16:29  
End Cal Date : 01-APR-2011 19:31  
Quant Method : ESTD  
Origin : Force  
Target Version : 3.50  
Integrator : HP Genie  
Method file : /chem2/ecdl.i/PCP20110401.b/PCP.m  
Cal Date : 02-Apr-2011 10:10 aron

Curve	Formula	Units
Averaged	Amt = Resp/ml	Response
Linear	Amt = b + Resp/ml	Response
Quad	Amt = b + m1*Resp + m2*Resp^2	Response

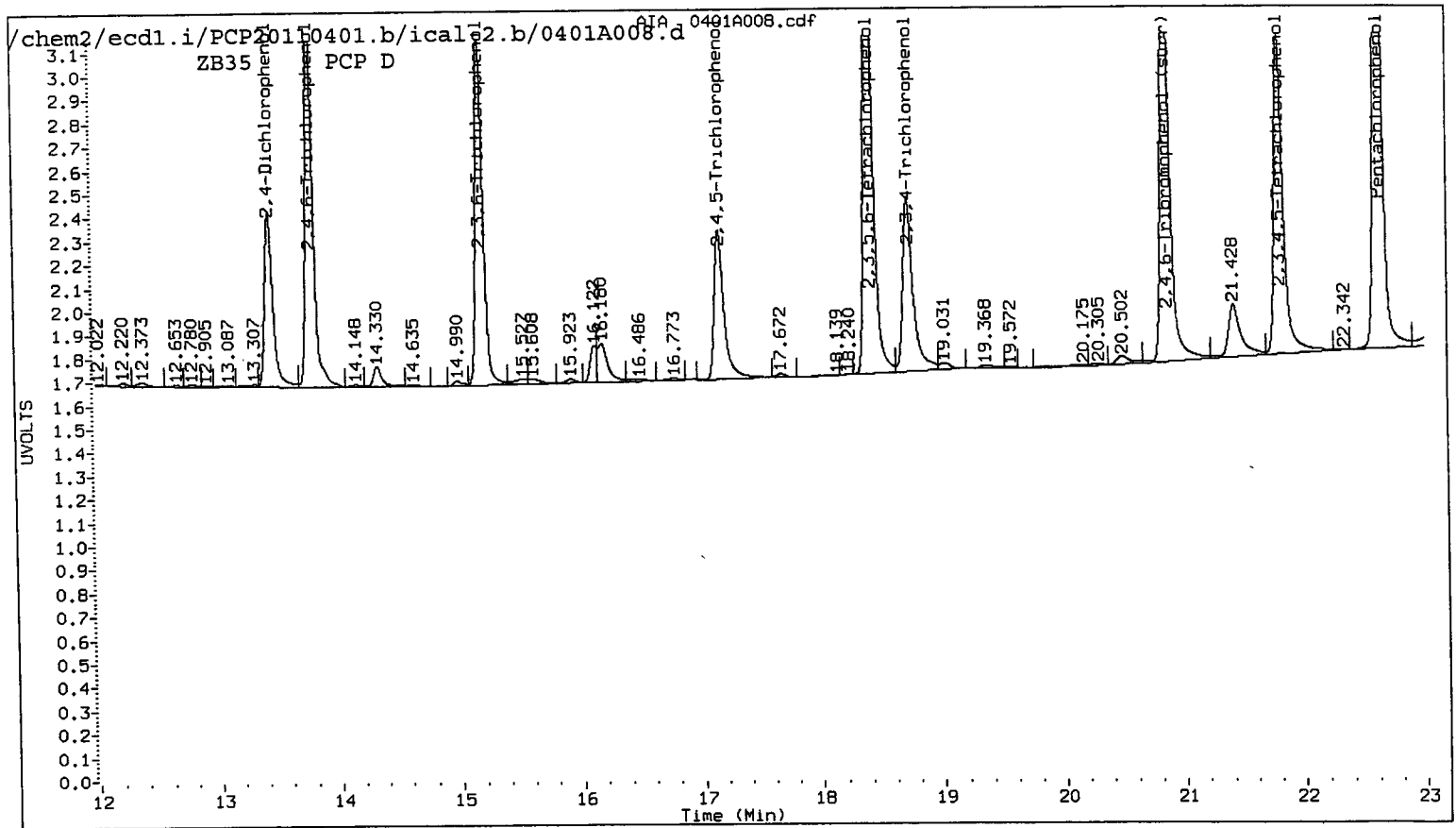
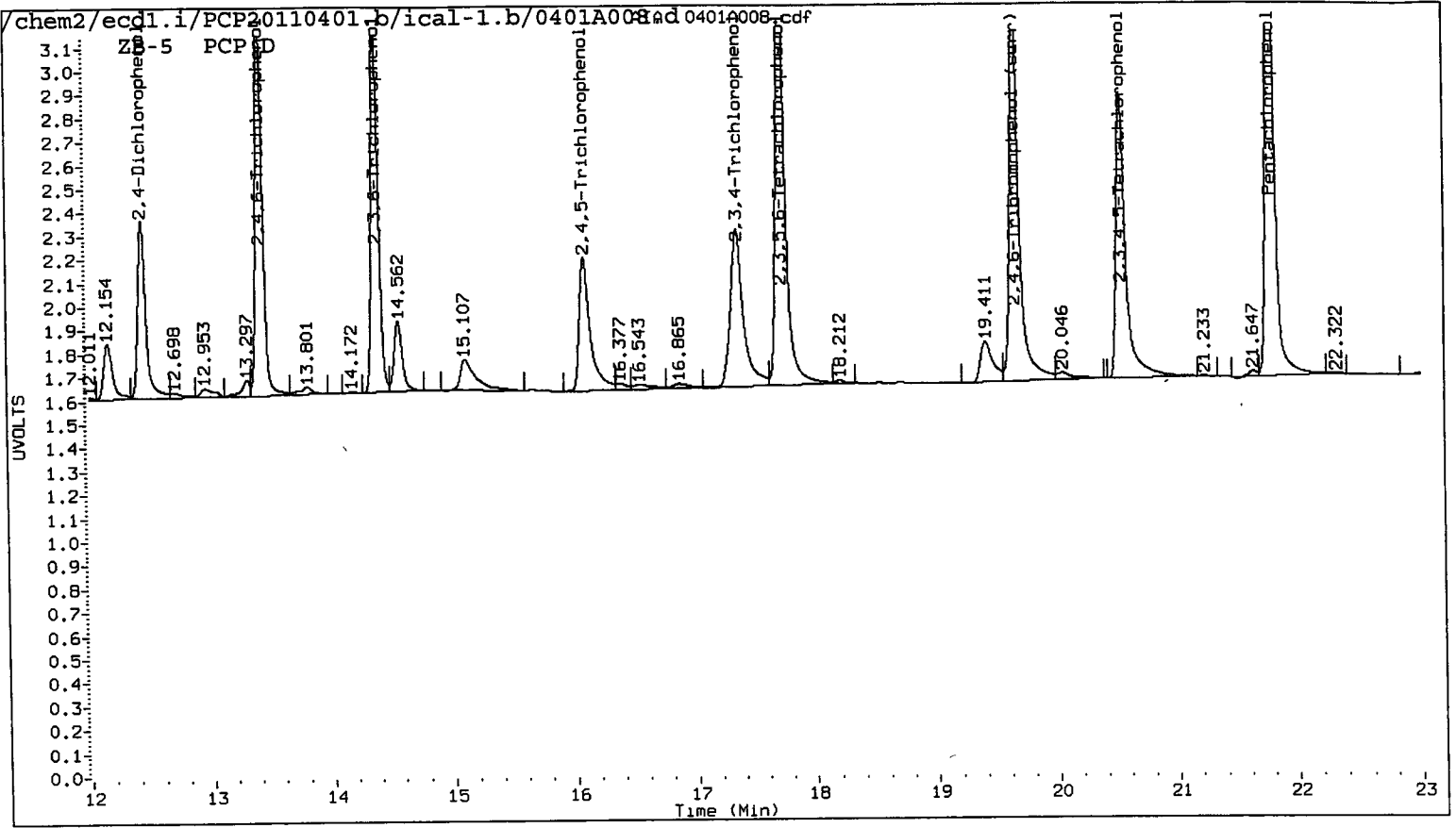
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A008.d   ARI ID: PCP D  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A008.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 01-APR-2011 16:29  
 Compound Sublist: all                                       Report Date: 04/02/2011 10:13  
 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		
21.793	0.000	566558	22.631	0.000	625428	22.0727	22.8484	3.5	Pentachlorophenol
13.409	0.000	348689	13.777	0.000	362021	26.0589	22.3456	15.3	2,4,6-Trichlorophenol
14.376	0.000	320848	15.183	0.000	332269	21.9541	22.2289	1.2	2,3,6-Trichlorophenol
16.084	0.000	183395	17.150	0.000	179908	23.7831	22.3831	6.1	2,4,5-Trichlorophenol
17.346	0.000	251668	18.725	0.000	222924	22.6460	22.4579	0.8	2,3,4-Trichlorophenol
17.720	0.000	504615	18.411	0.000	516750	21.7562	22.3846	2.8	2,3,5,6-Tetrachlorophenol
20.545	0.000	358758	21.819	0.000	366542	21.9281	22.6449	3.2	2,3,4,5-Tetrachlorophenol
12.432	0.000	177724	13.430	0.000	181003	228.9980	217.3406	5.2	2,4-Dichlorophenol
19.652	0.000	471004	20.870	0.000	487983	21.9	22.9	4.4	2,4,6-Tribromophenol (surr)

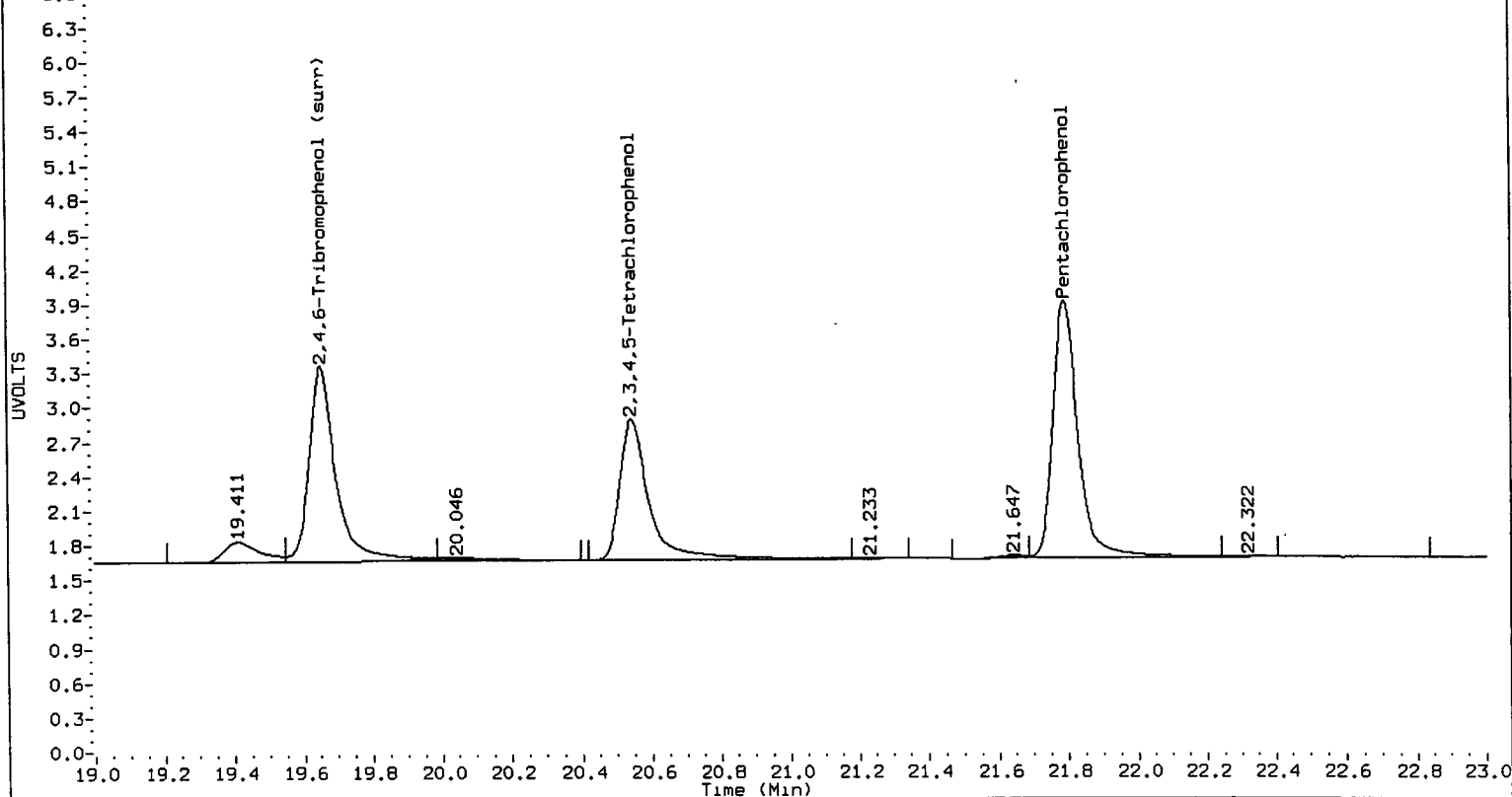
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	87.6	91.5

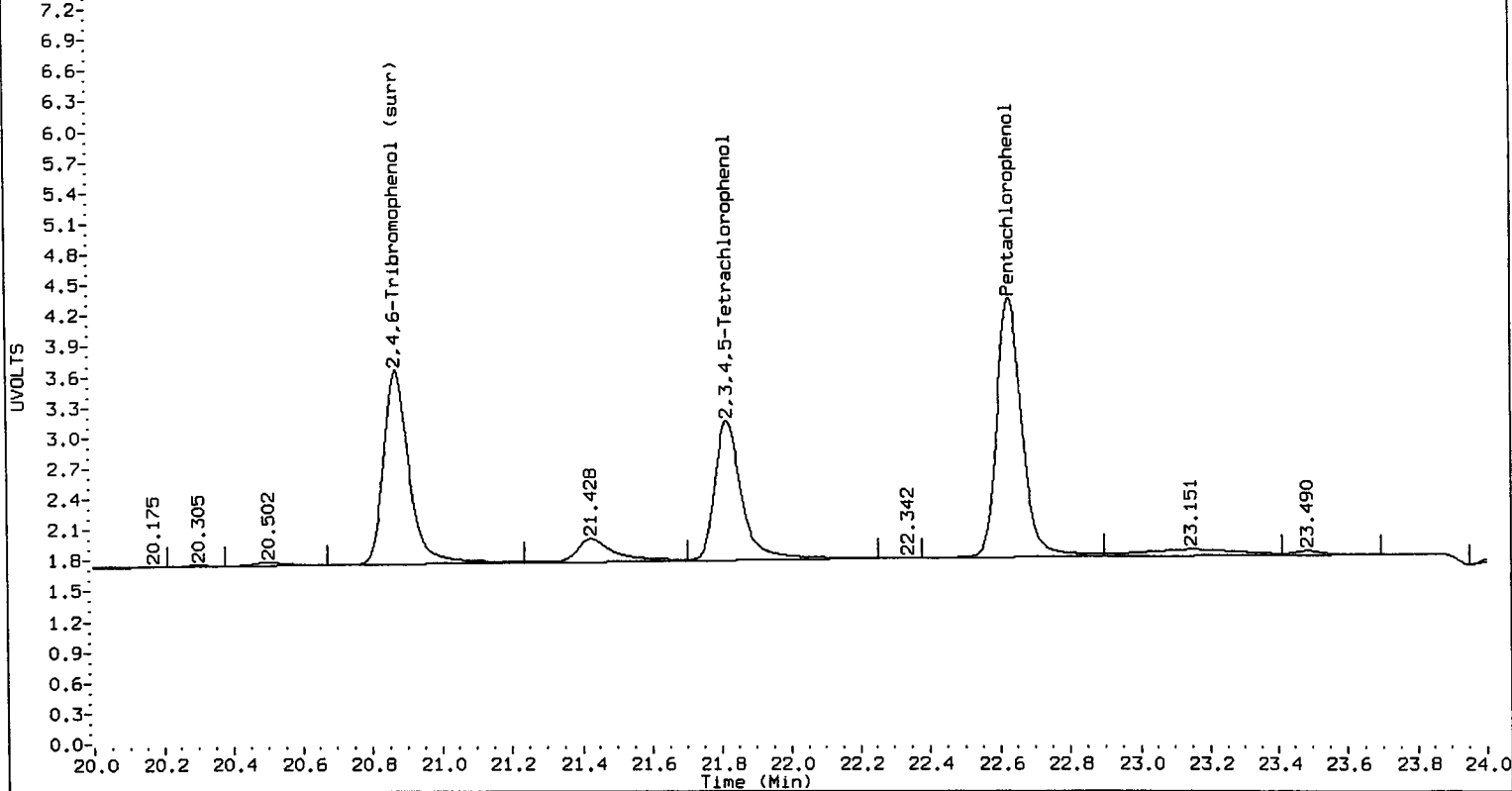




ZB5 PCP D



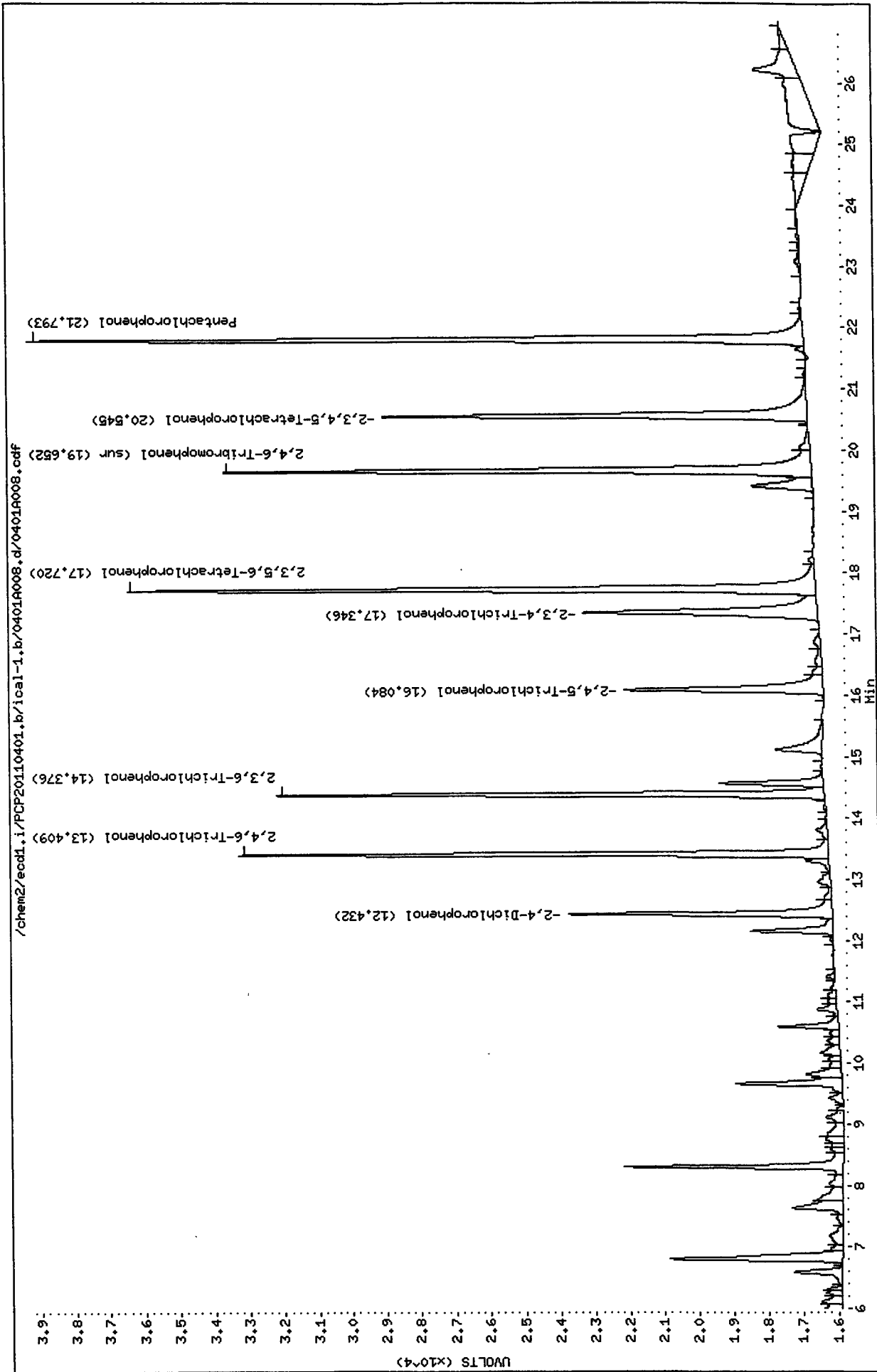
ZB35 PCP D



Data File: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A008.d  
Date : 01-APR-2011 16:29  
Client ID:  
Sample Info: PCP D  
Purge Volume: 500.0  
Column phase: ZB5

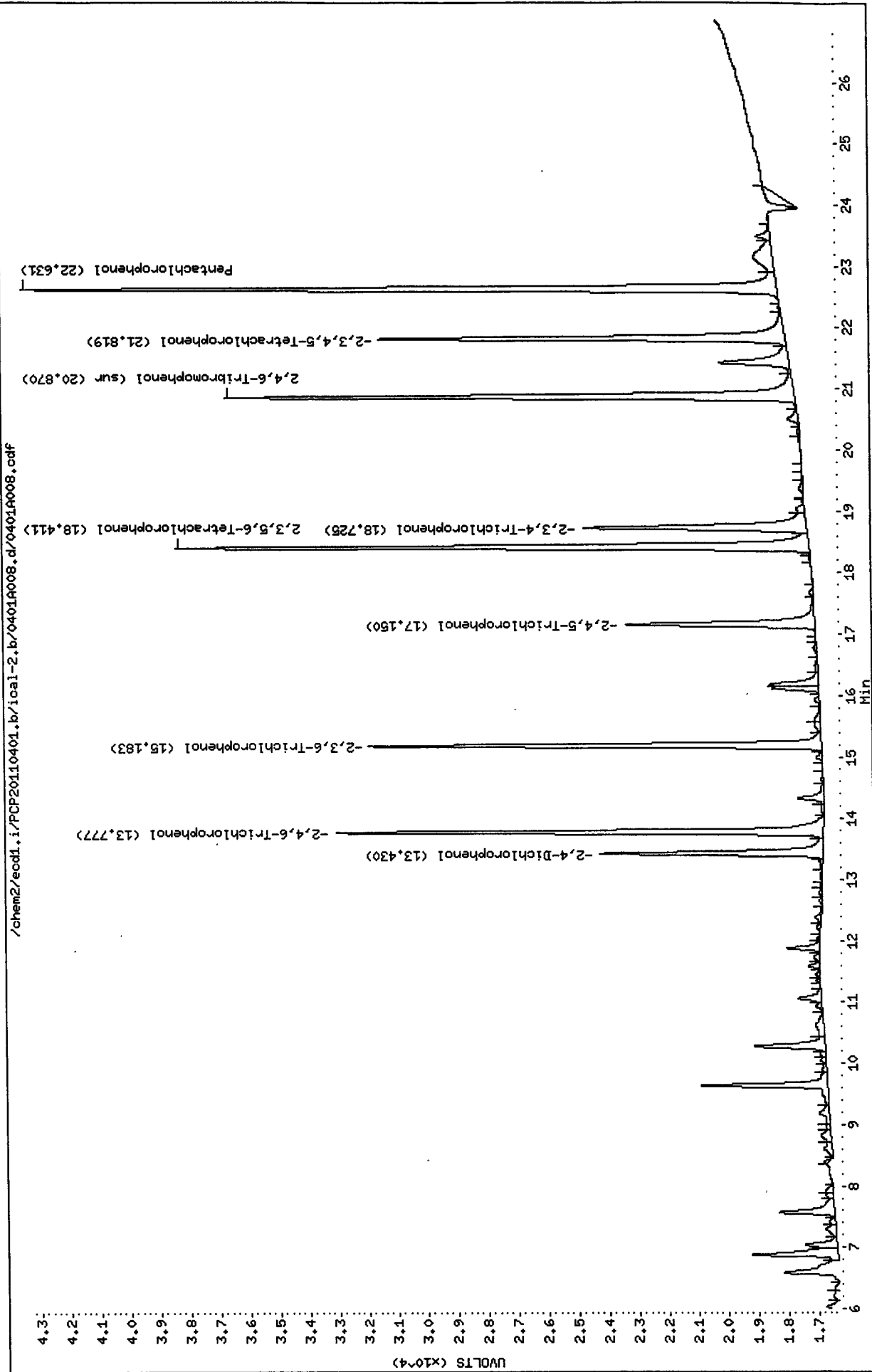
Instrument: ecdl.i

Operator: ar  
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A008.d  
Date : 01-APR-2011 16:29  
Client ID:  
Sample Info: PCP D  
Purge Volume: 500.0  
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/PCP20110401.b/ical-1.b/0401A009.d   ARI ID: PCP A  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A009.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 01-APR-2011 17:06  
 Compound Sublist: all                                       Report Date: 04/02/2011 10:13  
 Instrument: ecd1.i   Matrix: WATER  
 Operator: ar   Dilution Factor: 1.000

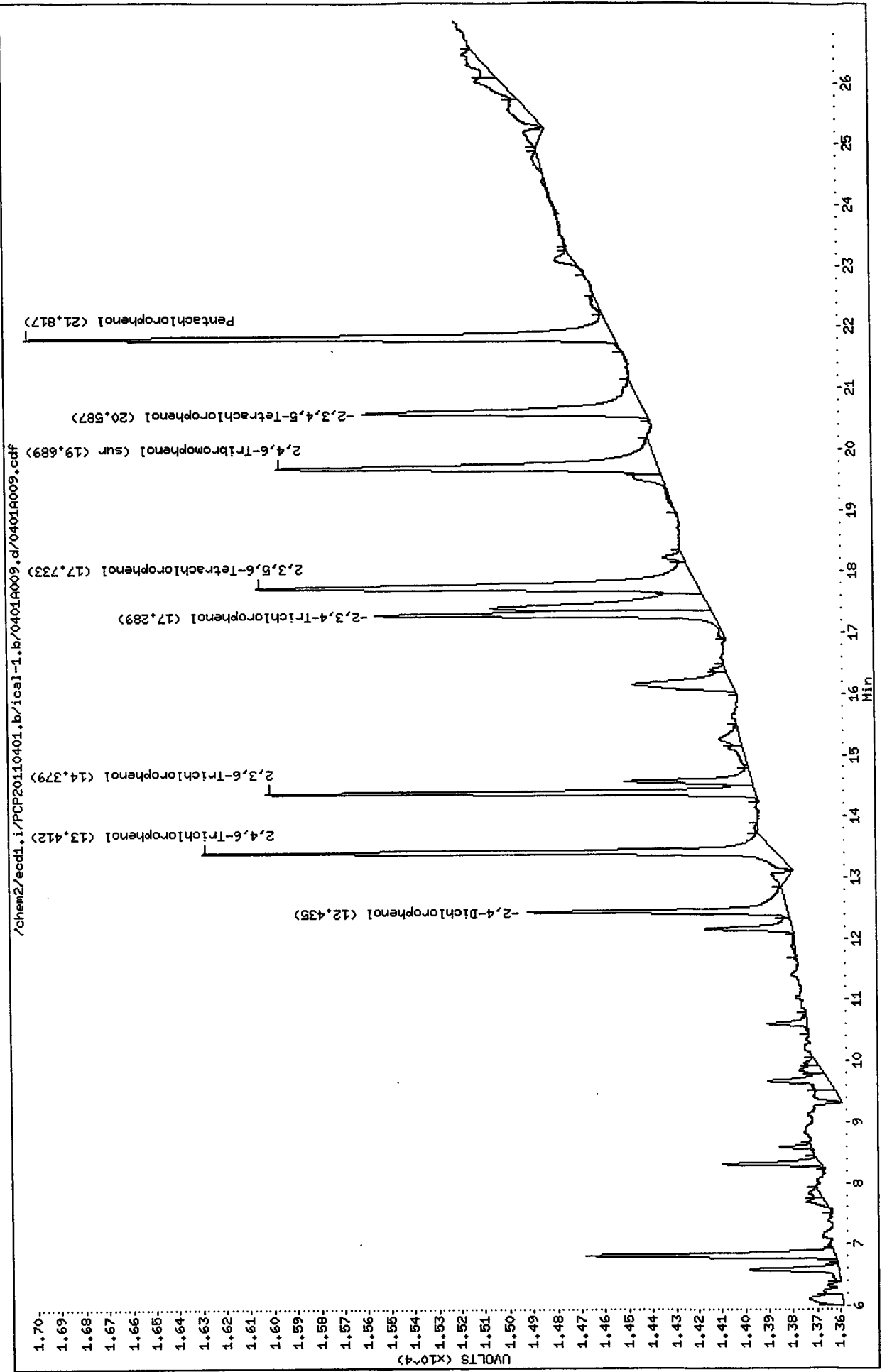
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.817	0.024	73513	22.647	0.015	69610	2.8640	2.5430	11.9	Pentachlorophenol
13.412	0.003	59932	13.778	0.001	45167	4.4789	2.7879	46.5*	2,4,6-Trichlorophenol
14.379	0.003	44242	15.185	0.002	41558	3.0273	2.7802	8.5	2,3,6-Trichlorophenol
----			17.185	0.035	23057	0.0000	2.8686	---	2,4,5-Trichlorophenol
17.289	-0.057	37842	18.764	0.039	25320	2.8866	2.5508	12.4	2,3,4-Trichlorophenol
17.733	0.013	72343	18.422	0.012	63139	3.1190	2.7351	13.1	2,3,5,6-Tetrachlorophenol
20.587	0.042	47545	21.846	0.027	42253	2.9061	2.6104	10.7	2,3,4,5-Tetrachlorophenol
12.435	0.003	29184	13.434	0.004	26302	33.5288	31.5823	6.0	2,4-Dichlorophenol
19.689	0.037	61129	20.894	0.024	53523	2.8	2.5	12.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	11.4	10.0

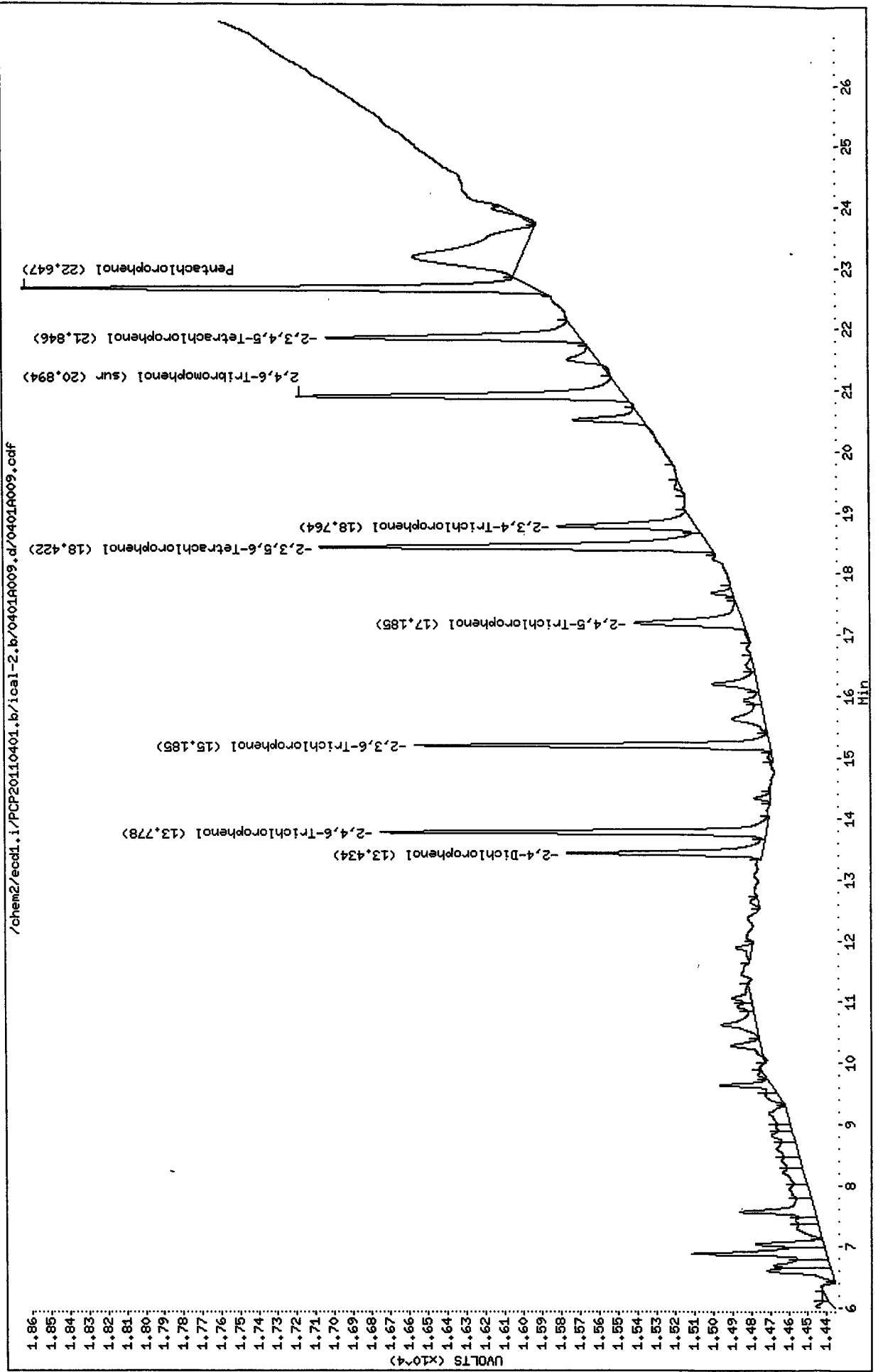
Data File: /chem2/ecd1.i/PCP20110401.b/ical-1.b/0401A009.d  
Date : 01-APR-2011 17:06  
Client ID:  
Sample Info: PCP A  
Purge Volume: 500.0  
Column phase: ZB5

Instrument: ecd1.i  
Operator: ar  
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A009.d  
Date : 01-APR-2011 17:06  
Client ID:  
Sample Info: PCP A  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecdl.i  
Operator: ar  
Column diameter: 0.53

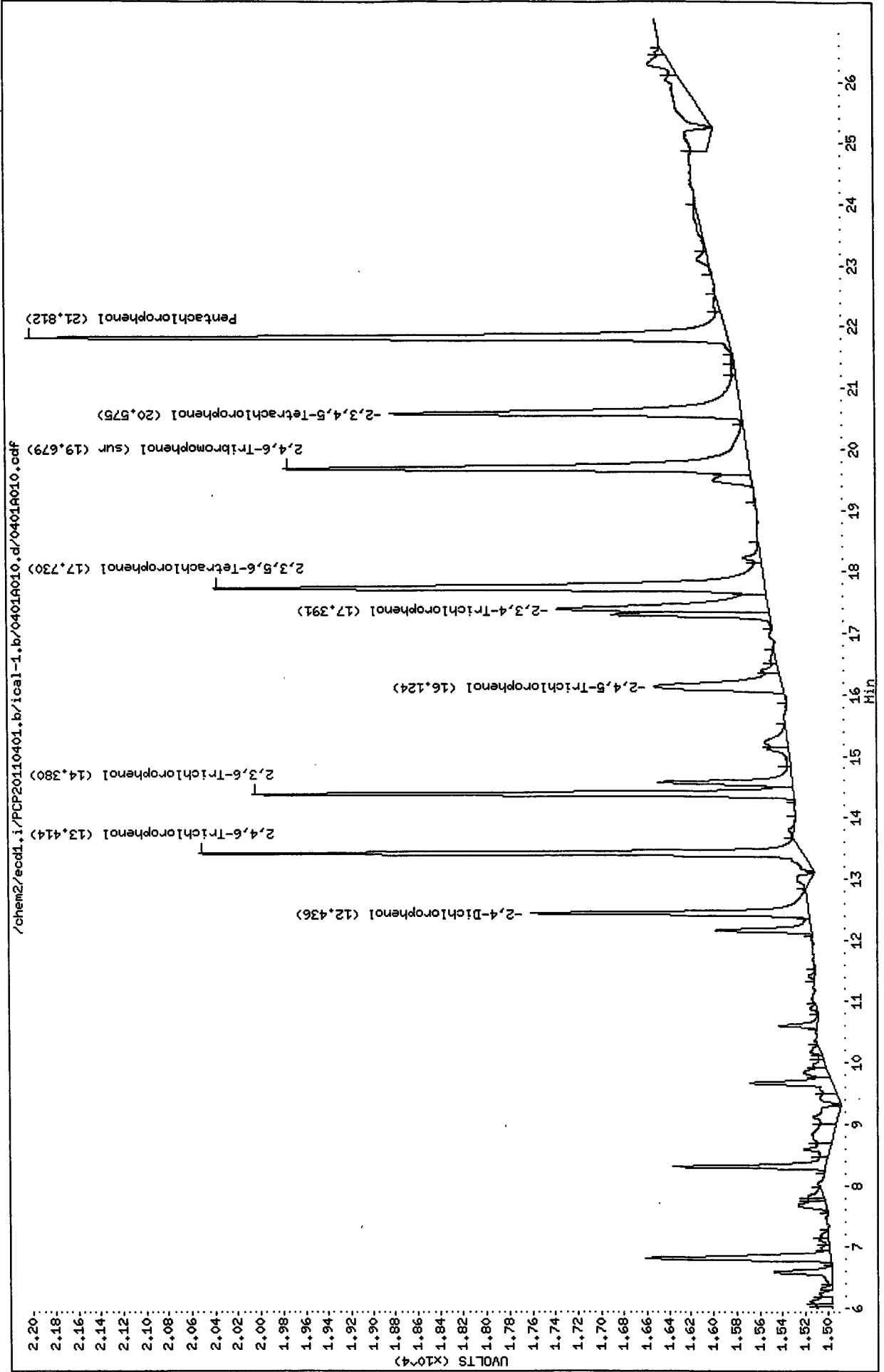




Data File: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A010.d  
Date : 01-APR-2011 17:42  
Client ID:  
Sample Info: PCP B  
Purge Volume: 500.0  
Column phase: ZB5

Instrument: ecd1.i

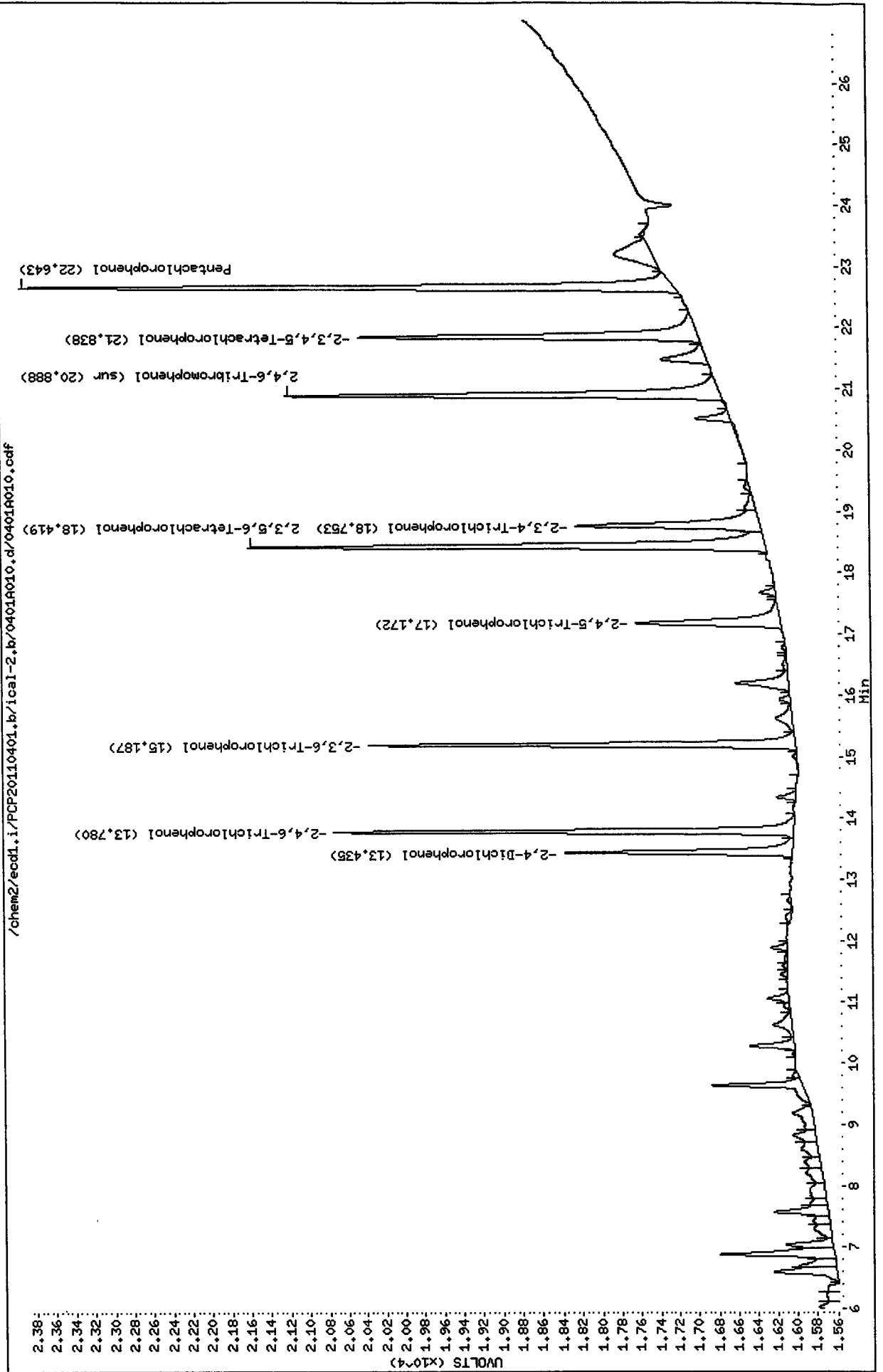
Operator: ar  
Column diameter: 0.53





Data File: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A010.d  
Date : 01-APR-2011 17:42  
Client ID:  
Sample Info: PCP B  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecdl.i  
Operator: ar  
Column diameter: 0.53



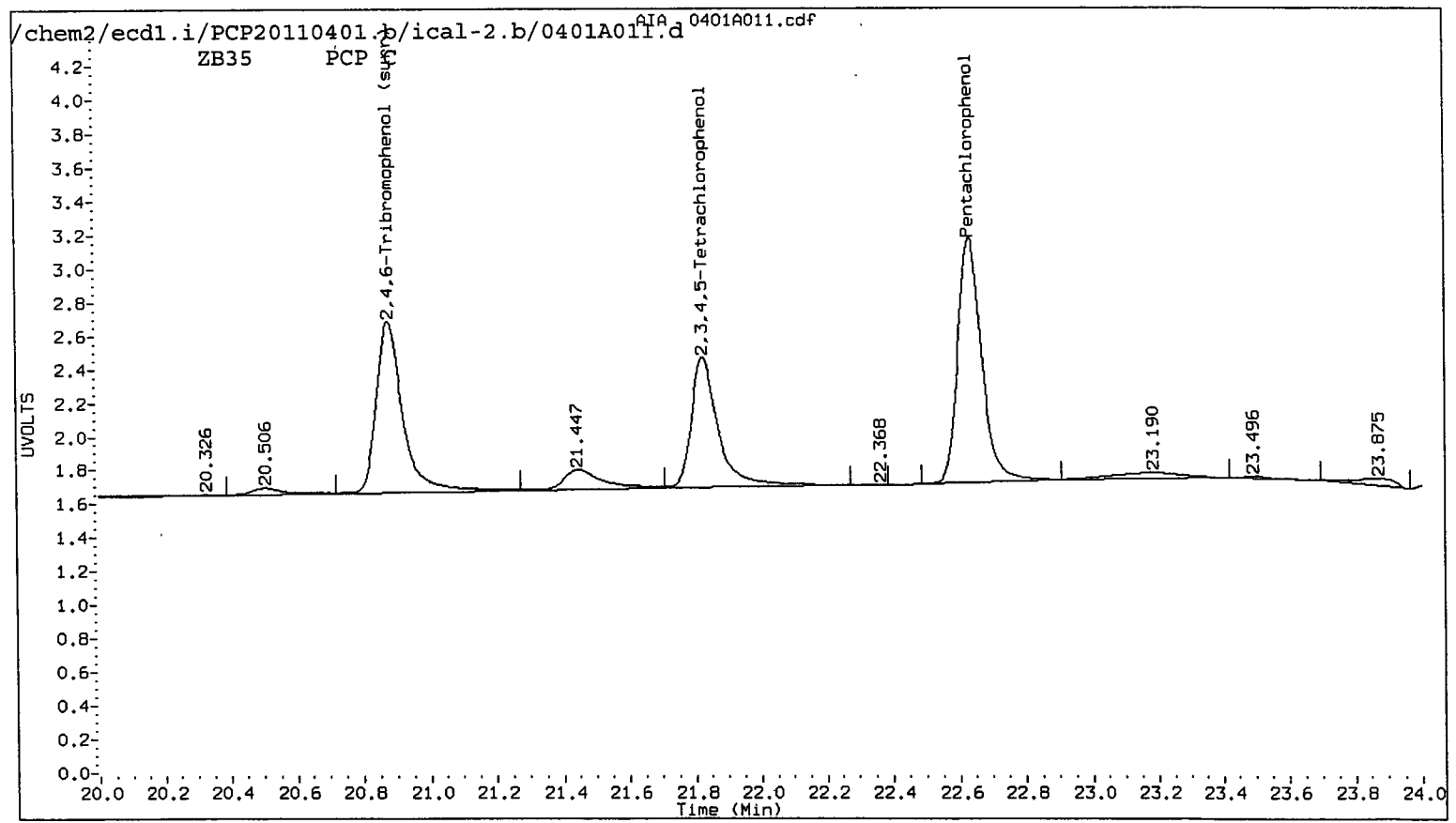
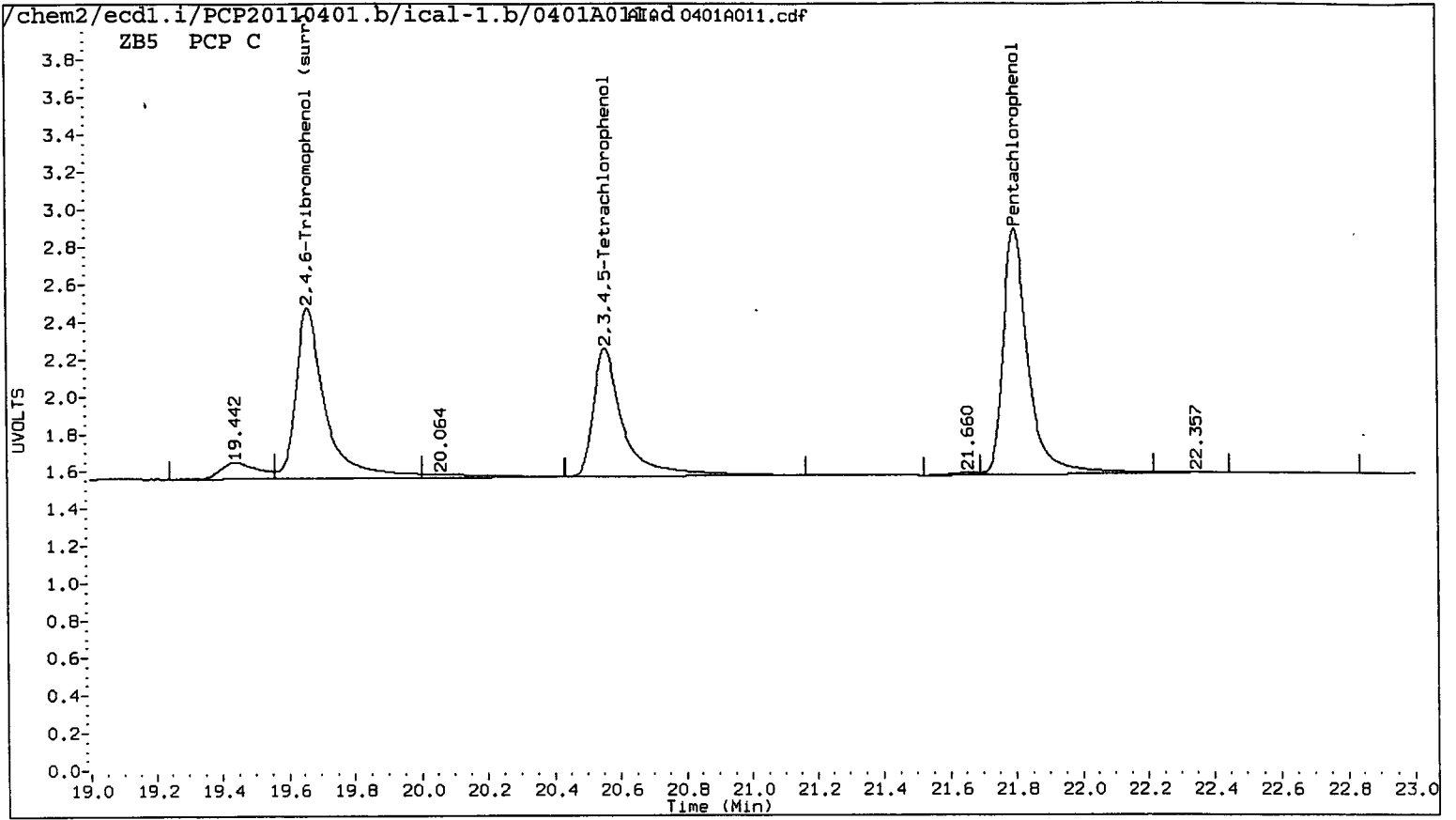
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A011.d   ARI ID: PCP C  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A011.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 01-APR-2011 18:18  
 Compound Sublist: all   Report Date: 04/02/2011 10:13  
 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		
21.802	0.009	346302	22.637	0.005	362143	13.4917	13.2300	2.0	Pentachlorophenol
13.412	0.003	213800	13.779	0.001	212769	15.9781	13.1331	19.5	2,4,6-Trichlorophenol
14.379	0.003	194605	15.185	0.002	197462	13.3159	13.2103	0.8	2,3,6-Trichlorophenol
16.096	0.012	109307	17.159	0.009	109054	14.1752	13.5678	4.4	2,4,5-Trichlorophenol
17.368	0.022	169953	18.738	0.013	139946	14.4030	14.0985	2.1	2,3,4-Trichlorophenol
17.726	0.006	306090	18.414	0.003	306815	13.1969	13.2906	0.7	2,3,5,6-Tetrachlorophenol
20.559	0.014	216464	21.828	0.009	218980	13.2307	13.5285	2.2	2,3,4,5-Tetrachlorophenol
12.434	0.002	116310	13.431	0.002	112921	143.1514	135.5907	5.4	2,4-Dichlorophenol
19.665	0.013	282369	20.879	0.009	278360	13.1	13.1	0.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

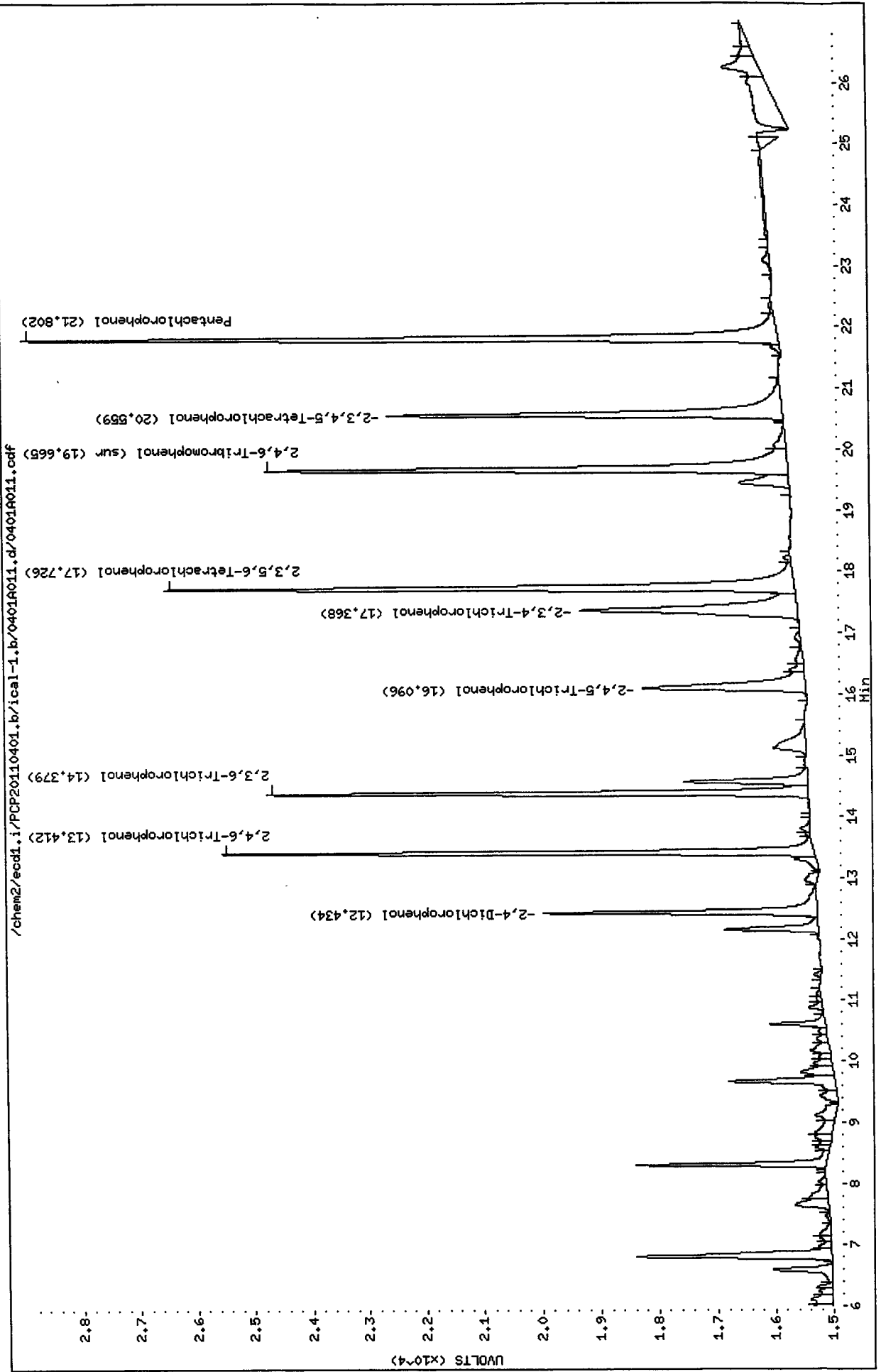
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	52.5	52.2



Data File: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A011.d  
Date : 01-APR-2011 18:18  
Client ID:  
Sample Info: PCP C  
Purge Volume: 500.0  
Column phase: ZB5

Instrument: ecdl.i

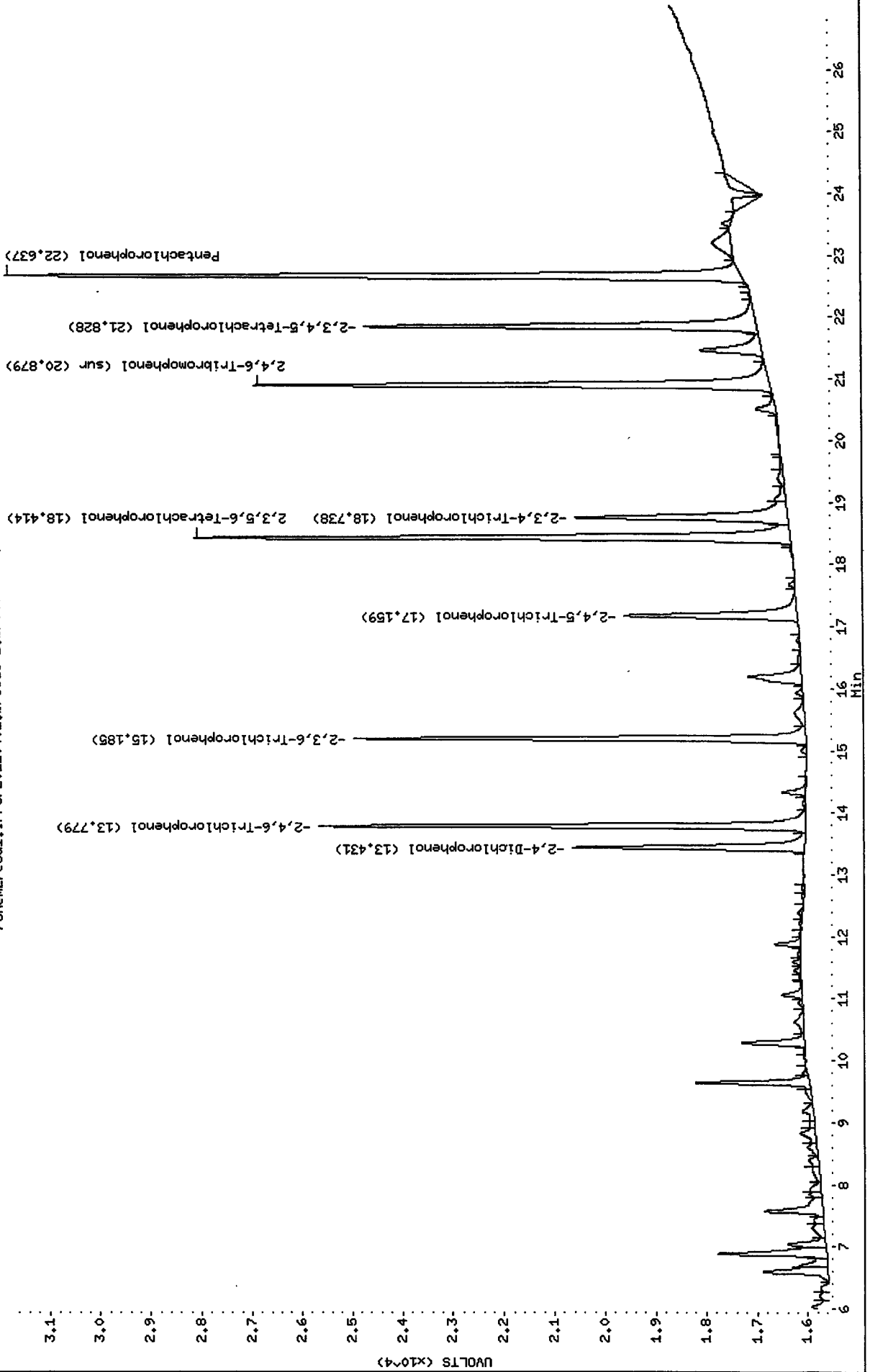
Operator: ar  
Column diameter: 0.53



Data File: /chem2/eod1.i/PCP20110401.b/ical-2.b/0401A011.d  
Date: 01-APR-2011 18:18  
Client ID:  
Sample Info: PCP C  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: eod1.i  
Operator: ar  
Column diameter: 0.53

/chem2/eod1.i/PCP20110401.b/ical-2.b/0401A011.d/0401A011.cdf



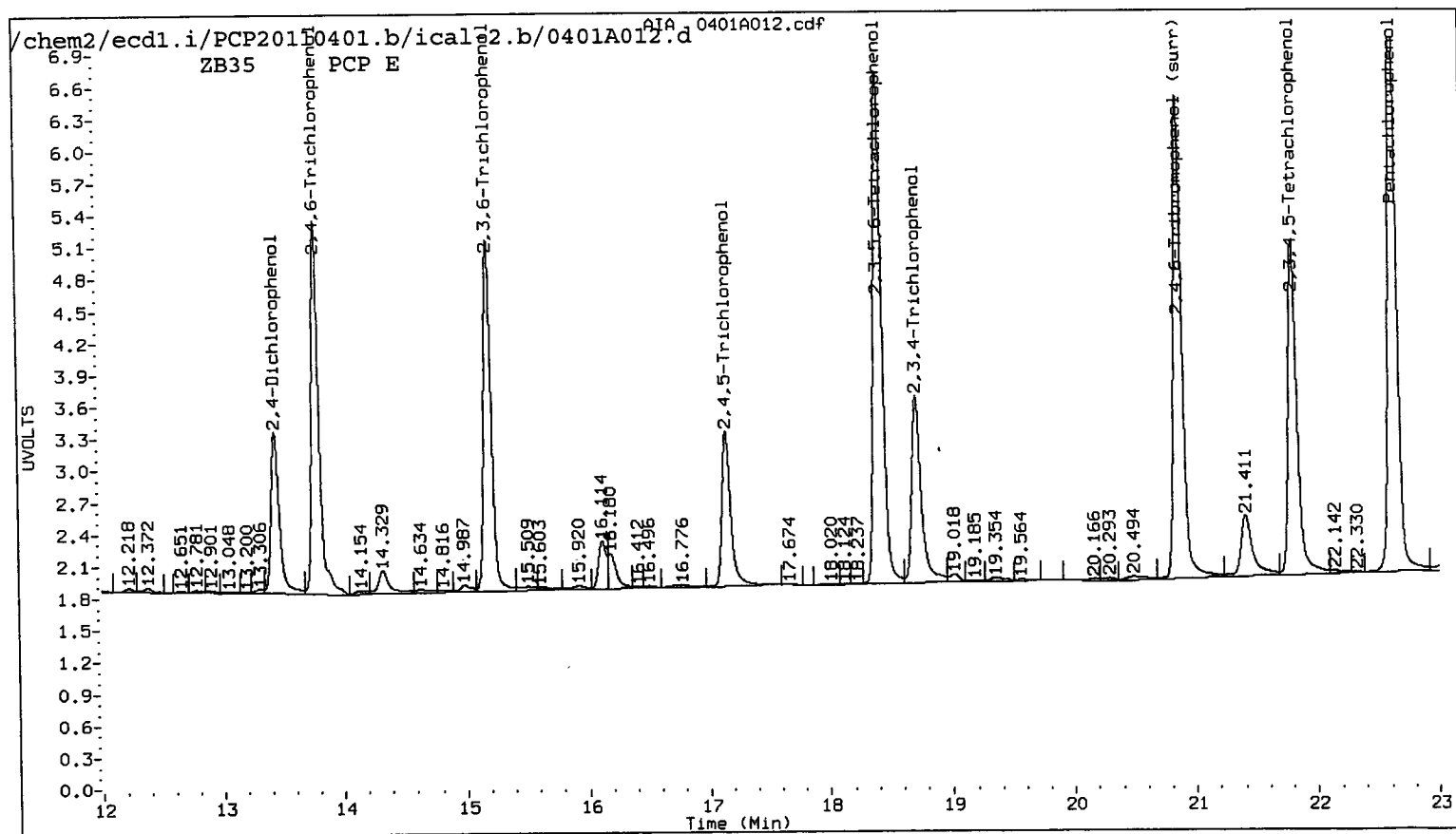
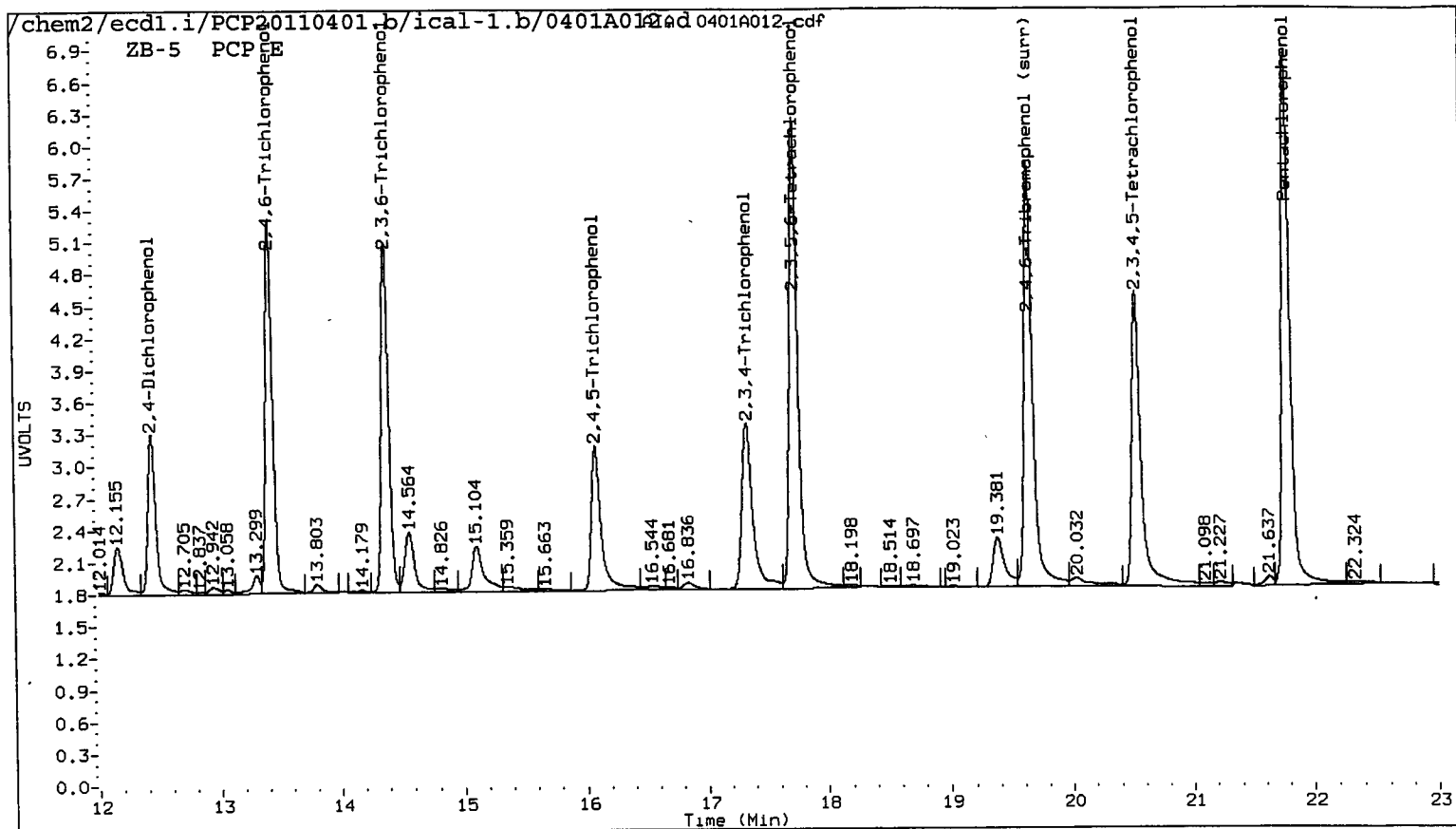
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

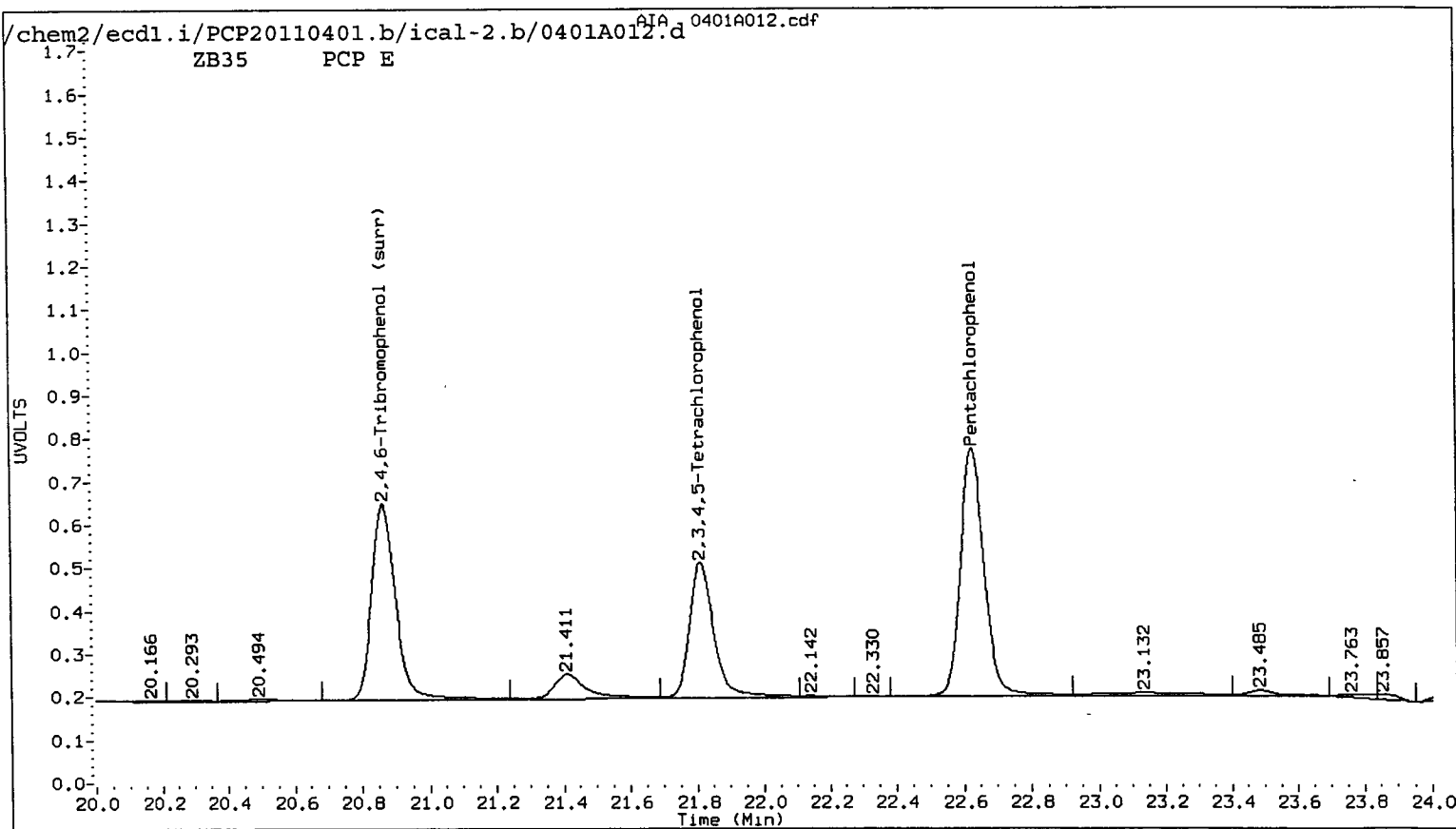
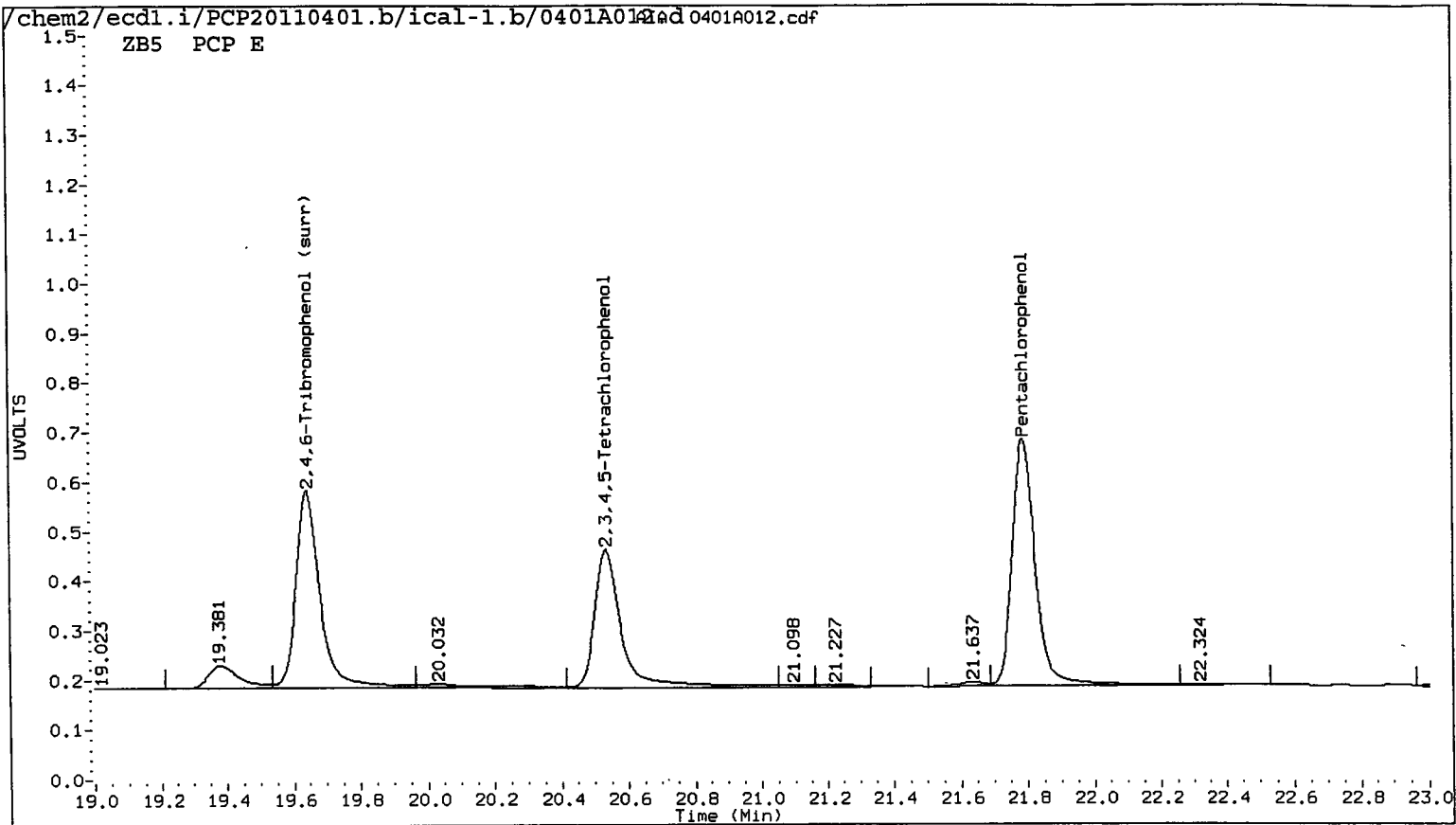
Data file 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A012.d   ARI ID: PCP E  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A012.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 01-APR-2011 18:54  
 Compound Sublist: all   Report Date: 04/02/2011 10:13  
 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		
21.788	-0.005	1210671	22.626	-0.005	1402916	47.1669	51.2520	8.3	Pentachlorophenol
13.411	0.002	719879	13.777	0.000	804706	53.7993	49.6701	8.0	2,4,6-Trichlorophenol
14.378	0.002	673914	15.184	0.001	733848	46.1128	49.0947	6.3	2,3,6-Trichlorophenol
16.077	-0.007	376820	17.145	-0.005	381163	48.8668	47.4220	3.0	2,4,5-Trichlorophenol
17.328	-0.018	483858	18.712	-0.013	486598	50.7384	49.0210	3.4	2,3,4-Trichlorophenol
17.718	-0.002	1062002	18.408	-0.003	1138464	45.7875	49.3160	7.4	2,3,5,6-Tetrachloropheno
20.533	-0.012	772500	21.811	-0.008	800319	47.2169	49.4436	4.6	2,3,4,5-Tetrachlorophenol
12.432	0.000	345985	13.428	-0.002	370984	500.5257	445.4616	11.6	2,4-Dichlorophenol
19.642	-0.010	1024157	20.864	-0.006	1126307	47.6	52.8	10.4	2,4,6-Tribromophenol (sur

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	190.4	211.2



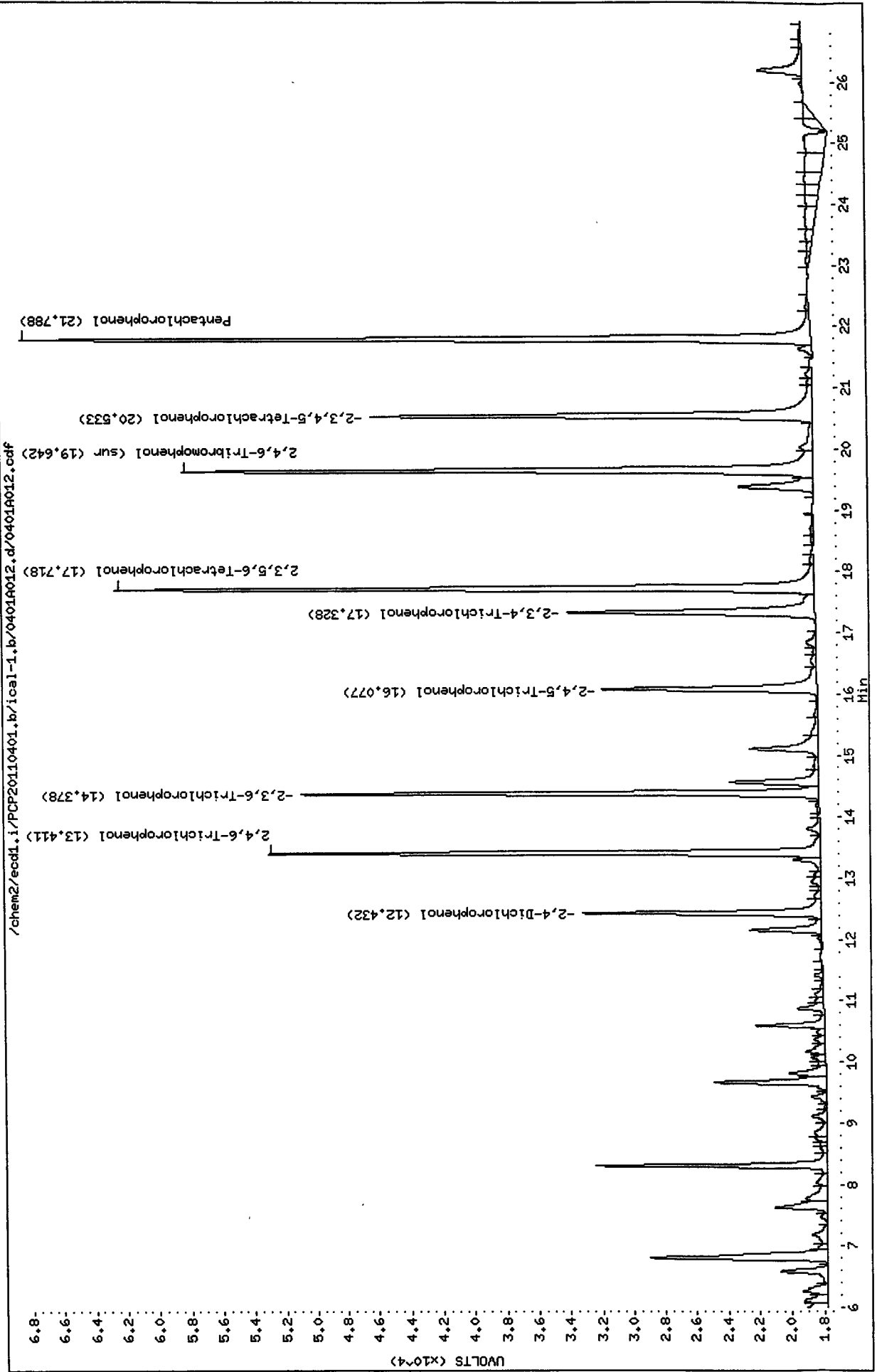


SN54 : 00491



Data File: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A012.d  
Date : 01-APR-2011 18:54  
Client ID:  
Sample Info: PCP E  
Purge Volume: 500.0  
Column phase: ZB5

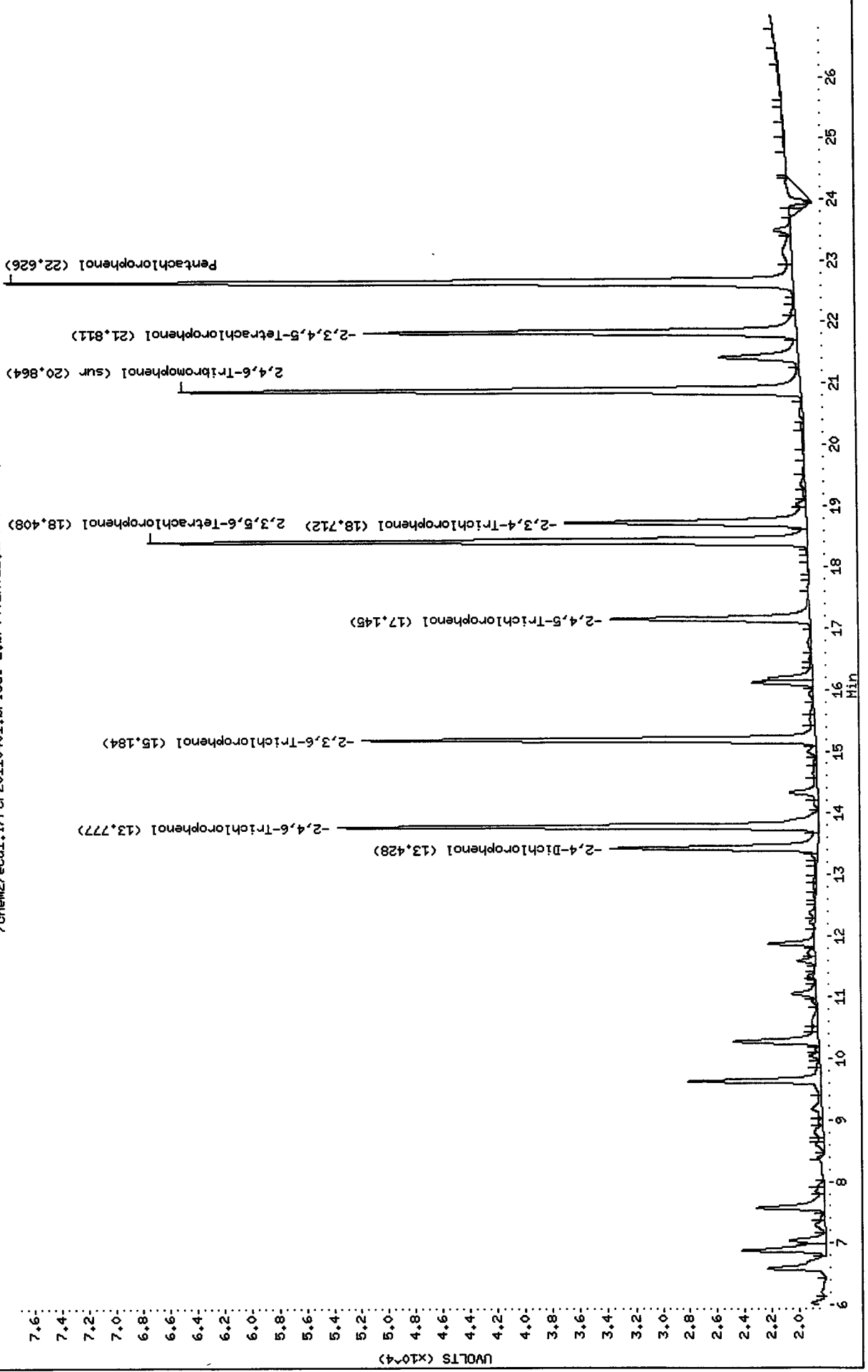
Instrument: ecdl.i  
Operator: ar  
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110401.b/ical-2.b/0401A012.d  
Date : 01-APR-2011 18:54  
Client ID:  
Sample Info: PCP E  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecd1.i  
Operator: ar  
Column diameter: 0.53

/chem2/ecd1.i/PCP20110401.b/ical-2.b/0401A012.d/0401A012.cdf



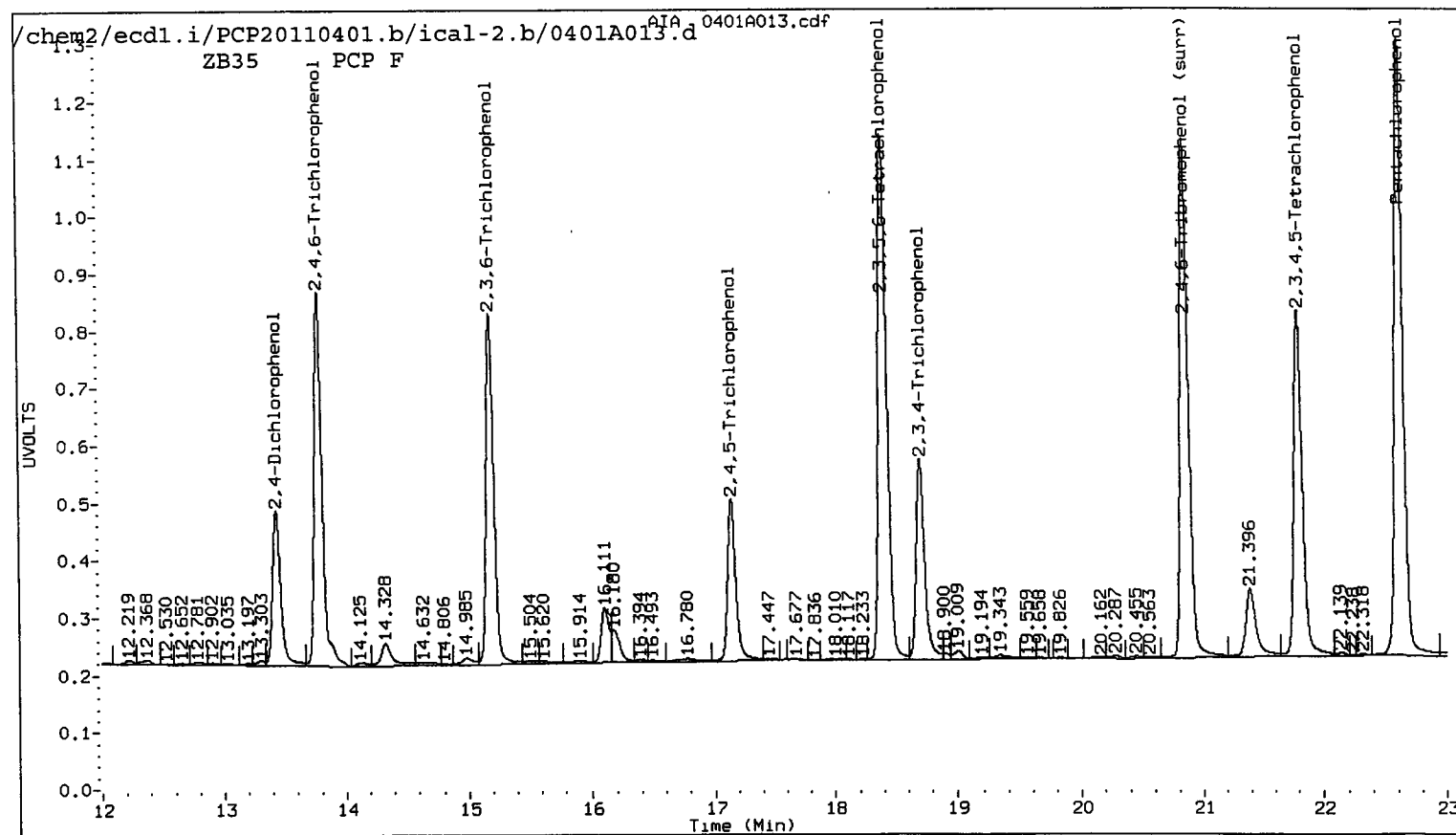
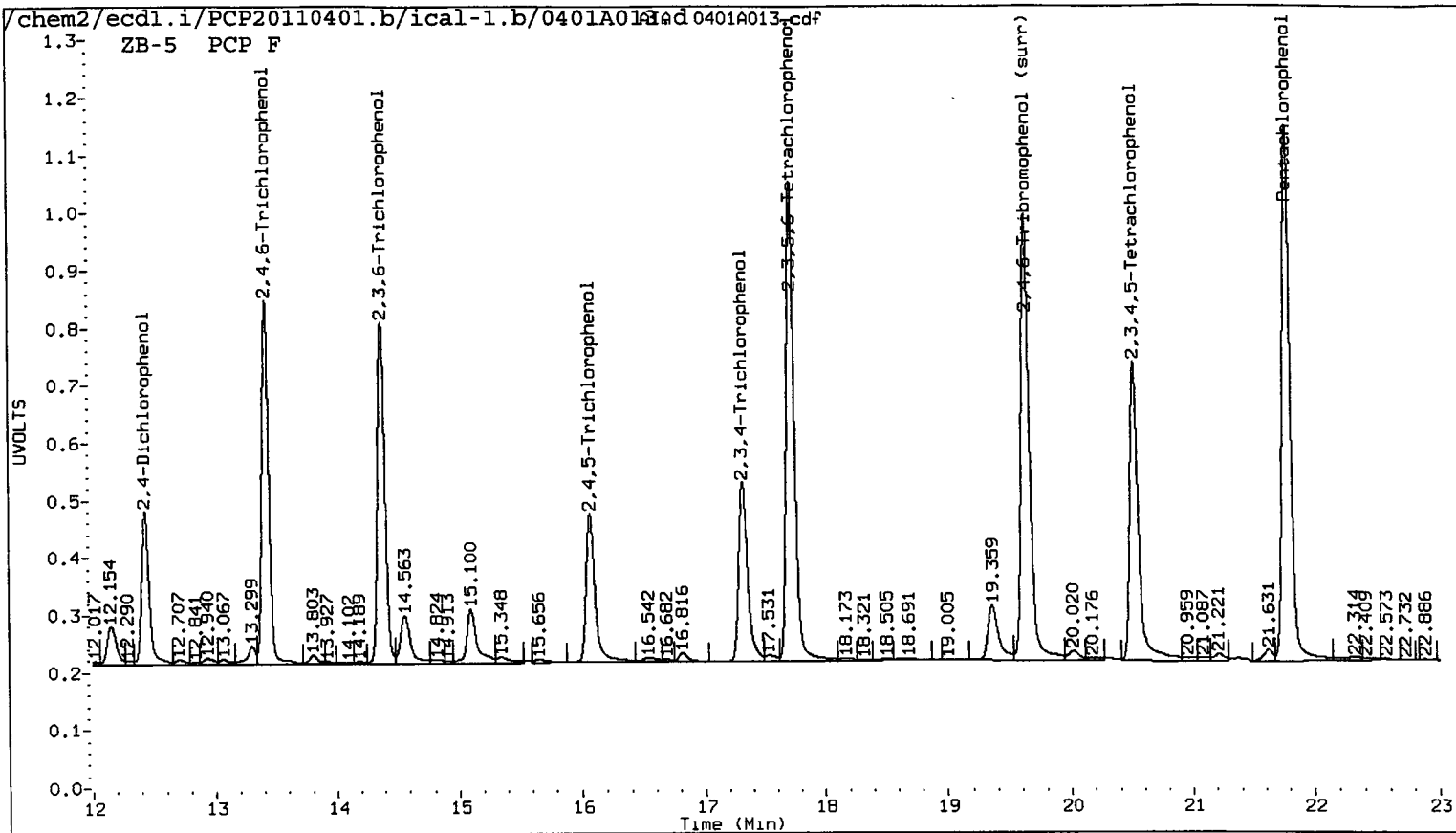
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

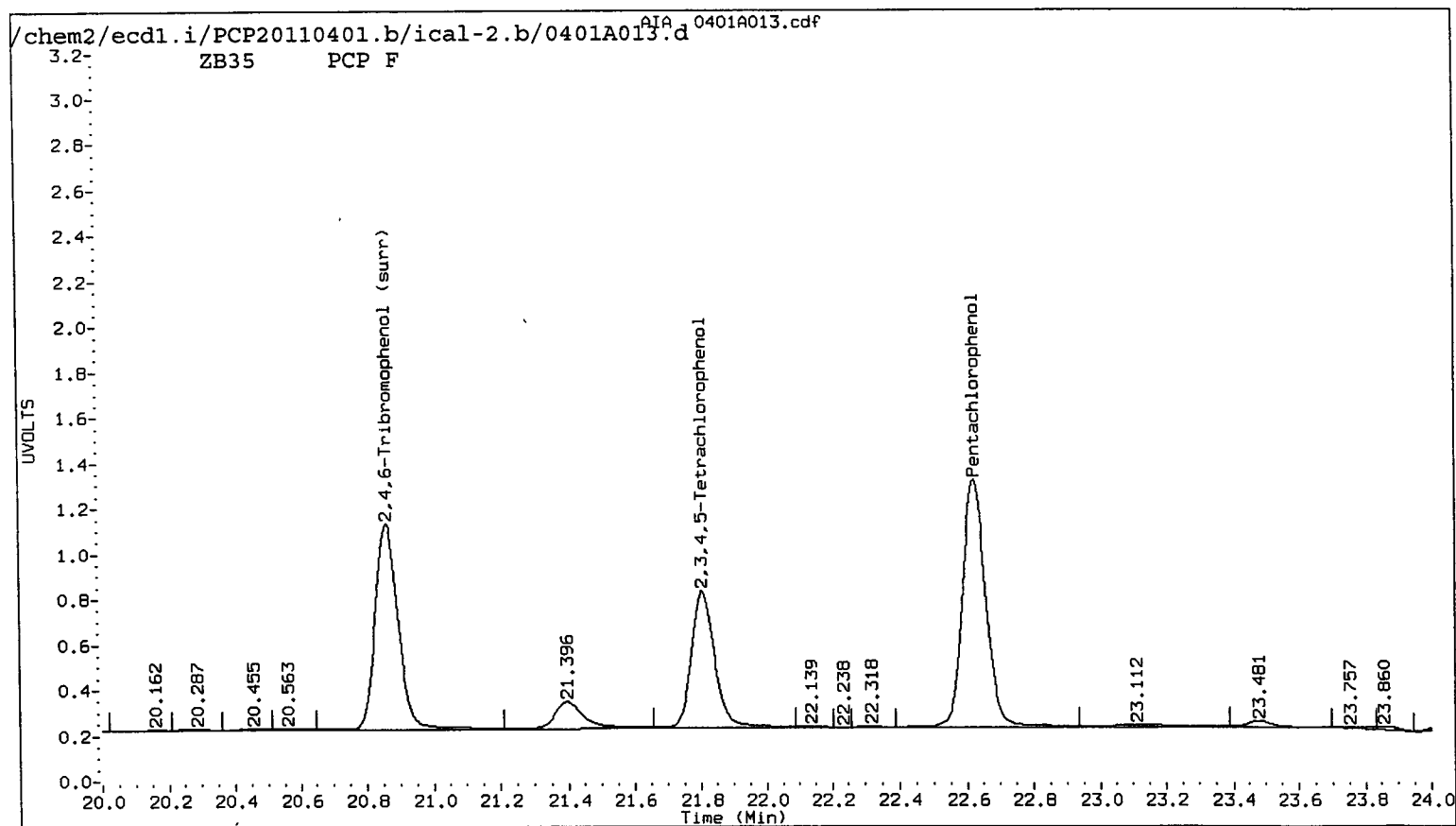
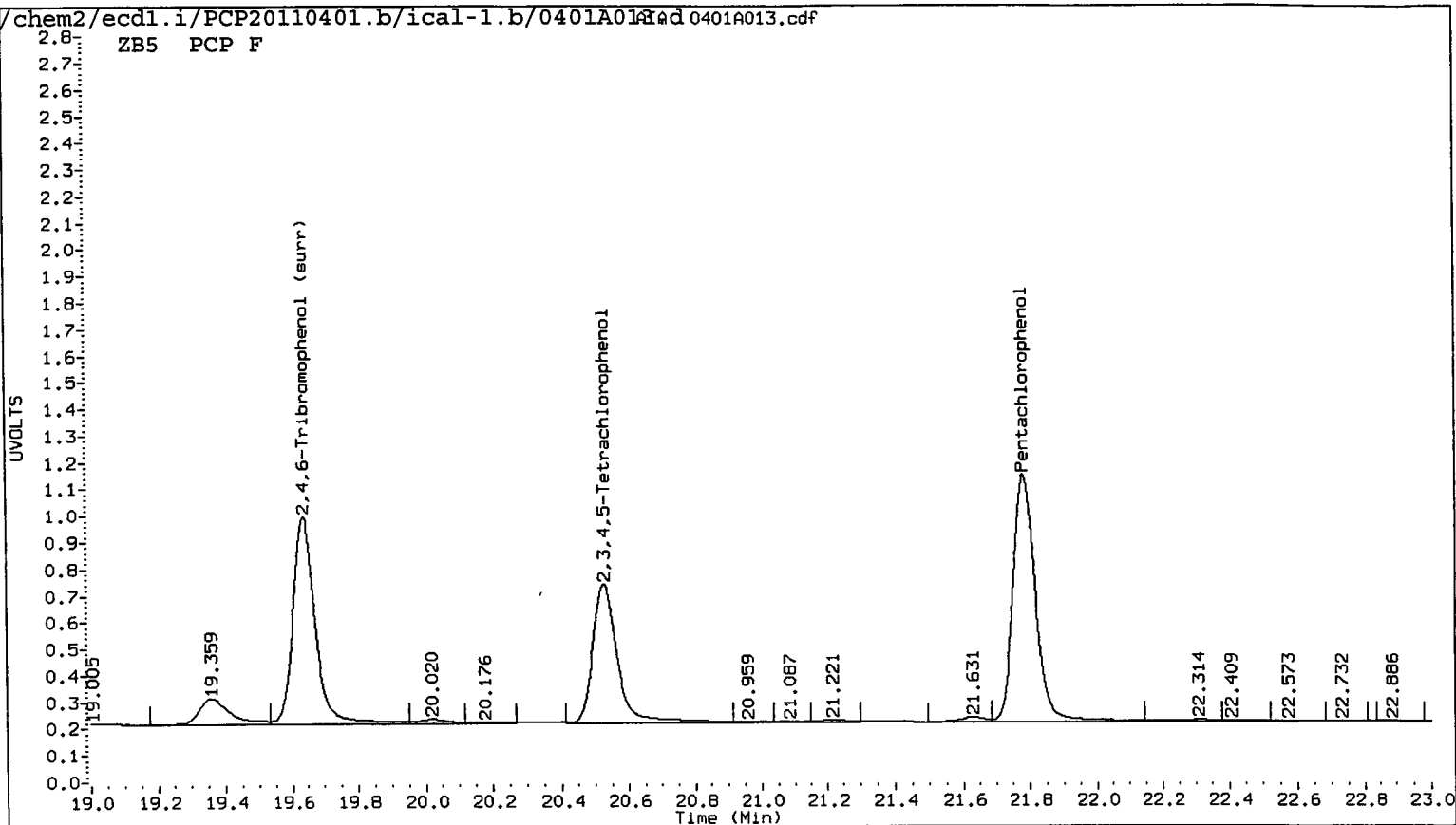
Data file 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A013.d   ARI ID: PCP F  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A013.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 01-APR-2011 19:31  
 Compound Sublist: all   Report Date: 04/02/2011 10:13  
 Instrument: ecd1.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
21.784	-0.009 2206692	22.622 -0.009 2645535	85.9712	96.6479	11.7	Pentachlorophenol
13.411	0.002 1293794	13.777 0.000 1485767	96.6902	91.7083	5.3	2,4,6-Trichlorophenol
14.378	0.002 1220671	15.184 0.001 1367469	83.5248	91.4842	9.1	2,3,6-Trichlorophenol
16.073	-0.011 650192	17.142 -0.008 683511	84.3183	85.0383	0.9	2,4,5-Trichlorophenol
17.317	-0.029 798751	18.706 -0.019 868781	99.8762	87.5231	13.2	2,3,4-Trichlorophenol
17.717	-0.003 1911572	18.406 -0.004 2131014	82.4162	92.3113	11.3	2,3,5,6-Tetrachloropheno
20.526	-0.019 1354593	21.805 -0.014 1492296	82.7956	92.1938	10.7	2,3,4,5-Tetrachloropheno
12.431	-0.001 595366	13.427 -0.002 640828	1000.8618	769.4787	26.1	2,4-Dichlorophenol
19.636	-0.016 1874481	20.860 -0.011 2166056	87.1	101.5	15.3	2,4,6-Tribromophenol (su

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	348.5	406.2

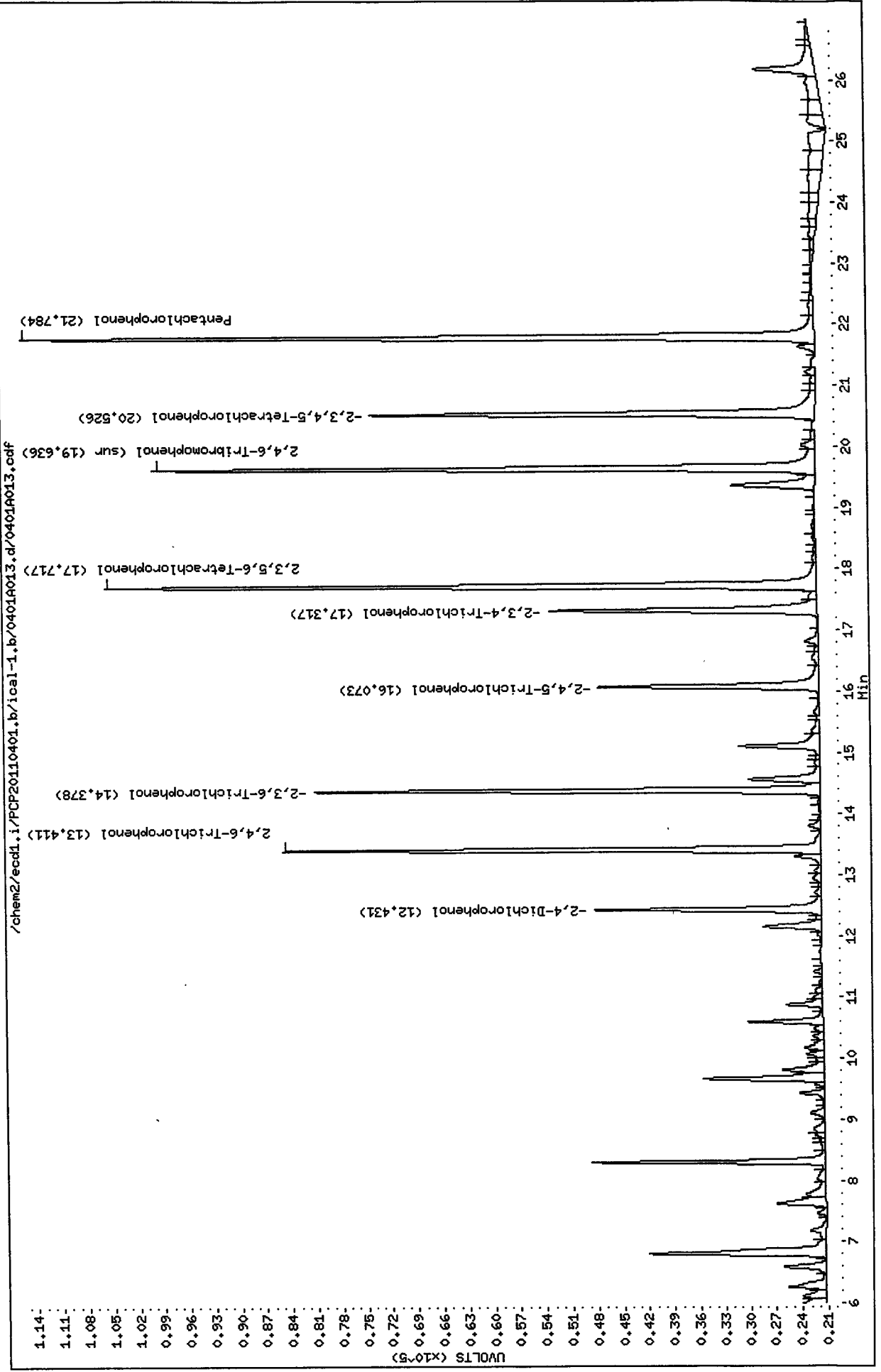




Data File: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A013.d  
Date : 01-APR-2011 19:31  
Client ID:  
Sample Info: PCP F  
Purge Volume: 500.0  
Column phase: ZB5

Instrument: ecd1.i

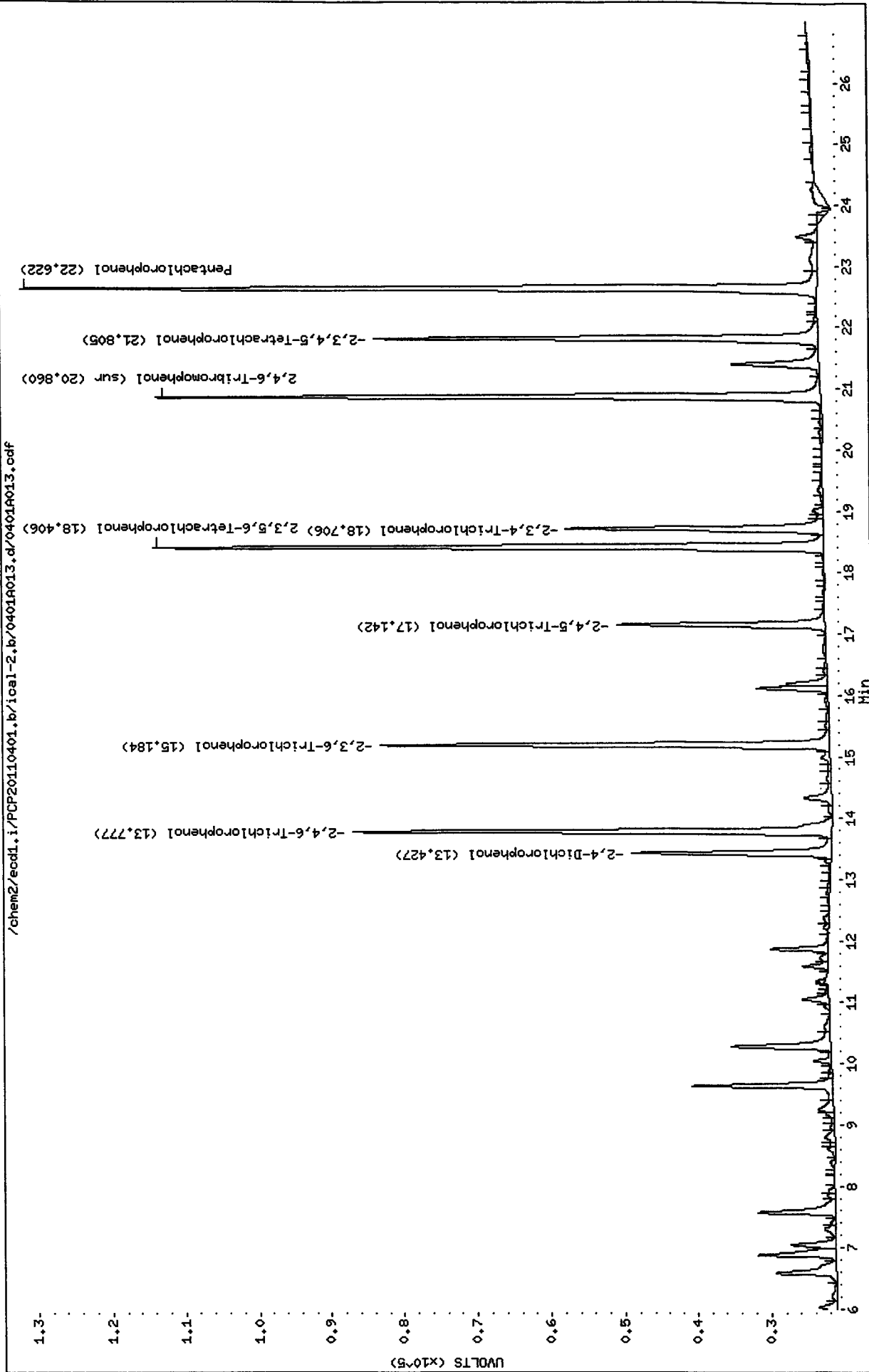
Operator: ar  
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A013.d  
Date : 01-APR-2011 19:31  
Client ID:  
Sample Info: PCP F  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecd1.i

Operator: ar  
Column diameter: 0.53



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

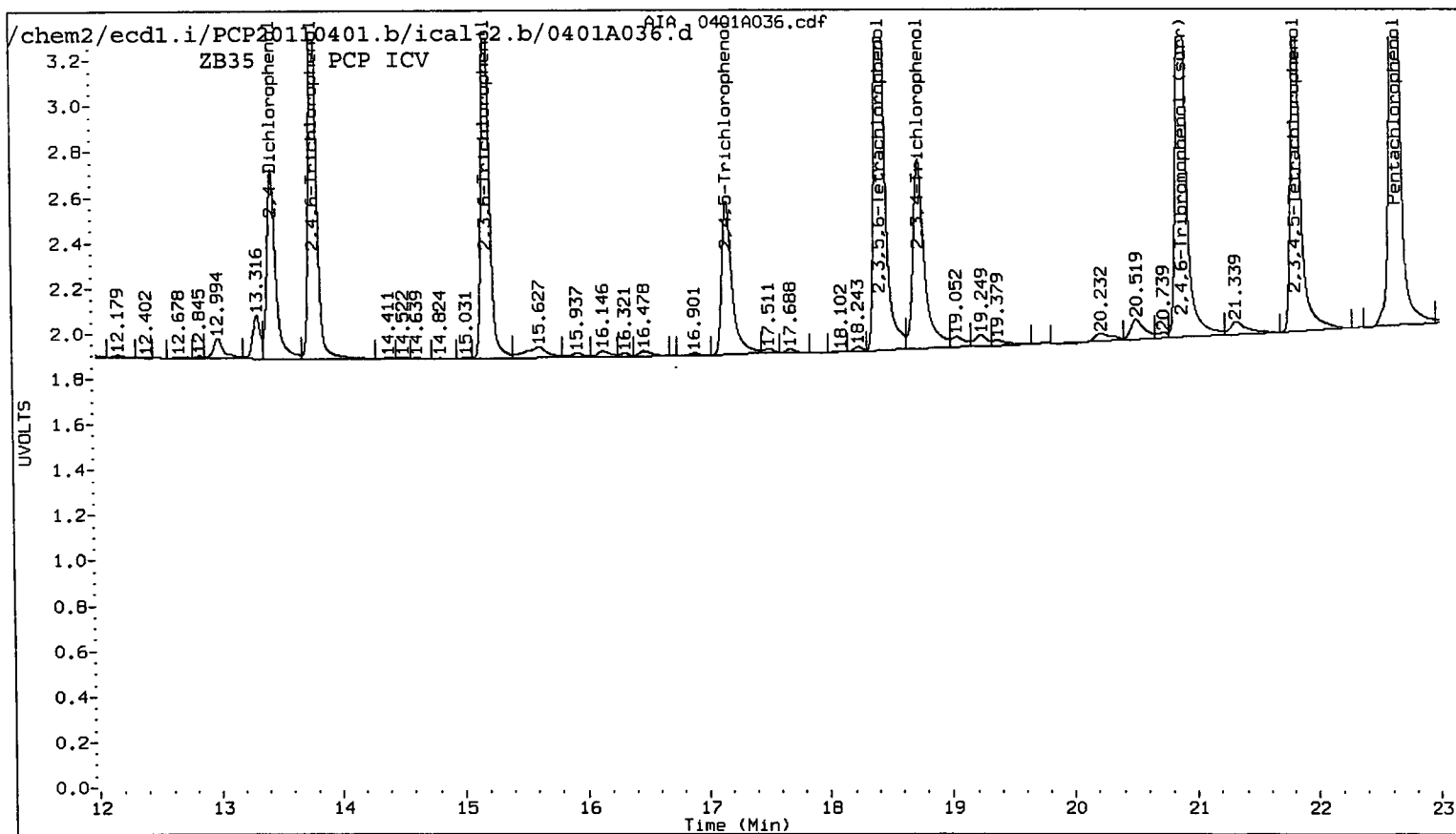
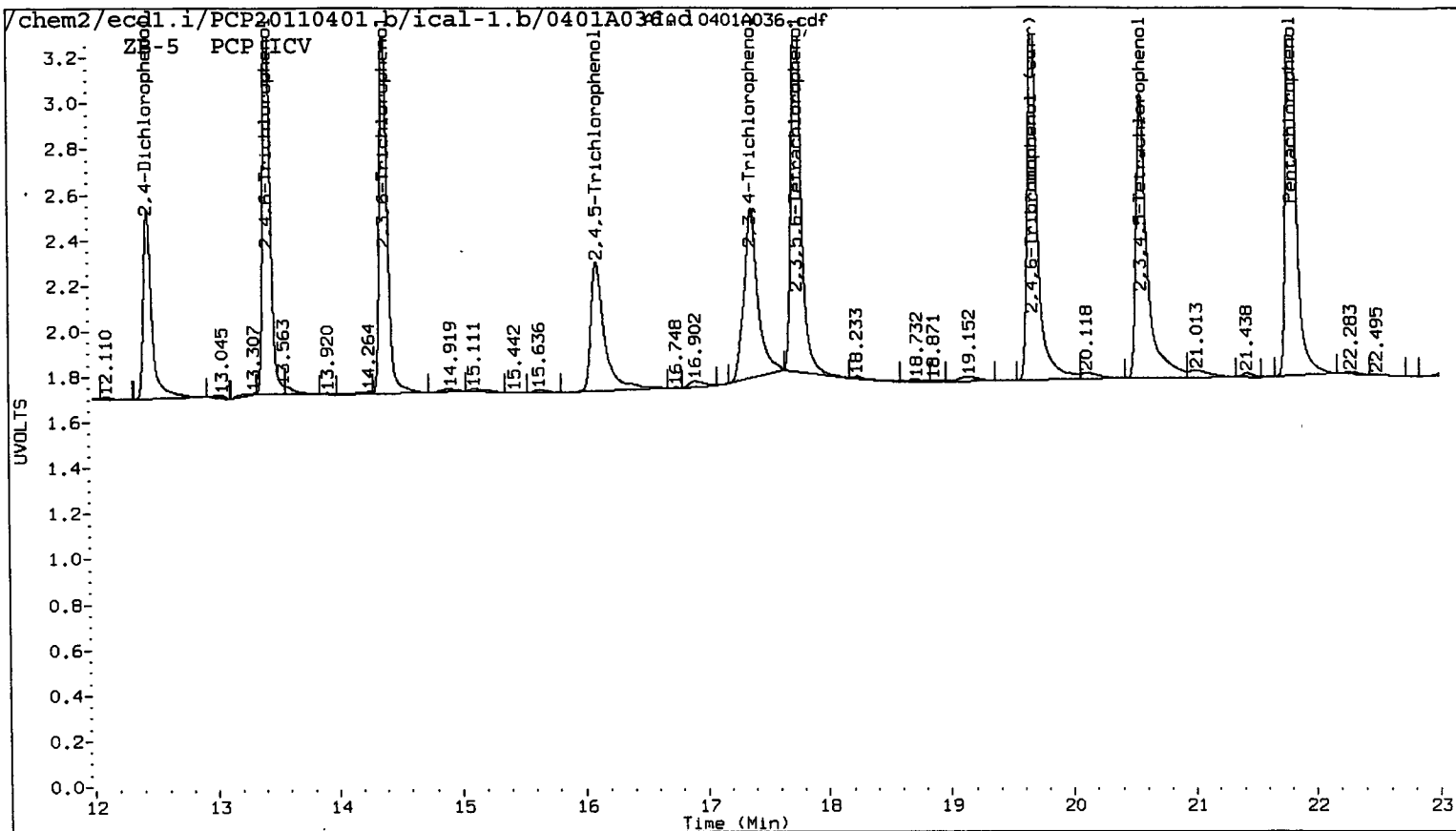
Data file 1: /chem2/ecdl.i/PCP20110401.b/ical-1.b/0401A036.d   ARI ID: PCP ICV  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/ical-2.b/0401A036.d   Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m                   Injection Date: 02-APR-2011 09:21  
 Compound Sublist: all   Report Date: 04/02/2011 10:52  
 Instrument: ecdl.i   Matrix: WATER  
 Operator: ar   Dilution Factor: 1.000

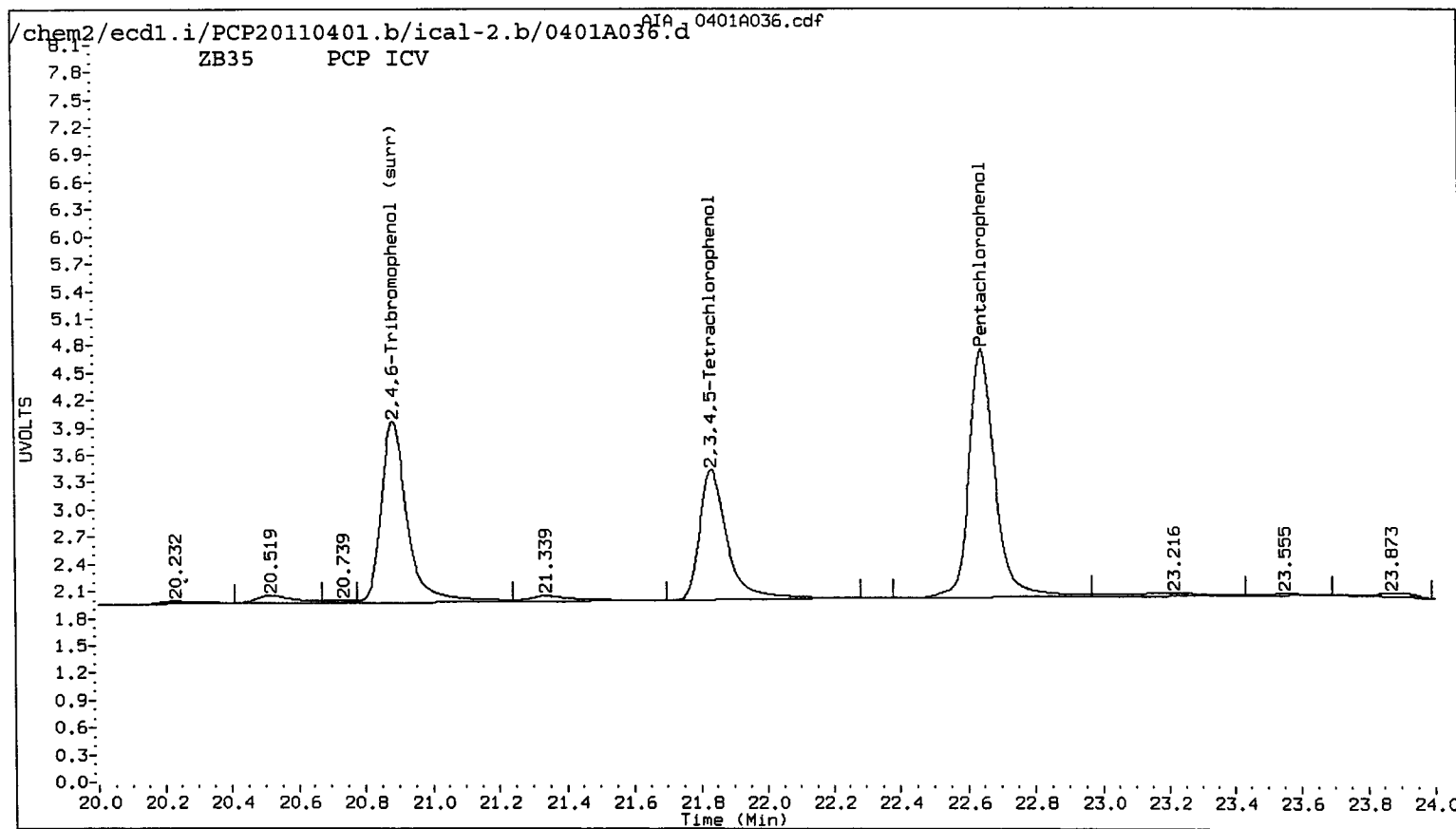
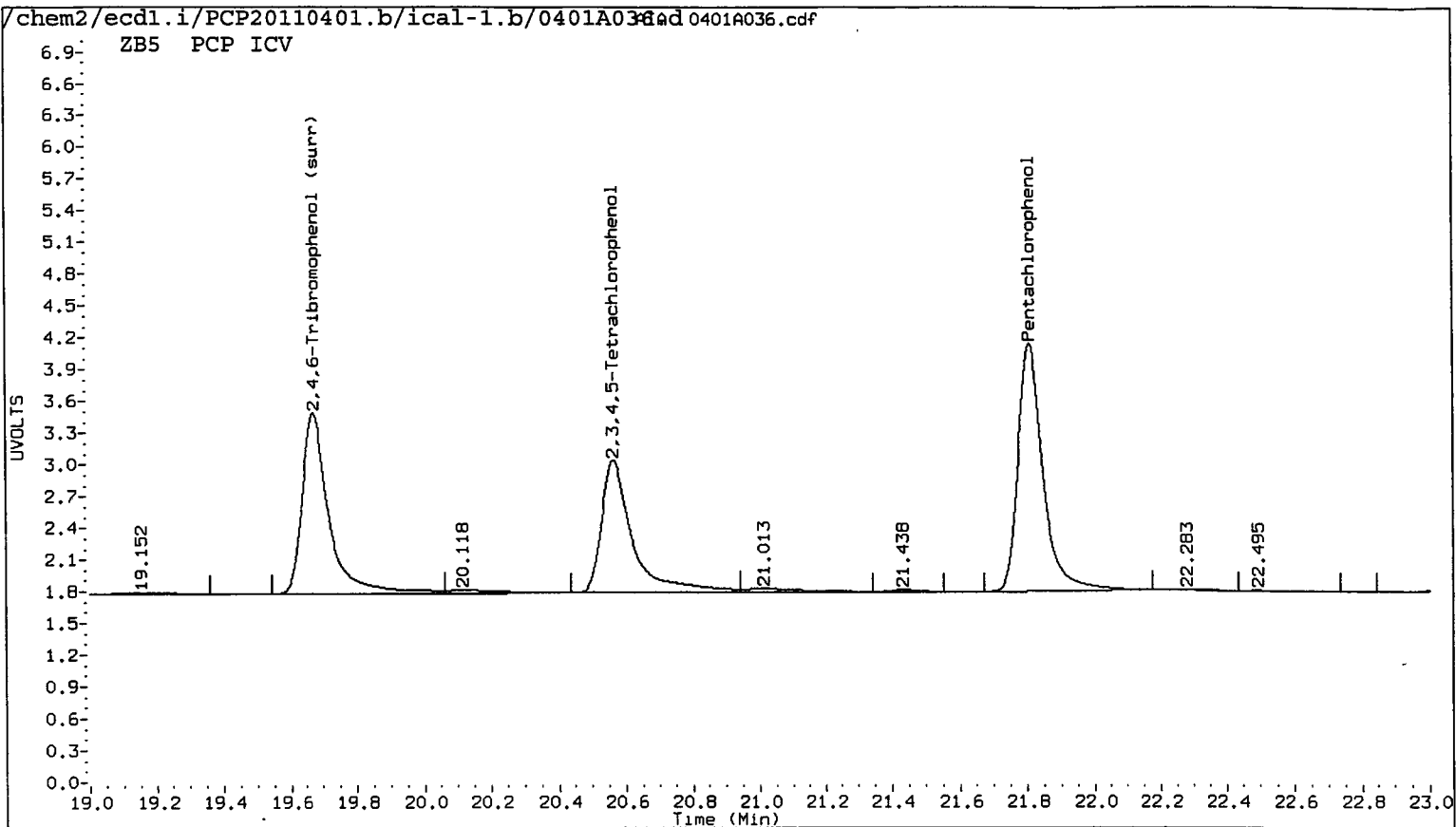
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.810	0.017	605129	22.644	0.012	723841	23.5754	26.4437	11.5	Pentachlorophenol
13.420	0.011	378458	13.786	0.008	403218	28.2837	24.8885	12.8	2,4,6-Trichlorophenol
14.387	0.011	365272	15.193	0.010	372106	24.9939	24.8940	0.4	2,3,6-Trichlorophenol
16.100	0.016	216185	17.165	0.015	203262	28.0354	25.2886	10.3	2,4,5-Trichlorophenol
17.367	0.021	290777	18.740	0.015	270300	26.8938	27.2307	1.2	2,3,4-Trichlorophenol
17.734	0.014	502310	18.422	0.012	587167	21.6568	25.4349	16.0	2,3,5,6-Tetrachlorophenol
20.564	0.019	397623	21.835	0.016	410461	24.3036	25.3582	4.2	2,3,4,5-Tetrachlorophenol
12.441	0.009	202852	13.438	0.008	212481	266.1677	255.1391	4.2	2,4-Dichlorophenol
19.672	0.020	487632	20.886	0.015	535355	22.7	25.1	10.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	94.3	105.8
2,4,6-Trichlorophenol	113.1	99.6
2,3,6-Trichlorophenol	100.0	99.6
2,4,5-Trichlorophenol	112.1	101.2
2,3,4-Trichlorophenol	107.6	108.9
2,3,5,6-Tetrachlorophenol	86.6	101.7
2,3,4,5-Tetrachlorophenol	97.2	101.4
2,4-Dichlorophenol	106.5	102.1
2,4,6-TBP (surr)	<del>45.3</del> 90.6	<del>50.2</del> 100.4



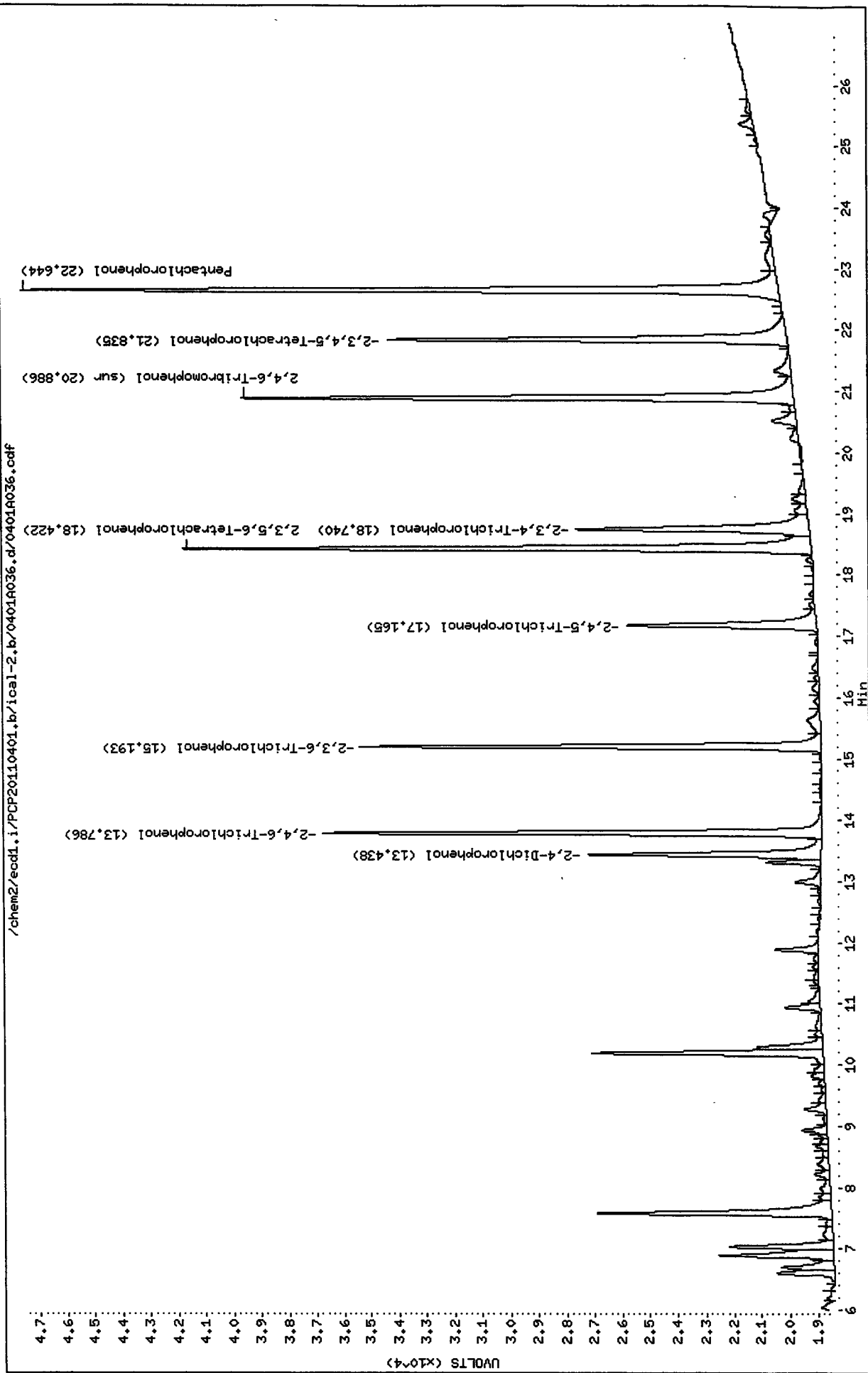




SN54 : 00501

Data File: /chem2/eod1.i/PCP20110401.b/ical-2.b/0401A036.d  
Date : 02-APR-2011 09:21  
Client ID:  
Sample Info: PCP ICV  
Purge Volume: 500.0  
Column phase: ZB35

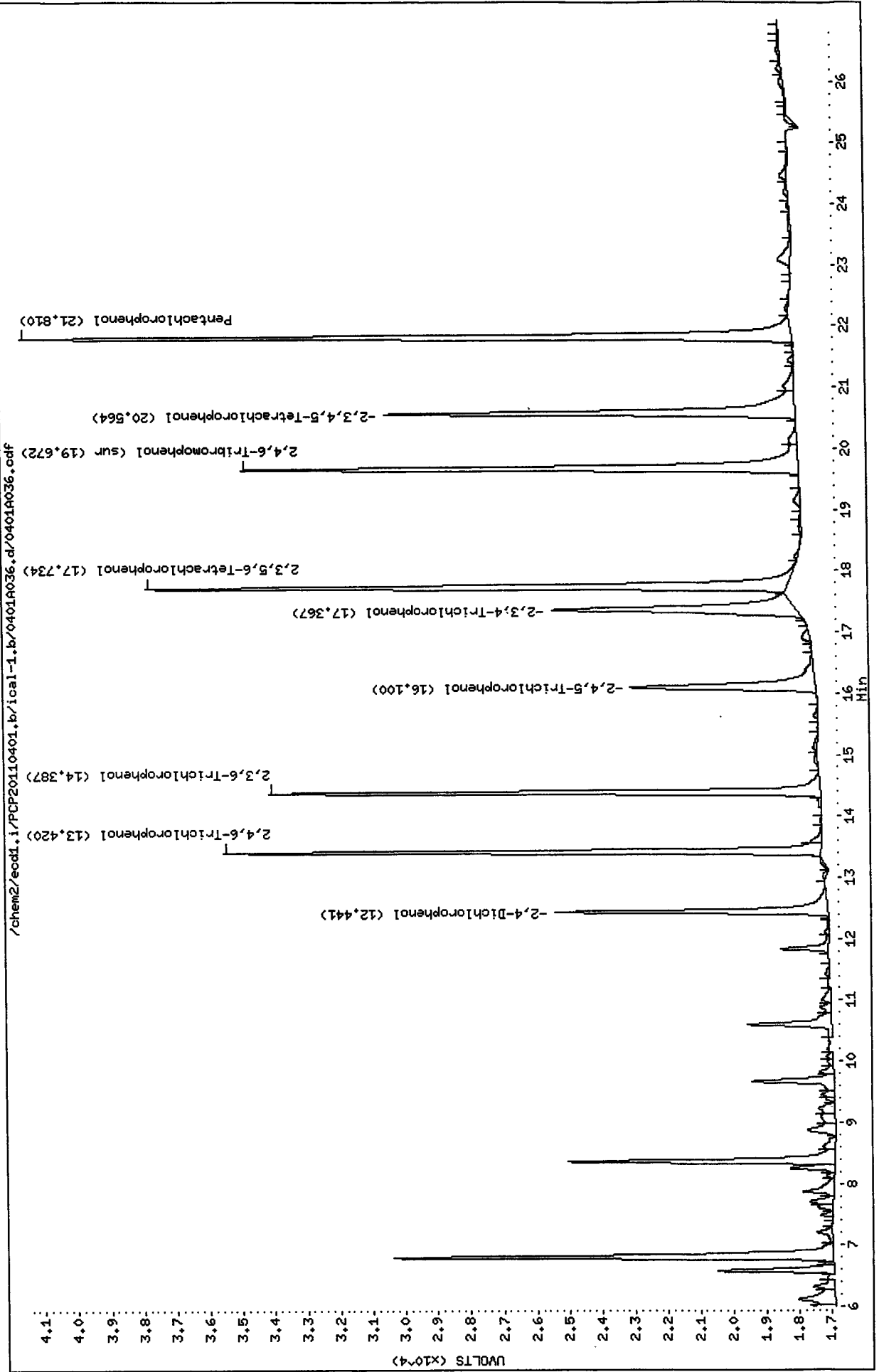
Instrument: eod1.i  
Operator: ar  
Column diameter: 0.53



SN54 00502

Data File: /chem2/ecdl1.i/PCP20110401.b/ical-1.b/0401A036.d  
Date : 02-APR-2011 09:21  
Client ID:  
Sample Info: PCP ICV  
Purge Volume: 500.0  
Column phase: ZB5

Instrument: ecdl.i  
Operator: ar  
Column diameter: 0.53



**PCP/Chlorophenols Raw Data  
Run Logs, Continuing Calibrations, and Raw Data**

**ARI Job ID: SN54**



### GC Analyst Notes / Corrective Action Log

ARI Project ID: SN54 Client ID: Floyd Snider

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): PCP

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8  
FID-9 ECD-1 ECD-5 ECD-6 ECD-7

Dates: Curve: 04/01/11 Analysis Start: 04/06/11

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO  
 ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO  
 CCal Meets RF & %RSD Criteria? YES / NO Surrogate Recovery In Control? YES / NO  
 Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO  
 Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

**Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):**

Additional Details on Reverse: Yes / No

Analyst: YZ Date: 4/7/11

Reviewer: [Signature] Date: 4/7/11



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A004.d ARI ID: PCP CCAL  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A004.d Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 06-APR-2011 17:01  
 Compound Sublist: all Report Date: 04/07/2011 14:42  
 Instrument: ecdl.i Matrix: NONE  
 Operator: ar Dilution Factor: 1.000

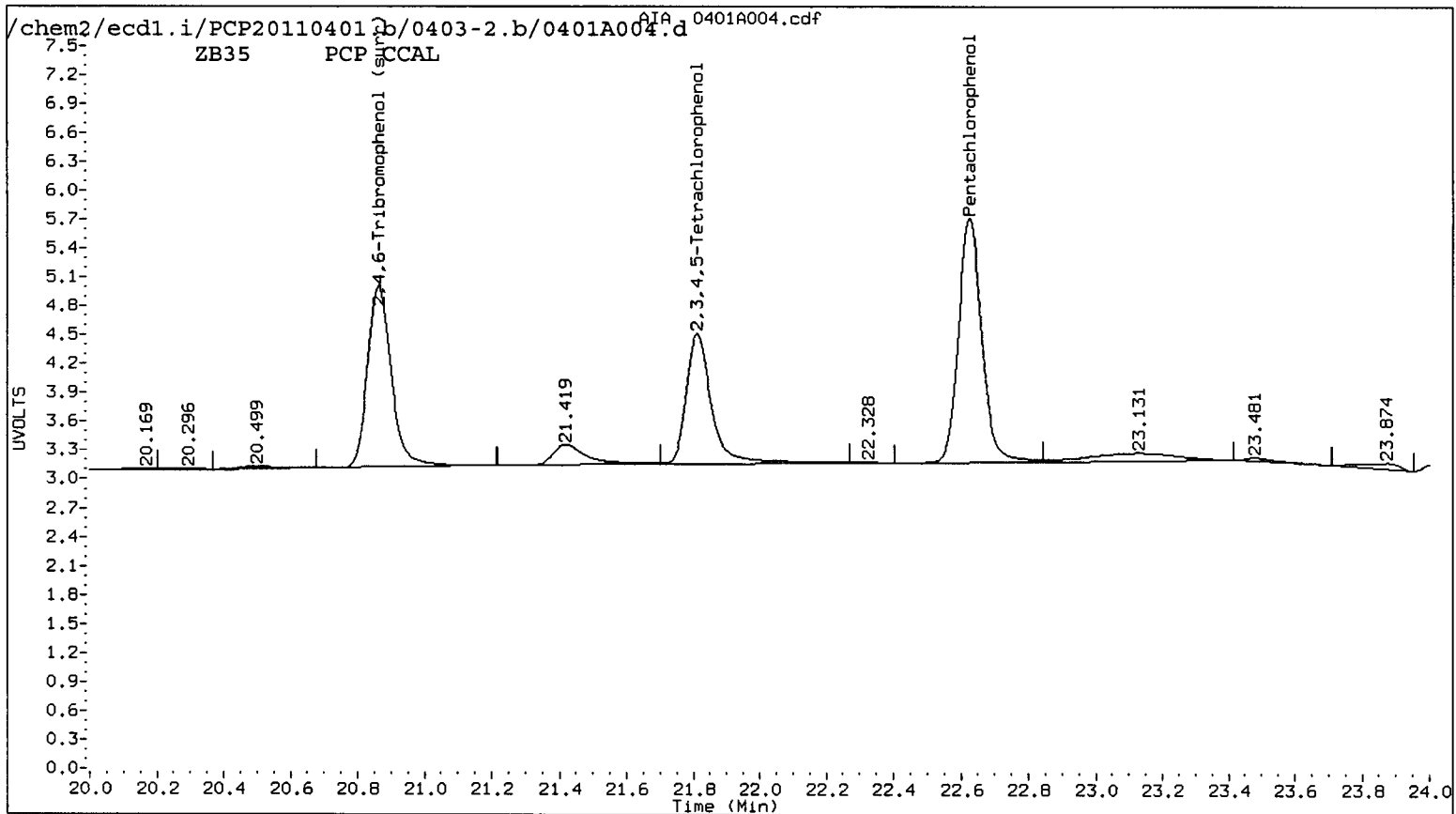
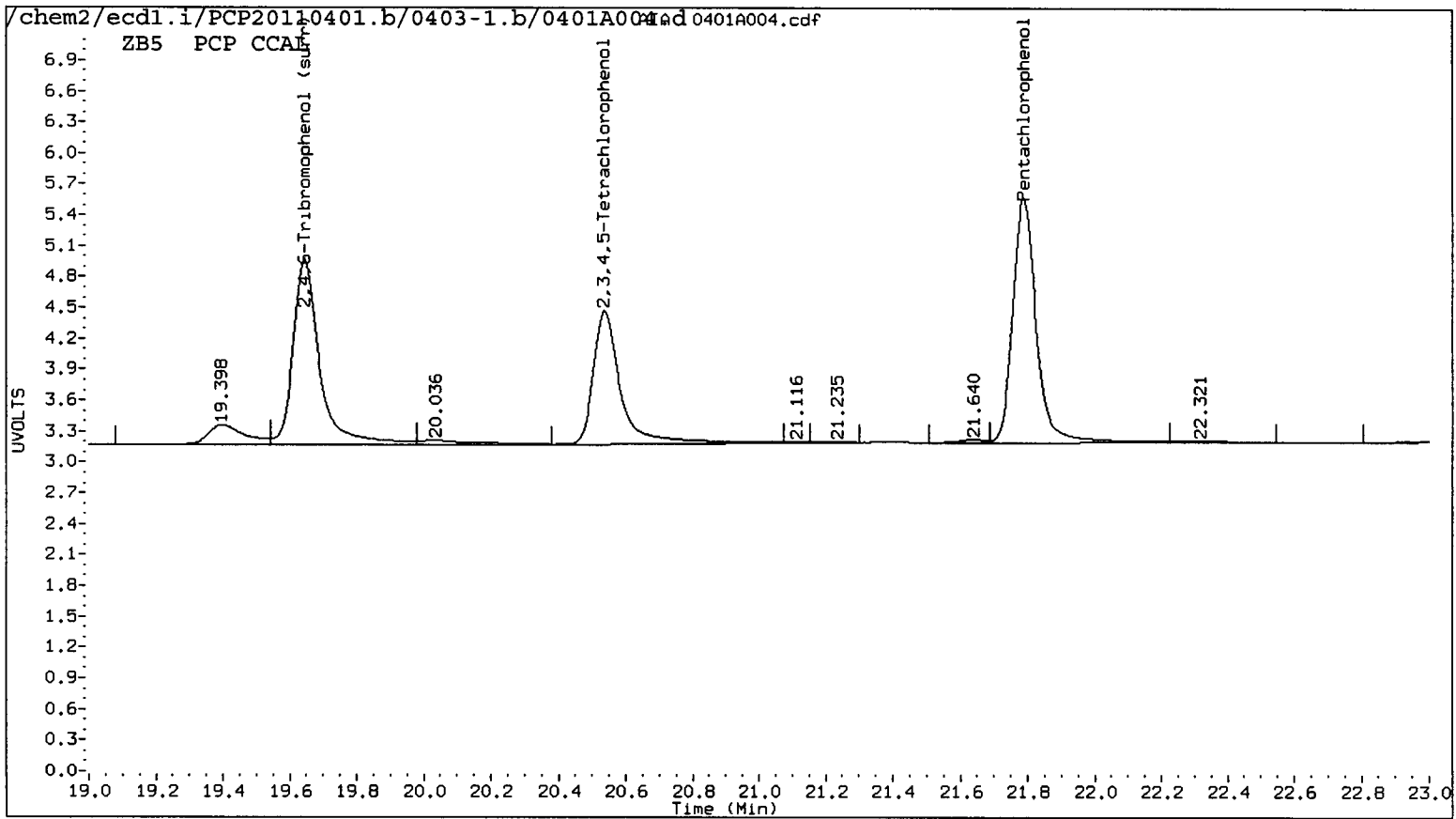
*YZ 4/7/11*

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.789	-0.004	588180	22.626	-0.005	610869	22.9151	22.3166	2.6	Pentachlorophenol
13.410	0.001	371006	13.774	-0.003	356895	27.7268	22.0292	22.9	2,4,6-Trichlorophenol
14.377	0.001	329939	15.181	-0.002	328743	22.5762	21.9930	2.6	2,3,6-Trichlorophenol
16.078	-0.006	183298	17.145	-0.005	179307	23.7705	22.3083	6.3	2,4,5-Trichlorophenol
17.335	-0.011	269299	18.716	-0.009	227501	24.5368	22.9190	6.8	2,3,4-Trichlorophenol
17.718	-0.002	522560	18.406	-0.005	509284	22.5299	22.0612	2.1	2,3,5,6-Tetrachlorophenol
20.538	-0.007	368820	21.813	-0.007	368309	22.5431	22.7541	0.9	2,3,4,5-Tetrachlorophenol
12.431	-0.001	196157	13.426	-0.003	184848	256.1484	221.9575	14.3	2,4-Dichlorophenol
19.645	-0.007	493997	20.864	-0.007	465108	23.0	21.8	5.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	91.7	89.3
2,4,6-Trichlorophenol	110.9	88.1
2,3,6-Trichlorophenol	90.3	88.0
2,4,5-Trichlorophenol	95.1	89.2
2,3,4-Trichlorophenol	98.1	91.7
2,3,5,6-Tetrachlorophenol	90.1	88.2
2,3,4,5-Tetrachlorophenol	90.2	91.0
2,4-Dichlorophenol	102.5	88.8
2,4,6-TBP (surr)	91.8	87.2





Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A004.d

Date: 06-APR-2011 17:01

Client ID:

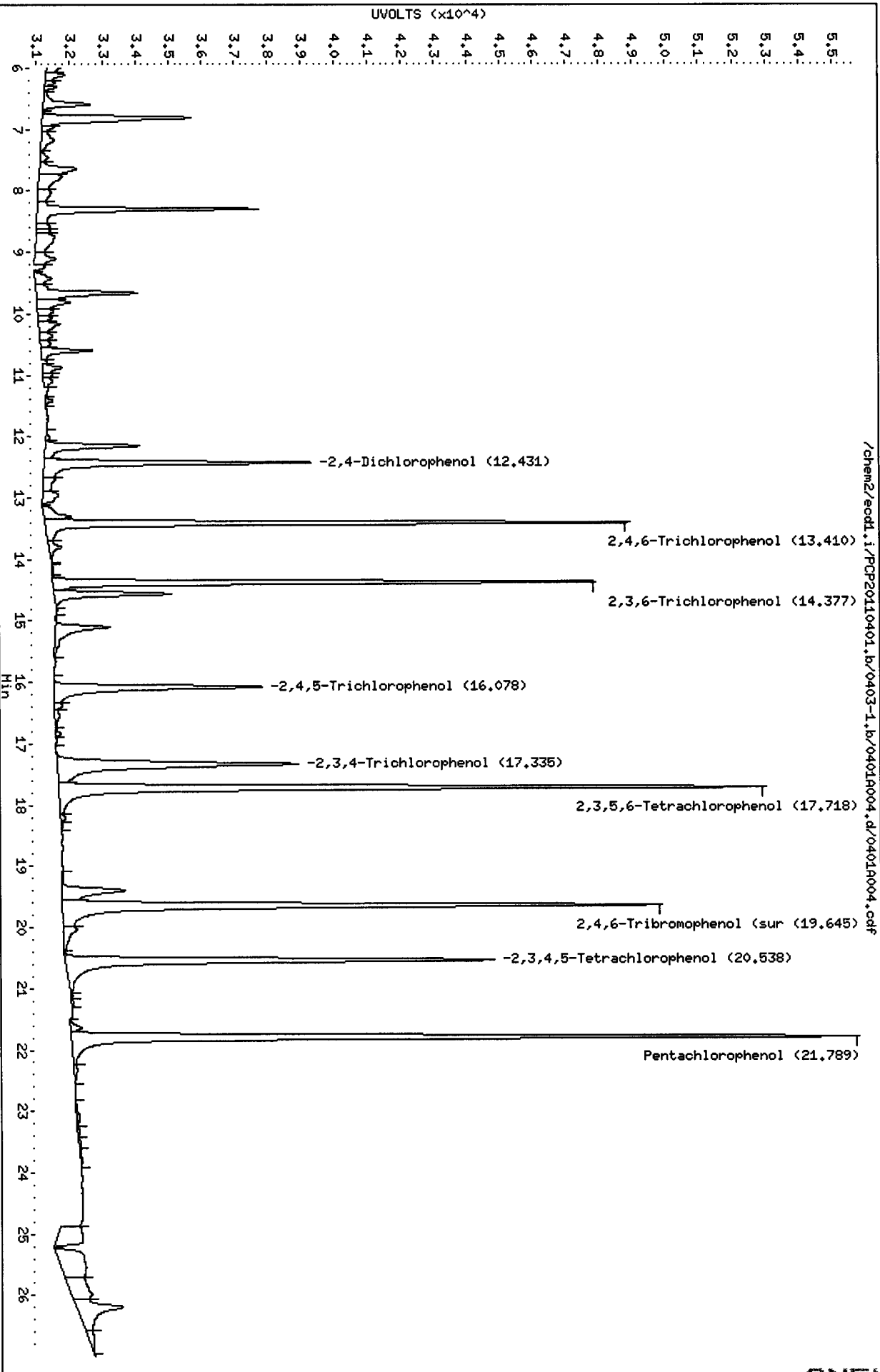
Sample Info: PCP COAL

Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



00500 : 5254

Data File: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A004.d

Date: 06-APR-2011 17:01

Client ID:

Sample Info: PCP CCAL

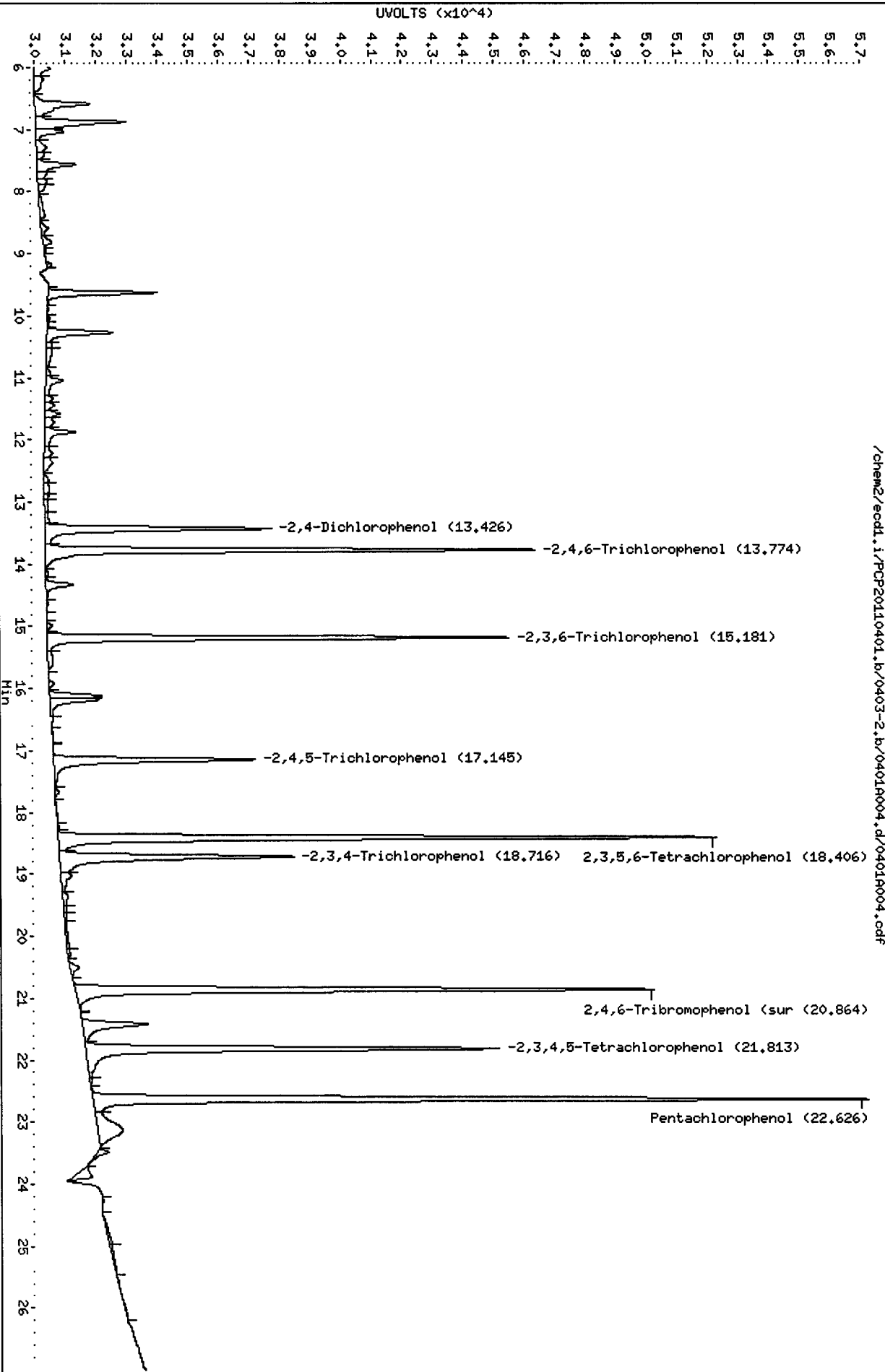
Column phase: ZB35

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

/chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A004.d/0401A004.cdf



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

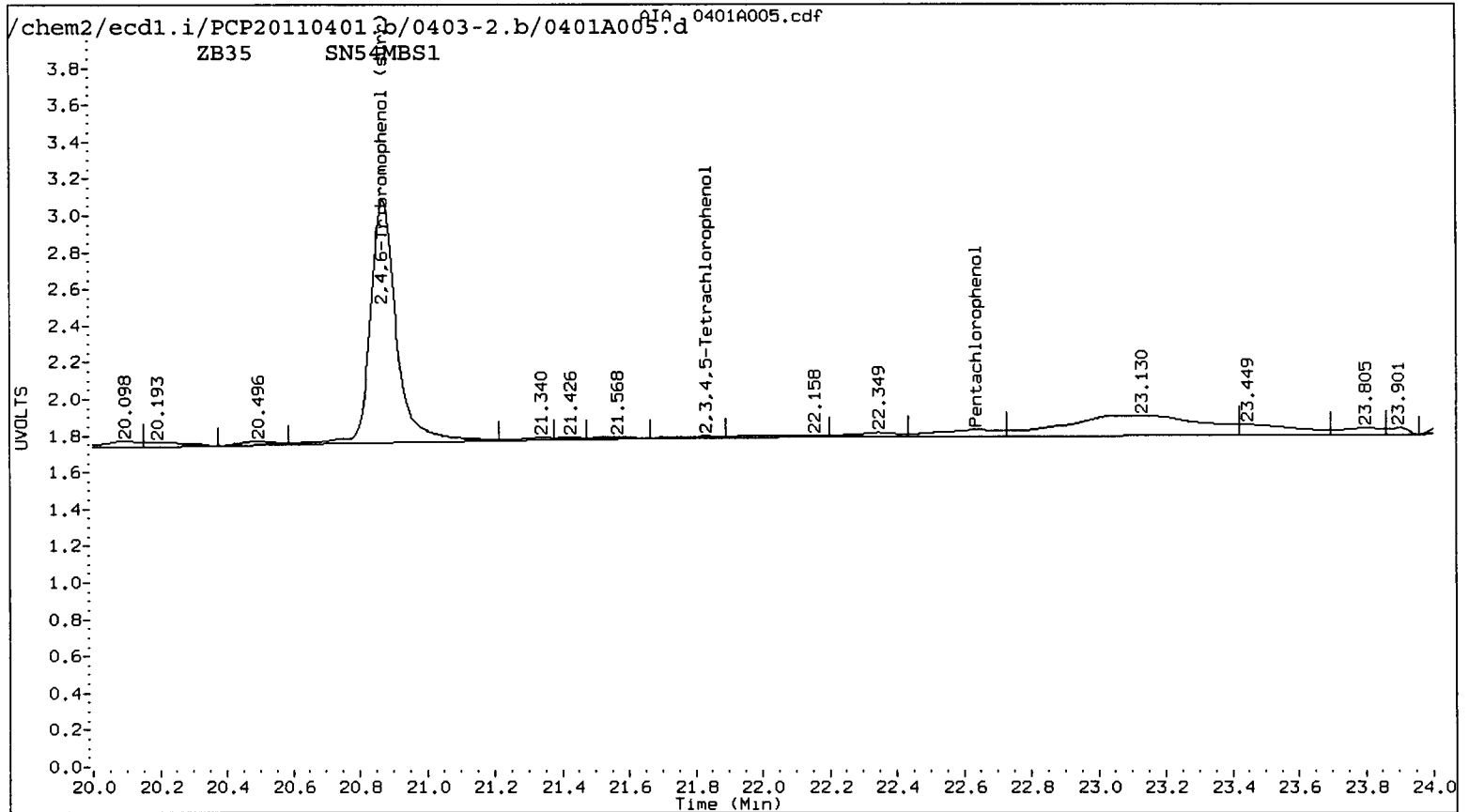
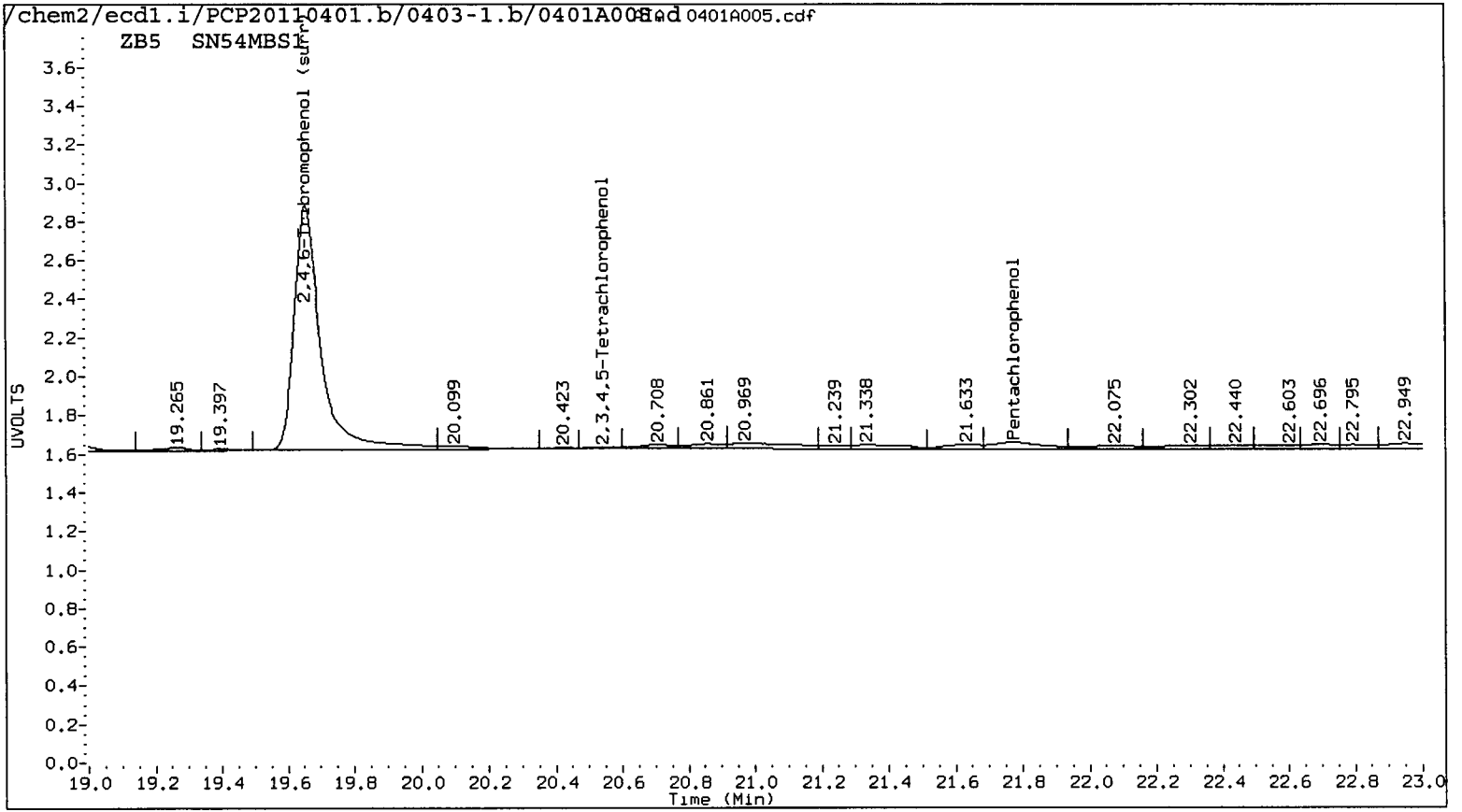
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A005.d ARI ID: SN54MBS1  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A005.d Client ID: SN54MBS1  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 06-APR-2011 17:37  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

*v2 4/7/11*

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.772	-0.021	17719	22.637	0.006	24333	0.6903	0.8889	25.2	Pentachlorophenol
13.440	0.031	43299	13.788	0.010	17938	3.2359	1.1072	98.0*	2,4,6-Trichlorophenol
14.382	0.006	4351	15.152	-0.031	11970	0.2977	0.8008	91.6*	2,3,6-Trichlorophenol
----			17.169	0.018	2115	0.0000	0.2631	---	2,4,5-Trichlorophenol
17.285	-0.061	37402	18.781	0.056	1361	2.8520	0.1371	181.7*	2,3,4-Trichlorophenol
17.684	-0.036	27569	18.446	0.036	8034	1.1886	0.3480	109.4*	2,3,5,6-Tetrachlorophenol
20.543	-0.002	2515	21.832	0.013	3597	0.1537	0.2222	36.4	2,3,4,5-Tetrachlorophenol
----			13.445	0.016	20714	0.0000	24.8725	---	2,4-Dichlorophenol
19.655	0.003	357425	20.870	0.000	361403	16.6	16.9	2.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	66.5	67.8



SN54 : 00512

Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A005.d

Date : 06-APR-2011 17:37

Client ID: SN54HBS1

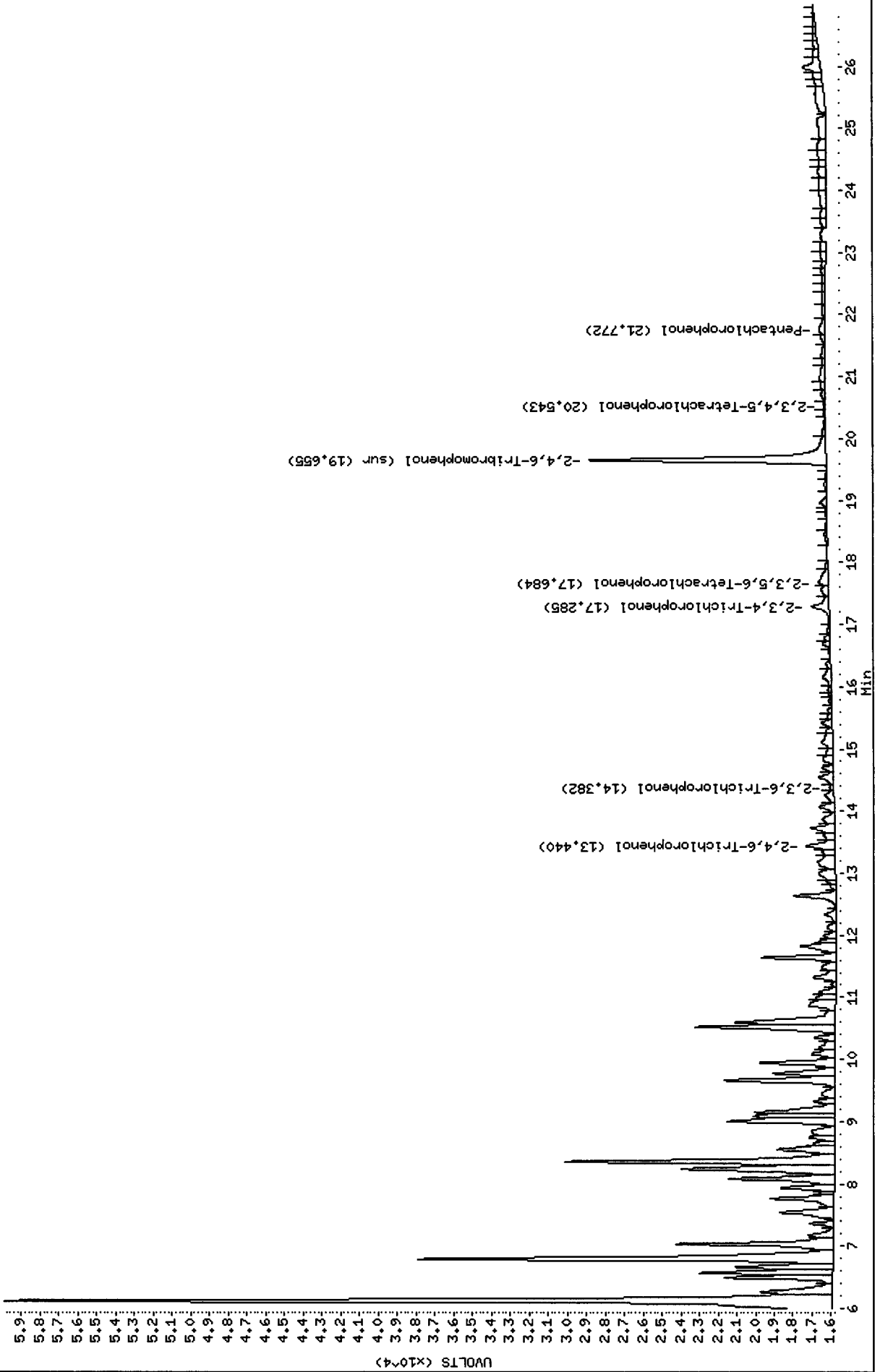
Sample Info: SN54HBS1

Instrument: ecdl.i

Operator: ar  
Column diameter: 0.53

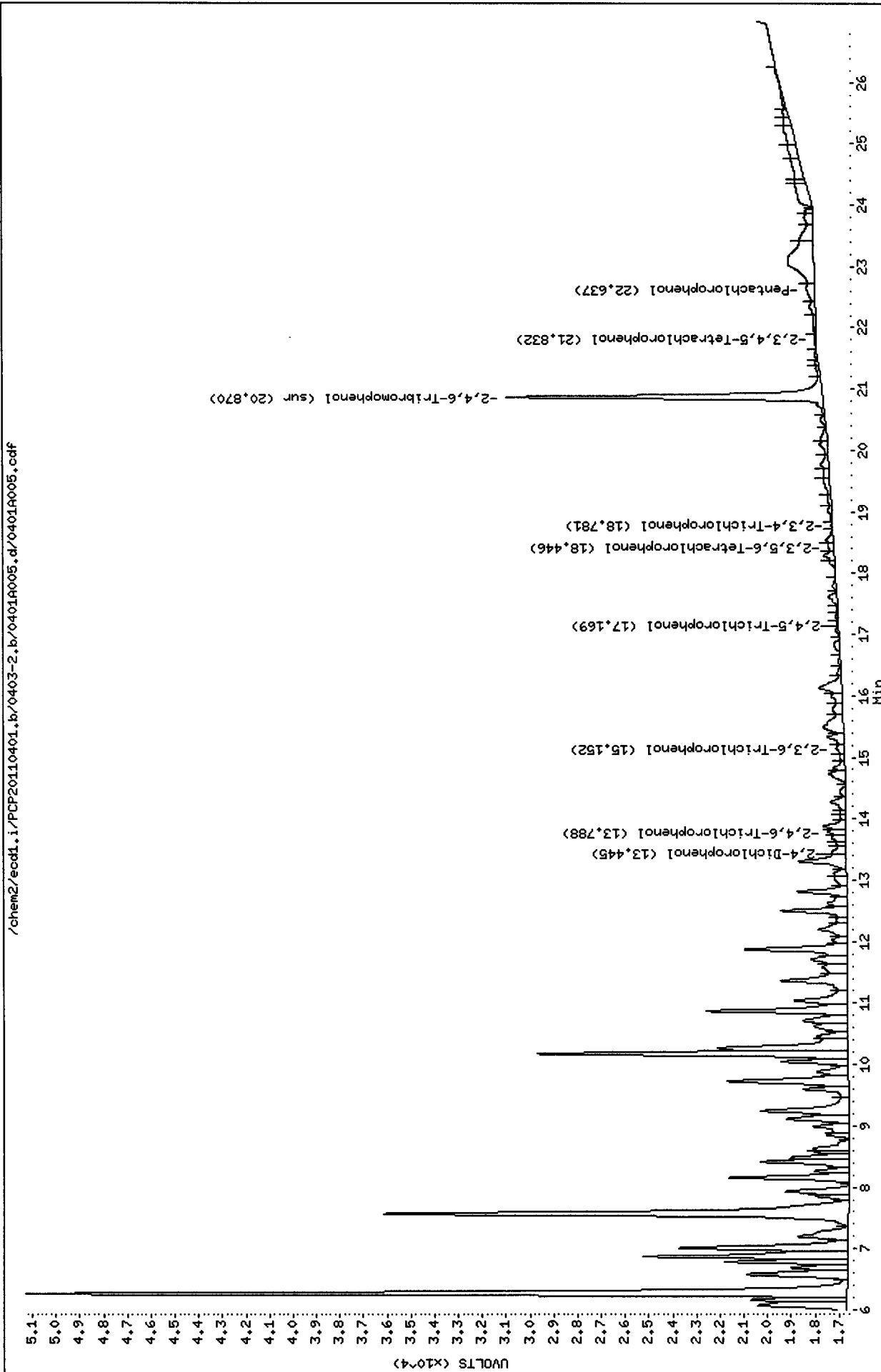
Column phase: ZB5

/chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A005.d/0401A005.cdf



Data File: /chem2/ecd1.i/PCP20110401.b/0403-2.b/0401A005.d  
Date : 06-APR-2011 17:37  
Client ID:  
Sample Info: SN54HBS1  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecd1.i  
Operator: ar  
Column diameter: 0.53



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A006.d ARI ID: SN54LCSS1  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A006.d Client ID: SN54LCSS1  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 06-APR-2011 18:13  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

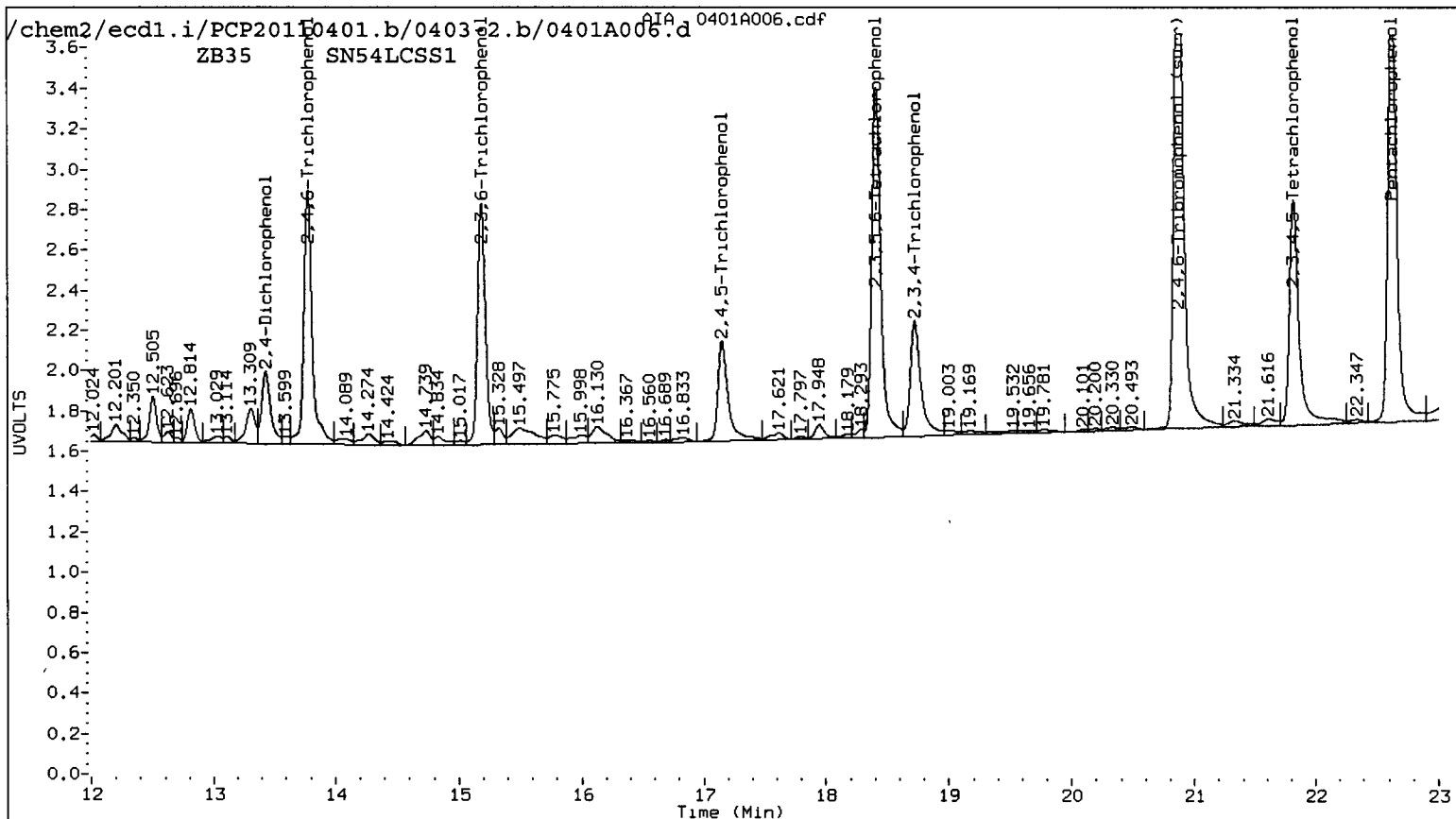
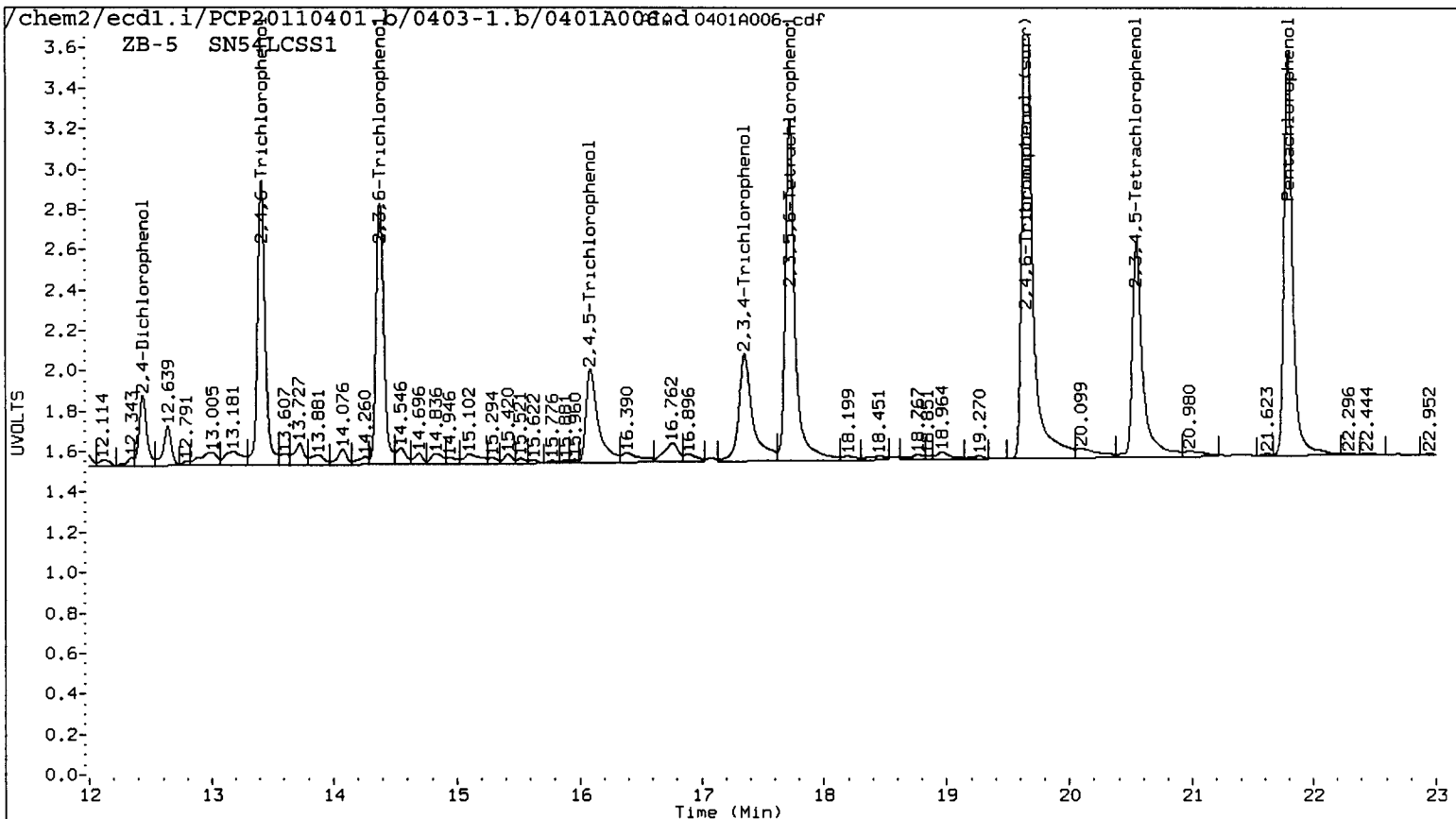
*Y2 4/7/11*

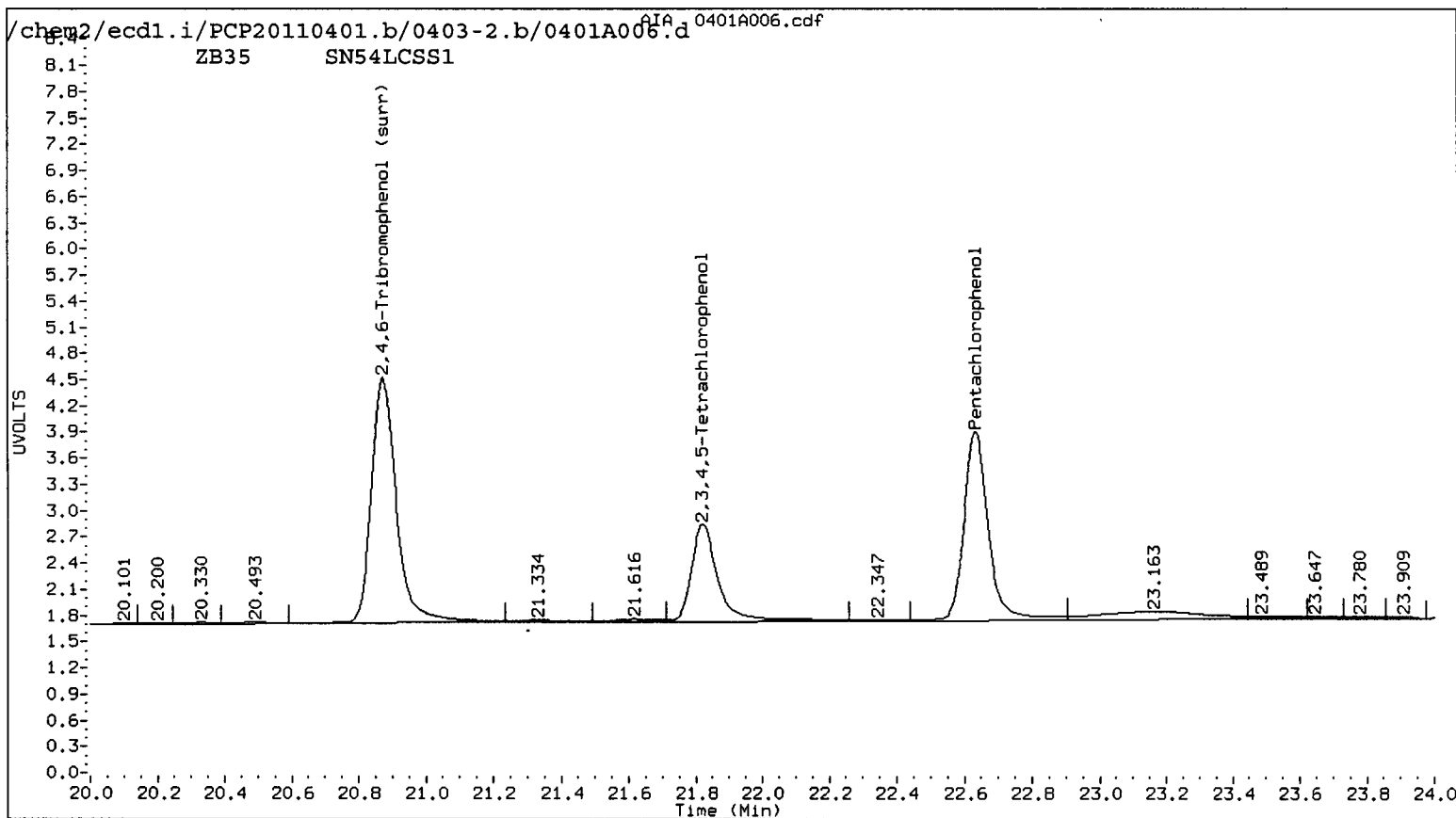
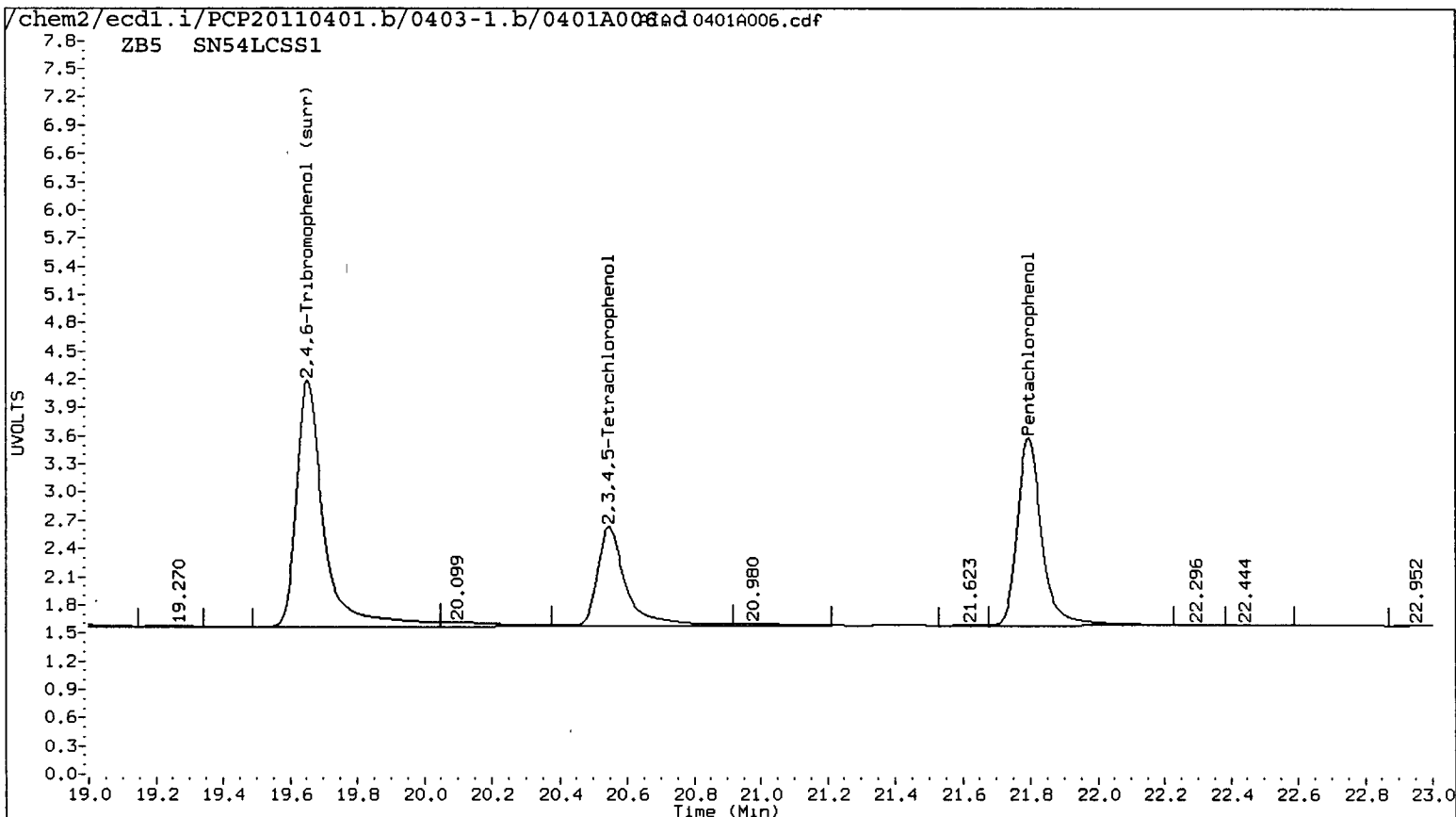
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.796	0.003	509488	22.633	0.001	549753	19.8493	20.0838	1.2	Pentachlorophenol
13.412	0.003	314110	13.779	0.002	305532	23.4746	18.8588	21.8	2,4,6-Trichlorophenol
14.379	0.003	273859	15.186	0.002	269956	18.7389	18.0602	3.7	2,3,6-Trichlorophenol
16.087	0.003	164302	17.154	0.004	149173	21.3070	18.5592	13.8	2,4,5-Trichlorophenol
17.352	0.006	210960	18.728	0.003	173904	18.4326	17.5195	5.1	2,3,4-Trichlorophenol
17.722	0.002	460115	18.412	0.002	433007	19.8376	18.7570	5.6	2,3,5,6-Tetrachlorophenol
20.547	0.002	321909	21.821	0.002	320806	19.6758	19.8193	0.7	2,3,4,5-Tetrachlorophenol
12.434	0.002	76651	13.433	0.004	95574	91.4826	114.7611	22.6	2,4-Dichlorophenol
19.654	0.002	743728	20.872	0.002	739758	34.6	34.7	0.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	79.4	80.3
2,4,6-Trichlorophenol	93.9	75.4
2,3,6-Trichlorophenol	75.0	72.2
2,4,5-Trichlorophenol	85.2	74.2
2,3,4-Trichlorophenol	73.7	70.1
2,3,5,6-Tetrachlorophenol	79.4	75.0
2,3,4,5-Tetrachlorophenol	78.7	79.3
2,4-Dichlorophenol	36.6	45.9
2,4,6-TBP (surr)	69.1	69.4







SN54: 00517

Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A006.d

Date : 06-APR-2011 18:13

Client ID: SN54LCSS1

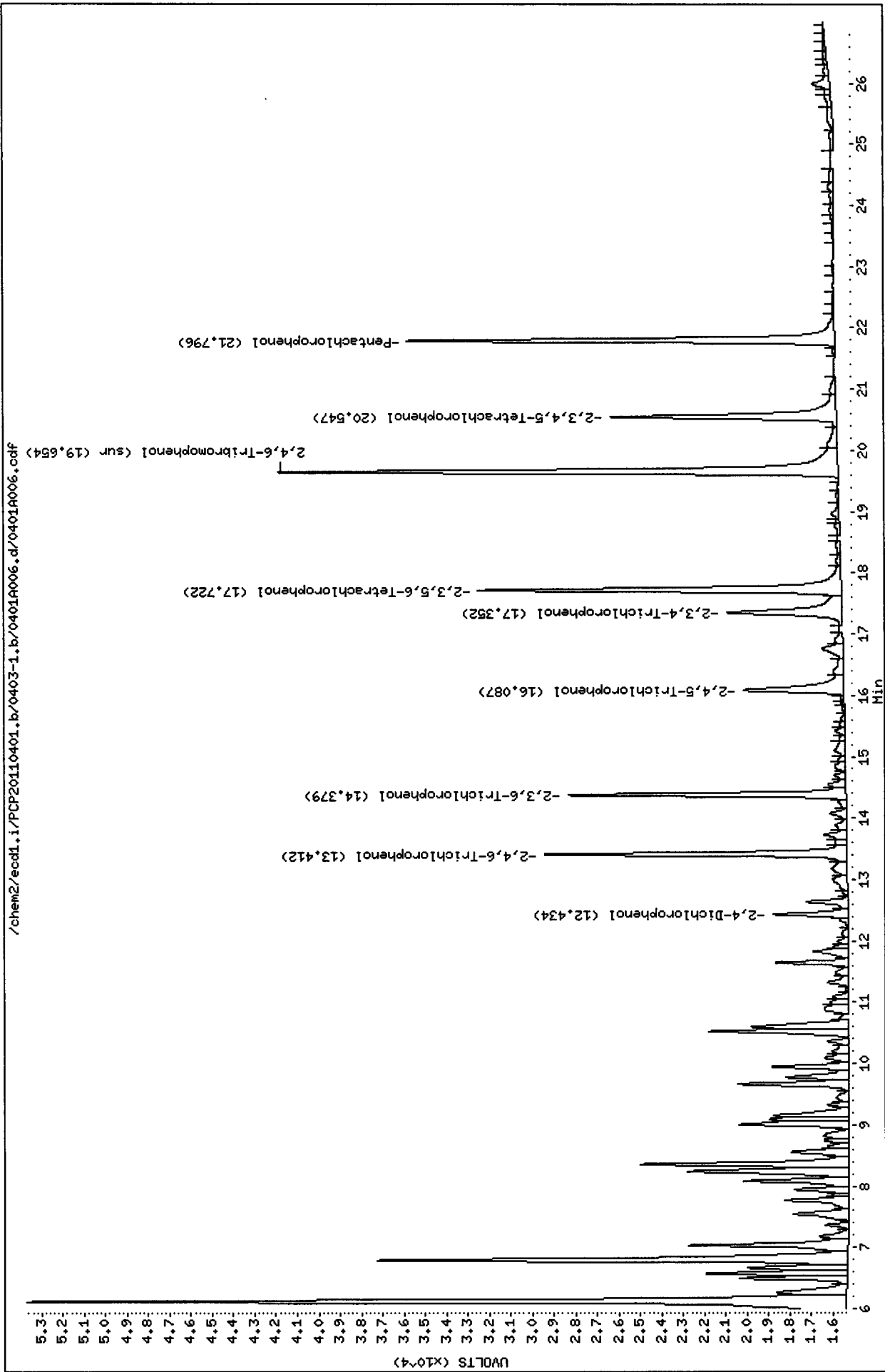
Sample Info: SN54LCSS1

Instrument: ecdl.i

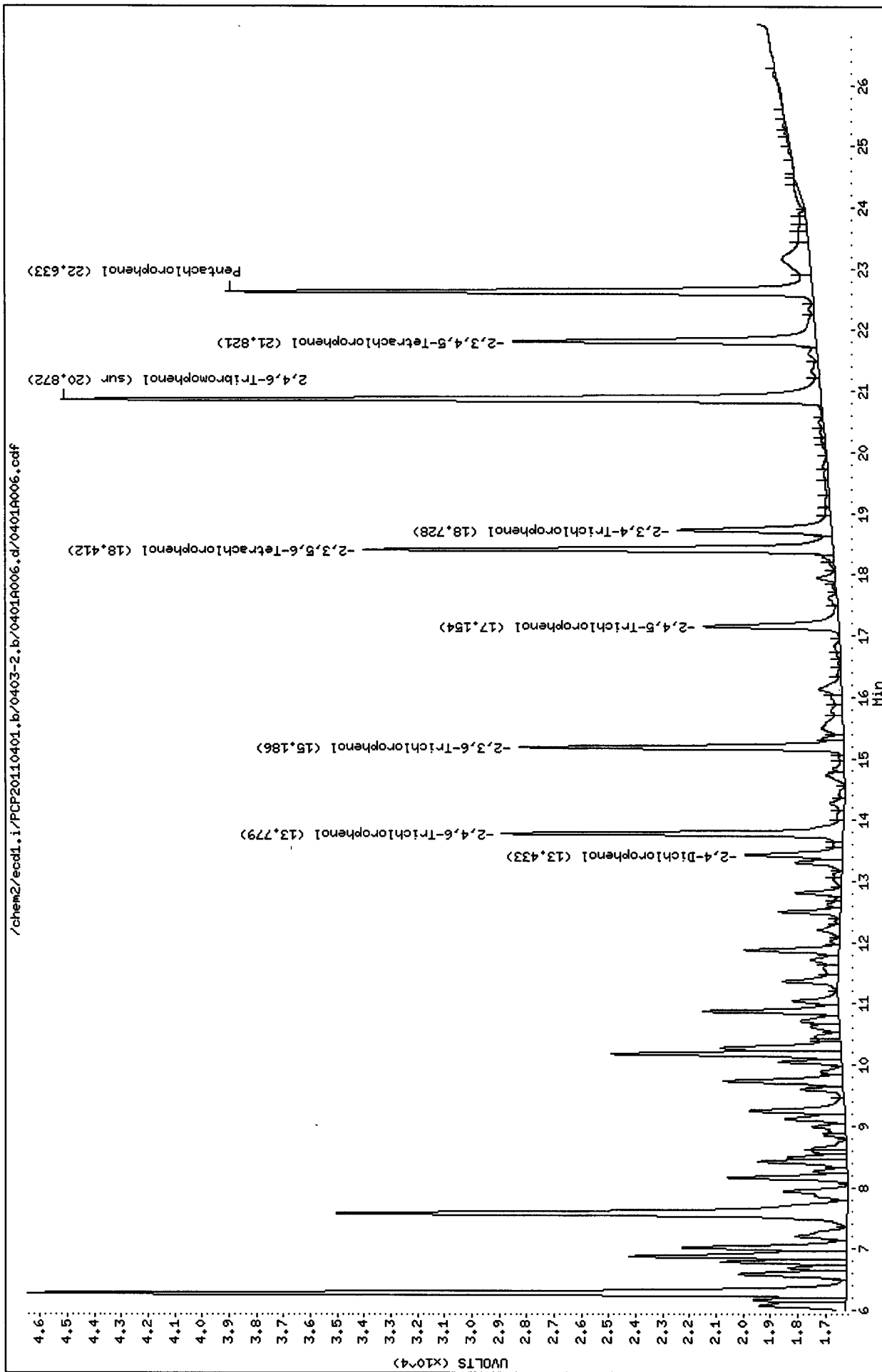
Operator: ar

Column diameter: 0.53

Column phase: ZB5



Data File: /chem2/eod1.i/PCP20110401.b/0403-2.b/0401A006.d  
Date : 06-APR-2011 18:13  
Client ID:  
Sample Info: SN54LCSS1  
Purge Volume: 500.0  
Column phase: ZB35  
Instrument: eod1.i  
Operator: ar  
Column diameter: 0.53



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

*Y2 4/7/11*

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A016.d ARI ID: PCP CCAL  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A016.d Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 00:15  
 Compound Sublist: all Report Date: 04/07/2011 14:42  
 Instrument: ecdl.i Matrix: NONE  
 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		
21.805	0.012	561254	22.641	0.009	646635	21.8661	23.6232	7.7	Pentachlorophenol
13.422	0.013	365189	13.788	0.010	367246	27.2920	22.6681	18.5	2,4,6-Trichlorophenol
14.389	0.013	329914	15.195	0.011	335769	22.5745	22.4631	0.5	2,3,6-Trichlorophenol
16.095	0.011	183868	17.161	0.011	184514	23.8445	22.9561	3.8	2,4,5-Trichlorophenol
17.358	0.012	241839	18.735	0.010	234823	21.6093	23.6566	9.0	2,3,4-Trichlorophenol
17.733	0.013	522089	18.422	0.011	525155	22.5096	22.7487	1.1	2,3,5,6-Tetrachlorophenol
20.557	0.012	380737	21.829	0.010	376285	23.2715	23.2468	0.1	2,3,4,5-Tetrachlorophenol
12.443	0.011	181155	13.440	0.011	188728	234.0046	226.6165	3.2	2,4-Dichlorophenol
19.664	0.012	500360	20.881	0.011	491085	23.3	23.0	1.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	87.5	94.5
2,4,6-Trichlorophenol	109.2	90.7
2,3,6-Trichlorophenol	90.3	89.9
2,4,5-Trichlorophenol	95.4	91.8
2,3,4-Trichlorophenol	86.4	94.6
2,3,5,6-Tetrachlorophenol	90.0	91.0
2,3,4,5-Tetrachlorophenol	93.1	93.0
2,4-Dichlorophenol	93.6	90.6
2,4,6-TBP (surr)	93.0	92.1

Data File: /chem2/eecd1.i/PCP20110401.b/0403-1.b/0401a016.d

Date : 07-APR-2011 00:15

Client ID:

Sample Info: PCP CCAI

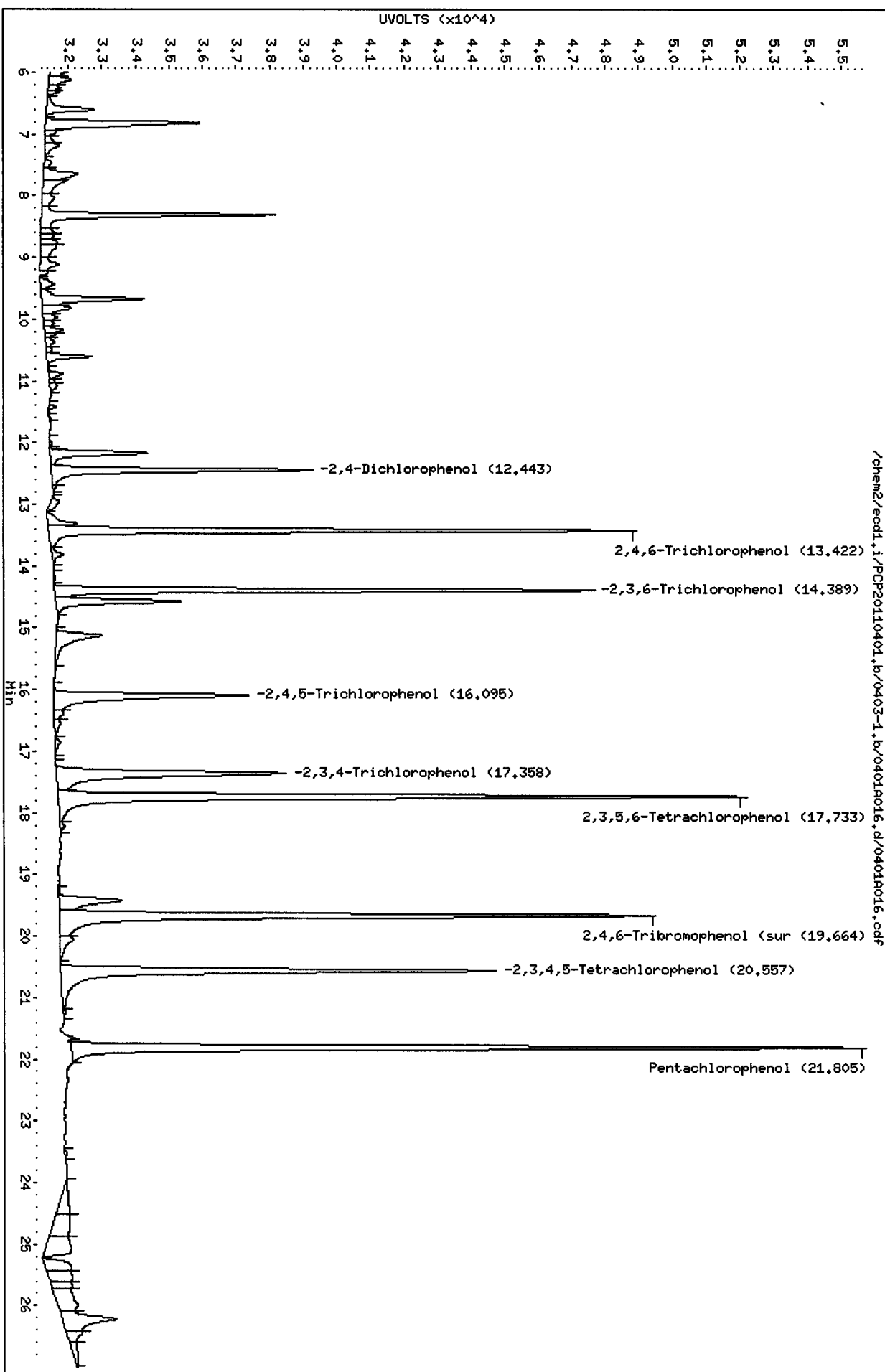
Column phase: ZB5

Instrument: eecd1.i

Operator: ar

Column diameter: 0.53

Page 1



Data File: /chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A016.d

Date: 07-APR-2011 00:15

Client ID:

Sample Info: PCP C09L

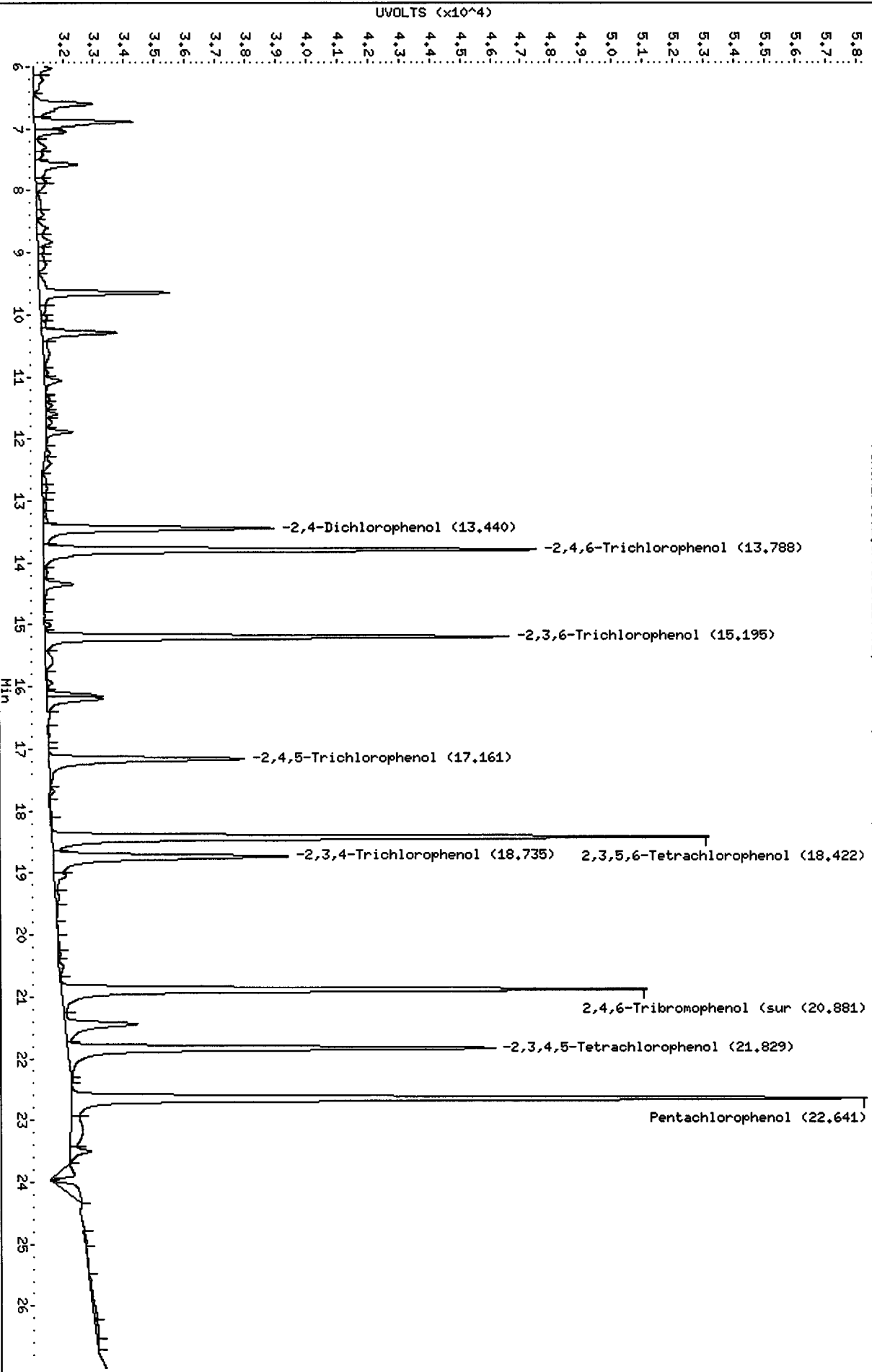
Column phase: ZB35

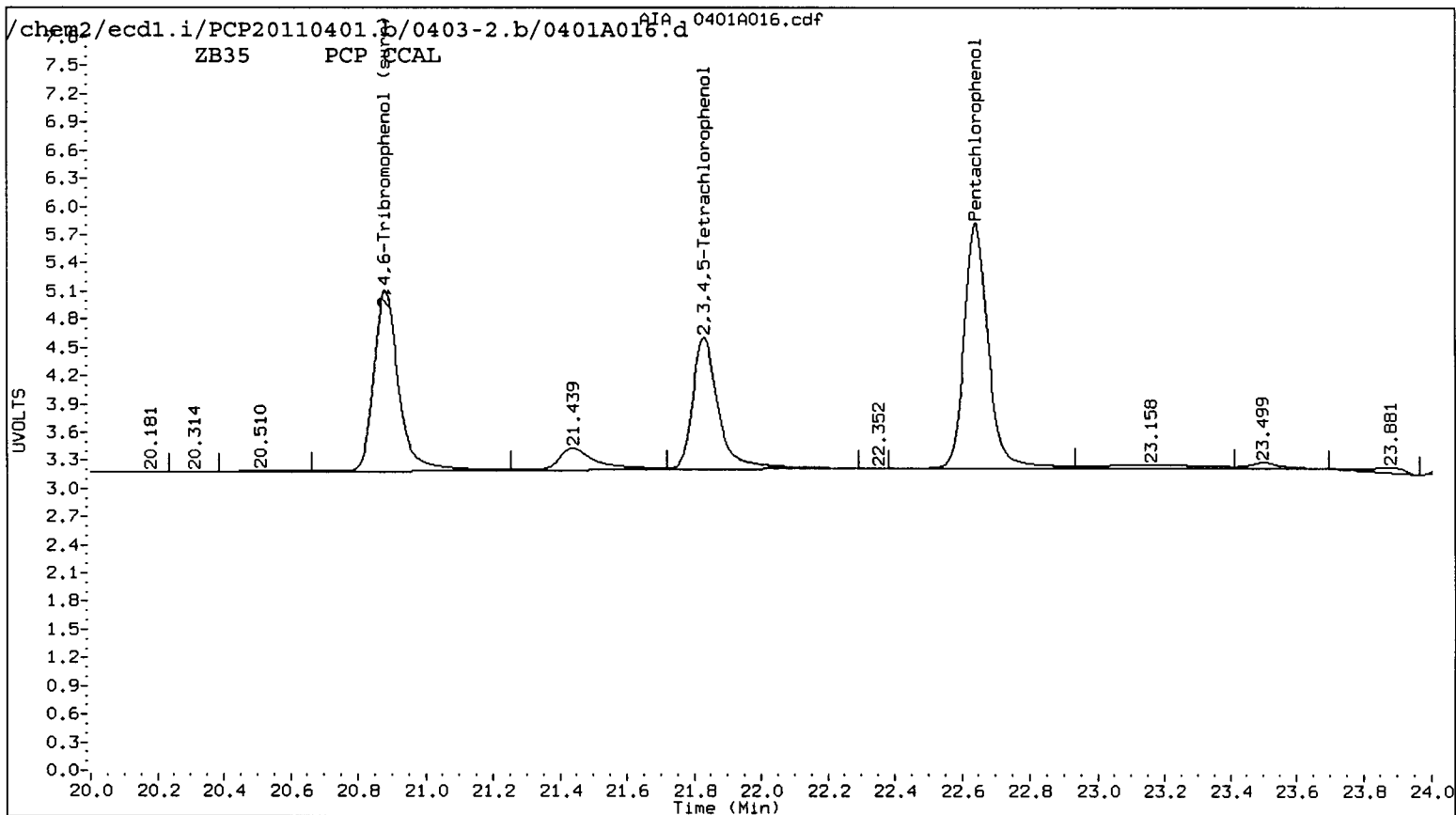
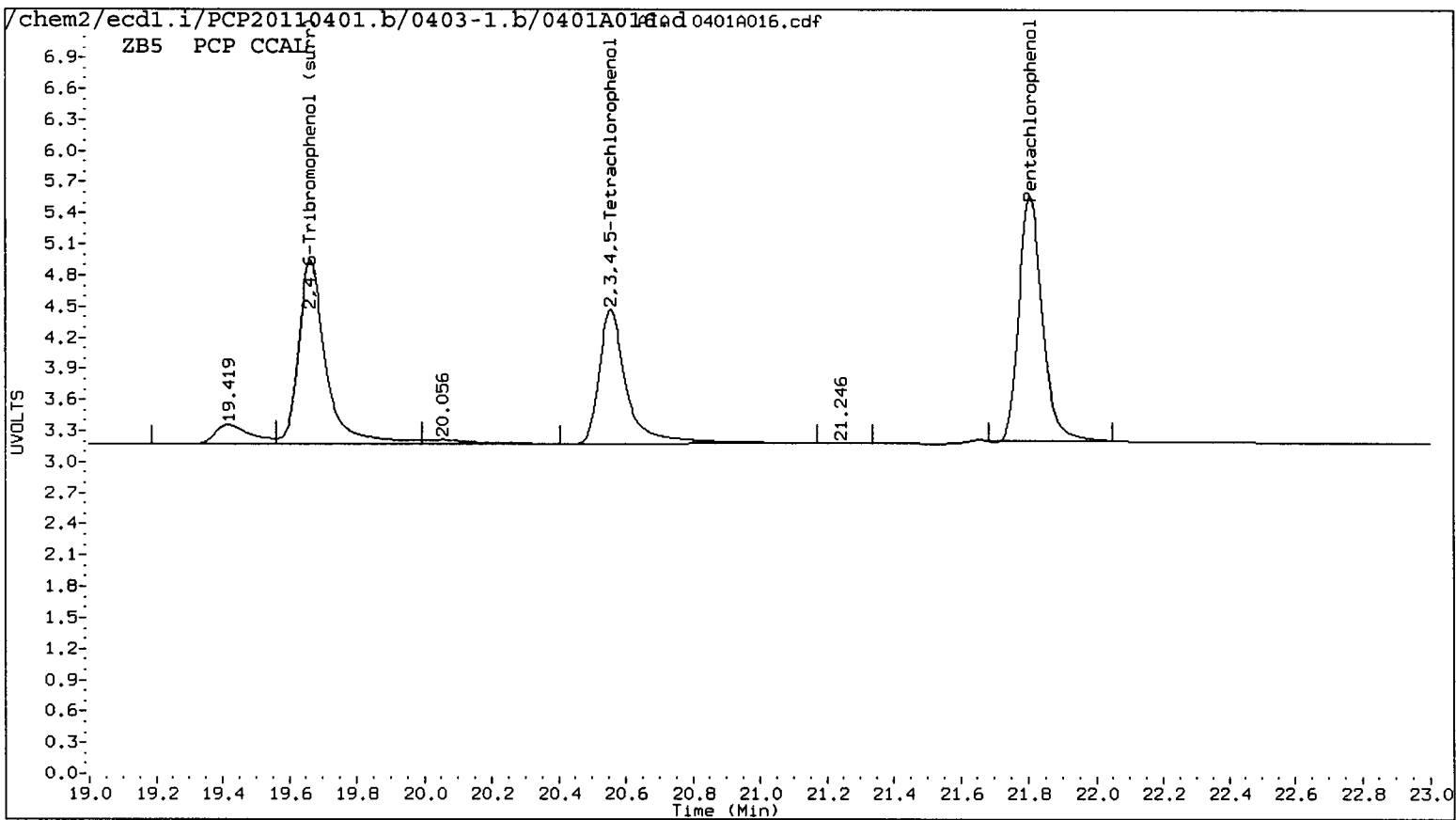
Instrument: eecd1.i

Operator: ar

Column diameter: 0.53

/chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A016.d/0401A016.cdf







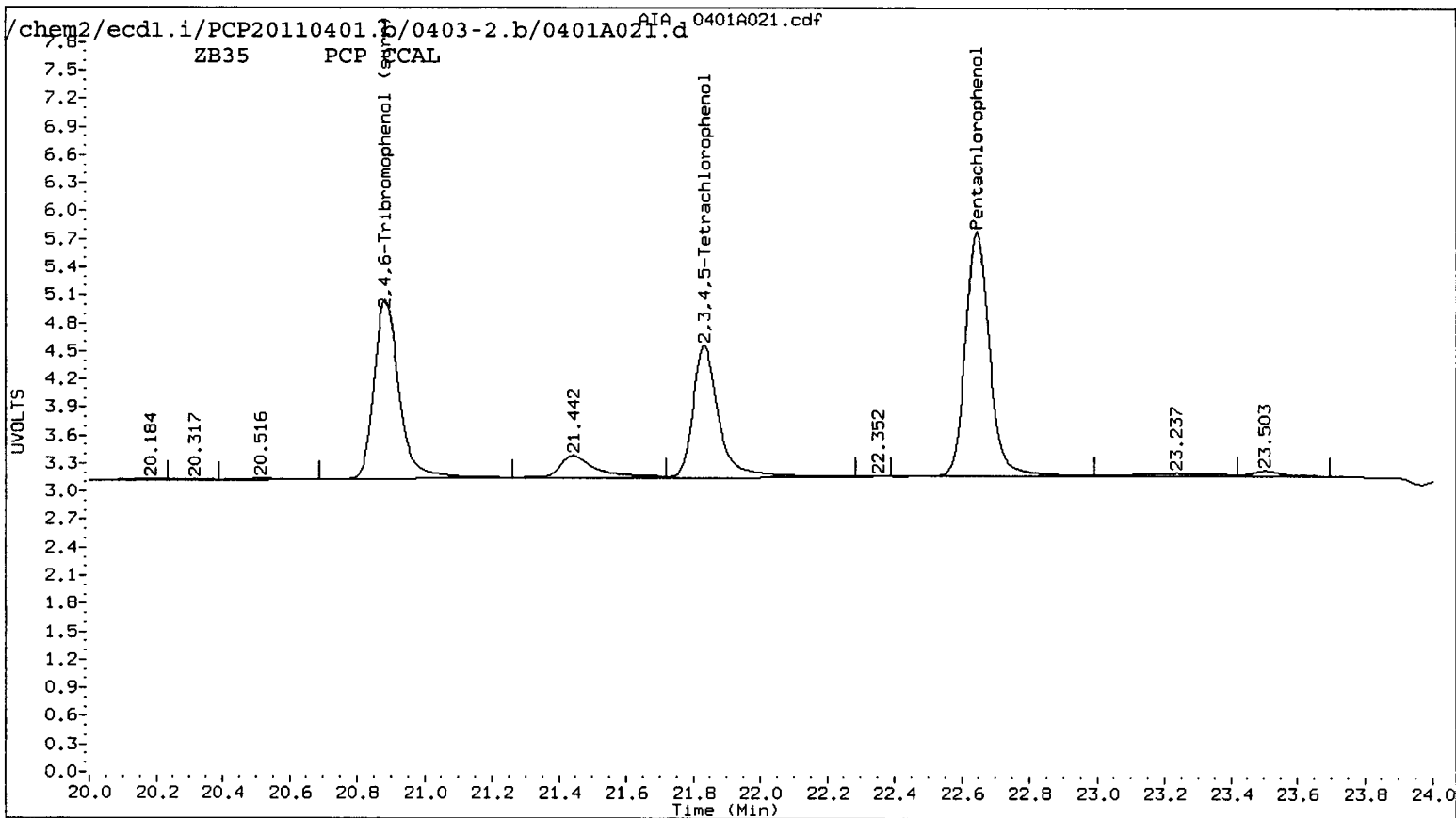
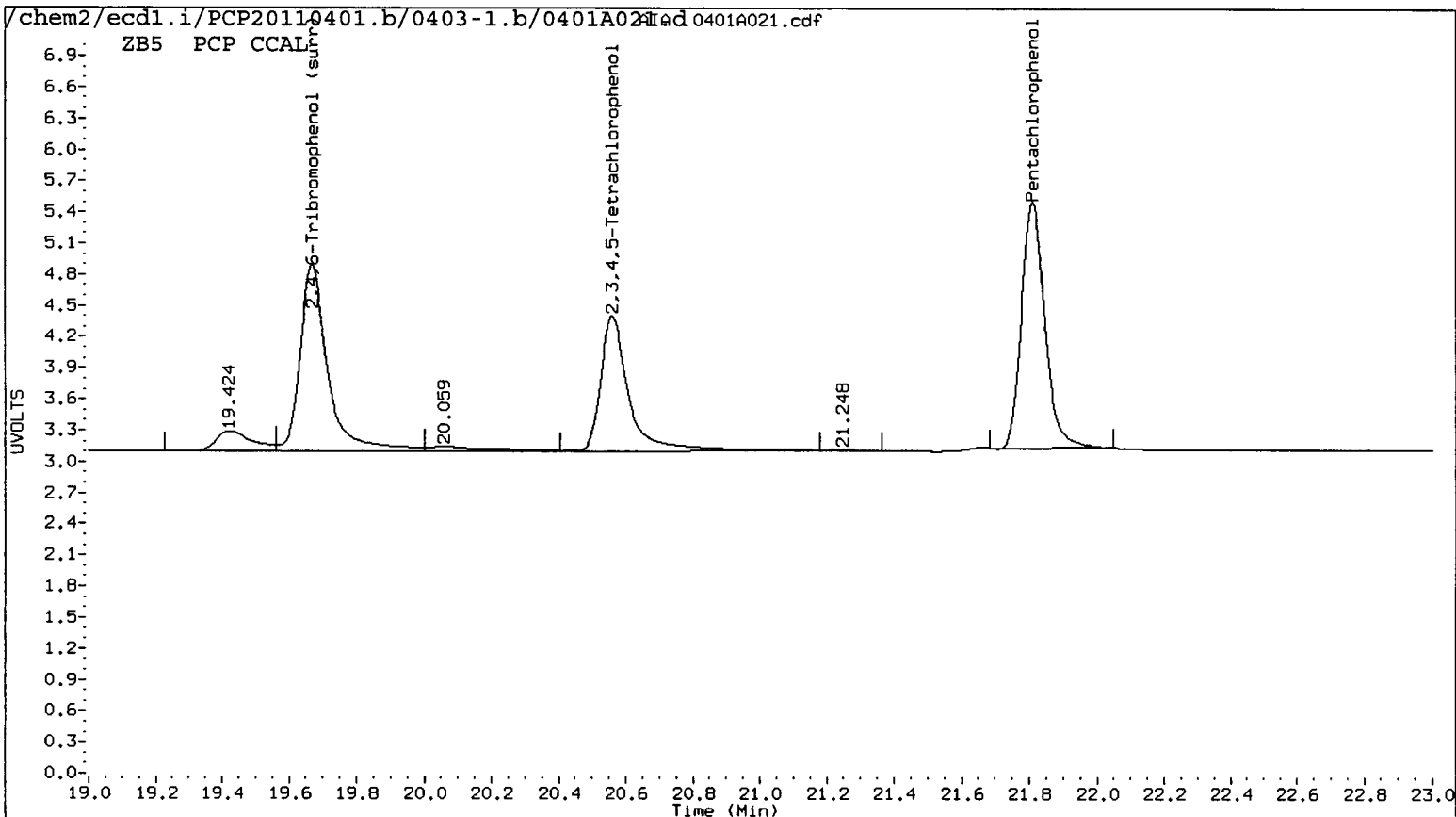
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A021.d    ARI ID: PCP CCAL    *YZ 4/7/11*  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A021.d    Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m    Injection Date: 07-APR-2011 03:15  
 Compound Sublist: all    Report Date: 04/07/2011 14:42  
 Instrument: ecdl.i    Matrix: NONE  
 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		
21.810	0.017	564708	22.645	0.014	653696	22.0007	23.8811	8.2	Pentachlorophenol
13.424	0.015	367051	13.790	0.012	372030	27.4312	22.9634	17.7	2,4,6-Trichlorophenol
14.392	0.016	333301	15.197	0.014	338231	22.8063	22.6278	0.8	2,3,6-Trichlorophenol
16.099	0.015	190412	17.166	0.015	186653	24.6930	23.2222	6.1	2,4,5-Trichlorophenol
17.362	0.016	244066	18.739	0.014	229913	21.8431	23.1620	5.9	2,3,4-Trichlorophenol
17.736	0.016	539446	18.424	0.014	514034	23.2579	22.2669	4.4	2,3,5,6-Tetrachlorophenol
20.560	0.015	377744	21.833	0.014	379005	23.0886	23.4149	1.4	2,3,4,5-Tetrachlorophenol
12.445	0.013	195804	13.442	0.012	190416	255.6230	228.6433	11.1	2,4-Dichlorophenol
19.669	0.017	504561	20.884	0.014	497734	23.5	23.3	0.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	88.0	95.5
2,4,6-Trichlorophenol	109.7	91.9
2,3,6-Trichlorophenol	91.2	90.5
2,4,5-Trichlorophenol	98.8	92.9
2,3,4-Trichlorophenol	87.4	92.6
2,3,5,6-Tetrachlorophenol	93.0	89.1
2,3,4,5-Tetrachlorophenol	92.4	93.7
2,4-Dichlorophenol	102.2	91.5
2,4,6-TBP (surr)	93.8	93.3



Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A021.d

Date : 07-APR-2011 03:15

Client ID:

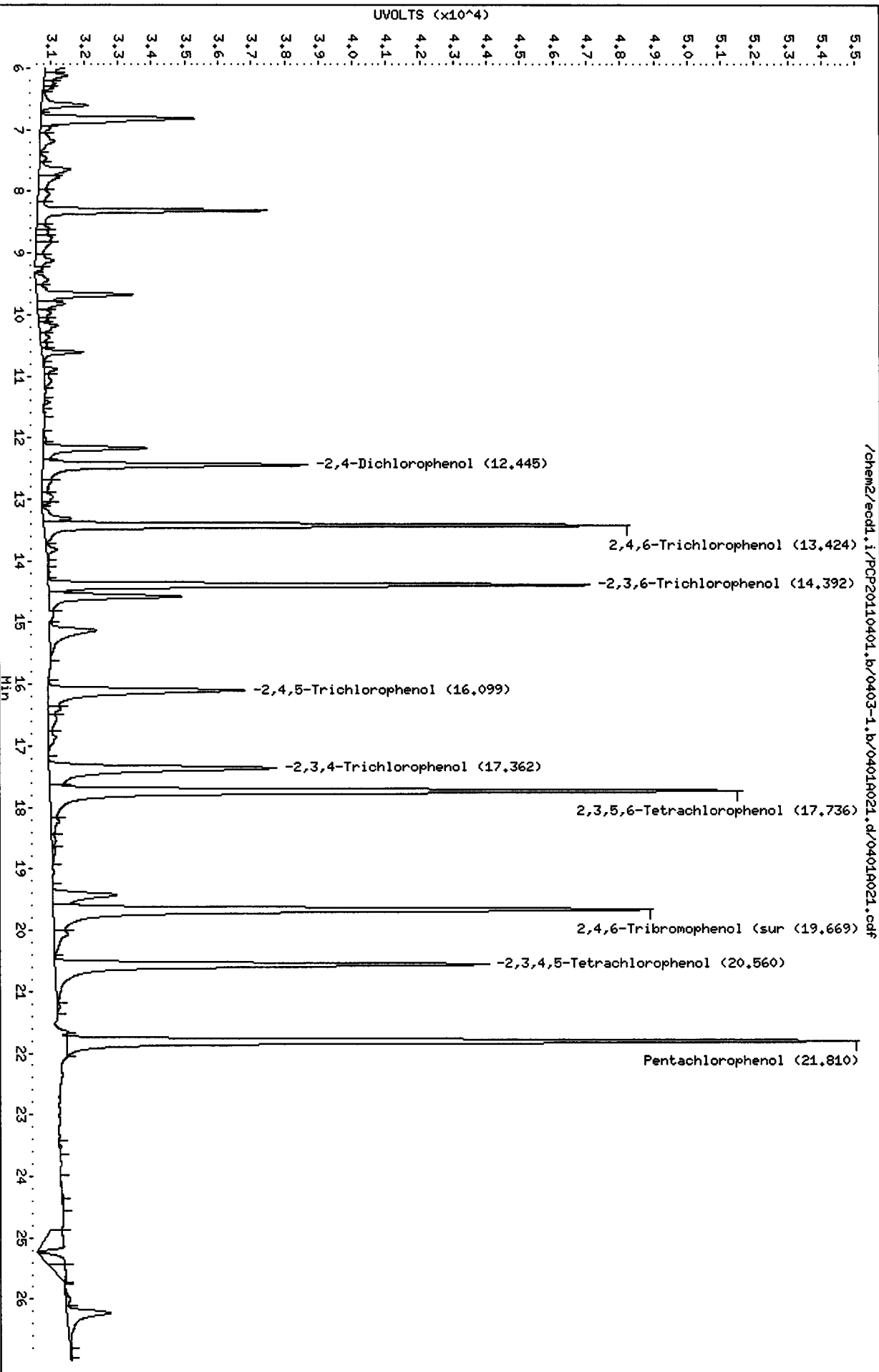
Sample Info: PCP CCAL

Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A021.d

Date : 07-APR-2011 03:15

Client ID:

Sample Info: PCP COAL

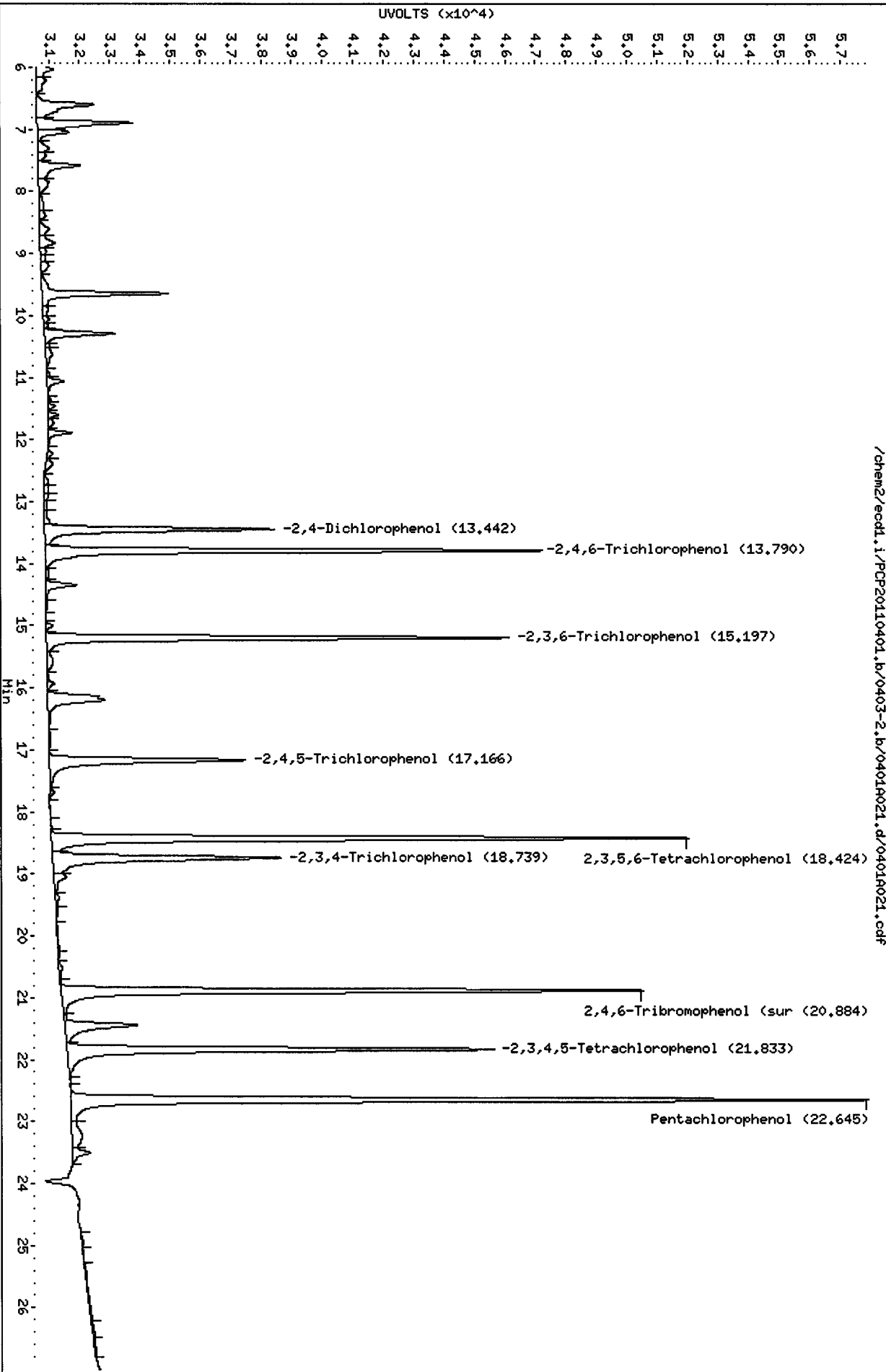
Column phase: ZB35

Instrument: eecd1.i

Operator: ar

Column diameter: 0.53

/chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A021.d/0401A021.cdf



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

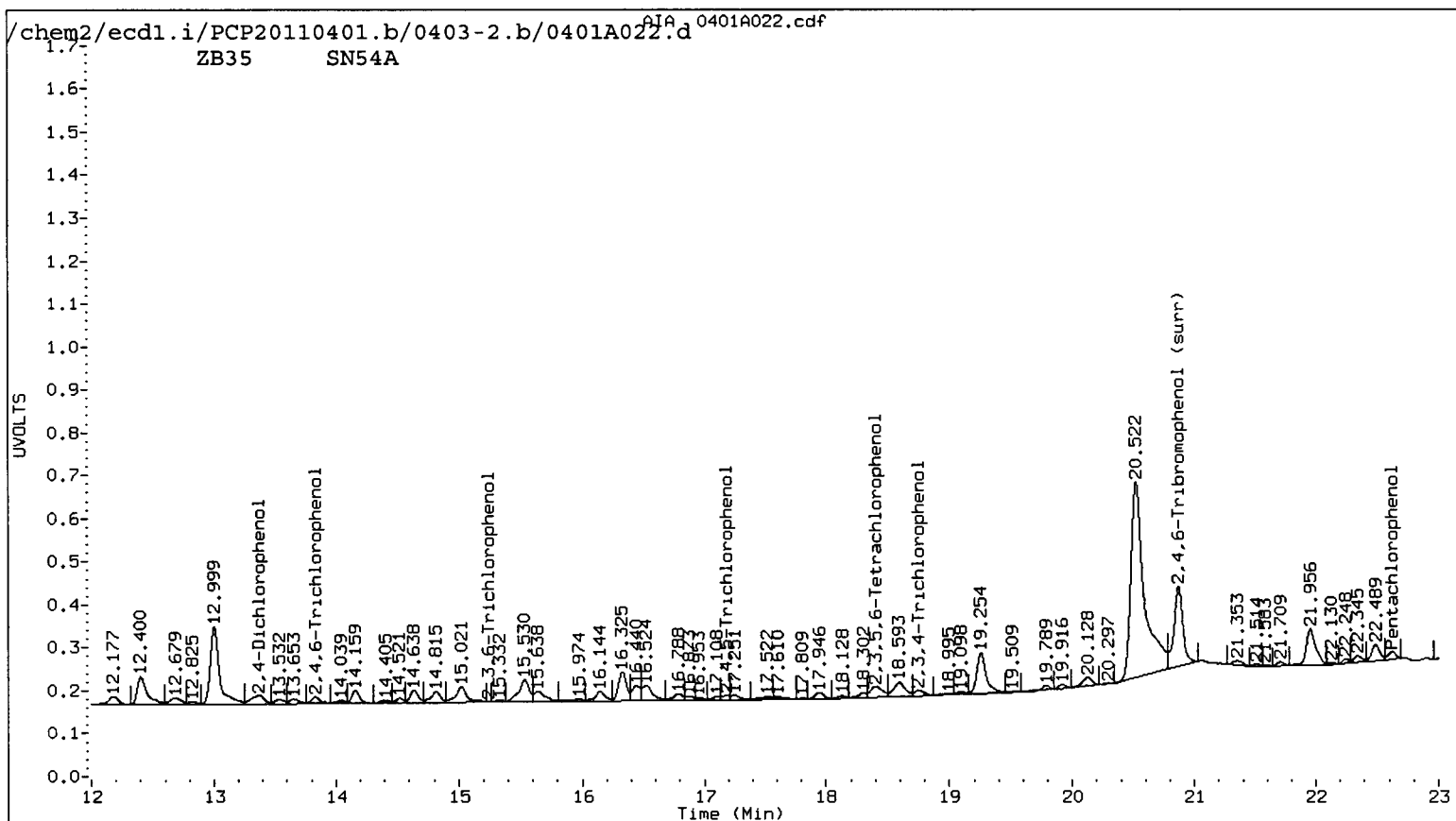
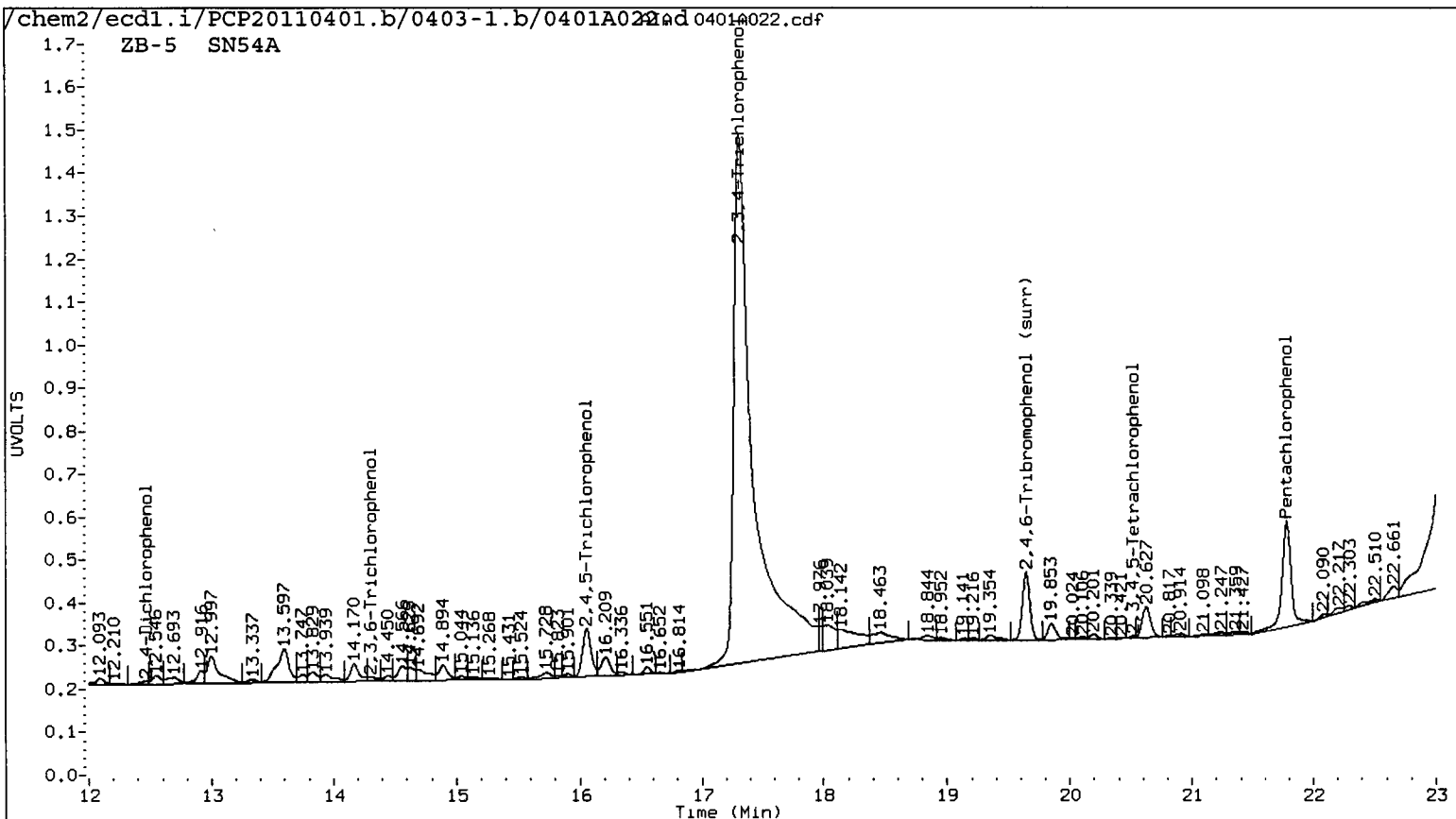
12/4/11

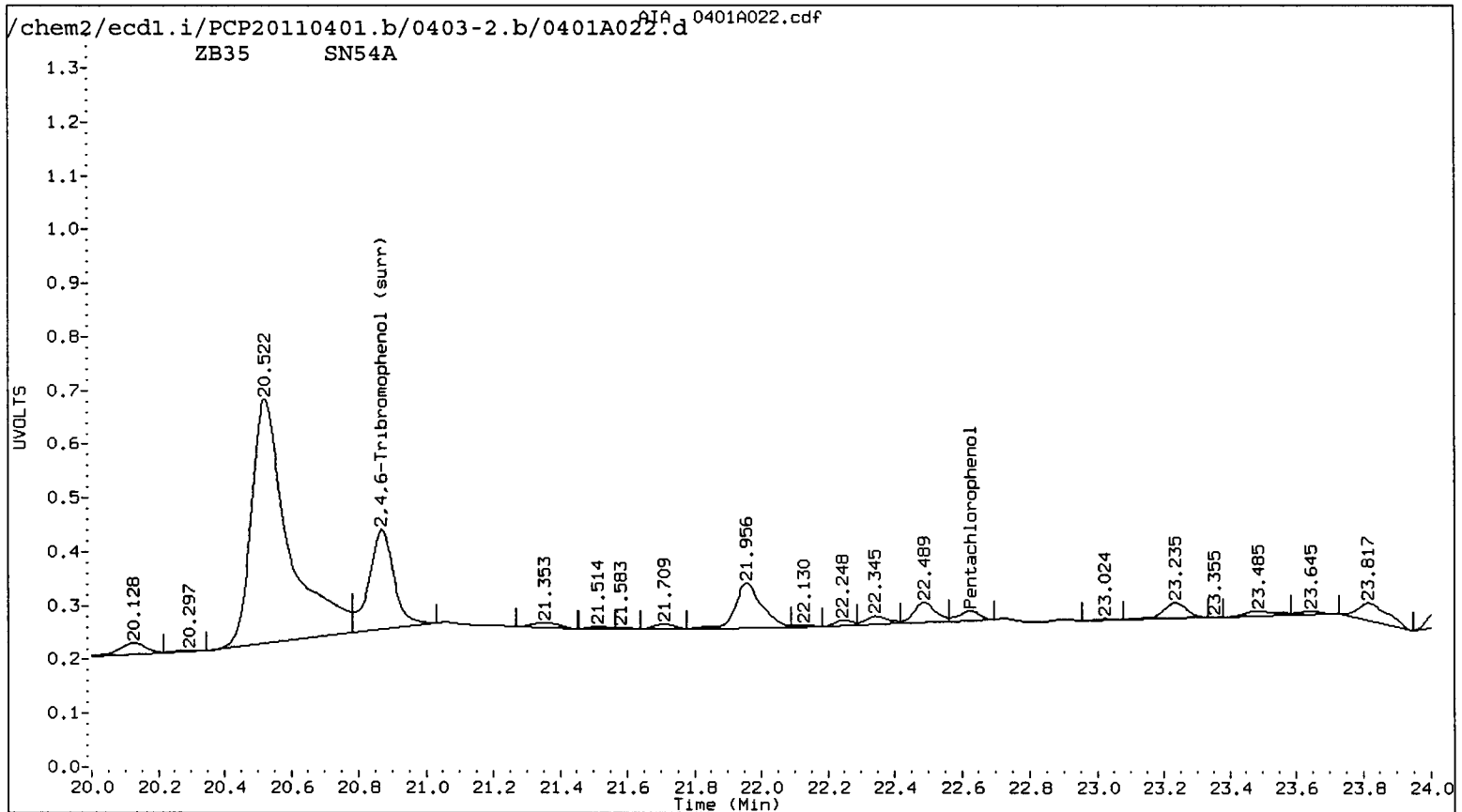
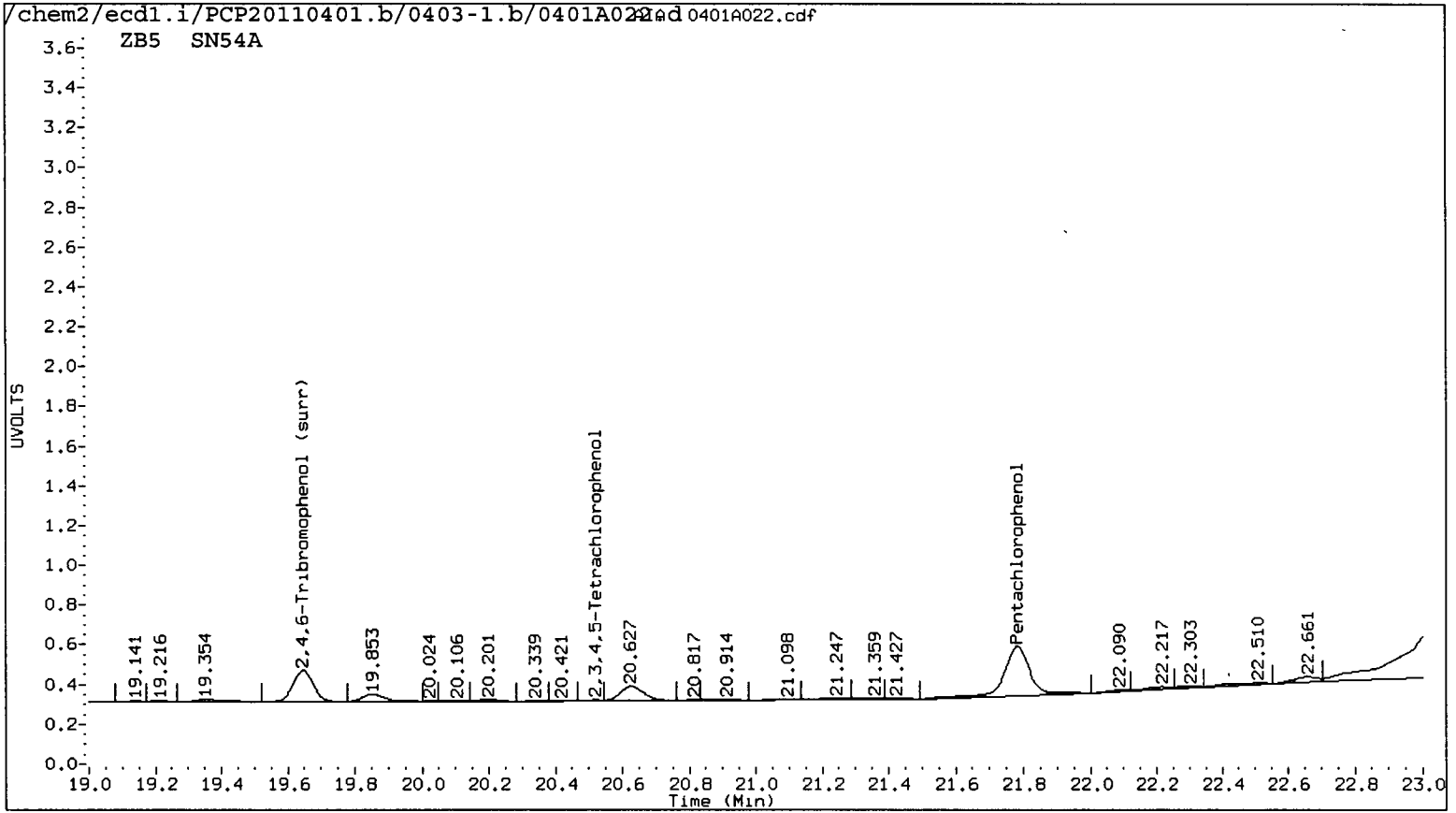
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A022.d ARI ID: SN54A  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A022.d Client ID: LL-SED3-0-36-031511  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 03:51  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 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		
21.783	-0.010	650977	22.626	-0.005	39719	<del>25.3616</del>	<del>1.4510</del>	178.4*	Pentachlorophenol
----			13.829	0.051	37848	0.0000	2.3362	---	2,4,6-Trichlorophenol
14.308	-0.068	22843	15.239	0.056	2482	1.5630	0.1660	161.6*	2,3,6-Trichlorophenol
16.057	-0.027	272596	17.185	0.035	22709	35.3508	2.8253	170.4*	2,4,5-Trichlorophenol
17.314	-0.032	6926106	18.754	0.029	33295	3585.5118	3.3542	199.6*	2,3,4-Trichlorophenol
----			18.401	-0.010	81913	0.0000	3.5483	---	2,3,5,6-Tetrachlorophenol
20.521	-0.024	8347	----			0.5102	0.0000	---	2,3,4,5-Tetrachlorophenol
12.471	0.039	20230	13.368	-0.061	71573	23.0715	85.9418	115.3*	2,4-Dichlorophenol
19.647	-0.005	333233	20.870	0.000	486084	15.5	22.8	38.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	62.0	91.2





SN54 : 00530

Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A022.d

Date : 07-APR-2011 03:51

Client ID: LL-SED3-0-36-031511

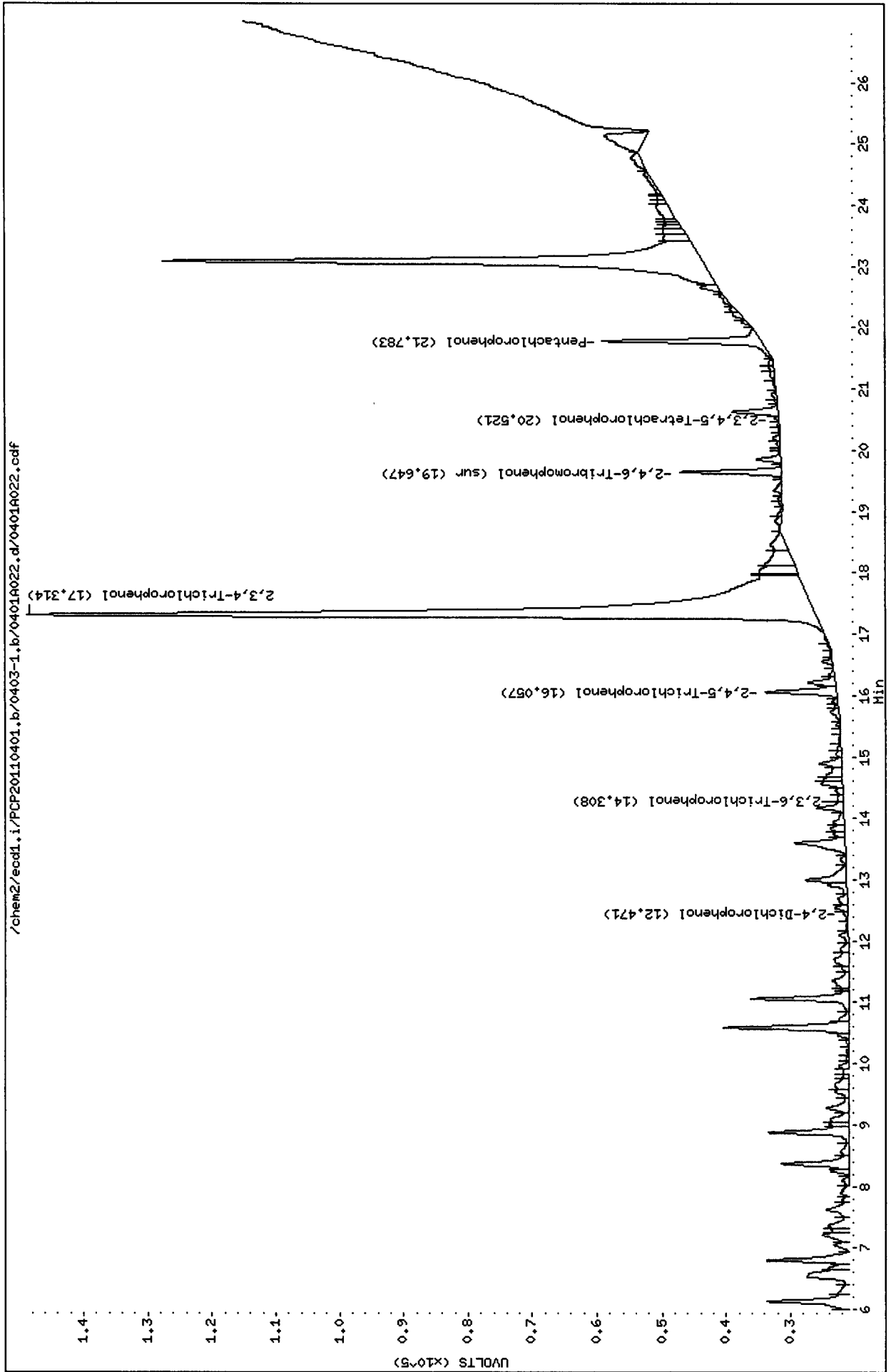
Sample Info: SN54A

Instrument: ecd1.i

Operator: ar

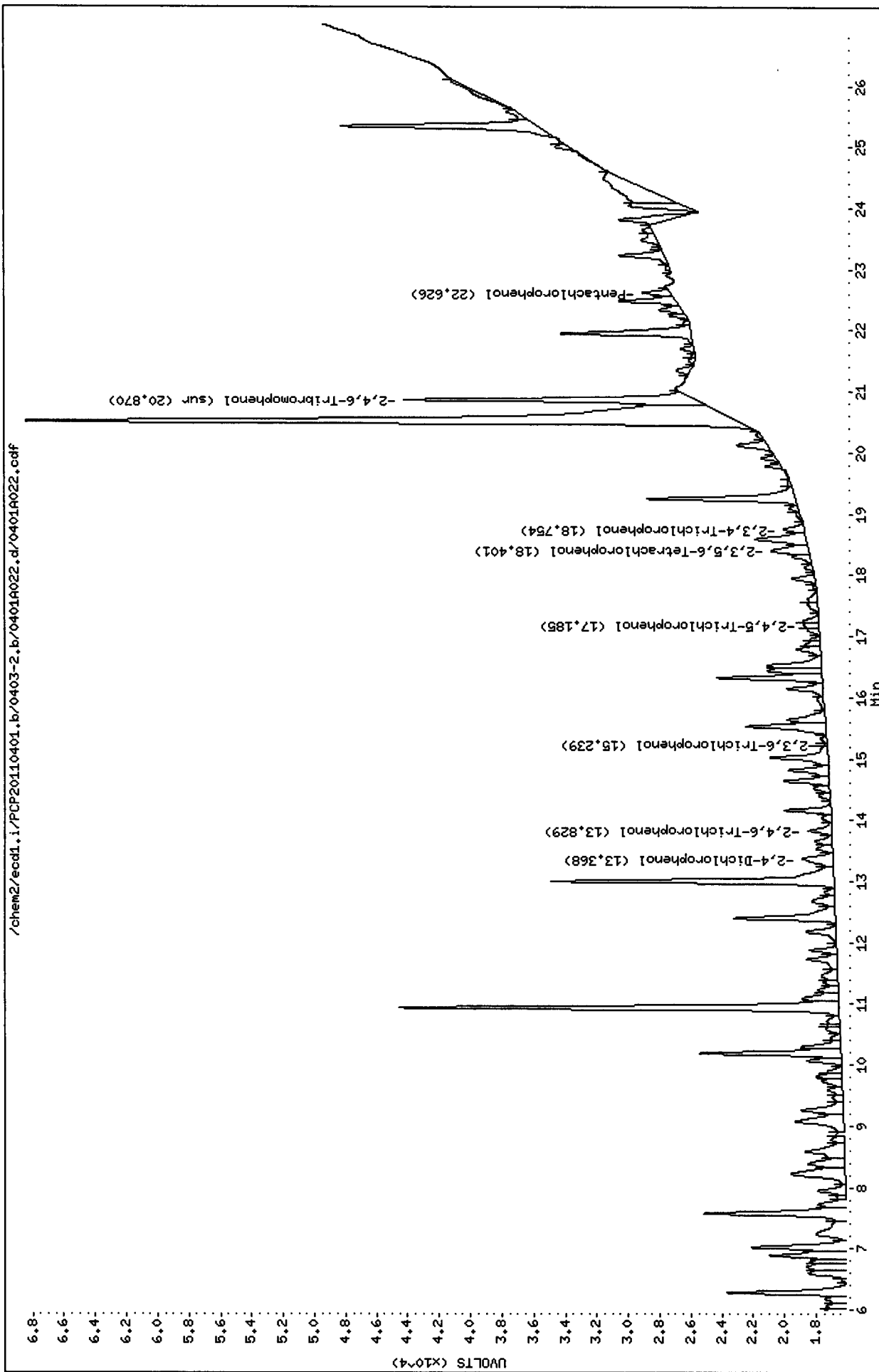
Column diameter: 0.53

Column phase: ZB5





Data File: /chem2/ecdl1.i/PCP20110401.b/0403-2.b/0401A022.d  
Date : 07-APR-2011 03:51  
Client ID:  
Instrument: ecdl1.i  
Sample Info: SN54A  
Operator: ar  
Purge Volume: 500.0  
Column diameter: 0.53  
Column phase: ZB35



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

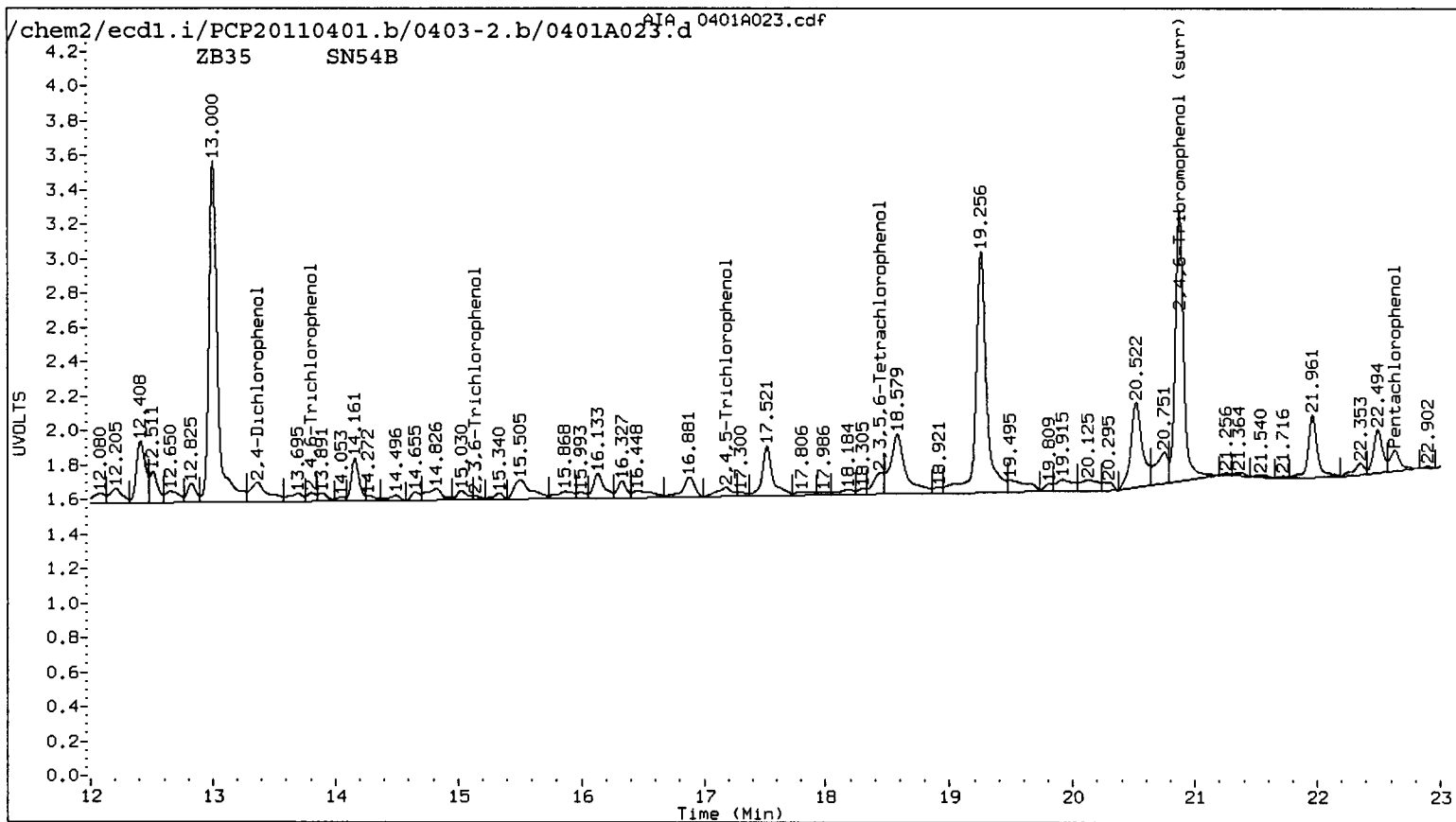
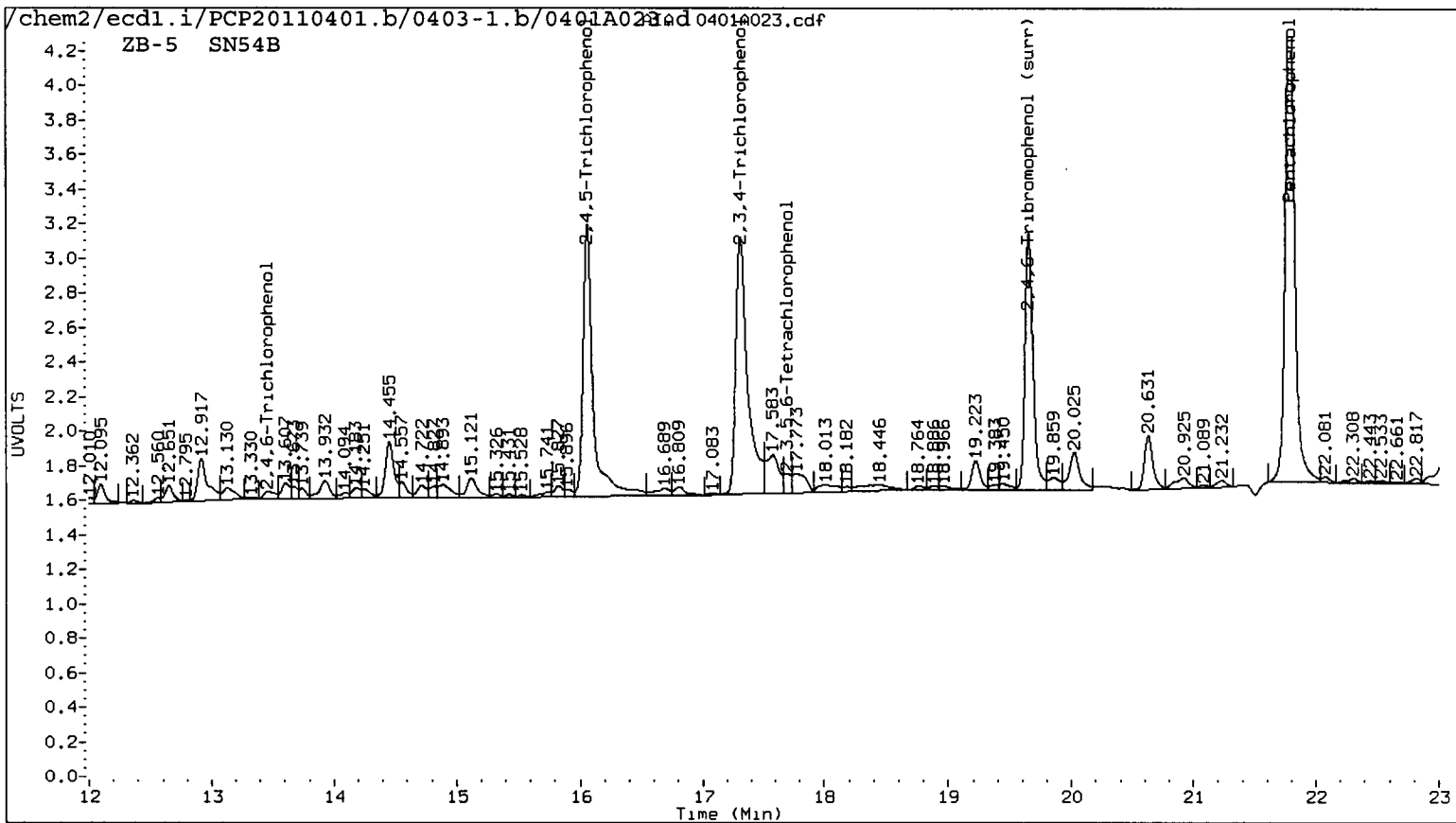
*yz 4/7/11*

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A023.d ARI ID: SN54B  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A023.d Client ID: LL-SED3-36-141-0315  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 04:27  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

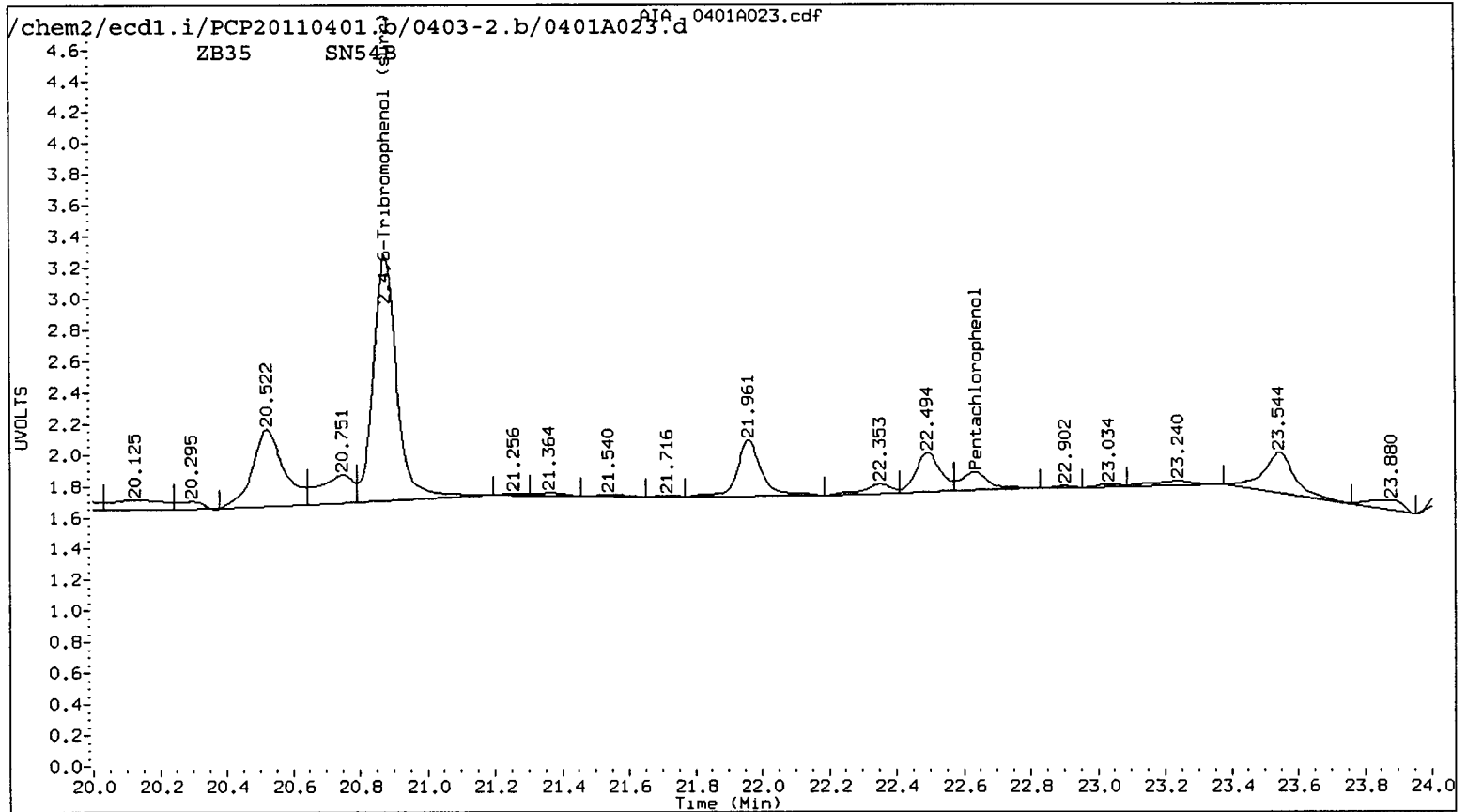
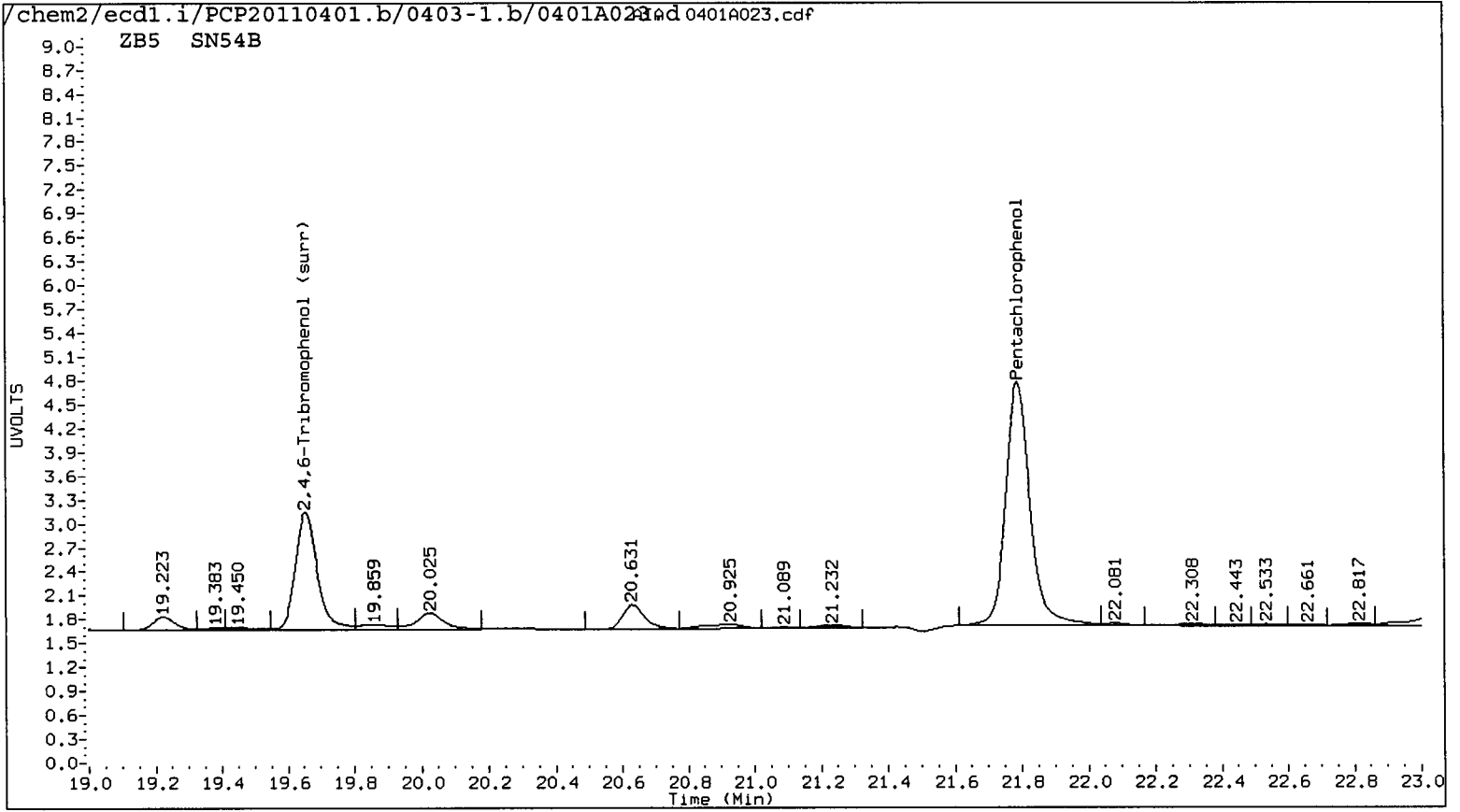
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.788	-0.005	779816	22.635	0.004	34821	<del>30.3811</del>	<del>1.2721</del>	183.9*	Pentachlorophenol
13.461	0.052	13257	13.805	0.027	12526	0.9907	0.7732	24.7	2,4,6-Trichlorophenol
----			15.142	-0.041	4461	0.0000	0.2984	---	2,3,6-Trichlorophenol
16.058	-0.026	450587	17.179	0.028	22401	58.4331	2.7870	181.8*	2,4,5-Trichlorophenol
17.311	-0.035	502688	----			53.3195	0.0000	---	2,3,4-Trichlorophenol
17.697	-0.023	22759	18.444	0.034	35051	0.9812	1.5183	43.0*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			13.364	-0.066	54664	0.0000	65.6382	---	2,4-Dichlorophenol
19.655	0.003	347130	20.876	0.006	380506	16.1	17.8	10.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	64.5	71.4



SN54 : 00534



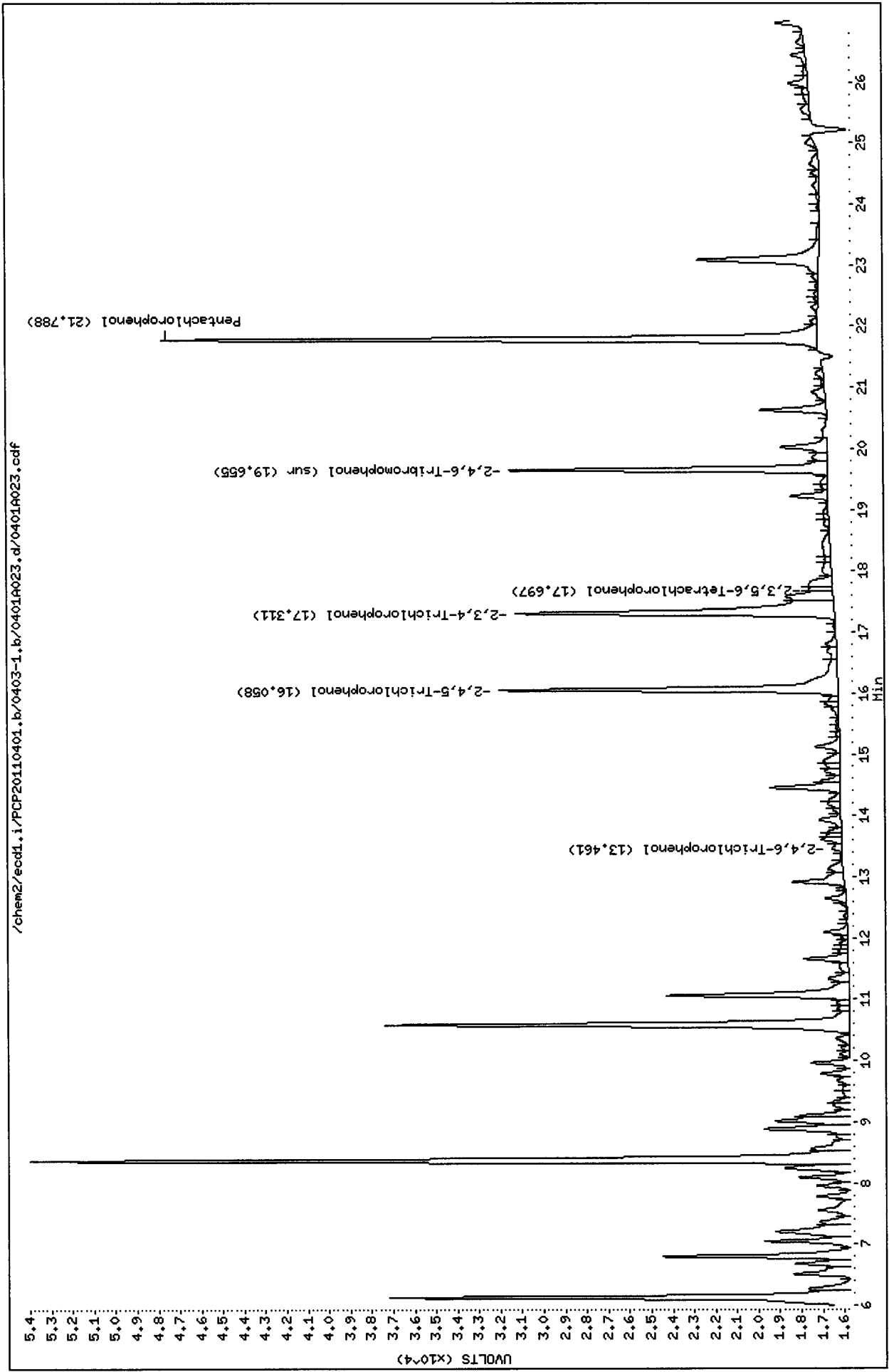
SN54 : 00535

Data File: /chem2/ecd1.i/PCP20110401.b/0403-1.b/0401A023.d  
Date : 07-APR-2011 04:27  
Client ID: LL-SED3-36-141-0315  
Sample Info: SN54B

Instrument: ecd1.i

Operator: ar  
Column diameter: 0.53

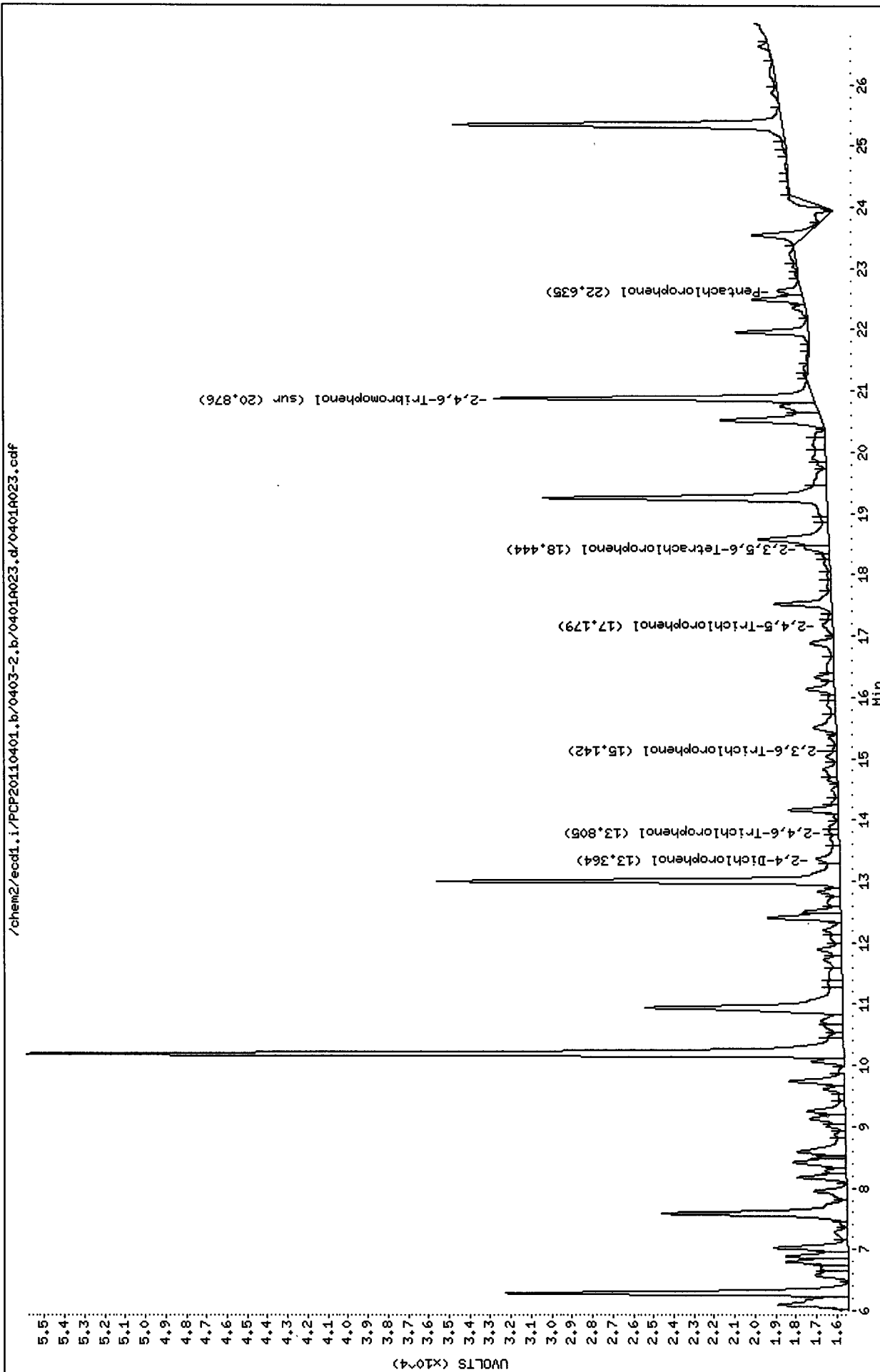
Column phase: ZB5



Data File: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A023.d  
Date : 07-APR-2011 04:27  
Client ID:  
Sample Info: SN54B  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecdl.i

Operator: ar  
Column diameter: 0.53



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

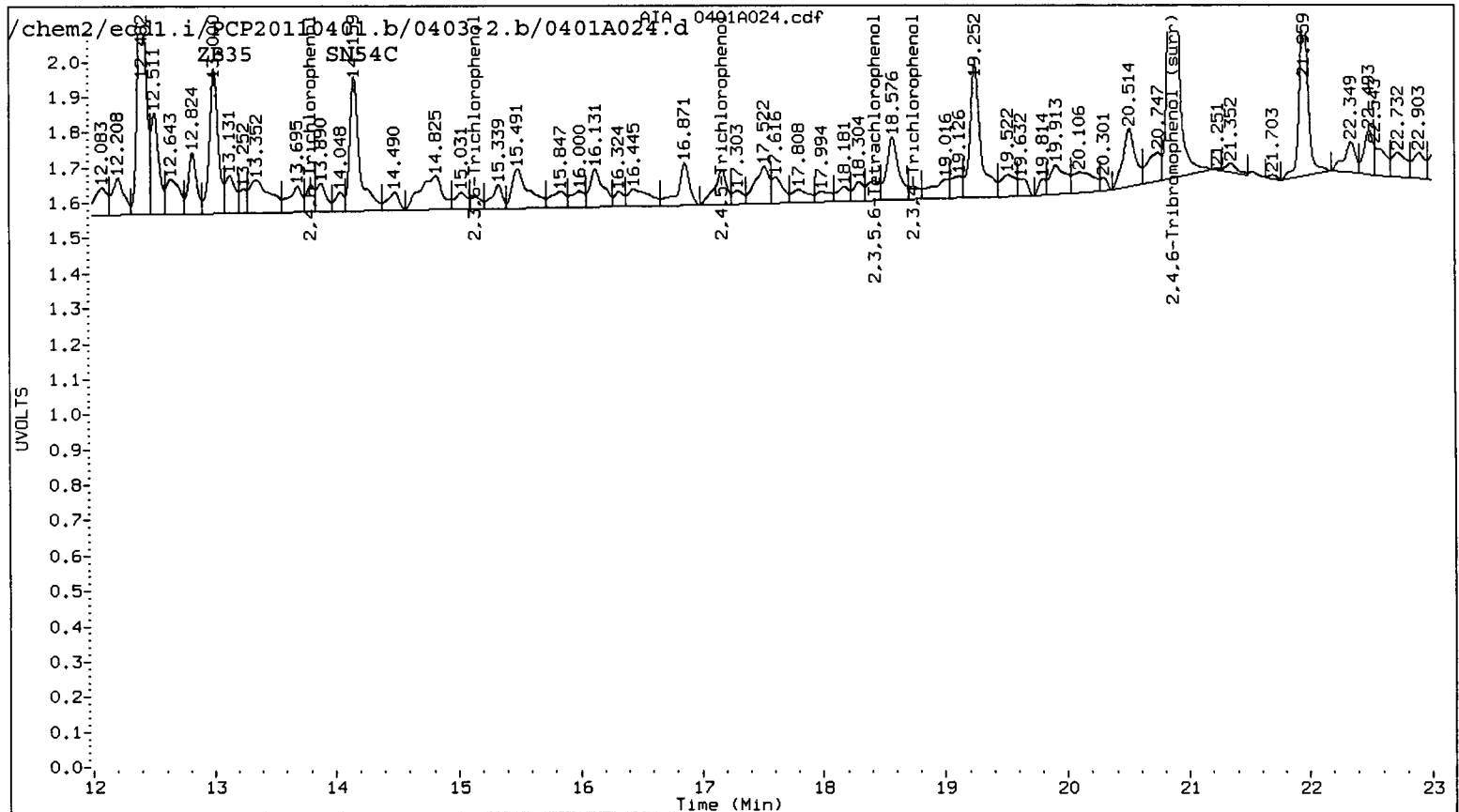
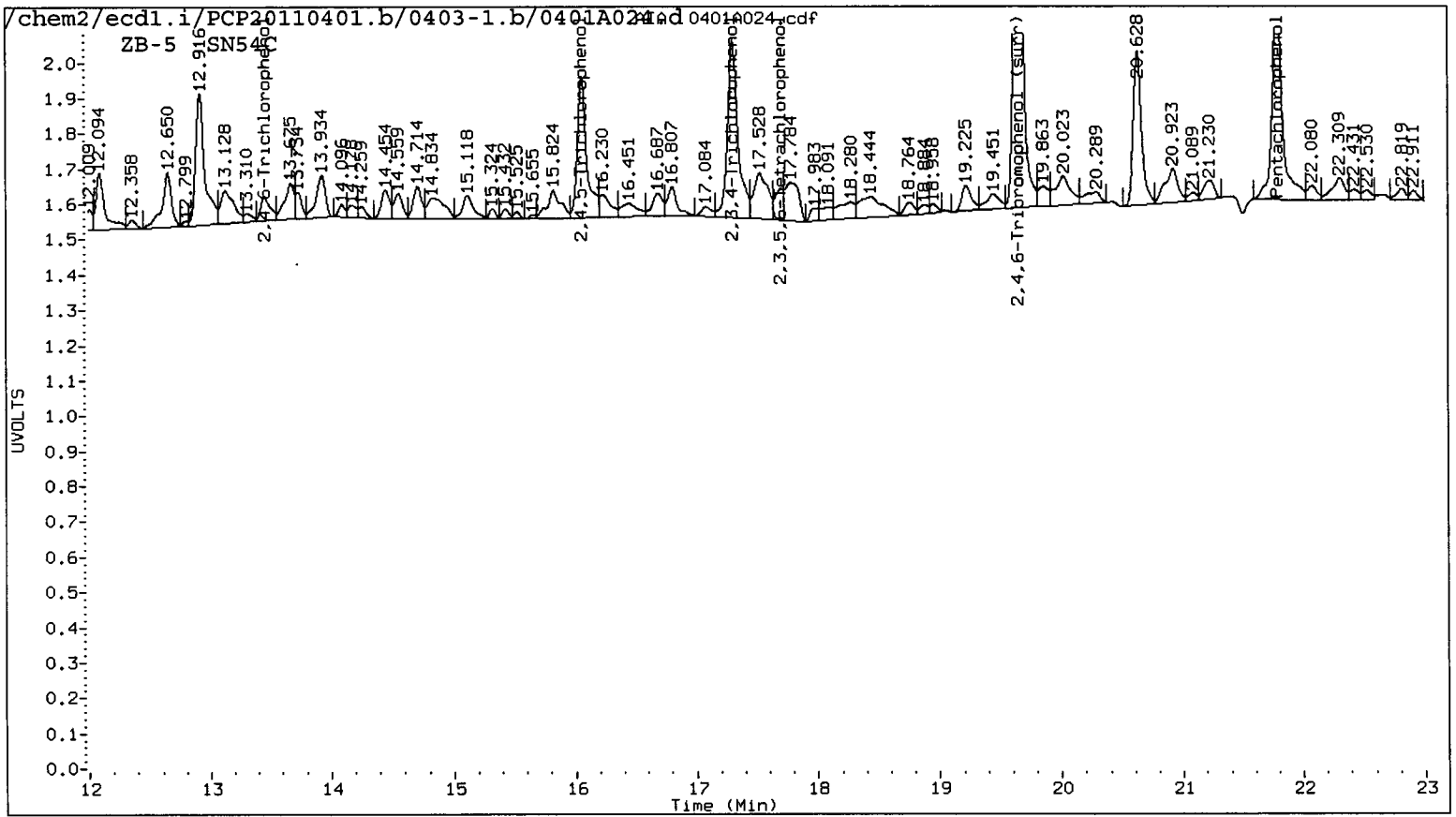
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A024.d ARI ID: SN54C  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A024.d Client ID: LL-SED3-141-167-031  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 05:03  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

YZ 4/7/11

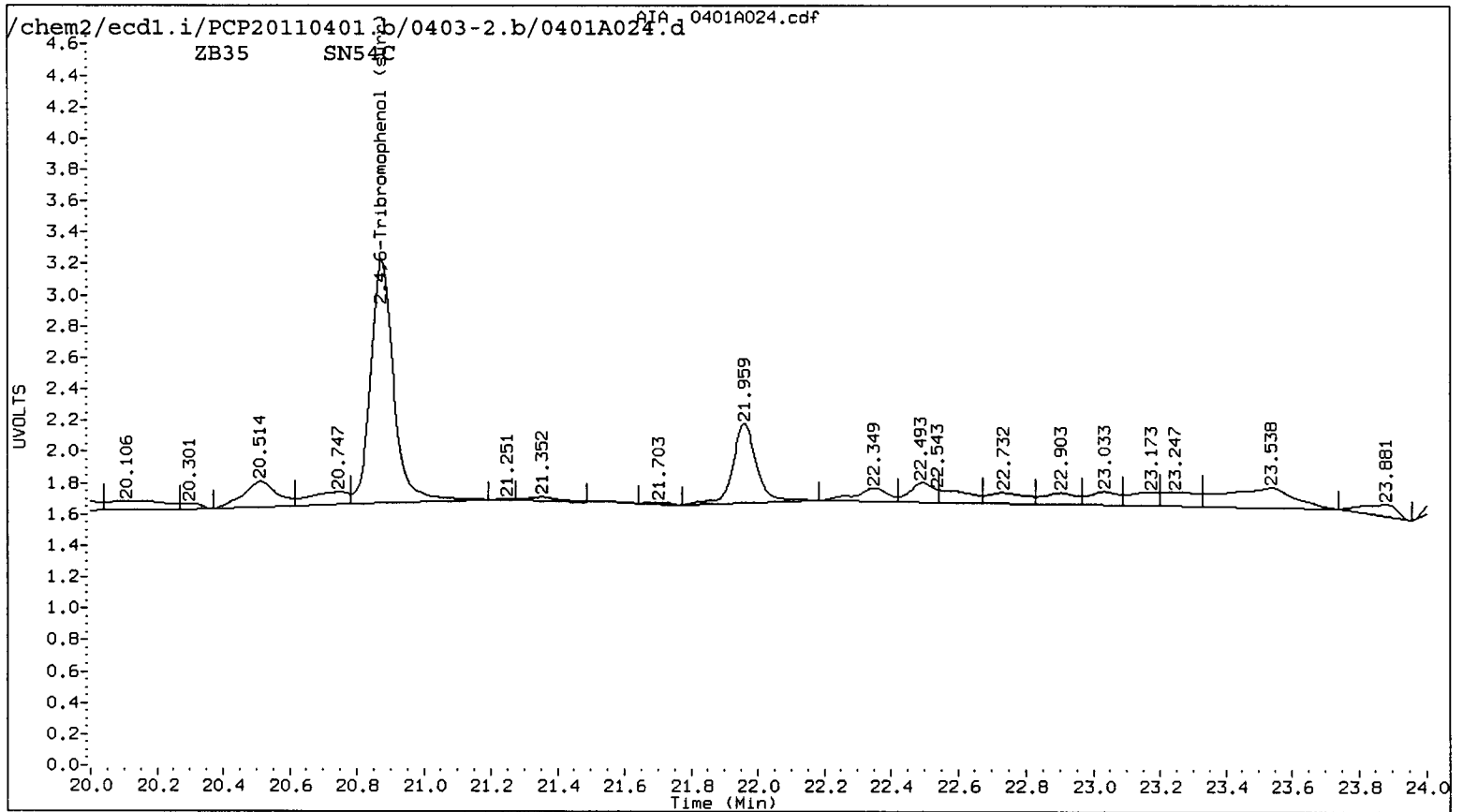
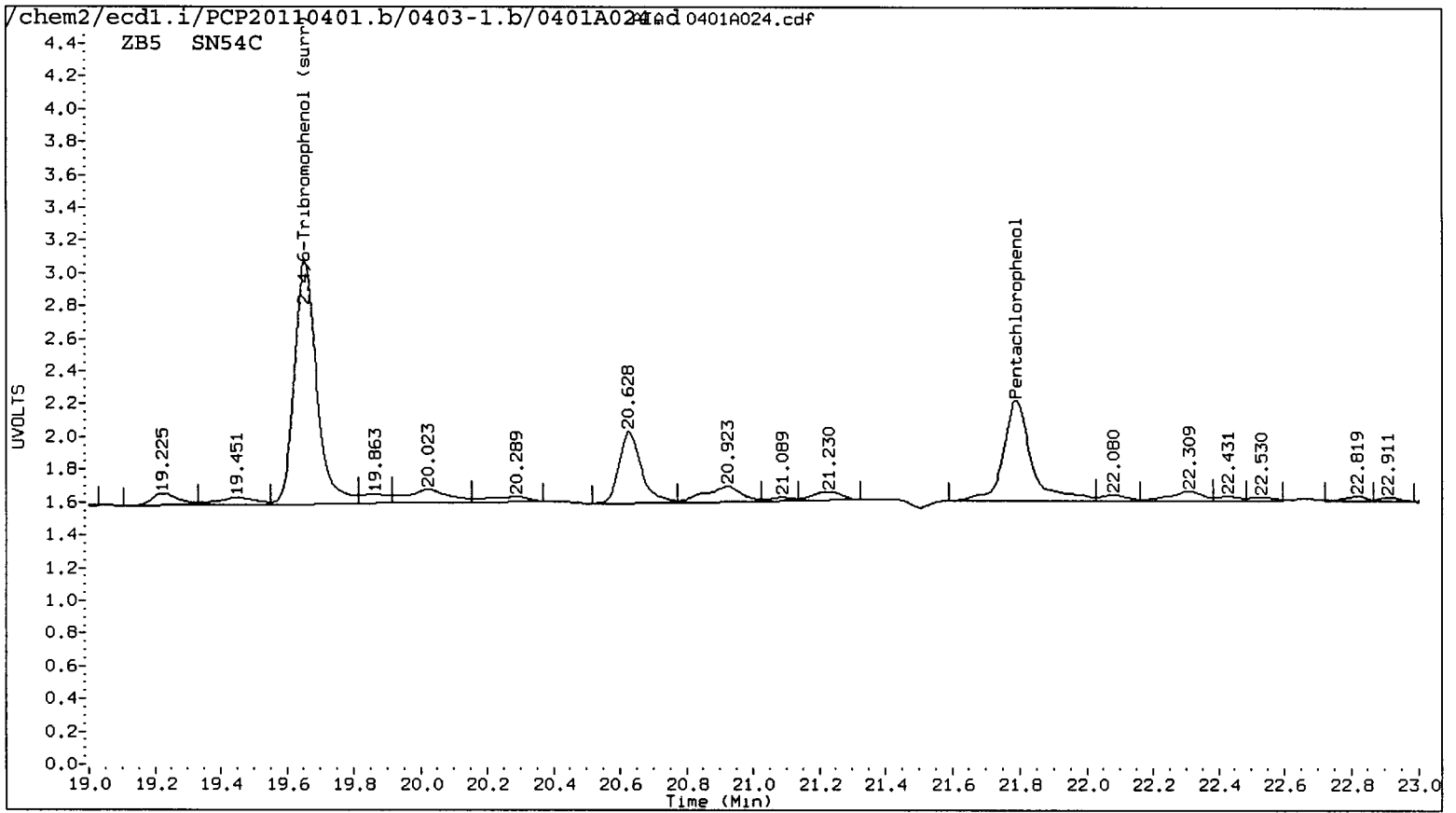
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.789	-0.004	178973	----			<del>6.9727</del>	<del>0.0000</del>	---	Pentachlorophenol
13.455	0.046	19874	13.806	0.029	17958	1.4853	1.1084	29.1	2,4,6-Trichlorophenol
----			15.144	-0.040	10470	0.0000	0.7004	---	2,3,6-Trichlorophenol
16.057	-0.027	109014	17.175	0.024	36067	14.1372	4.4872	103.6*	2,4,5-Trichlorophenol
17.305	-0.041	151111	18.751	0.026	10343	12.6238	1.0420	169.5*	2,3,4-Trichlorophenol
17.701	-0.019	19367	18.425	0.015	19567	0.8350	0.8476	1.5	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.654	0.002	346333	20.874	0.004	375652	16.1	17.6	9.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	64.4	70.4







SN54 : 00540

Data File: /chem2/ecd1.i/PCP20110401.b/0403-1.b/0401A024.d

Date : 07-APR-2011 05:03

Client ID: LL-SED3-141-167-031

Sample Info: SN54C

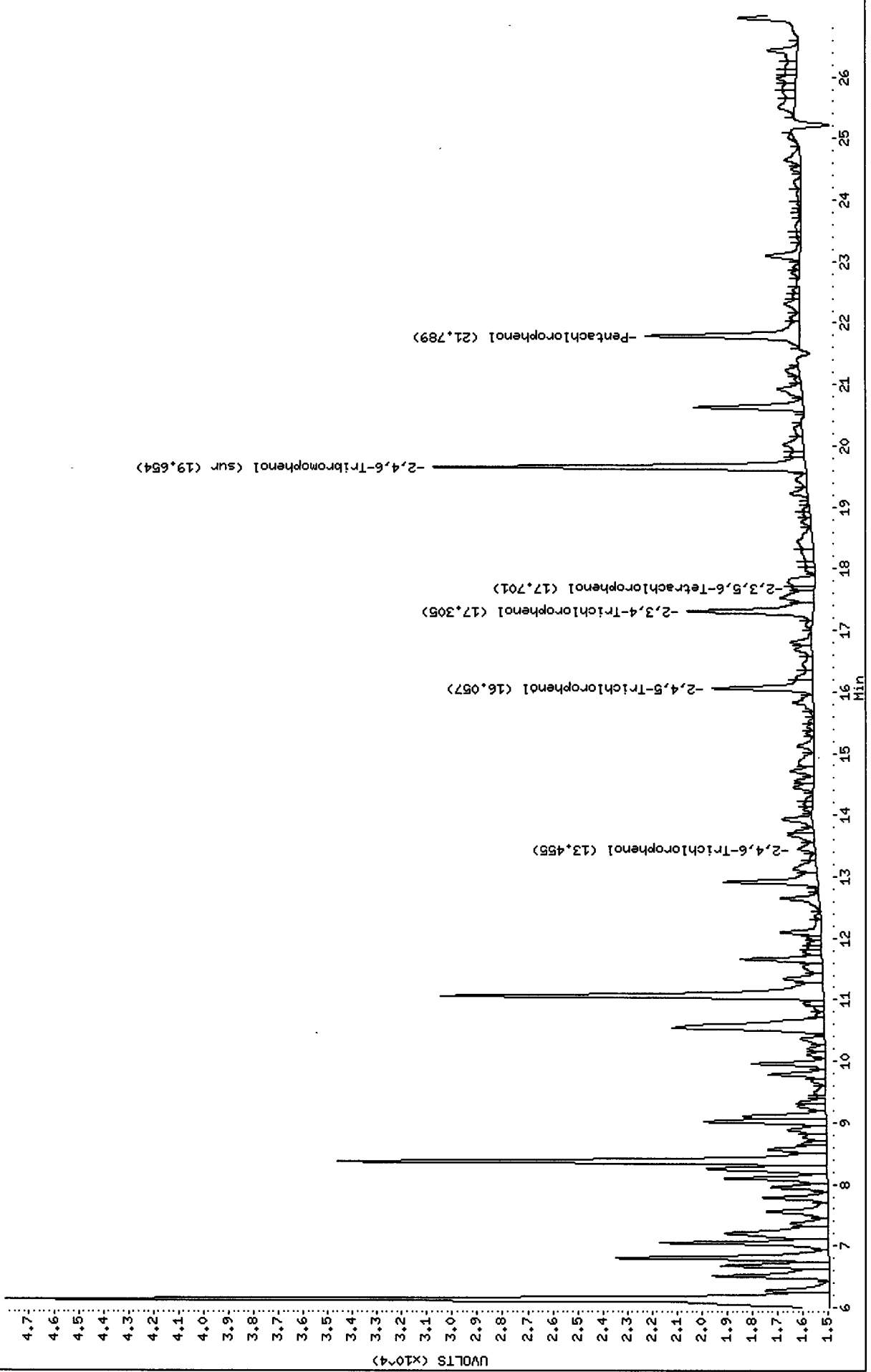
Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB5

/chem2/ecd1.i/PCP20110401.b/0403-1.b/0401A024.d/0401A024.cdf



Data File: /chem2/ecd1.i/PCP20110401.b/0403-2.b/0401A024.d

Date : 07-APR-2011 05:03

Client ID:

Instrument: ecd1.i

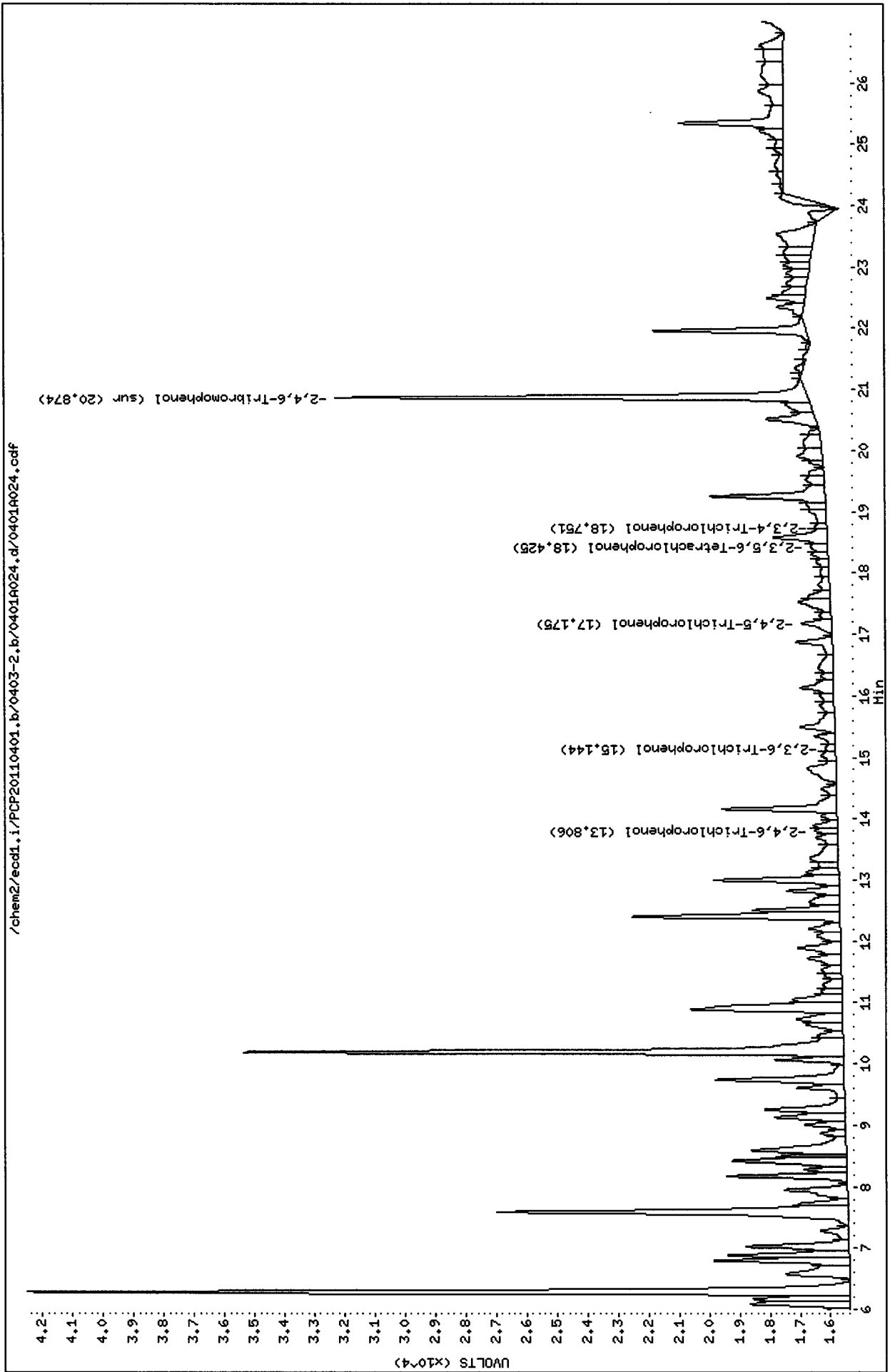
Sample Info: SN54C

Purge Volume: 500.0

Operator: ar

Column phase: ZB35

Column diameter: 0.53



SN54 : 00542

Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A025.d ARI ID: SN54D  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A025.d Client ID: LL-SED2-0-56-031511  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 05:39  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecd1.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

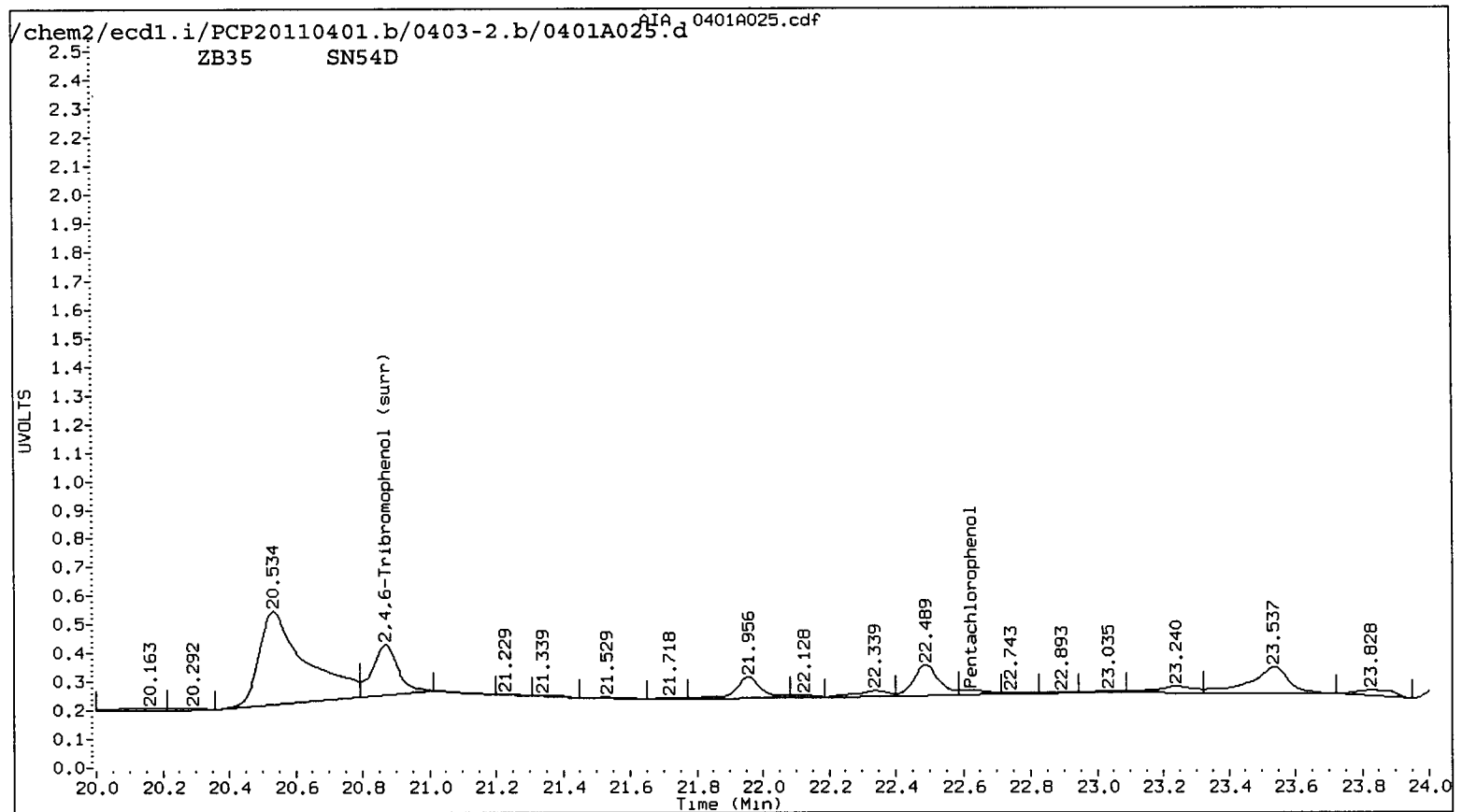
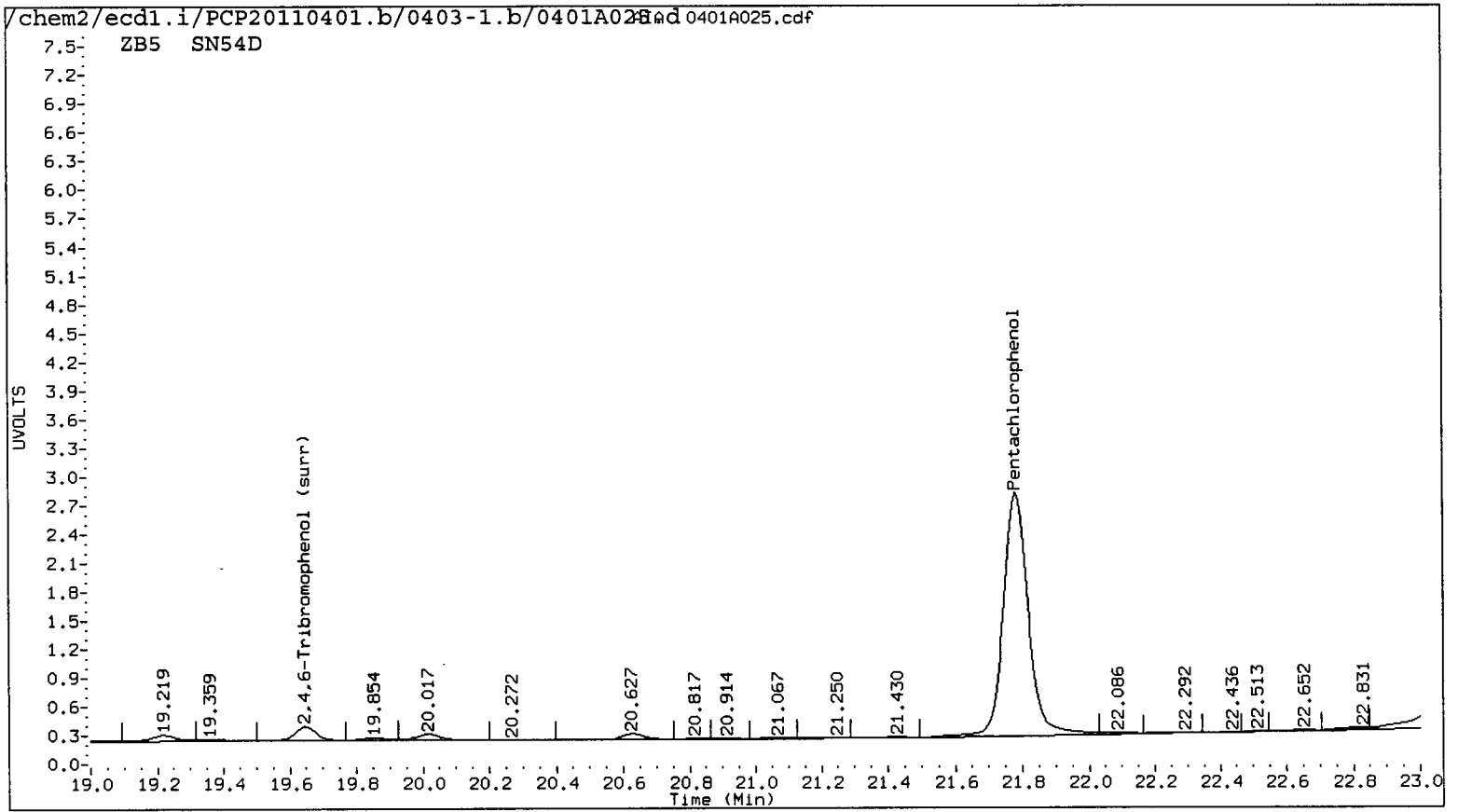
*YZ 4/7/11*

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.781	-0.012	6653456	22.623	-0.008	45812	<del>259.2139</del>	<del>1.6736</del>	197.4*	Pentachlorophenol
----			13.814	0.037	35478	0.0000	2.1899	---	2,4,6-Trichlorophenol
14.443	0.067	322325	----			22.0552	0.0000	---	2,3,6-Trichlorophenol
16.059	-0.025	2710814	17.171	0.021	58346	351.5443	7.2591	191.9*	2,4,5-Trichlorophenol
17.332	-0.014	6928309	18.746	0.021	14080	3587.6304	1.4185	199.8*	2,3,4-Trichlorophenol
----			18.411	0.000	87702	0.0000	3.7991	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
12.473	0.041	4849	----			5.4600	0.0000	---	2,4-Dichlorophenol
19.648	-0.004	296796	20.869	-0.001	474083	13.8	22.2	46.8*	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	55.2	88.9





SN54 : 00545

Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A025.d

Date : 07-APR-2011 05:39

Client ID: LL-SED2-0-56-031511

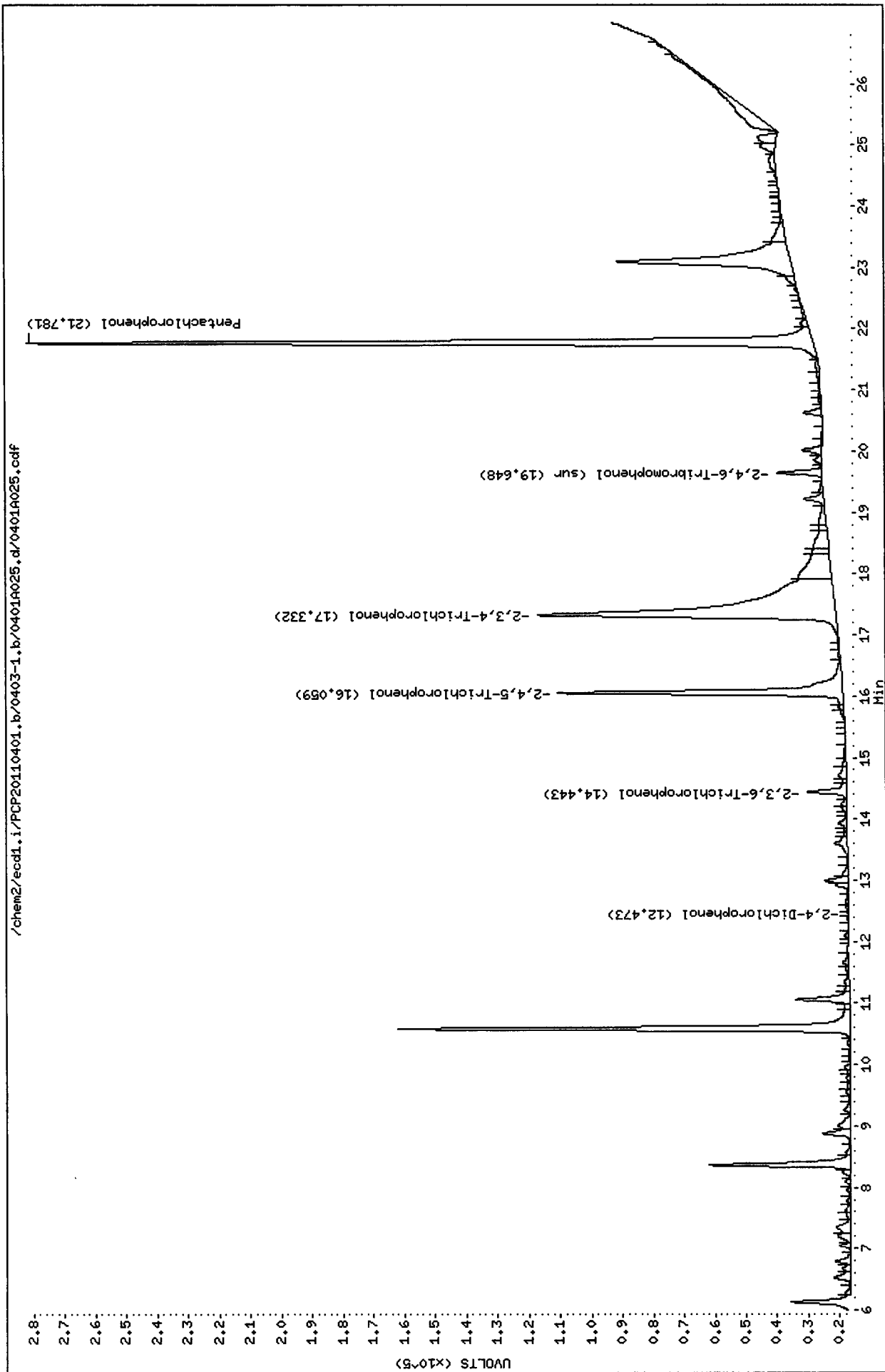
Sample Info: SN54D

Instrument: ecd1.i

Operator: ar

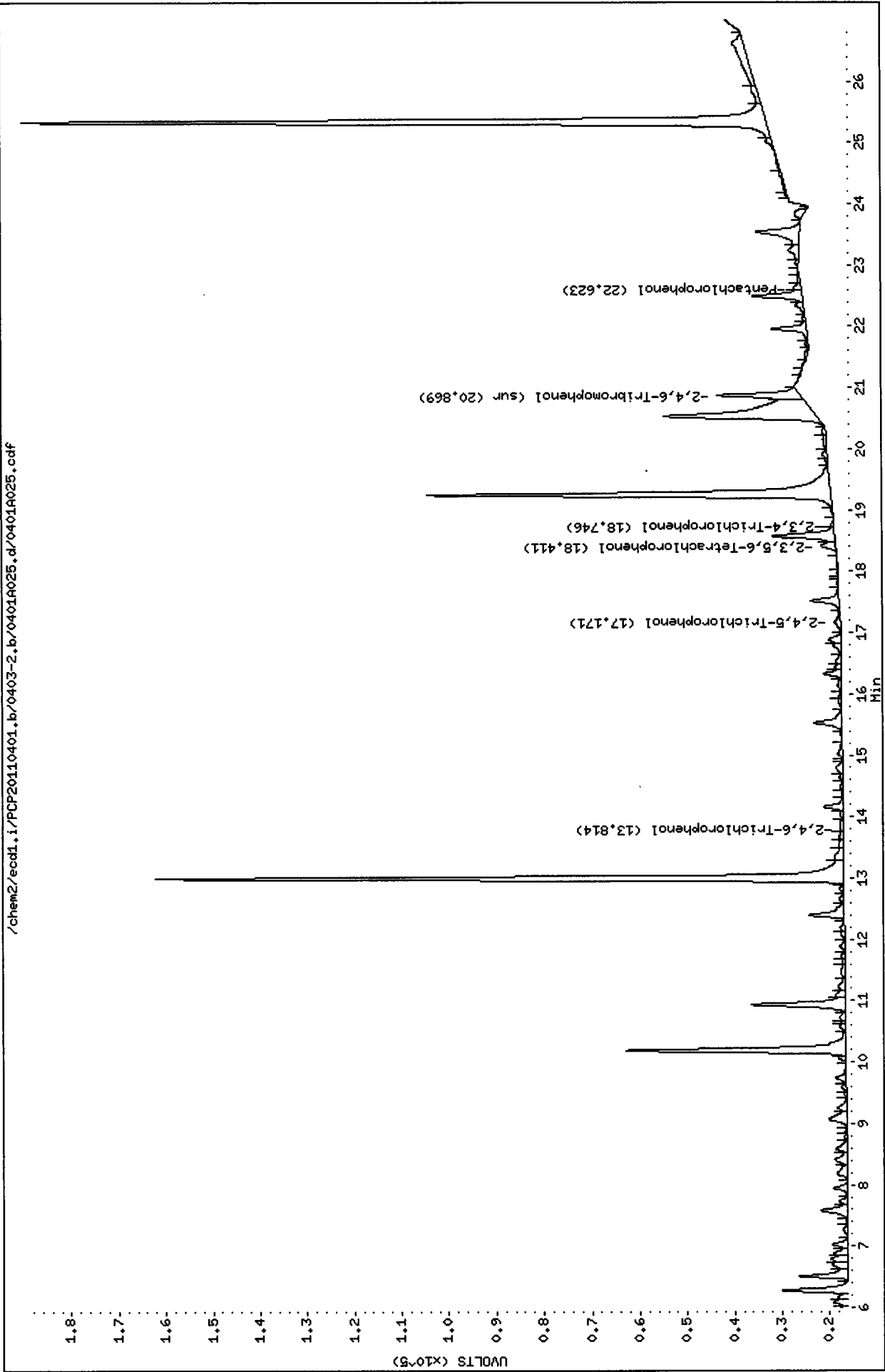
Column diameter: 0.53

Column phase: ZB5



/chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A025.d/0401A025.cdf

Data File: /chem2/ecd1.i/PCP20110401.b/0403-2.b/0401A025.d  
Date : 07-APR-2011 05:39  
Client ID:  
Instrument: ecd1.i  
Sample Info: SN54D  
Operator: ar  
Purge Volume: 500.0  
Column diameter: 0.53  
Column phase: ZB35





Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

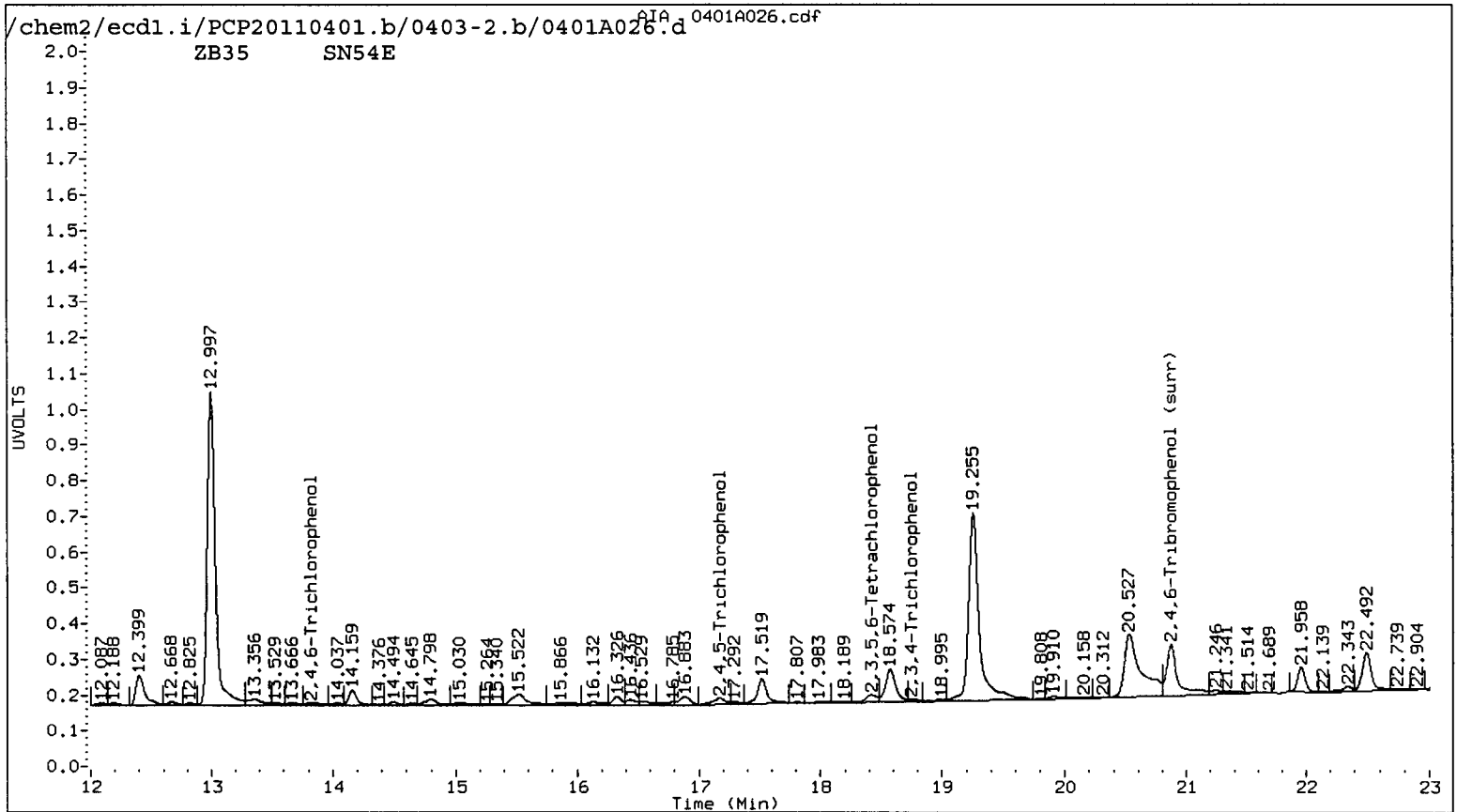
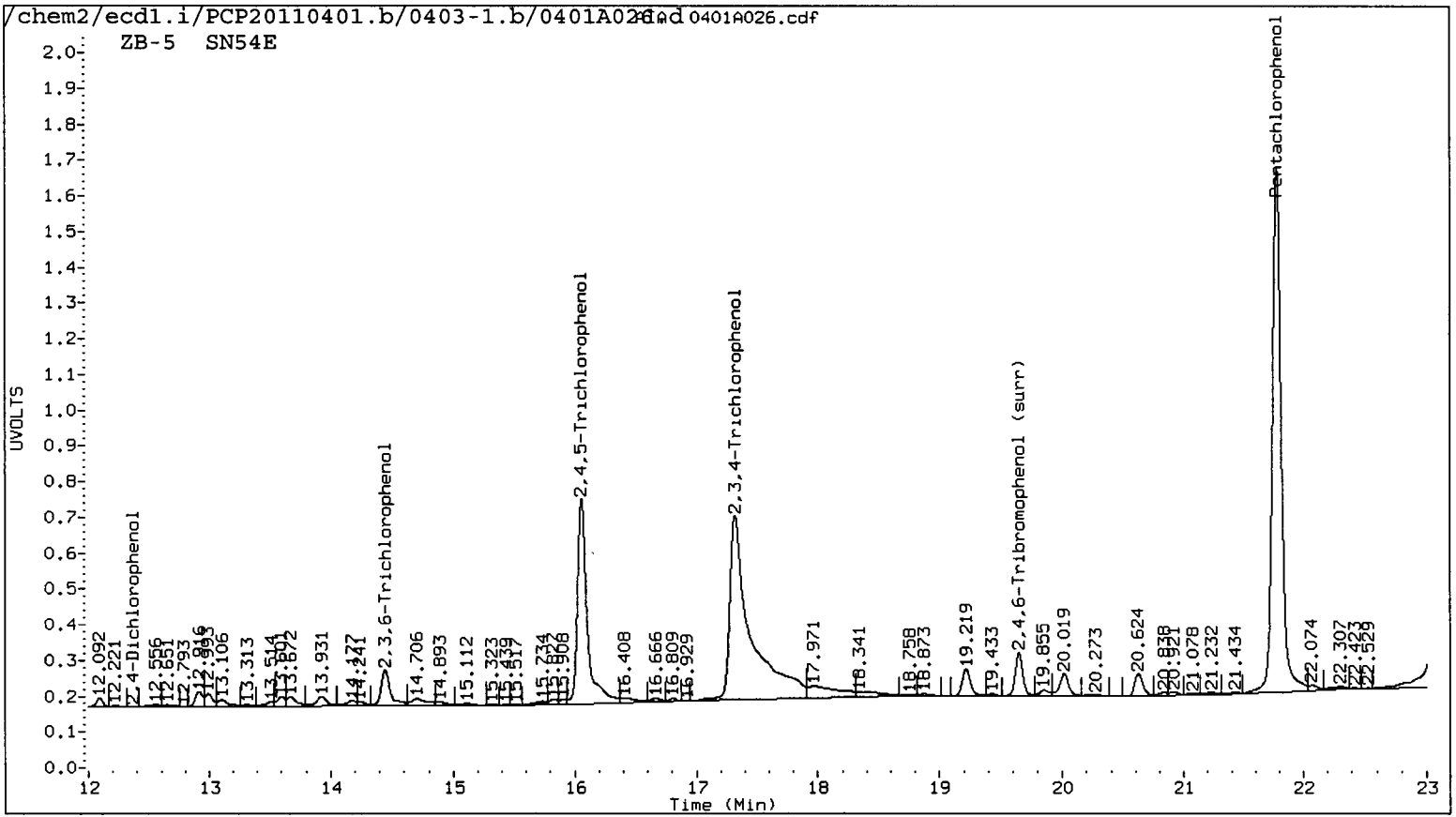
YZ 4/7/11

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A026.d ARI ID: SN54E  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A026.d Client ID: LL-SED2-56-112-0315  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 06:15  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecd1.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

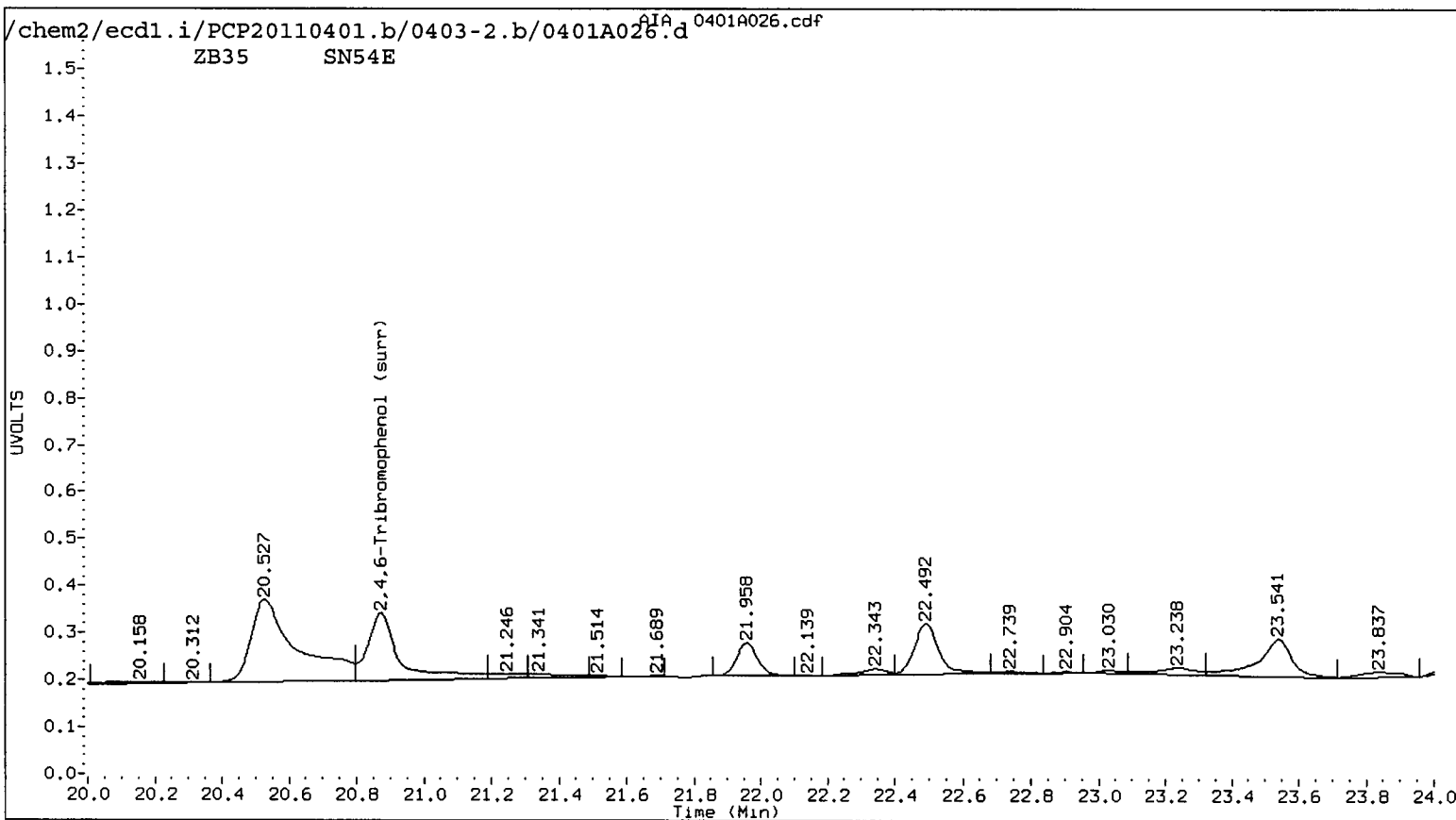
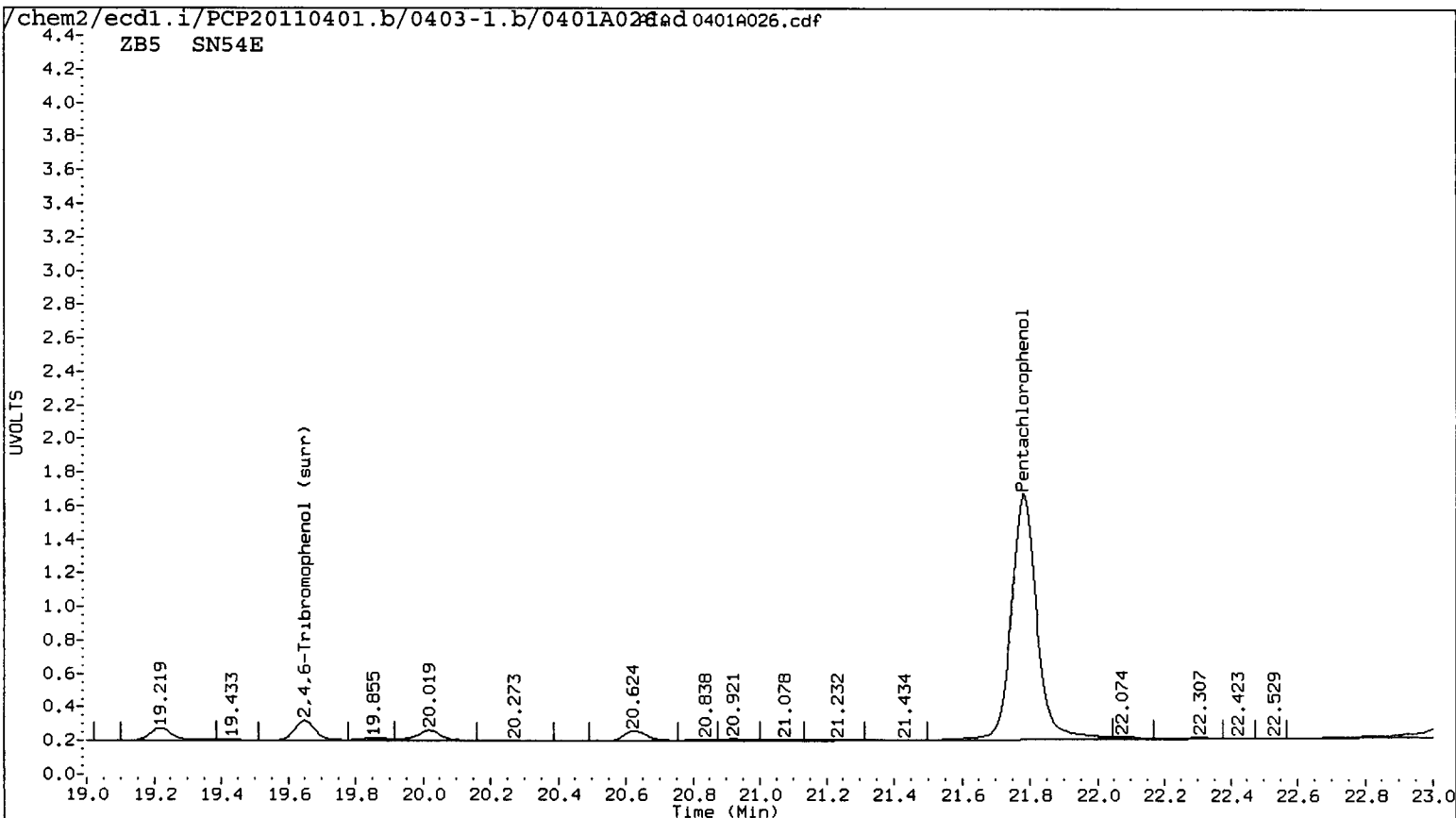
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.782	-0.011	3844845	-----			<del>149.7924</del>	<del>0.0000</del>	---	Pentachlorophenol
-----			13.820	0.043	30386	0.0000	1.8756	---	2,4,6-Trichlorophenol
14.445	0.069	263690	-----			18.0431	0.0000	---	2,3,6-Trichlorophenol
16.058	-0.026	1610669	17.172	0.021	66020	208.8751	8.2138	184.9*	2,4,5-Trichlorophenol
17.319	-0.027	3051233	18.754	0.028	18197	821.9390	1.8332	199.1*	2,3,4-Trichlorophenol
-----			18.416	0.005	60865	0.0000	2.6366	---	2,3,5,6-Tetrachlorophenol
-----			-----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
12.371	-0.061	3477	-----			3.9106	0.0000	---	2,4-Dichlorophenol
19.649	-0.003	255144	20.872	0.001	464148	<u>11.9</u>	<u>21.8</u>	58.9*	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	47.4	87.0



SN54 : 00549



SN54 : 00550

Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A026.d

Date : 07-APR-2011 06:15

Client ID: LL-SED2-56-112-0315

Sample Info: SN54E

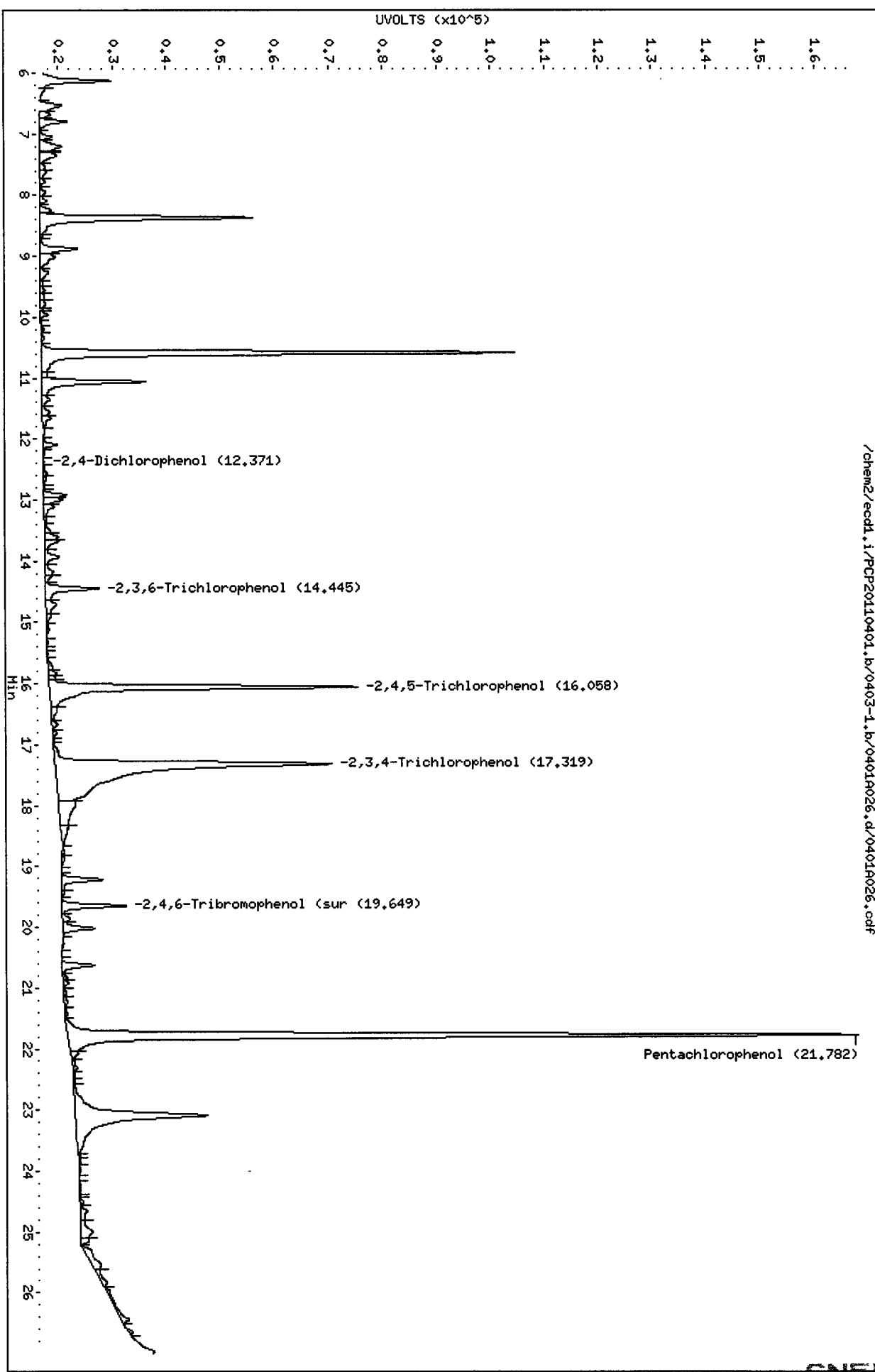
Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

/chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A026.d/0401A026.cdf



Data File: /chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A026.d

Date : 07-APR-2011 06:15

Client ID:

Sample Info: SN54E

Purge Volume: 500.0

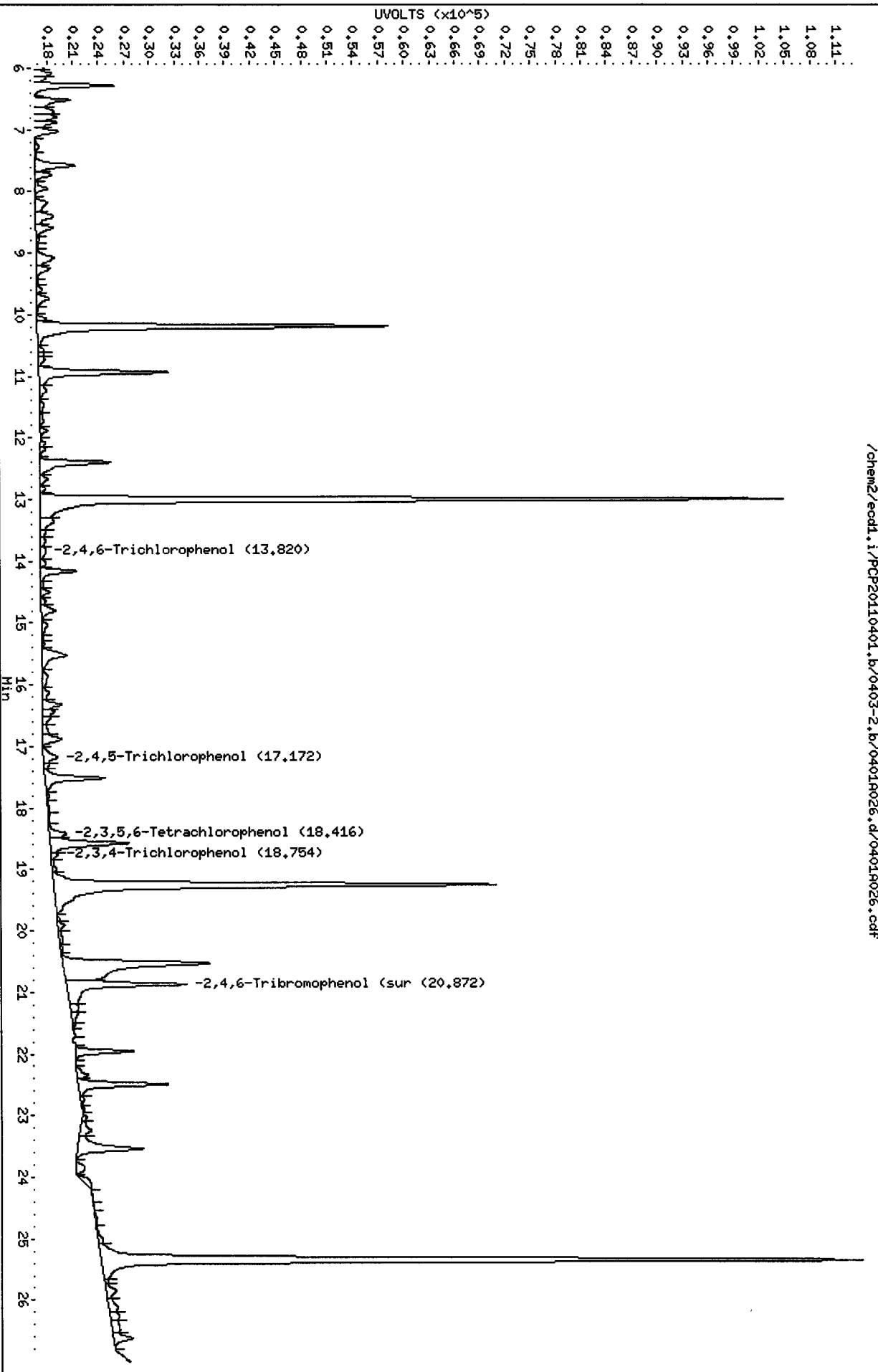
Column phase: ZB35

Instrument: eecd1.i

Operator: ar

Column diameter: 0.53

/chem2/eecd1.i/PCP20110401.b/0403-2.b/0401A026.d/0401A026.cdf



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

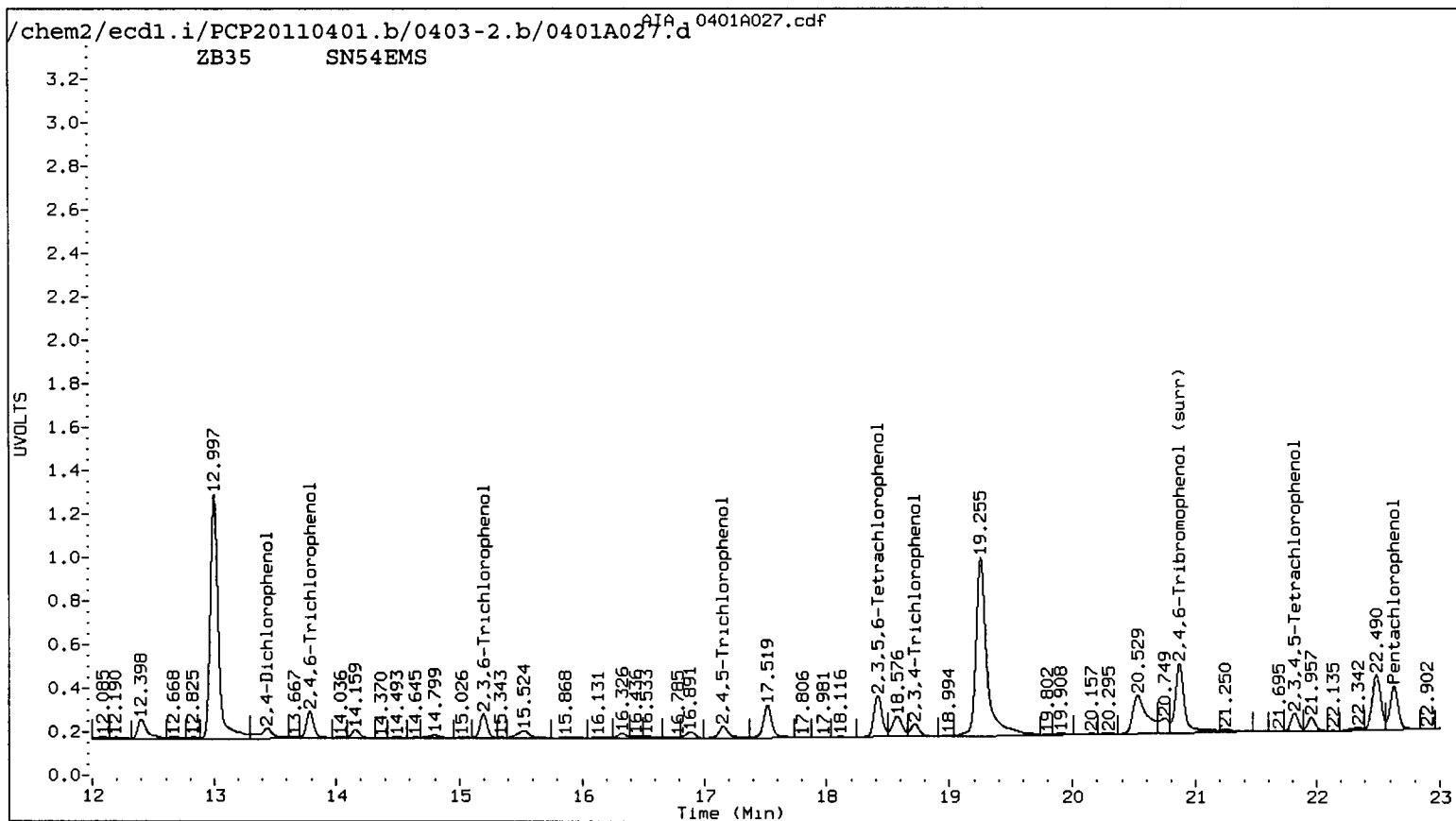
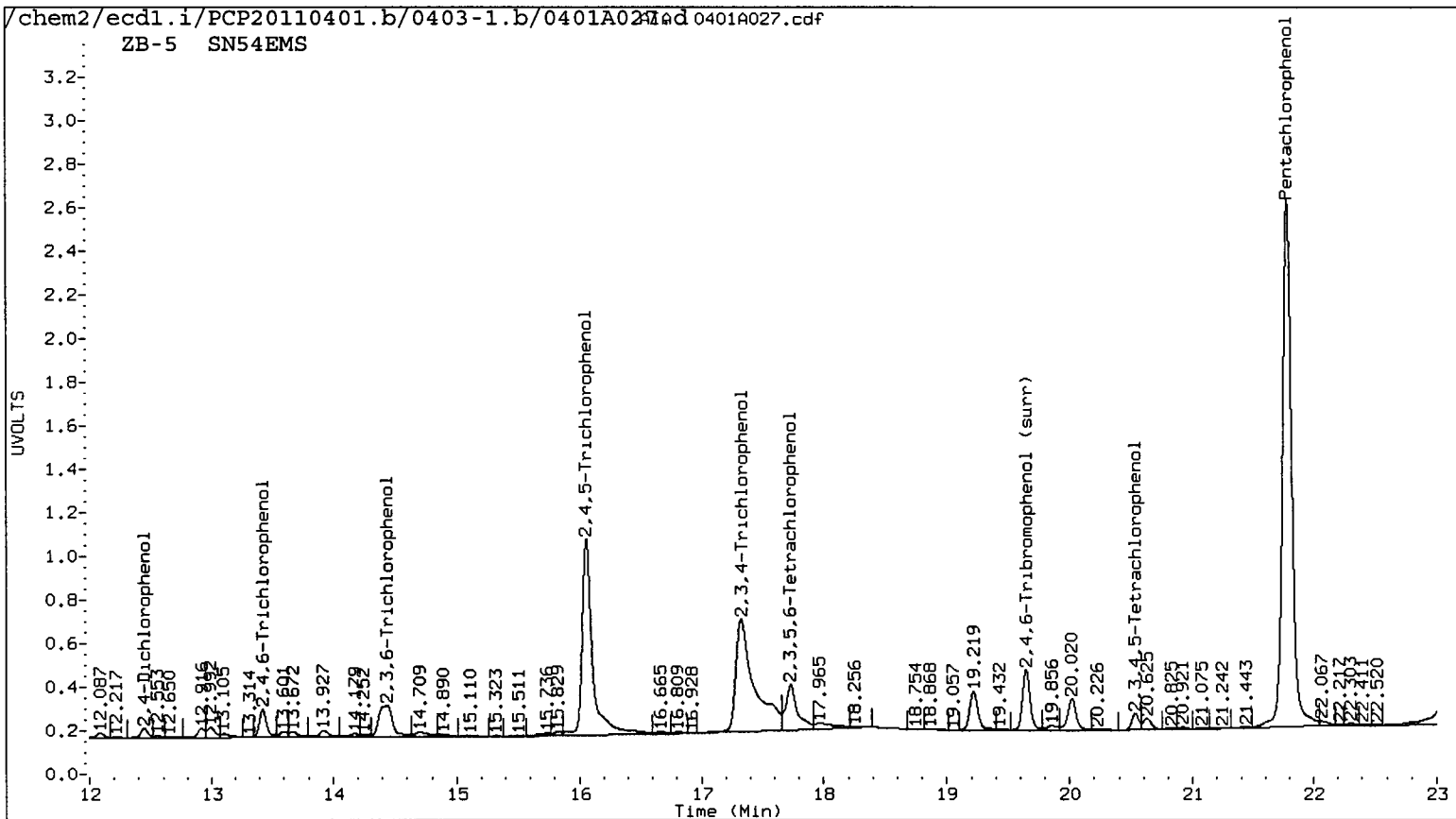
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A027.d ARI ID: SN54EMS  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A027.d Client ID: LL-SED2-56-112- MS  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 06:51  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

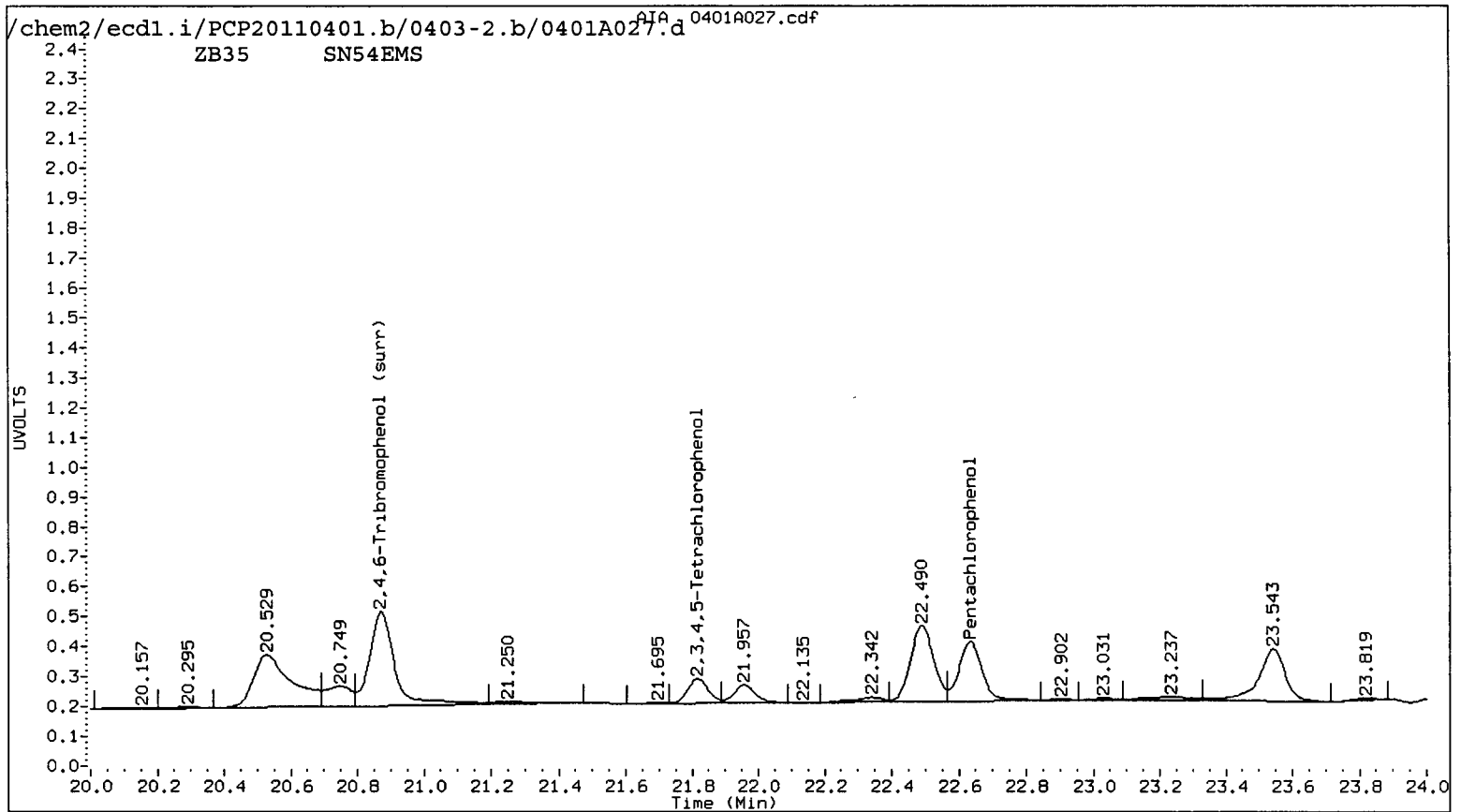
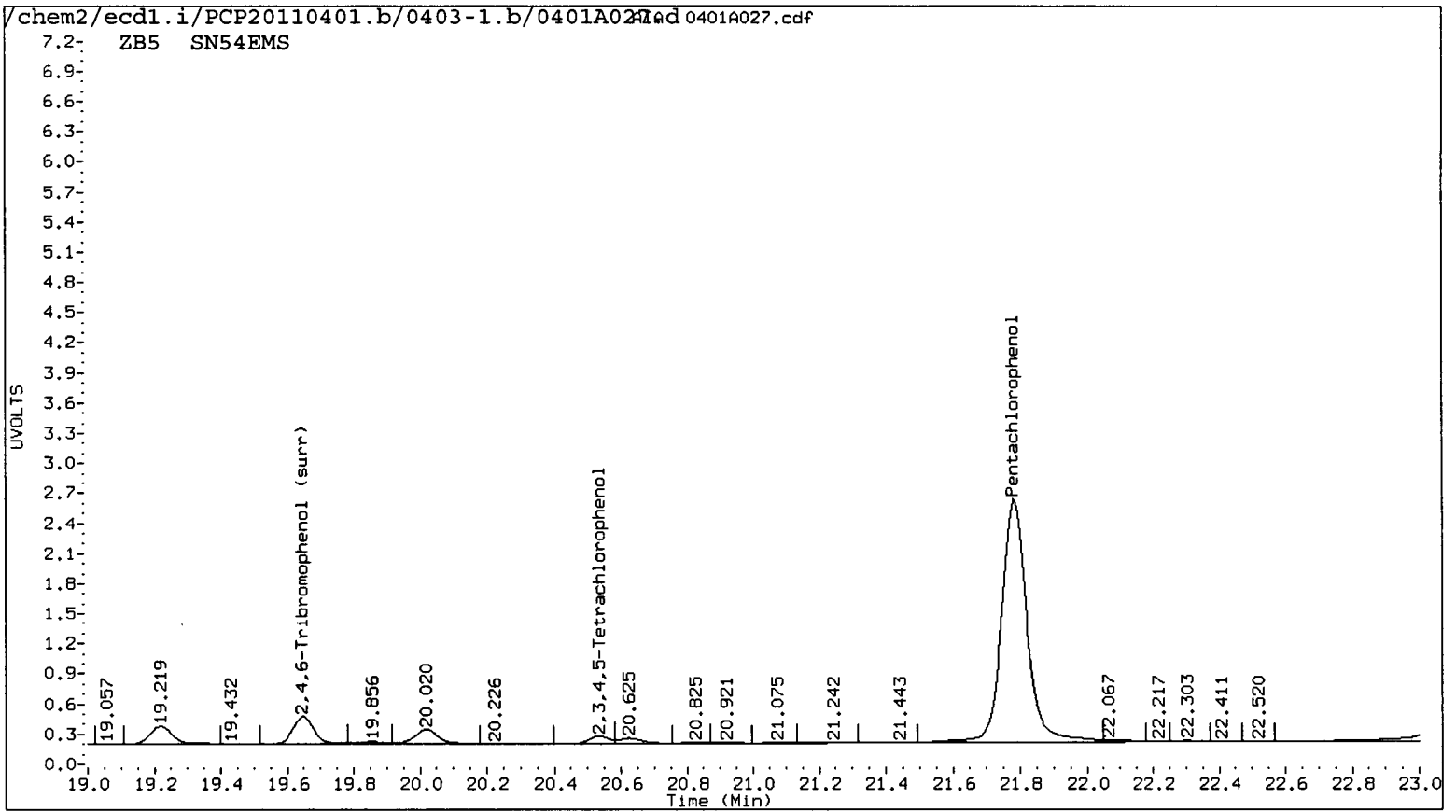
y2 4/7/11

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.782	-0.011	6469177	22.635	0.003	469548	252.0346	17.1538	174.5*	Pentachlorophenol
13.424	0.015	272258	13.789	0.011	288652	20.3469	17.8169	13.3	2,4,6-Trichlorophenol
14.439	0.063	567873	15.195	0.012	242648	38.8569	16.2332	82.1*	2,3,6-Trichlorophenol
16.058	-0.026	2712799	17.157	0.006	169209	351.8017	21.0519	177.4*	2,4,5-Trichlorophenol
17.325	-0.021	2705832	18.717	-0.008	147666	669.0062	14.8762	191.3*	2,3,4-Trichlorophenol
17.730	0.010	700693	18.419	0.008	431297	30.2099	18.6829	47.2*	2,3,5,6-Tetrachlorophenol
20.534	-0.011	153545	21.817	-0.002	176534	9.3850	10.9062	15.0	2,3,4,5-Tetrachlorophenol
12.445	0.013	92766	13.440	0.010	199657	112.1210	239.7395	72.5*	2,4-Dichlorophenol
19.648	-0.004	608668	20.871	0.001	835392	28.3	39.2	32.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	1008.1	68.6
2,4,6-Trichlorophenol	81.4	71.3
2,3,6-Trichlorophenol	155.4	64.9
2,4,5-Trichlorophenol	1407.2	84.2
2,3,4-Trichlorophenol	2676.0	59.5
2,3,5,6-Tetrachlorophenol	120.8	74.7
2,3,4,5-Tetrachlorophenol	37.5	43.6
2,4-Dichlorophenol	44.8	95.9
2,4,6-TBP (surr)	56.6	78.3





SN54 : 00555



Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A027.d

Date : 07-APR-2011 06:51

Client ID: LL-SED2-56-112-MS

Sample Info: SNE4EHS

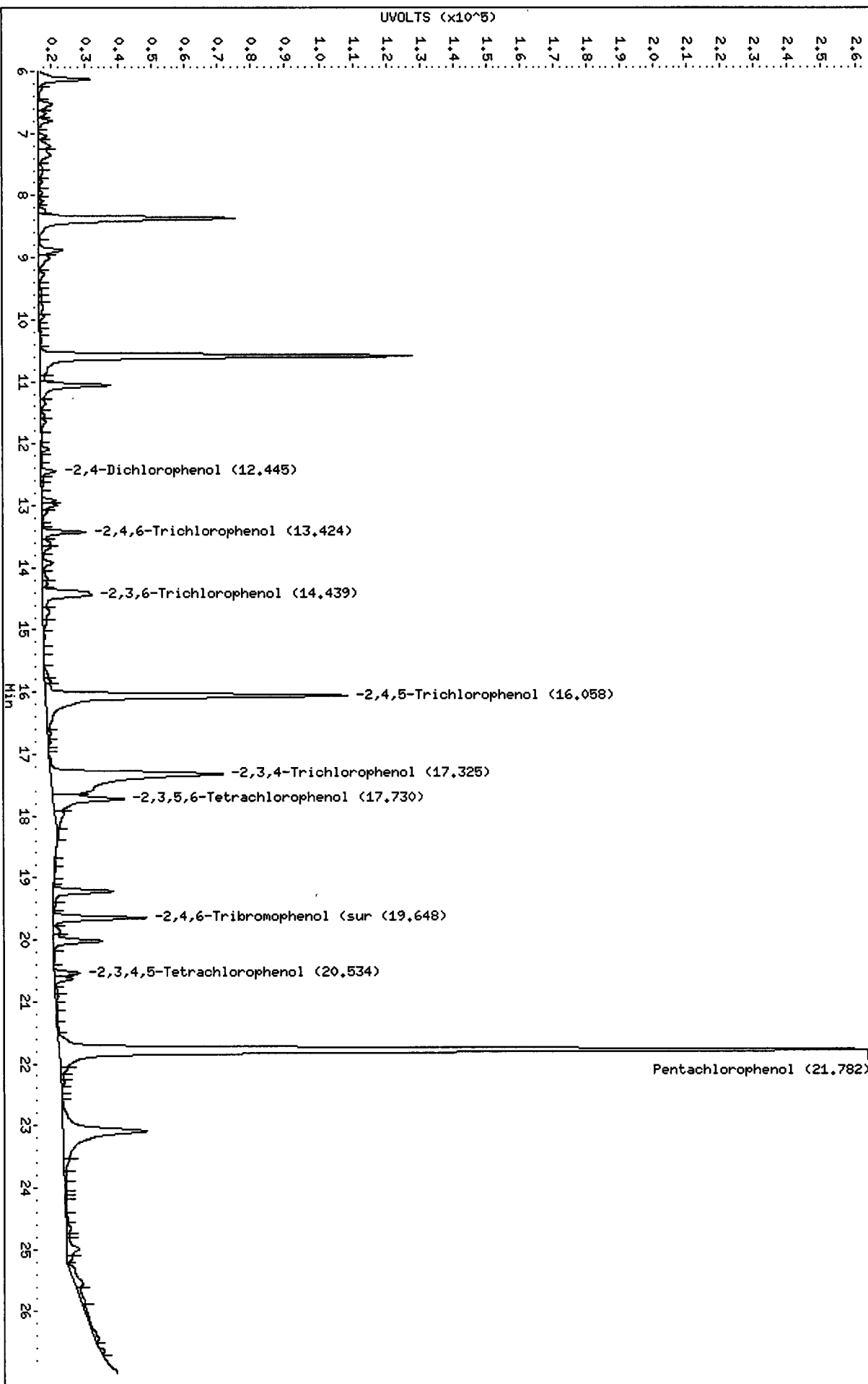
Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

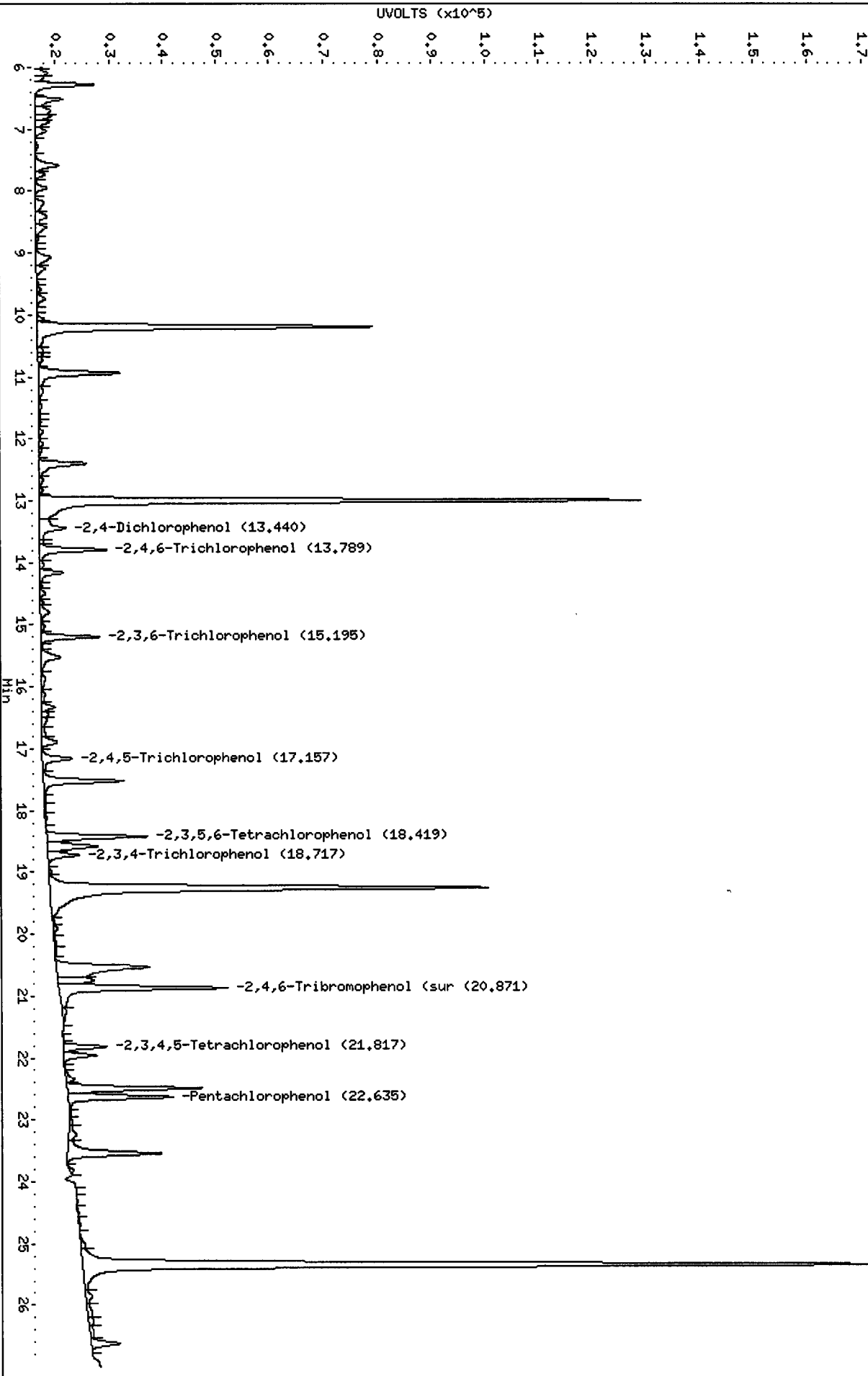
/chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A027.d/0401A027.cdf



Data File: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A027.d  
Date : 07-APR-2011 06:51  
Client ID:  
Sample Info: SN54EHS  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: ecdl.i  
Operator: ar  
Column diameter: 0.53

/chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A027.d/0401A027.cdf



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

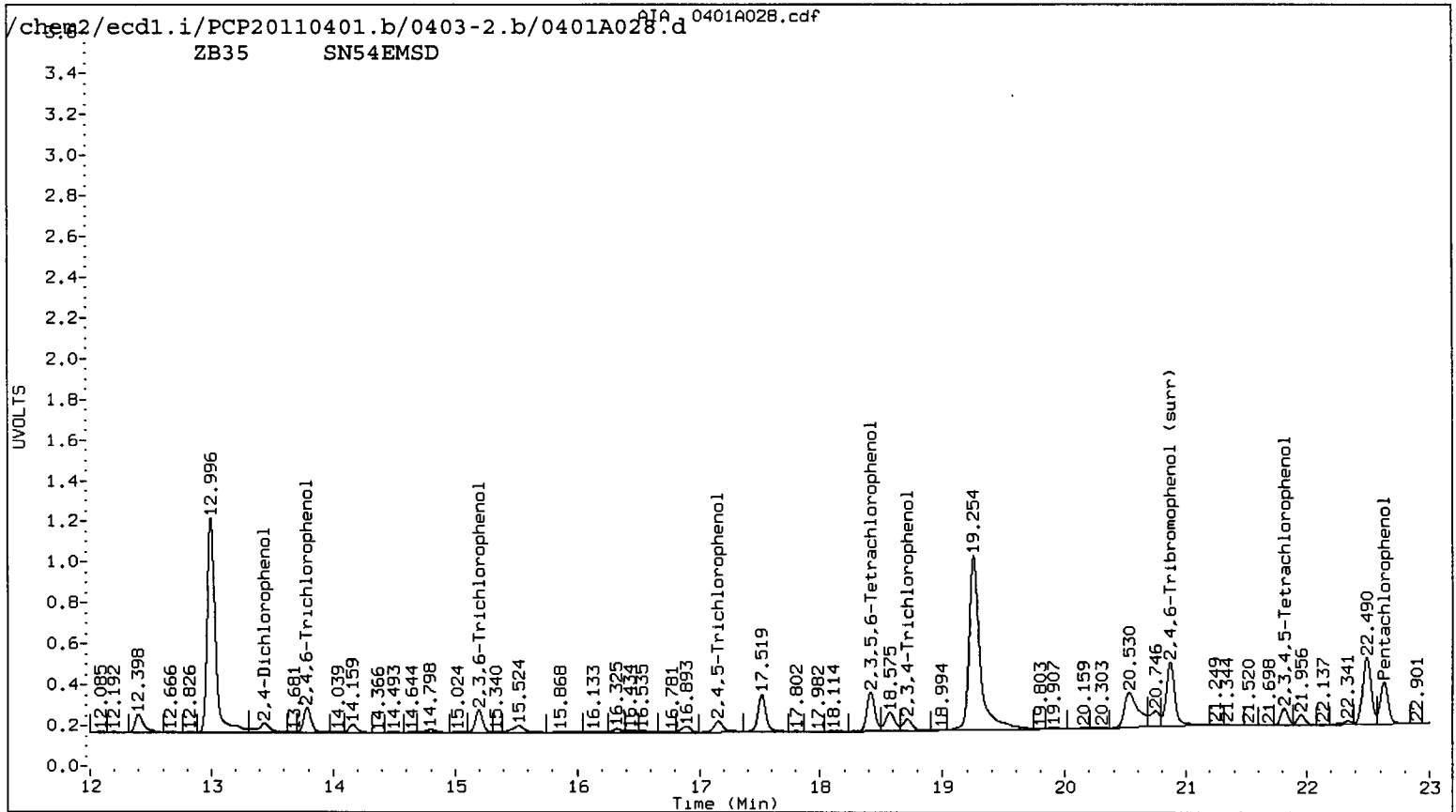
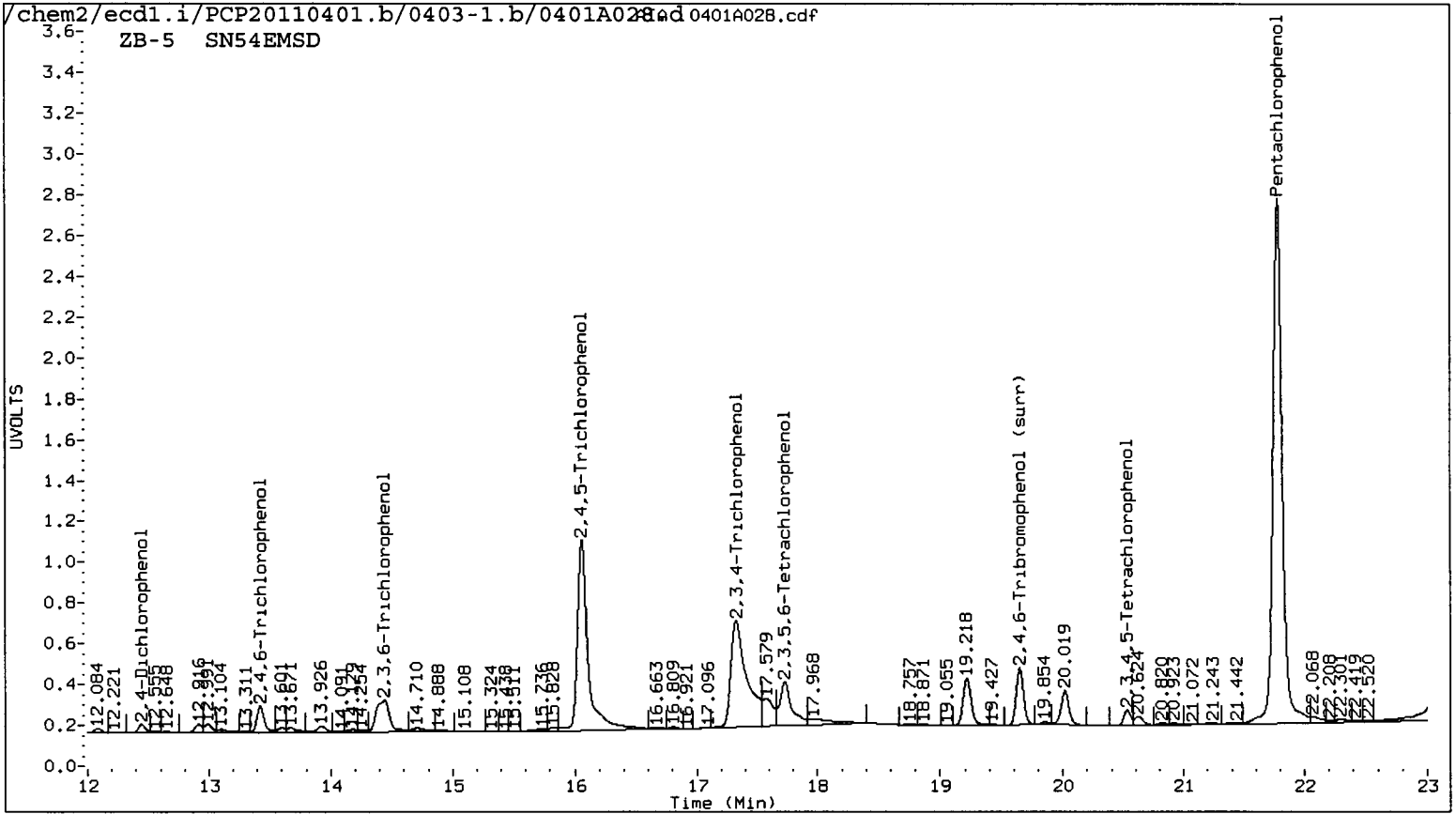
YZ 4/17/11

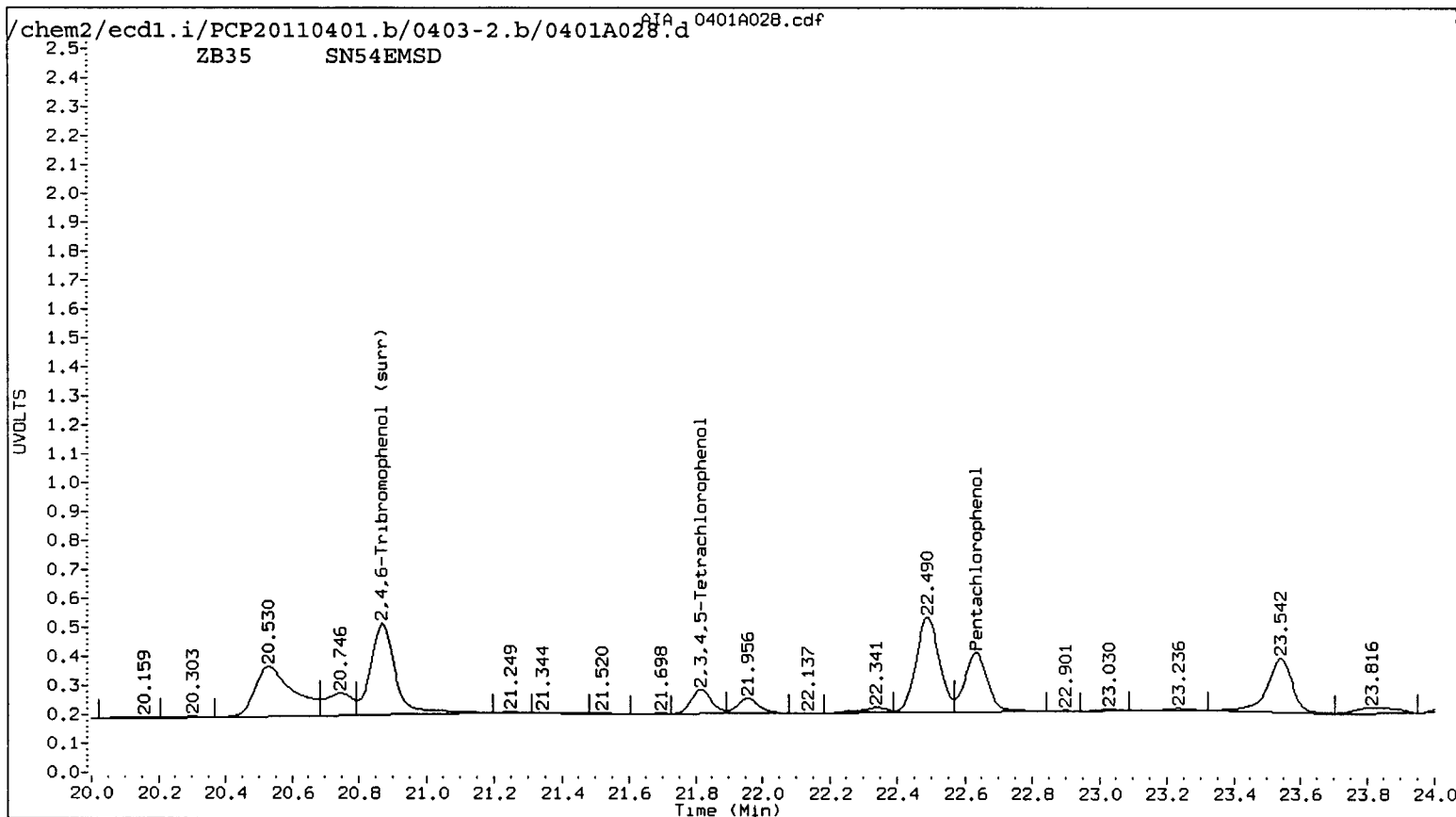
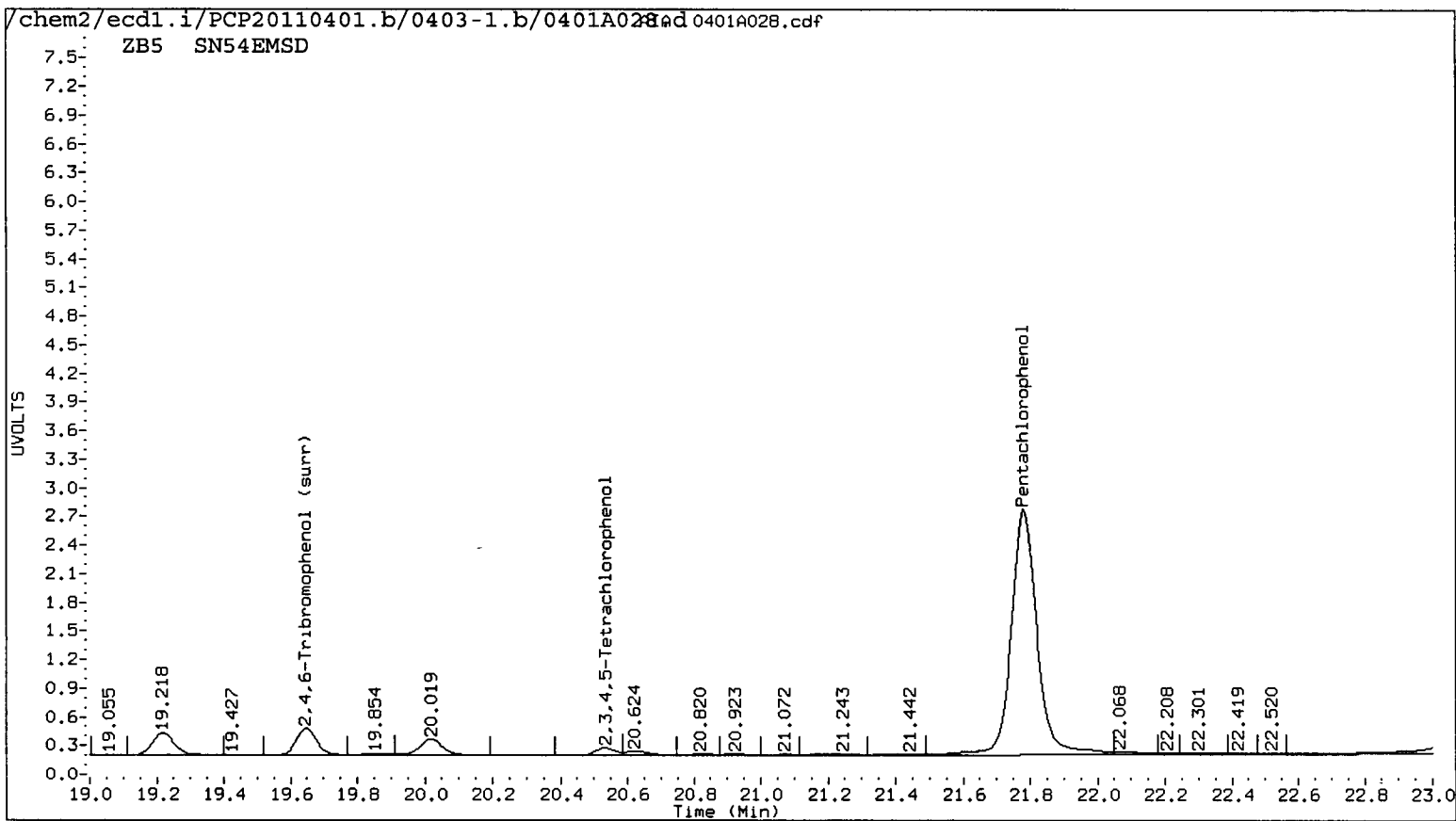
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A028.d ARI ID: SN54EMSD  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403-2.b/0401A028.d Client ID: LL-SED2-56-112- MSD  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 07:27  
 Compound Sublist: all Report Date: 04/07/2011 13:40  
 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		
21.781	-0.012	6890528	22.633	0.002	478322	268.4501	17.4743	175.6*	Pentachlorophenol
13.423	0.014	274711	13.788	0.011	290699	20.5302	17.9433	13.4	2,4,6-Trichlorophenol
14.440	0.064	592854	15.195	0.012	243761	40.5662	16.3077	85.3*	2,3,6-Trichlorophenol
16.058	-0.026	2838544	17.157	0.006	167561	368.1086	20.8469	178.6*	2,4,5-Trichlorophenol
17.326	-0.020	2396207	18.718	-0.007	146035	544.9102	14.7119	189.5*	2,3,4-Trichlorophenol
17.730	0.010	732902	18.418	0.007	427747	31.5986	18.5291	52.1*	2,3,5,6-Tetrachlorophenol
20.532	-0.013	157368	21.816	-0.003	178271	9.6187	11.0135	13.5	2,3,4,5-Tetrachlorophenol
12.445	0.013	86400	13.439	0.009	194252	103.9098	233.2494	76.7*	2,4-Dichlorophenol
19.648	-0.004	581051	20.870	0.000	802546	27.0	37.6	32.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	1073.8	69.9
2,4,6-Trichlorophenol	82.1	71.8
2,3,6-Trichlorophenol	162.3	65.2
2,4,5-Trichlorophenol	1472.4	83.4
2,3,4-Trichlorophenol	2179.6	58.8
2,3,5,6-Tetrachlorophenol	126.4	74.1
2,3,4,5-Tetrachlorophenol	38.5	44.1
2,4-Dichlorophenol	41.6	93.3
2,4,6-TBP (surr)	54.0	75.2





Data File: /chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A028.d

Date: 07-APR-2011 07:27

Client ID: LL-SED2-56-112- HSD

Sample Info: SNE4EHSD

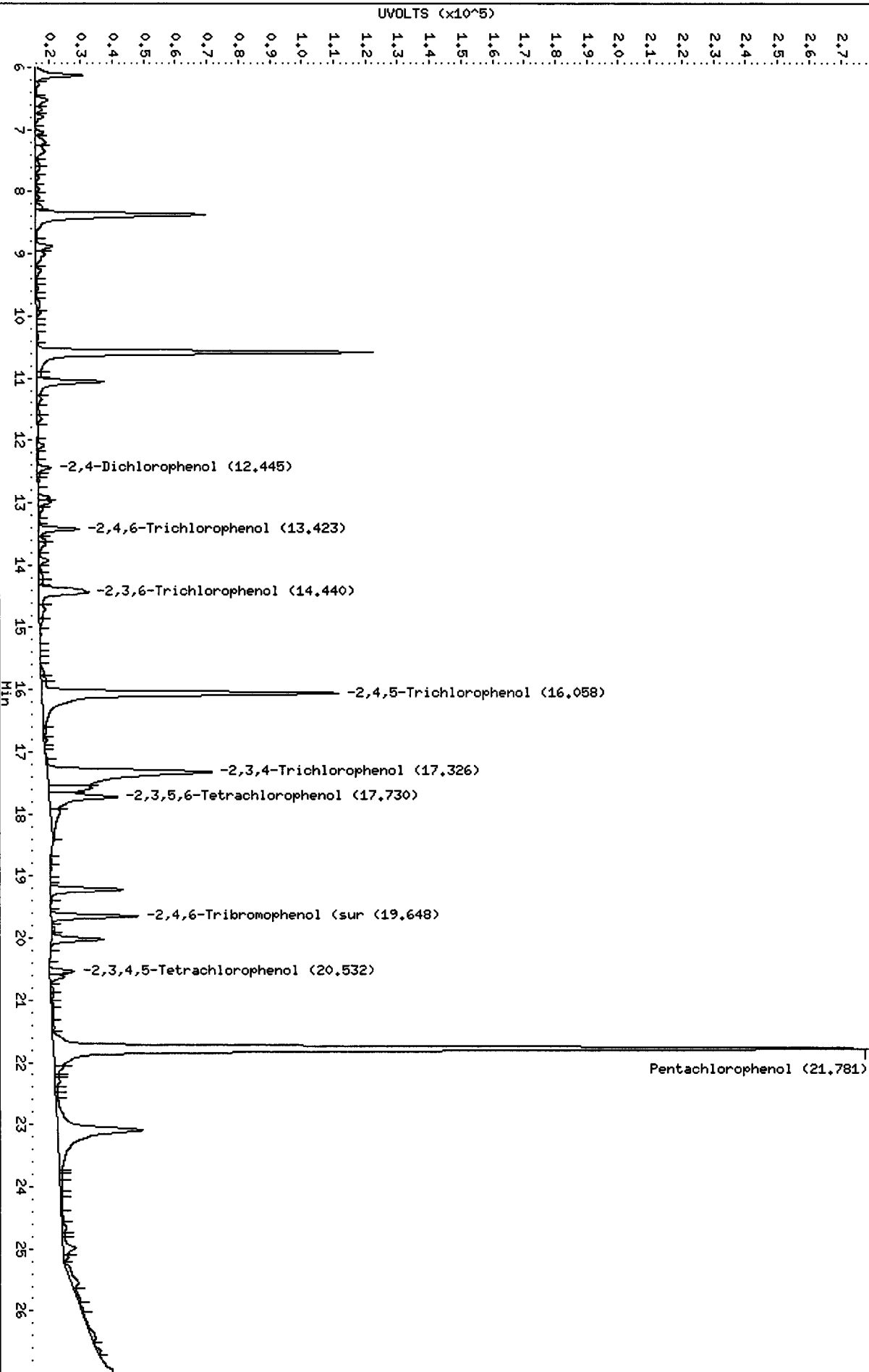
Column phase: ZB5

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

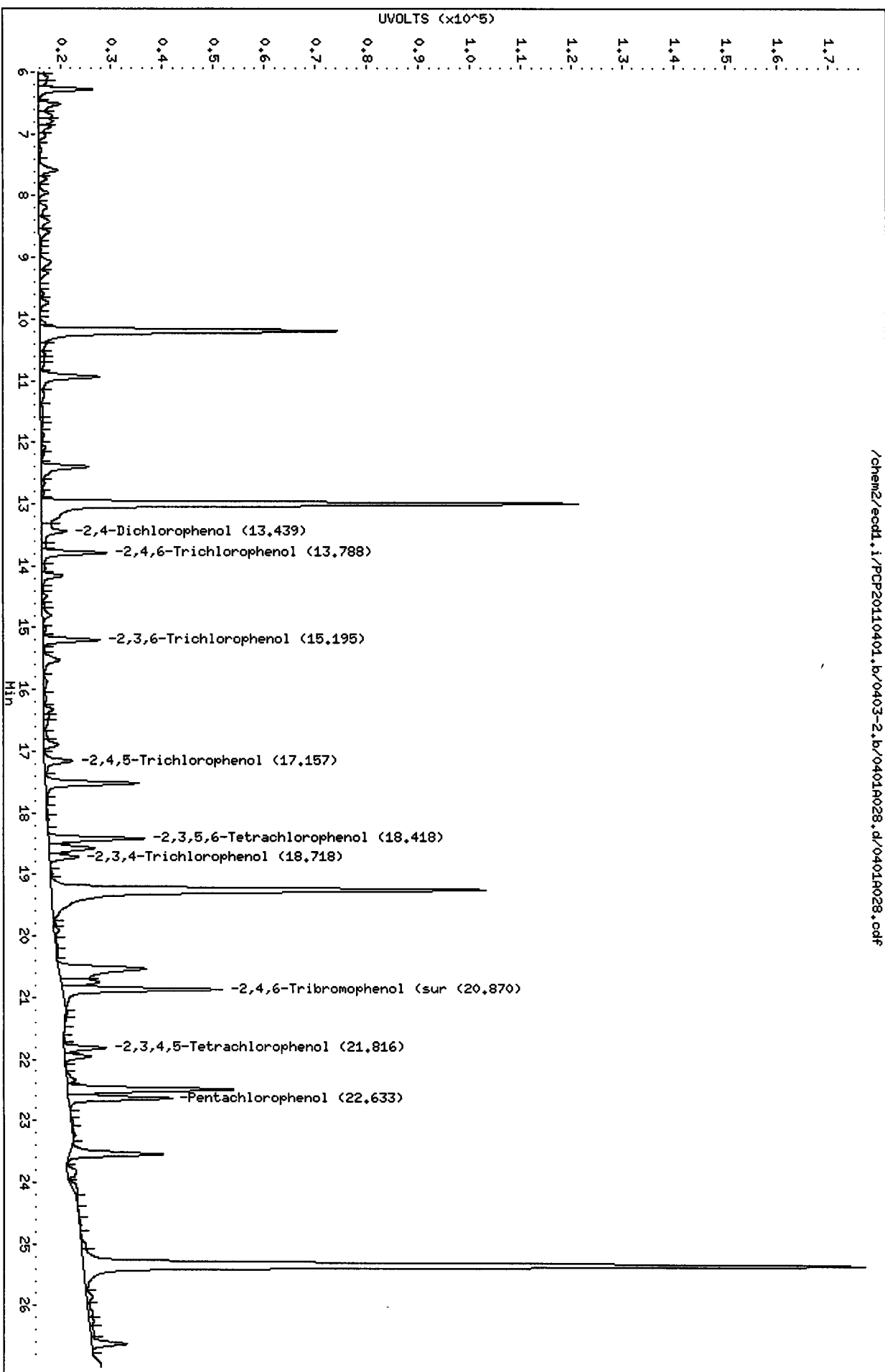
/chem2/ecdl.i/PCP20110401.b/0403-1.b/0401A028.d/0401A028.cdf



Data File: /chem2/eod1.i/PCP20110401.b/0403-2.b/0401A028.d  
Date: 07-APR-2011 07:27  
Client ID:  
Sample Info: SNE4EHSJ  
Purge Volume: 500.0  
Column phase: ZB35

Instrument: eod1.i  
Operator: ar  
Column diameter: 0.53

/chem2/eod1.i/PCP20110401.b/0403-2.b/0401A028.d/0401A028.cdf



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A002.d ARI ID: PCP CCAL  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A002.d Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 09:44  
 Compound Sublist: all Report Date: 04/07/2011 13:57  
 Instrument: ecdl.i Matrix: NONE  
 Operator: ar Dilution Factor: 1.000

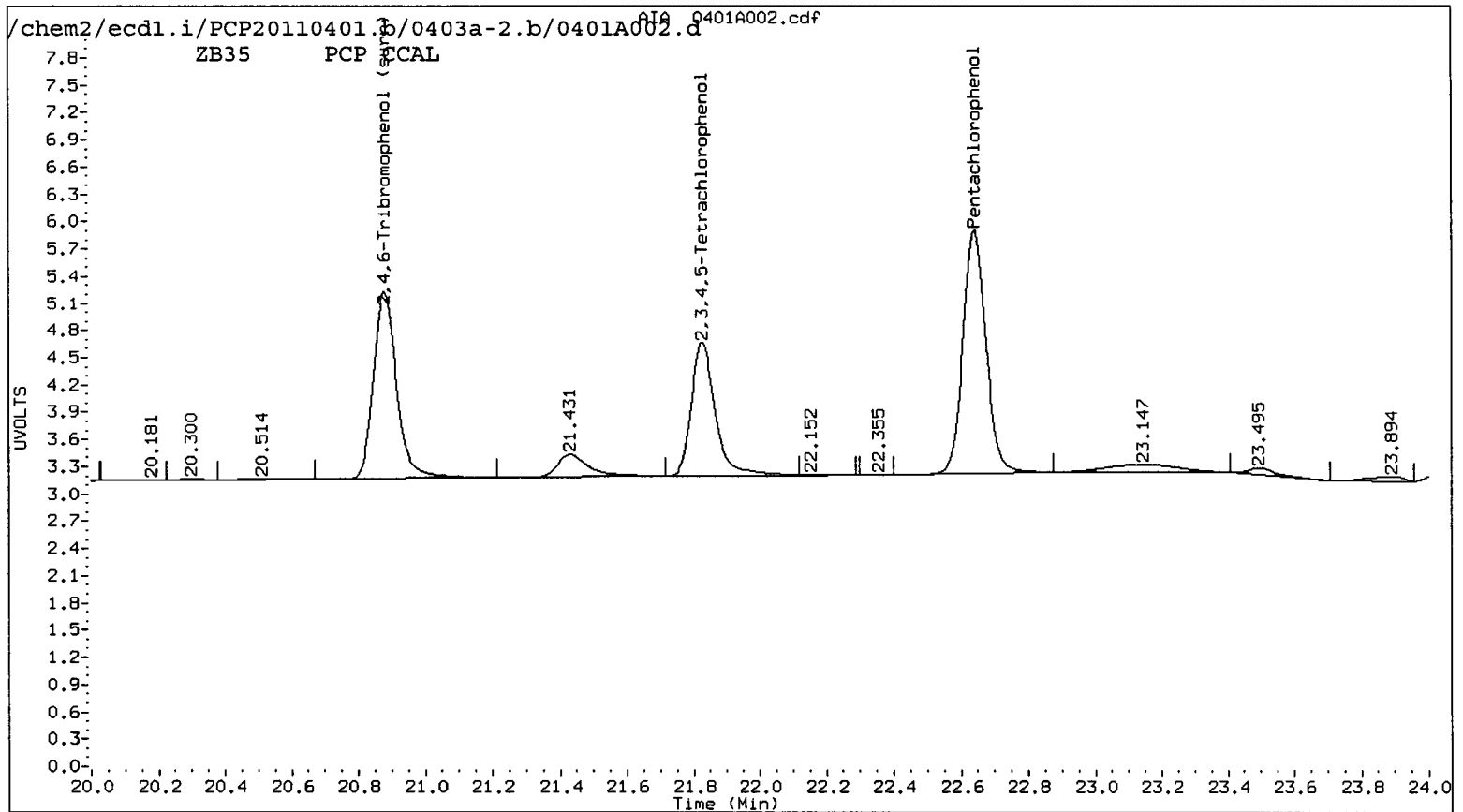
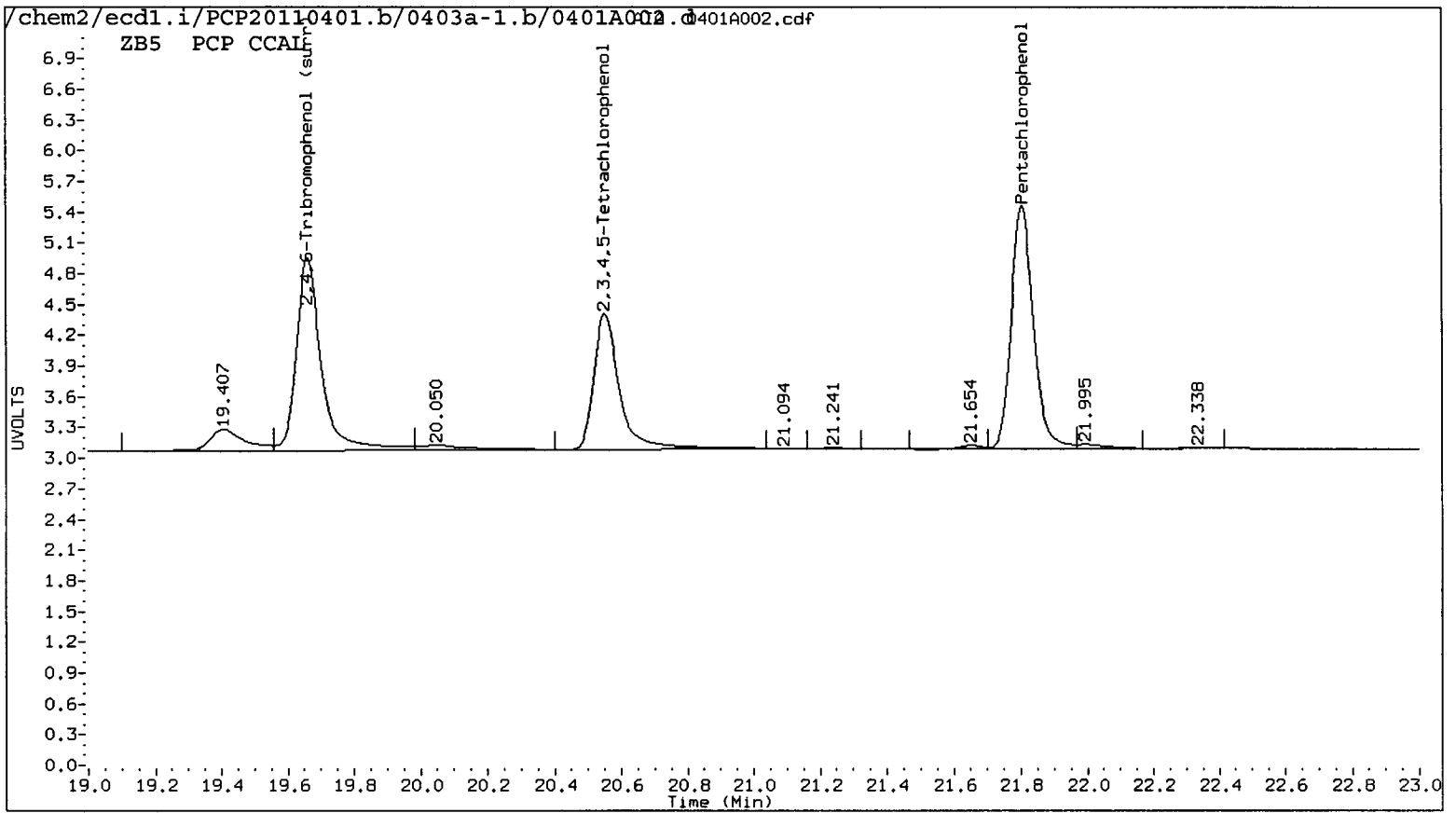
YZ 4/7/11

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.805	0.012	549223	22.641	0.009	636471	21.3973	23.2519	8.3	Pentachlorophenol
13.425	0.016	375575	13.789	0.012	391101	28.0682	24.1405	15.0	2,4,6-Trichlorophenol
14.392	0.016	341167	15.196	0.013	352411	23.3445	23.5764	1.0	2,3,6-Trichlorophenol
16.093	0.009	189152	17.160	0.010	188215	24.5296	23.4166	4.6	2,4,5-Trichlorophenol
17.349	0.003	237318	18.730	0.005	236899	21.1365	23.8658	12.1	2,3,4-Trichlorophenol
17.733	0.013	520266	18.422	0.011	544086	22.4309	23.5687	4.9	2,3,5,6-Tetrachlorophenol
20.552	0.007	363475	21.827	0.008	369894	22.2164	22.8520	2.8	2,3,4,5-Tetrachlorophenol
12.445	0.013	202980	13.441	0.012	196497	266.3594	235.9451	12.1	2,4-Dichlorophenol
19.661	0.009	495100	20.879	0.009	496152	23.0	23.3	1.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	85.6	93.0
2,4,6-Trichlorophenol	112.3	96.6
2,3,6-Trichlorophenol	93.4	94.3
2,4,5-Trichlorophenol	98.1	93.7
2,3,4-Trichlorophenol	84.5	95.5
2,3,5,6-Tetrachlorophenol	89.7	94.3
2,3,4,5-Tetrachlorophenol	88.9	91.4
2,4-Dichlorophenol	106.5	94.4
2,4,6-TBP (surr)	92.1	93.0





SN54 : 00564

Data File: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A002.d

Date : 07-APR-2011 09:44

Client ID:

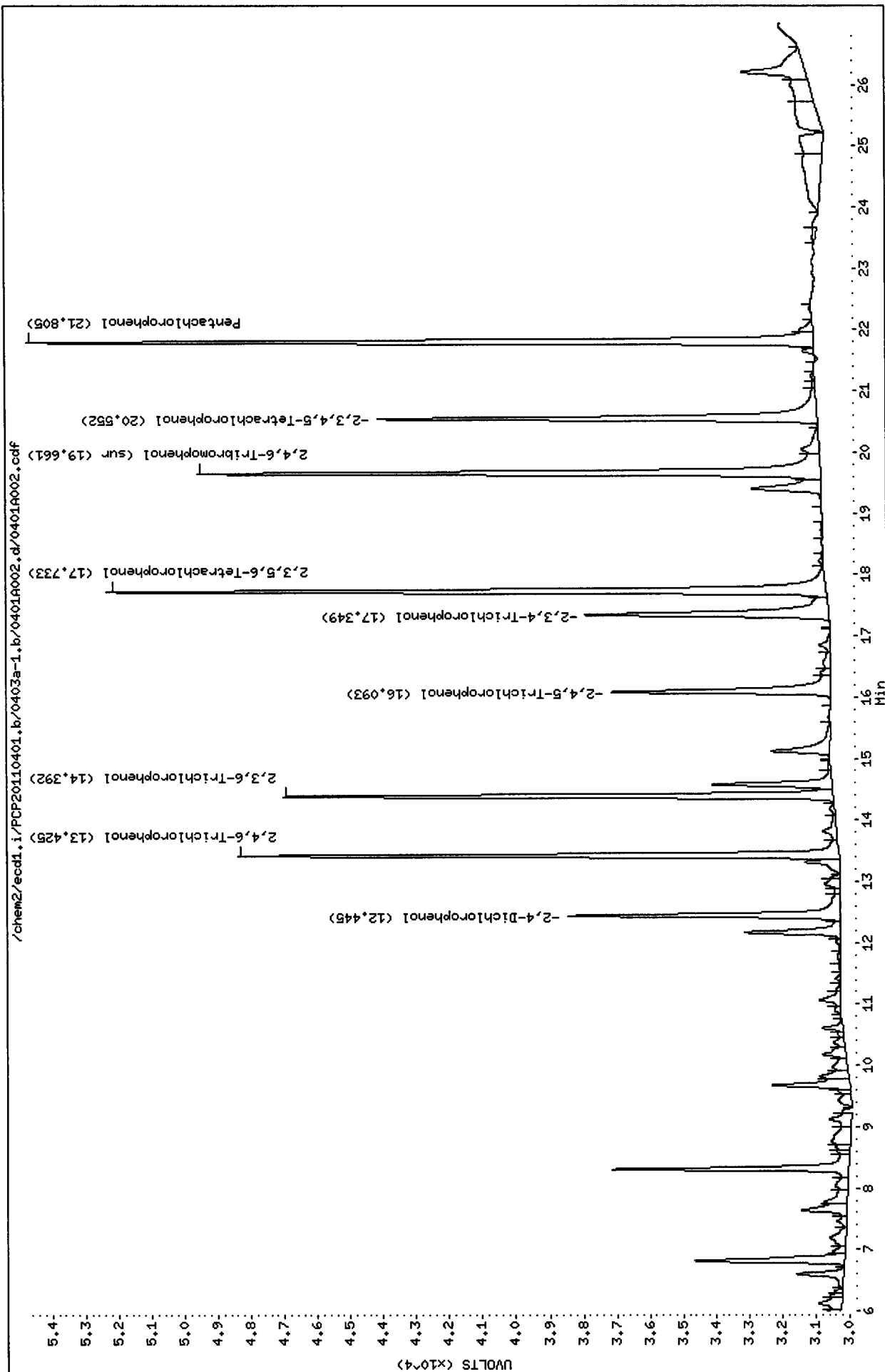
Sample Info: PCP CCAL

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB5



Data File: /chem2/ecd1.i/PCP20110401.b/0403a-2.b/0401A002.d

Date : 07-APR-2011 09:44

Client ID:

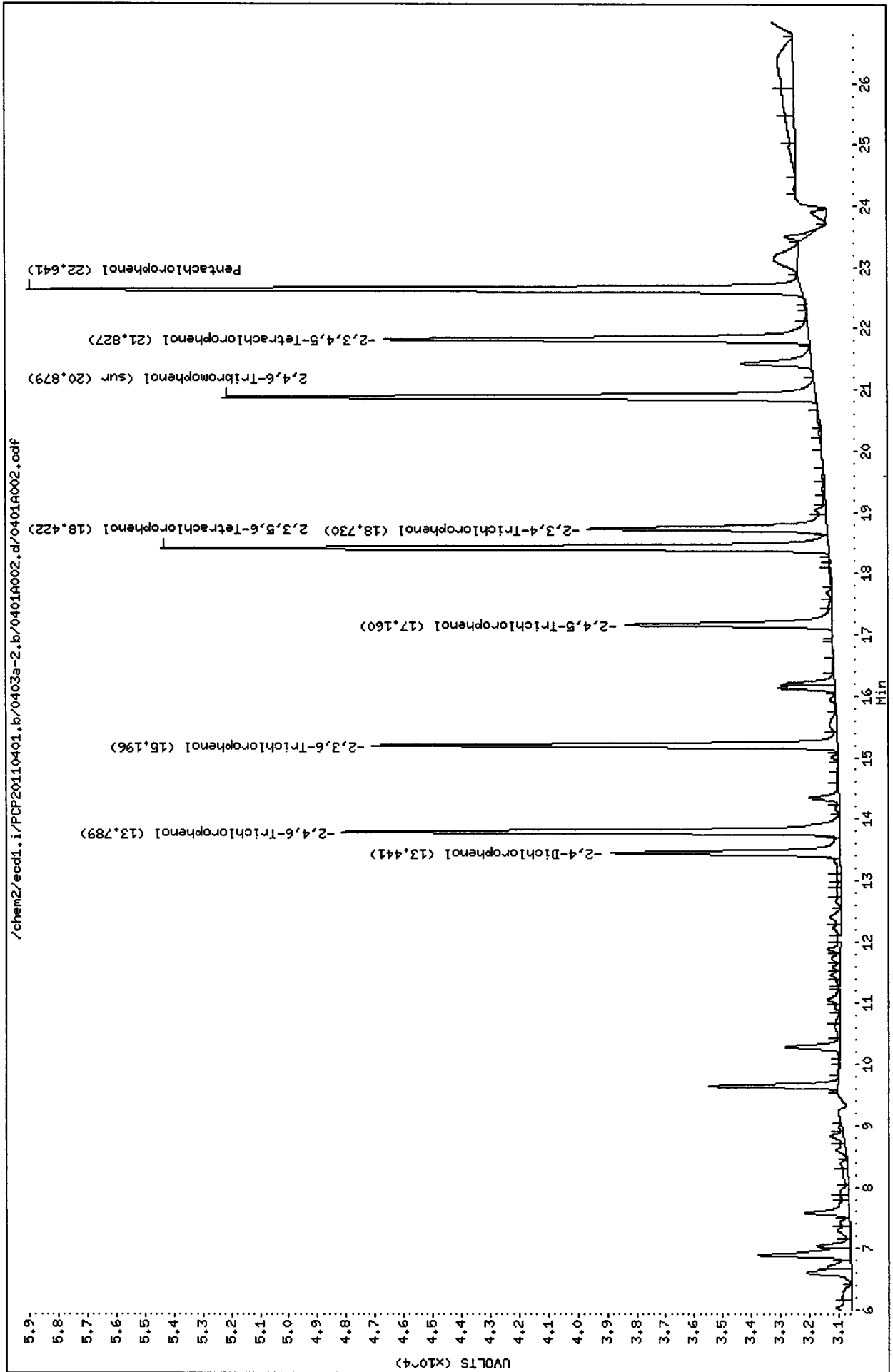
Sample Info: PCP CCAL

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35



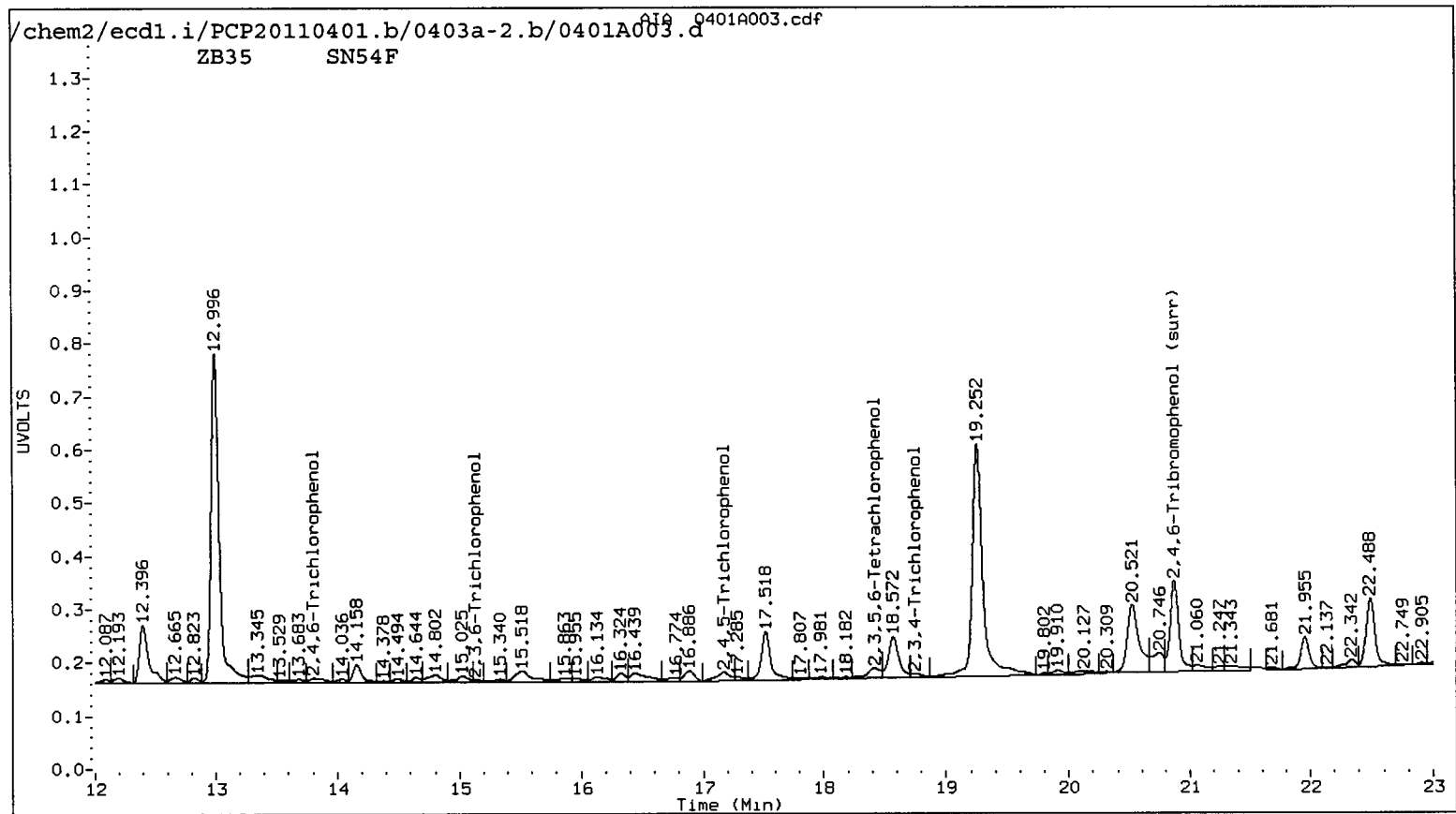
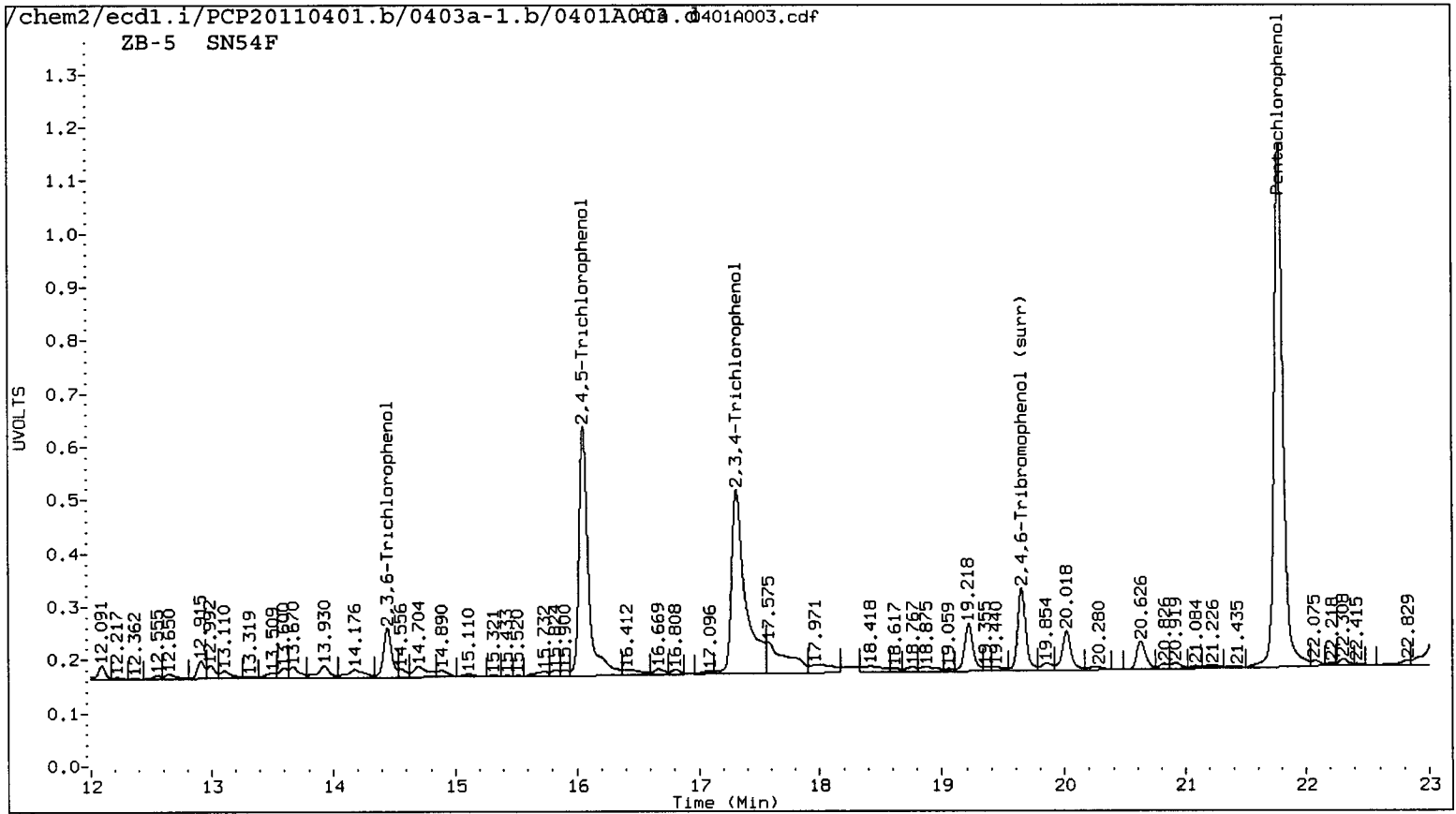
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

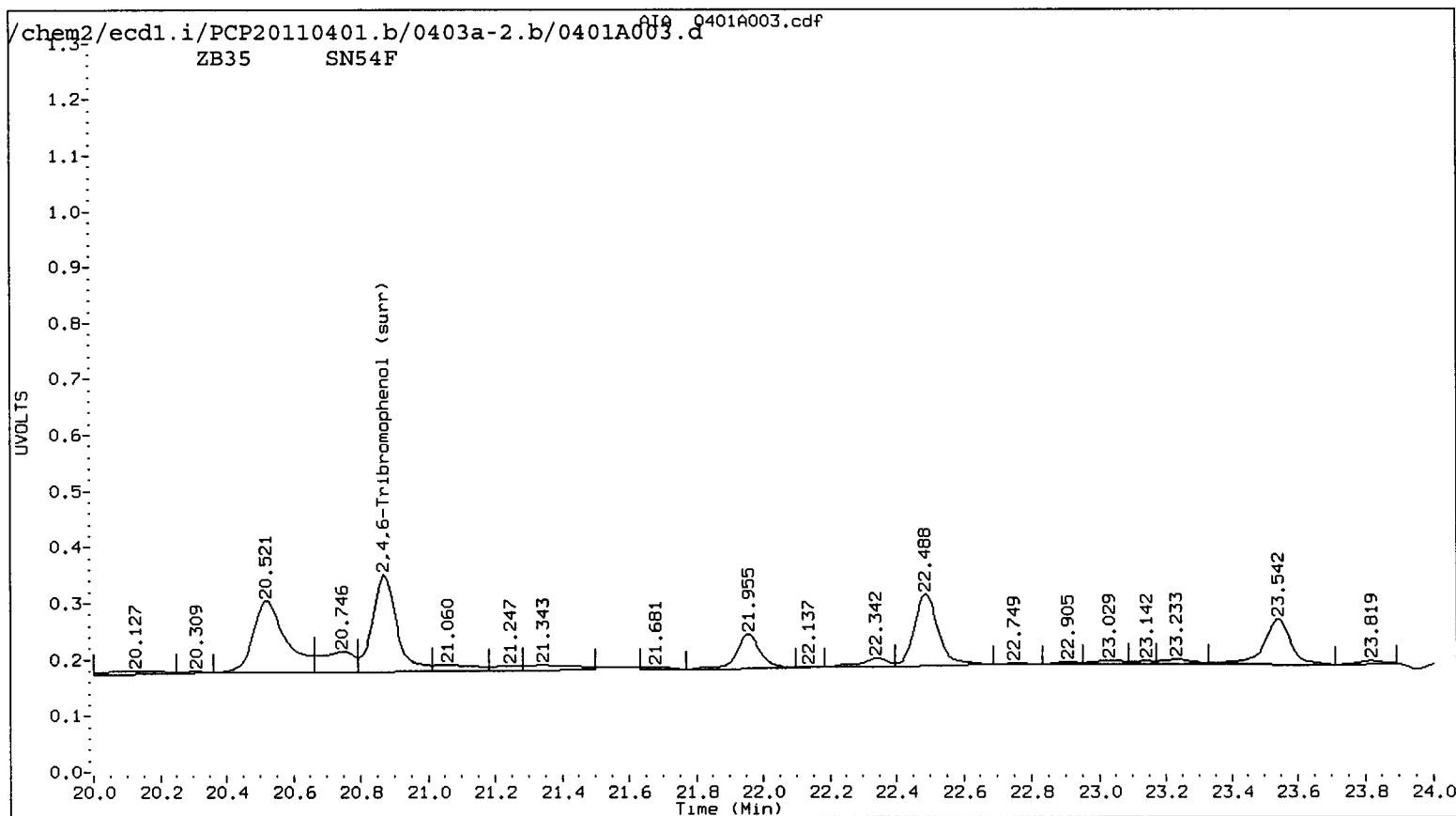
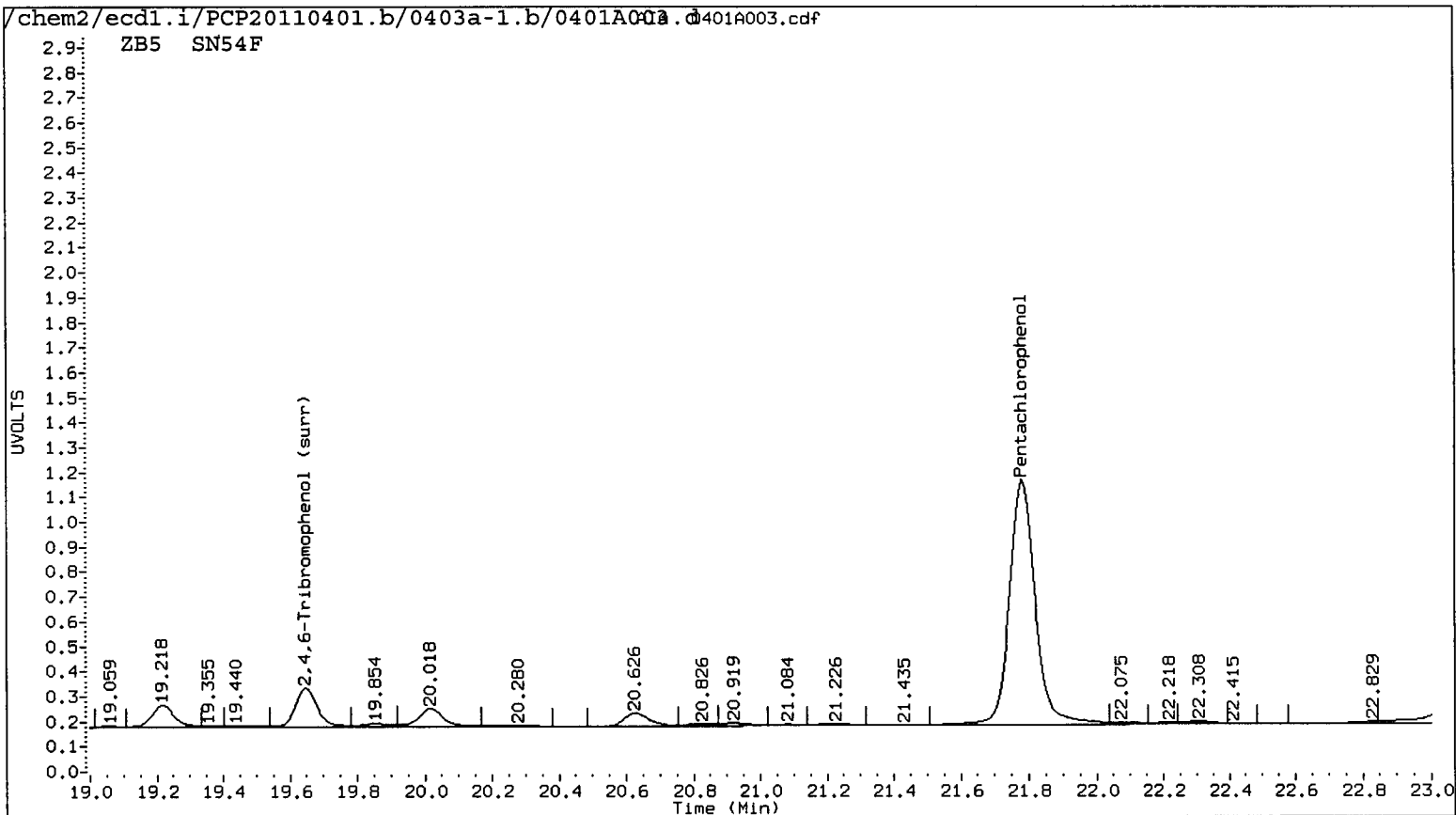
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A003.d ARI ID: SN54F YZ 4/7/11  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A003.d Client ID: LL-SED2-112-168-031  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 10:20  
 Compound Sublist: all Report Date: 04/07/2011 13:57  
 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		
21.781	-0.012	2583226	----			<del>100.6407</del>	<del>0.0000</del>	---	Pentachlorophenol
----			13.808	0.031	33113	0.0000	2.0439	---	2,4,6-Trichlorophenol
14.445	0.069	218518	15.132	-0.051	9006	14.9522	0.6025	184.5*	2,3,6-Trichlorophenol
16.054	-0.030	1270850	17.171	0.021	65956	164.8066	8.2058	181.0*	2,4,5-Trichlorophenol
17.311	-0.035	1389205	18.748	0.023	22696	226.2691	2.2864	196.0*	2,3,4-Trichlorophenol
----			18.416	0.005	70235	0.0000	3.0424	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.648	-0.004	360394	20.871	0.000	428540	16.8	20.1	18.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	67.0	80.4





SN54 : 00569

Data File: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A003.d

Date : 07-APR-2011 10:20

Client ID: LL-SED2-112-168-031

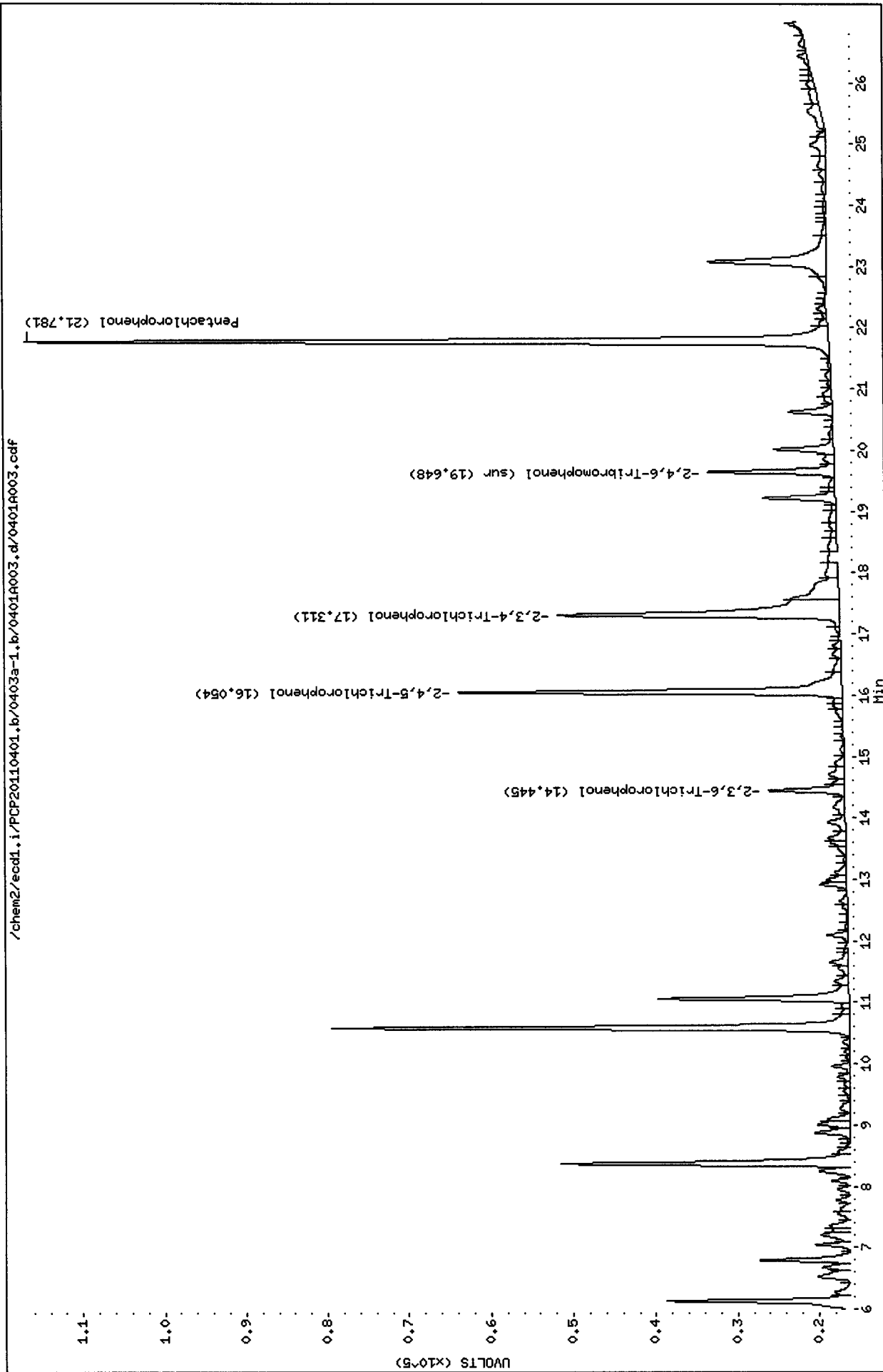
Sample Info: SN54F

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB5



Data File: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A003.d

Date : 07-APR-2011 10:20

Client ID: LL-SED2-112-168-031

Sample Info: SN54F

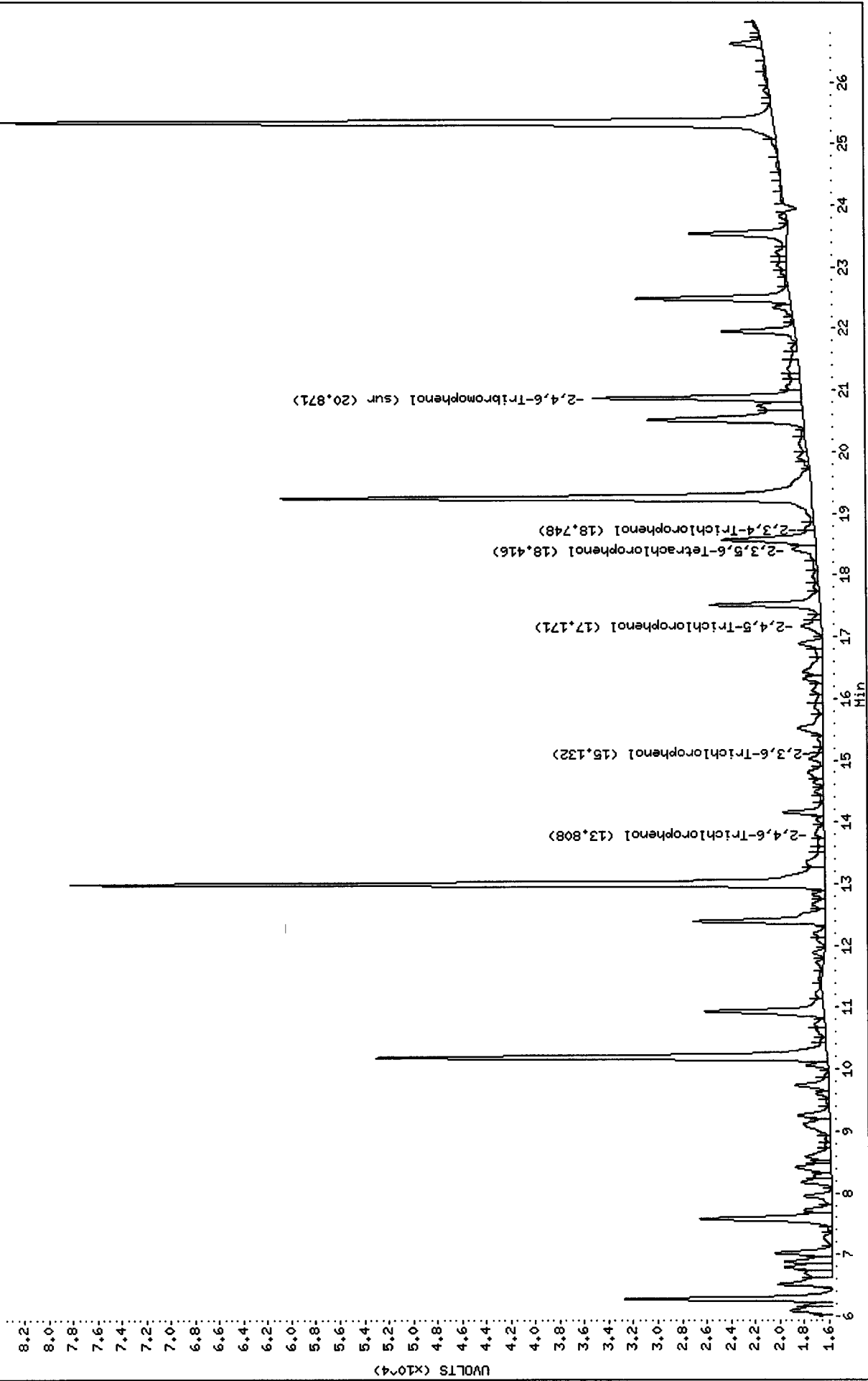
Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35

/chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A003.d/0401A003.cdf





Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

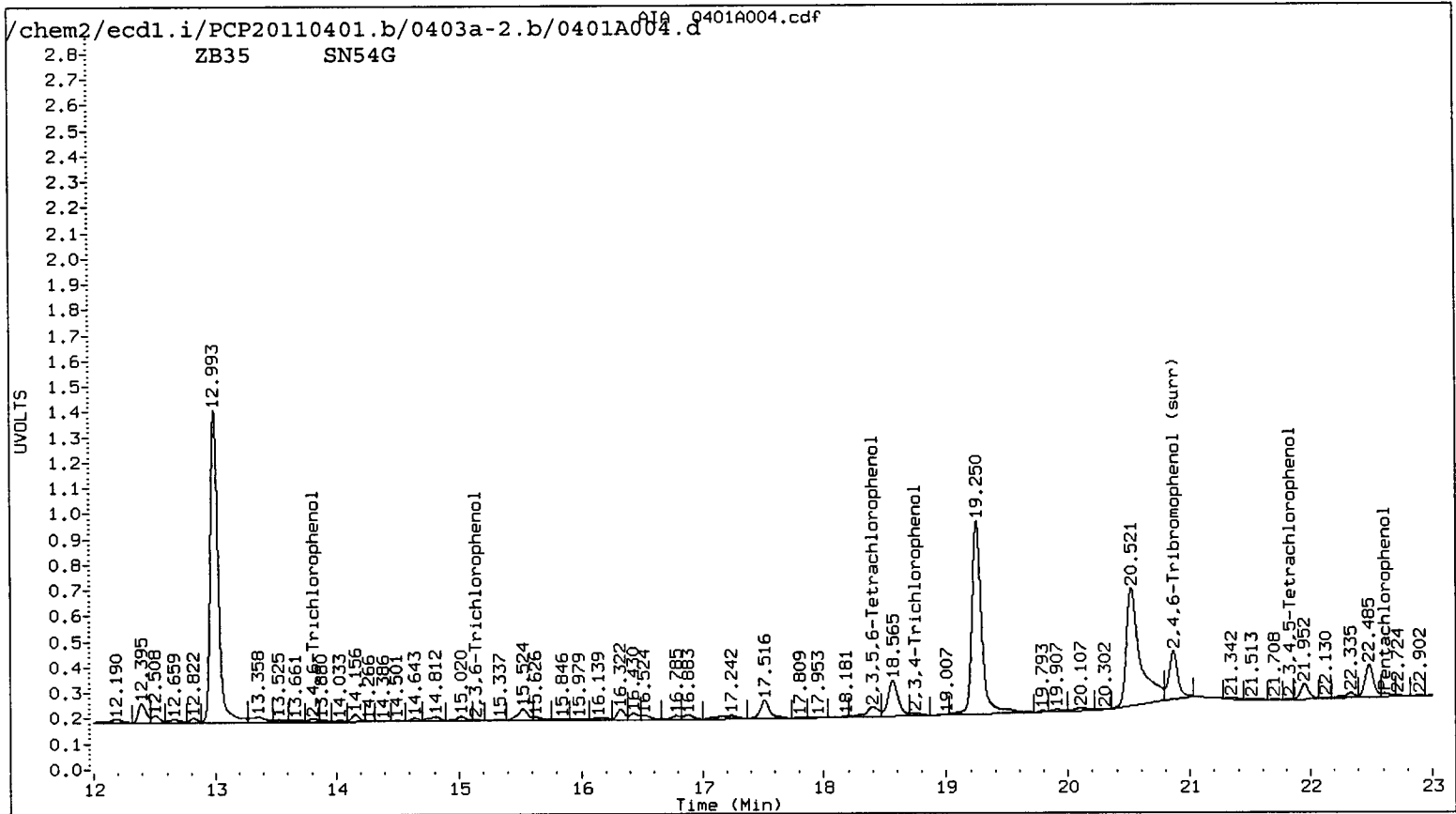
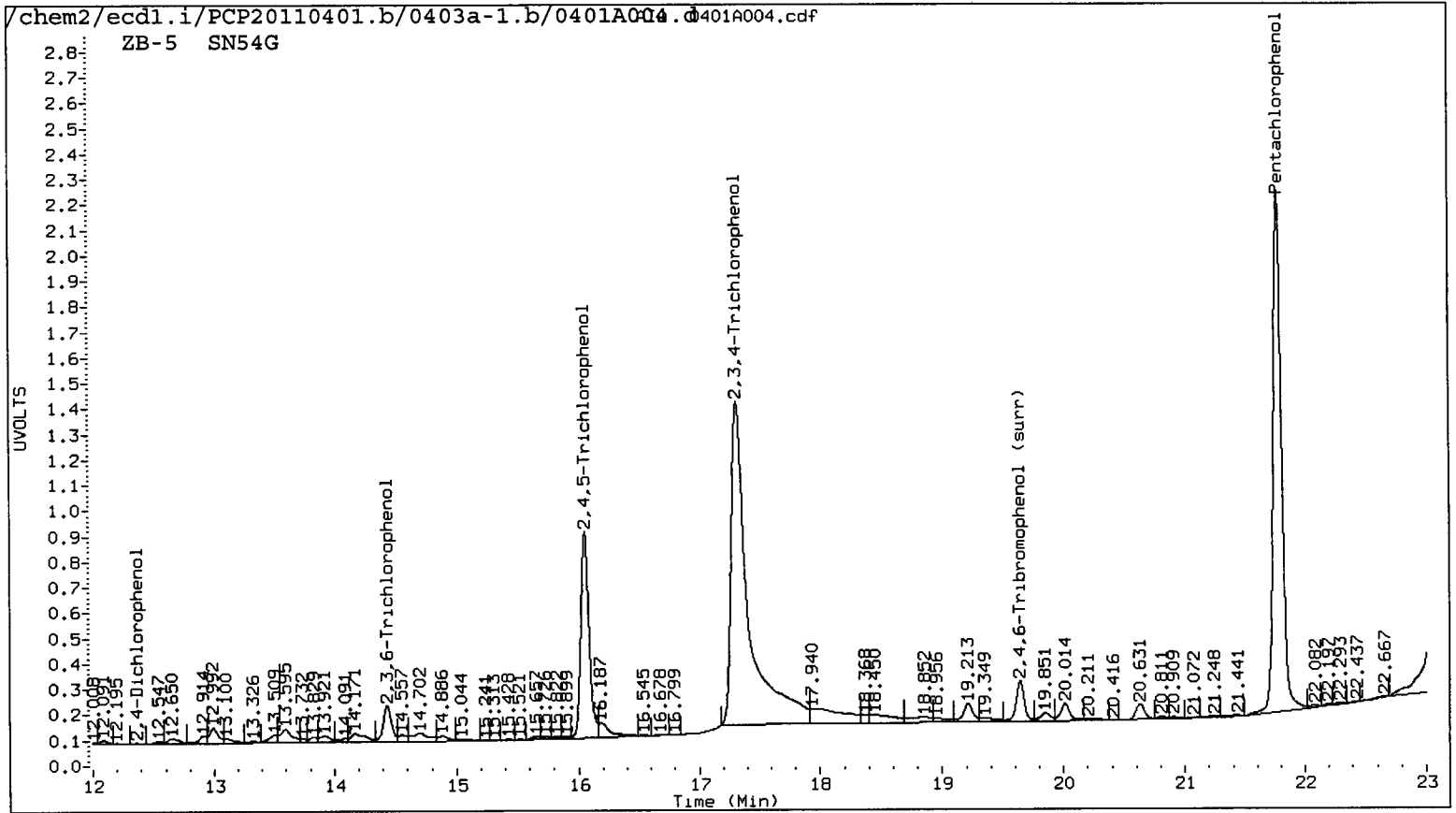
yz 4/7/11

Data file 1: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A004.d ARI ID: SN54G  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A004.d Client ID: LL-SED2-0-56-031511  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 10:56  
 Compound Sublist: all Report Date: 04/07/2011 13:57  
 Instrument: ecdl.i Matrix: SOIL  
 Operator: ar Dilution Factor: 1.000

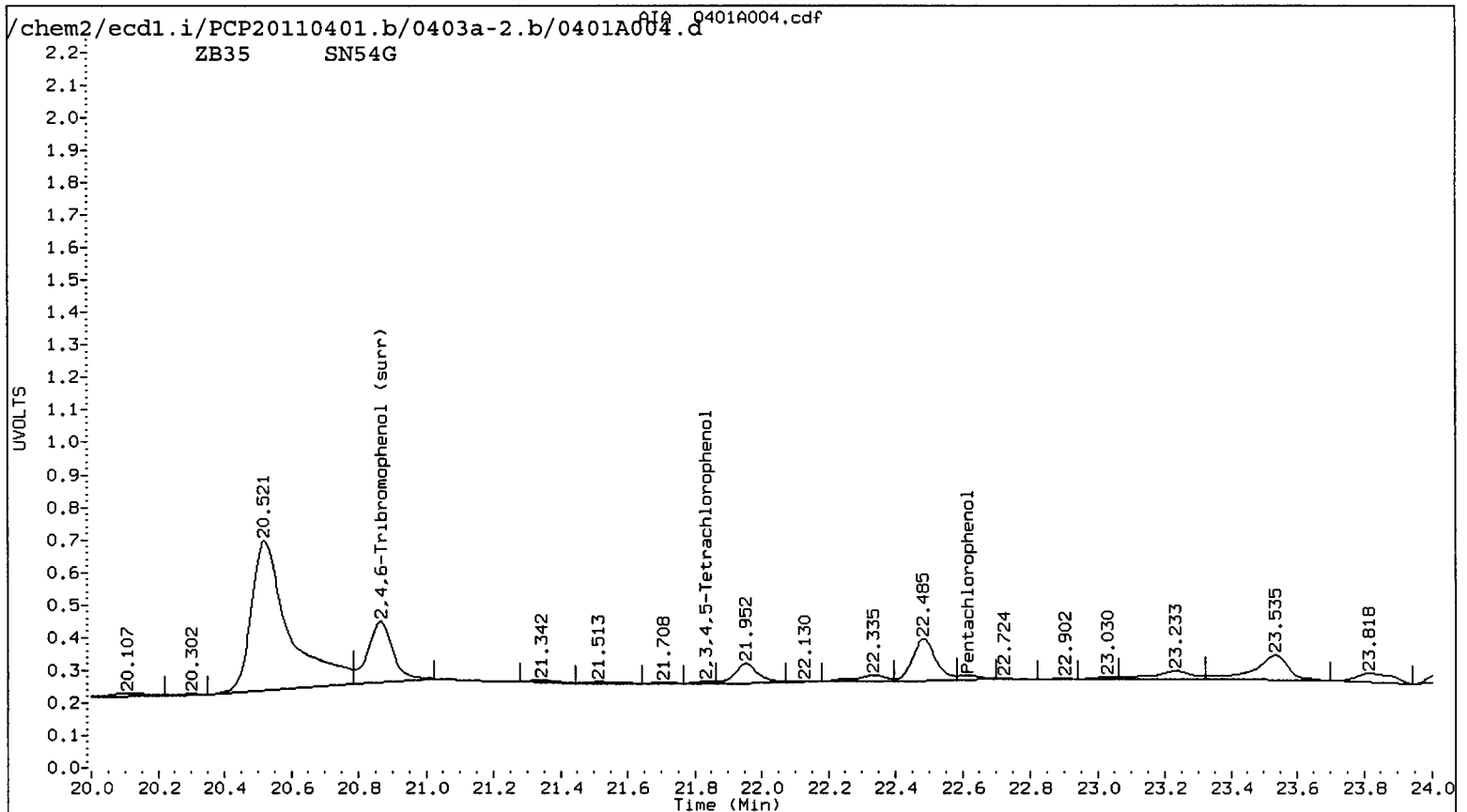
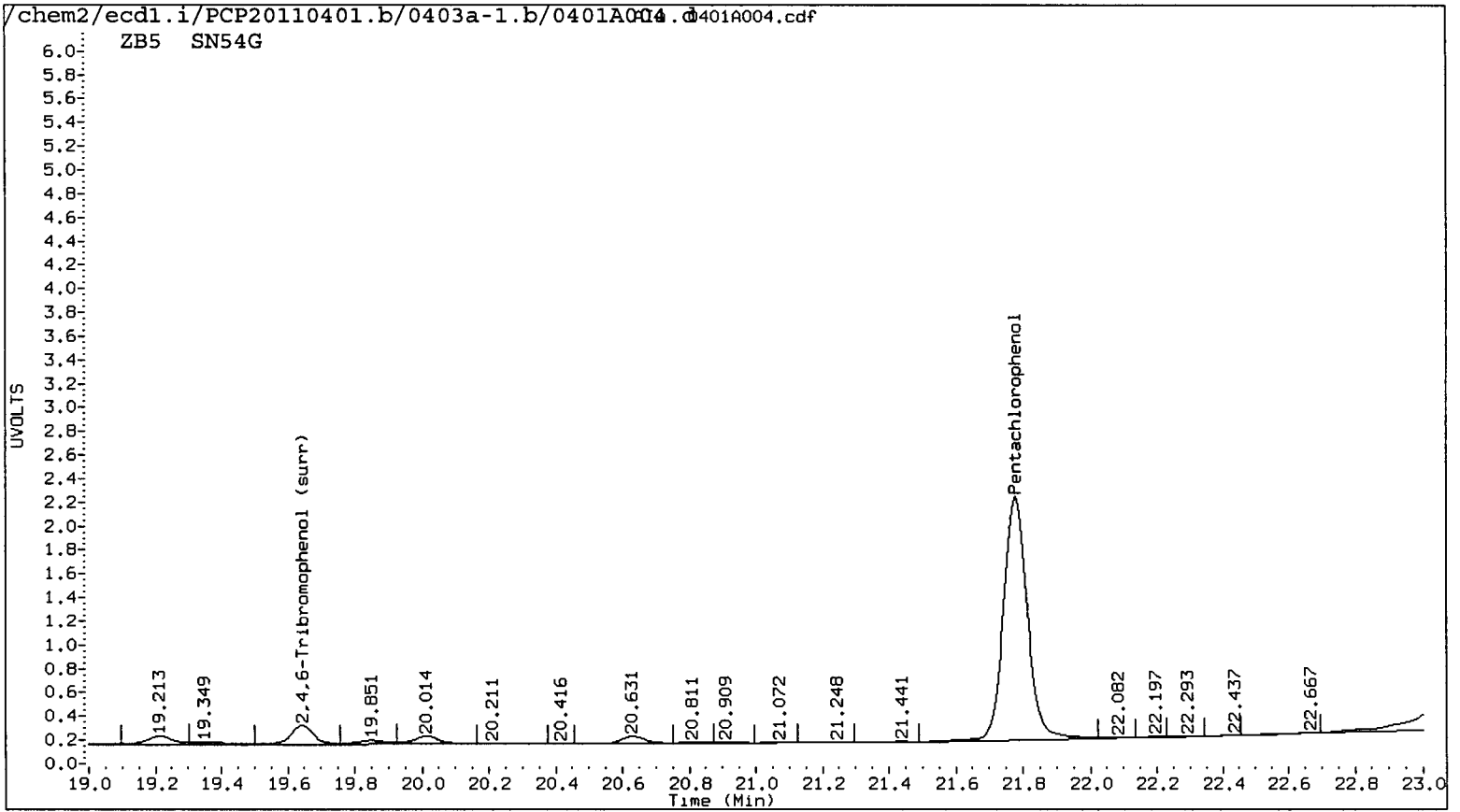
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.778	-0.015	5112956	22.617	-0.014	34535	<del>199.1972</del>	<del>1.2616</del>	197.5*	Pentachlorophenol
----			13.812	0.034	33587	0.0000	2.0731	---	2,4,6-Trichlorophenol
14.435	0.059	330906	15.136	-0.047	10379	22.6424	0.6944	188.1*	2,3,6-Trichlorophenol
16.053	-0.031	1942586	----			251.9188	0.0000	---	2,4,5-Trichlorophenol
17.314	-0.032	6316906	18.749	0.024	27749	3023.5447	2.7955	199.6*	2,3,4-Trichlorophenol
----			18.401	-0.009	131451	0.0000	5.6942	---	2,3,5,6-Tetrachlorophenol
----			21.833	0.014	10095	0.0000	0.6237	---	2,3,4,5-Tetrachlorophenol
12.366	-0.066	7092	----			8.0006	0.0000	---	2,4-Dichlorophenol
19.644	-0.008	375427	20.866	-0.005	485261	<u>17.5</u>	<u>22.7</u>	26.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	69.8	91.0



SN54 : 00573



SN54 : 00574

Data File: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A004.d

Date : 07-APR-2011 10:56

Client ID: LL-SED2-0-56-031511

Sample Info: SN54G

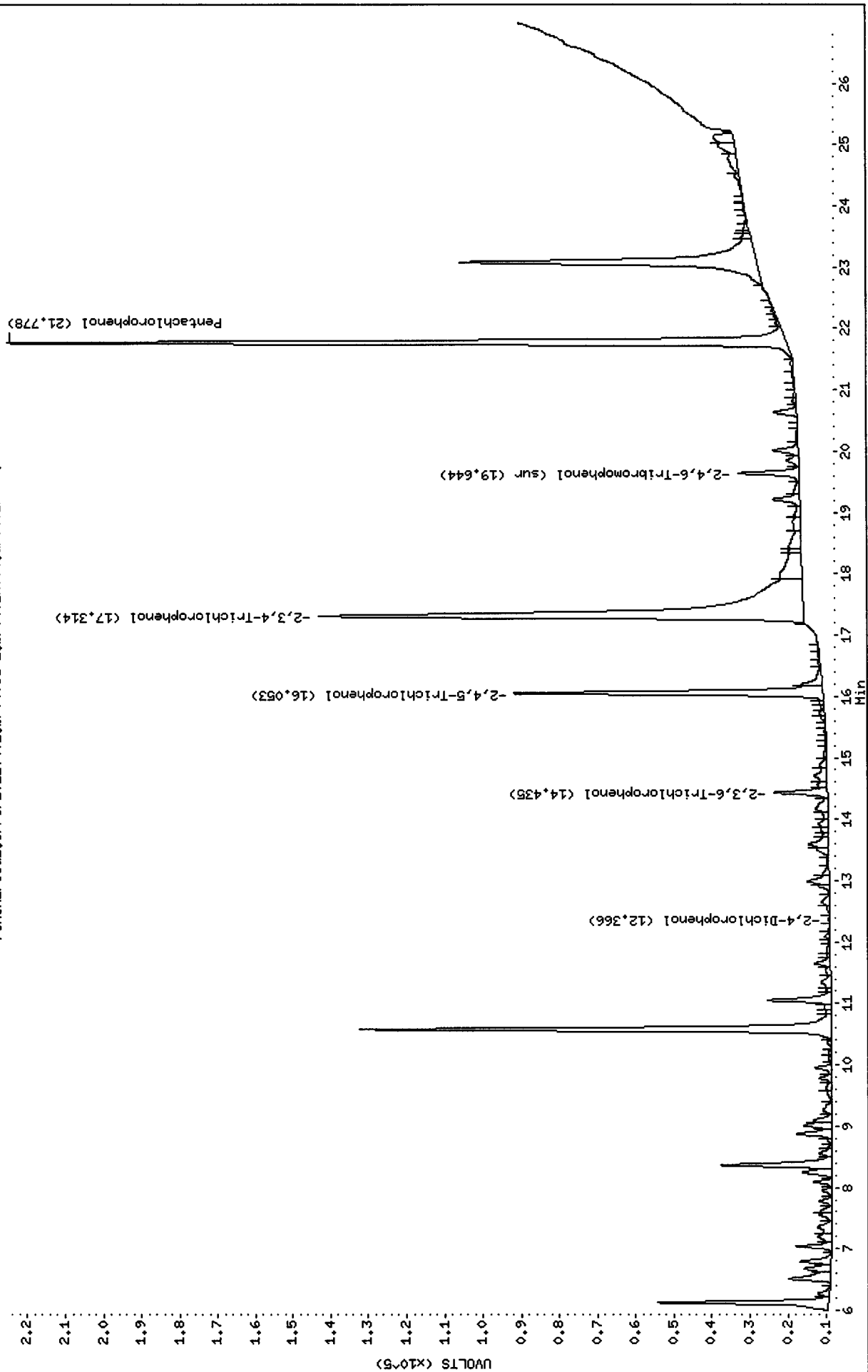
Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Column phase: ZB5

/chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A004.d/0401A004.cdf



Data File: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401R004.d

Date : 07-APR-2011 10:56

Client ID: LL-SED2-0-56-031511

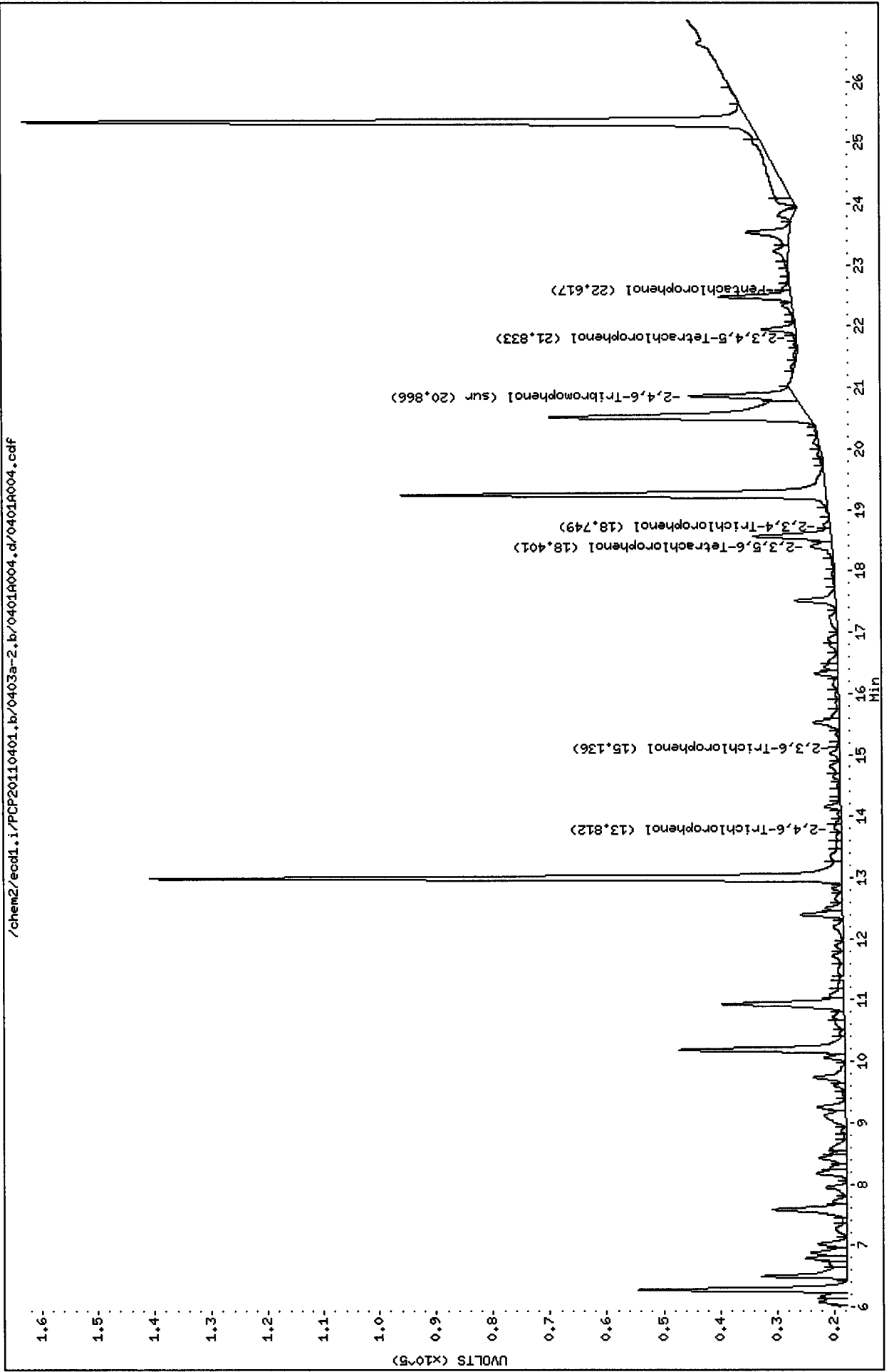
Sample Info: SN54G

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35



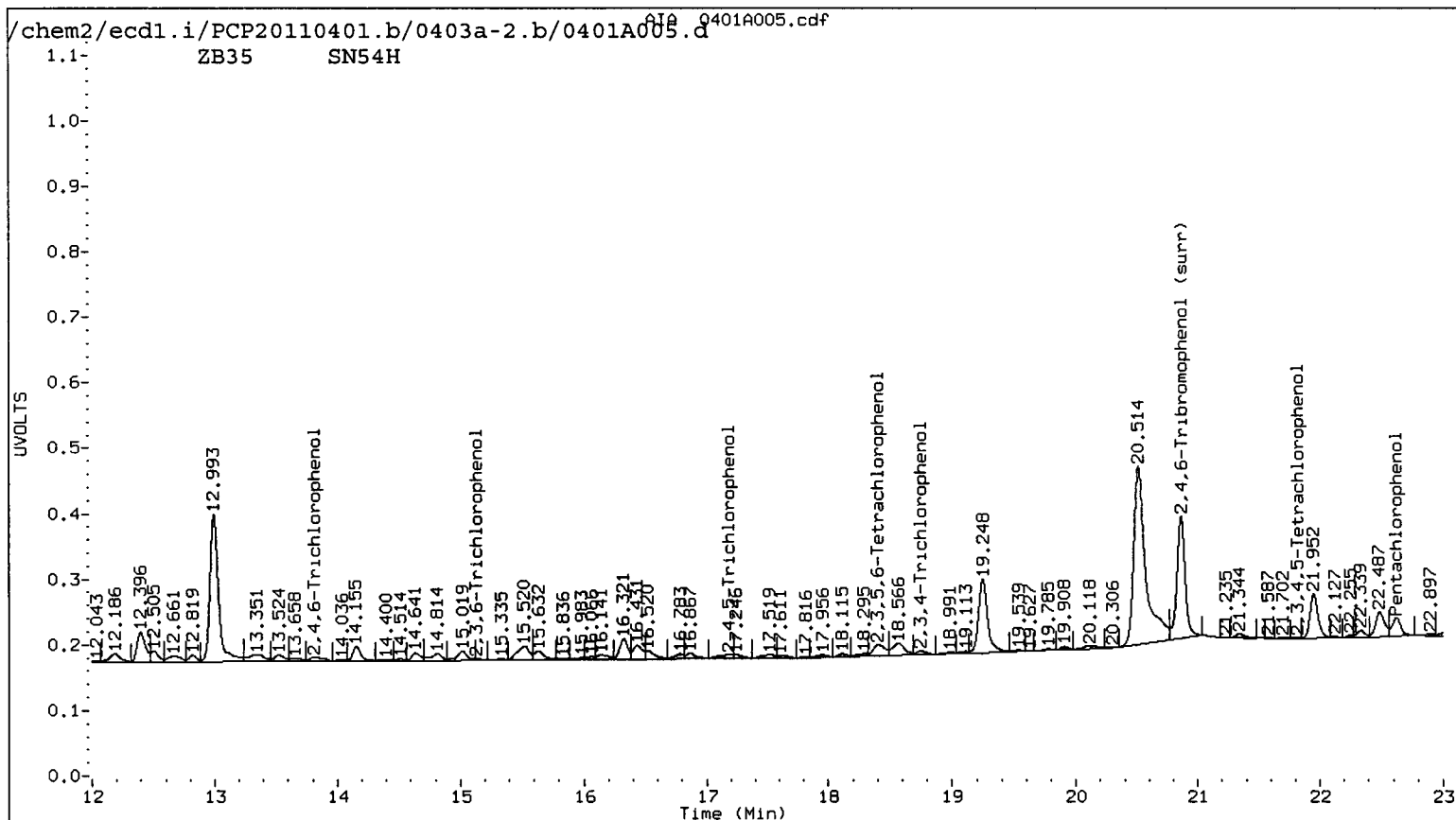
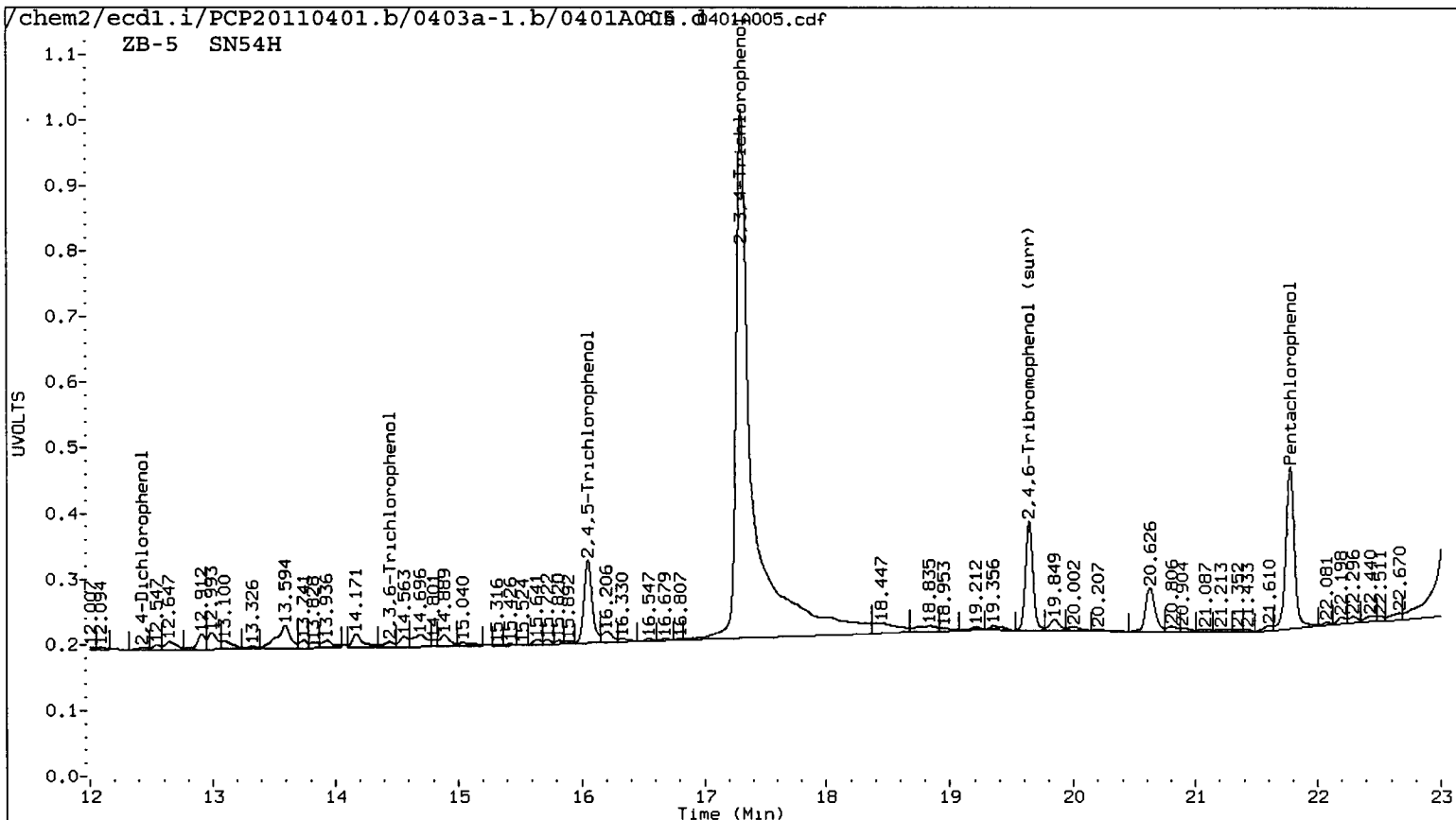
Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

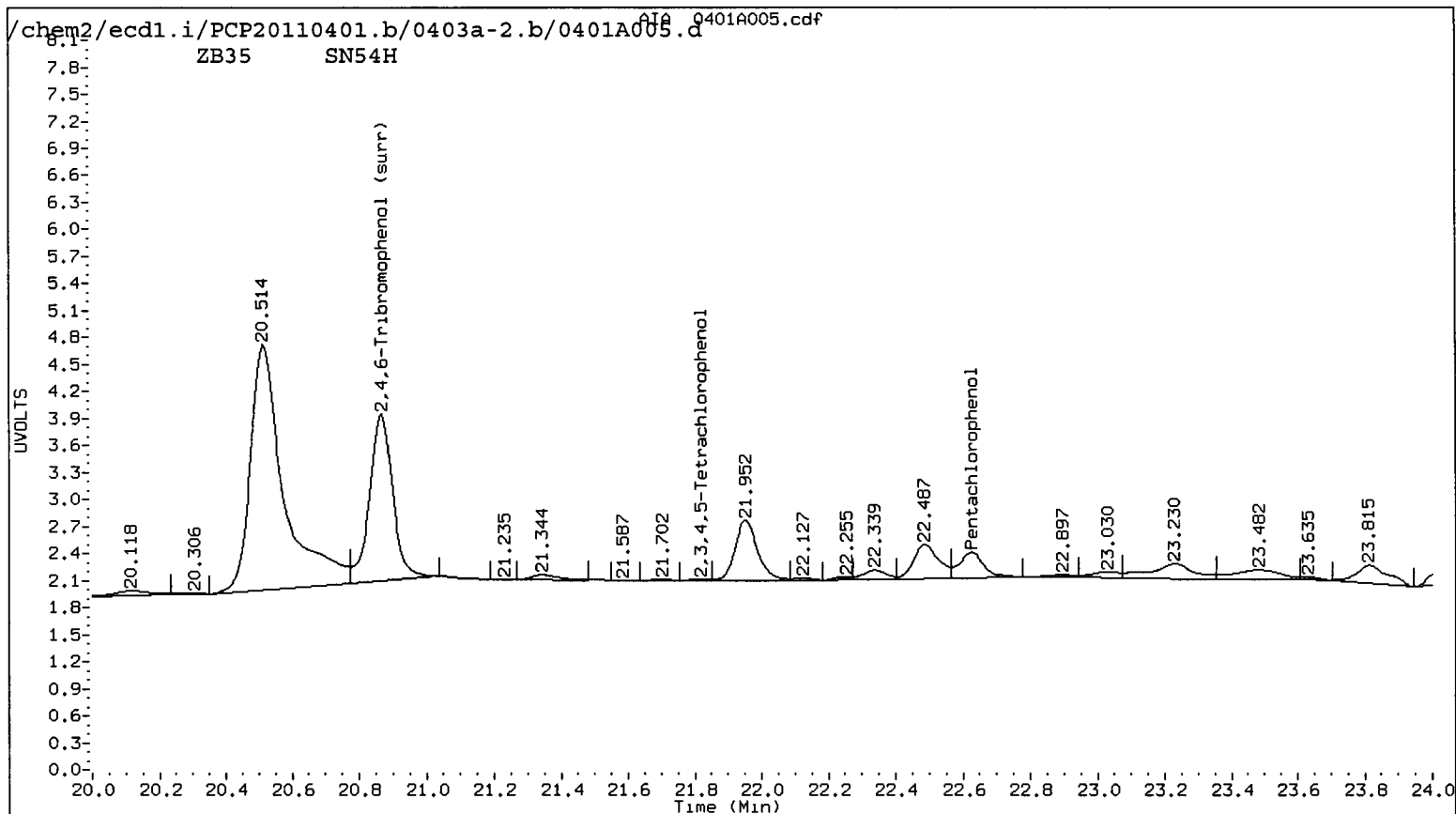
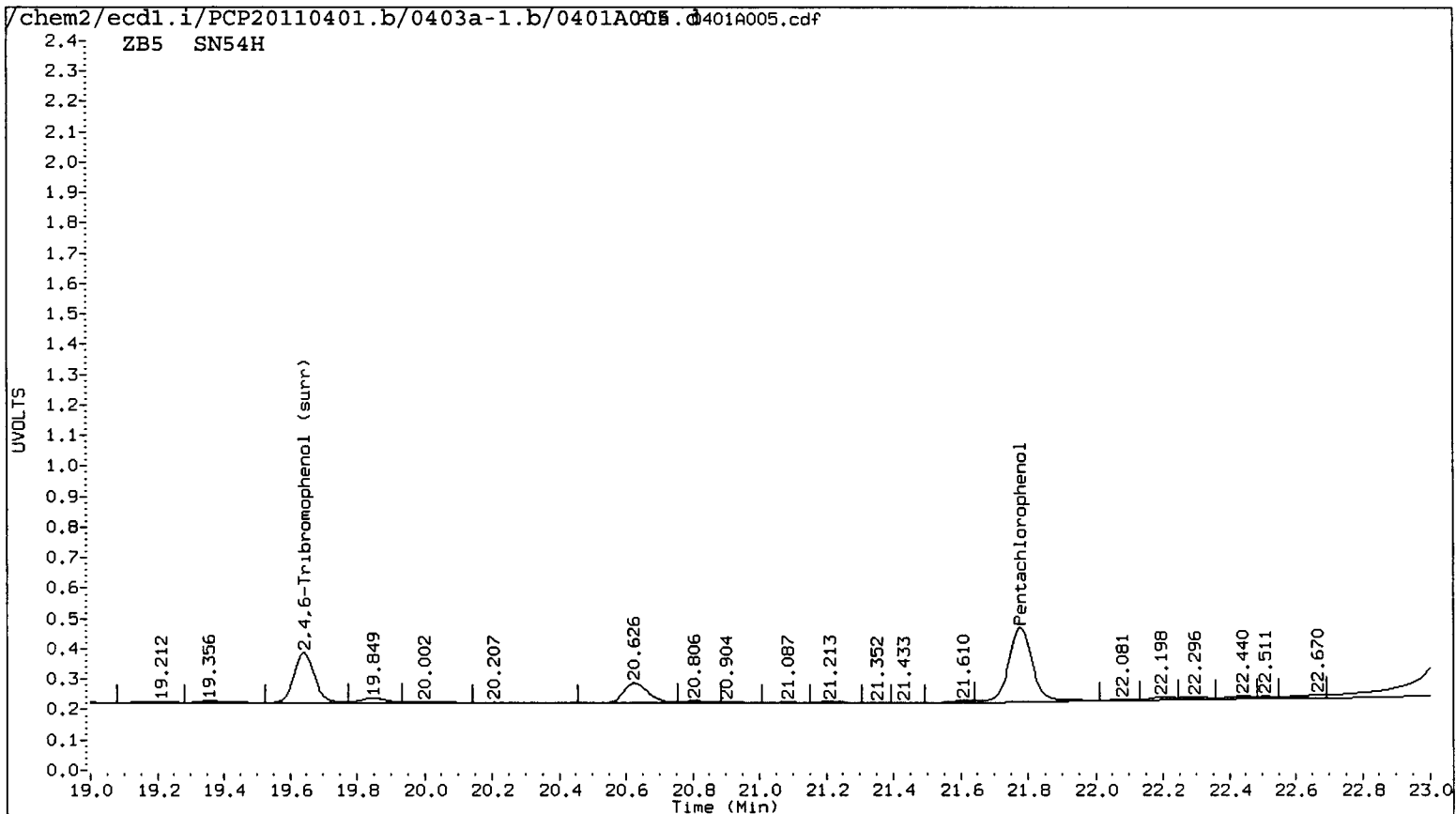
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A005.d ARI ID: SN54H *YZ 4/7/11*  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A005.d Client ID: LL-SED1-0-56-031511  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 11:32  
 Compound Sublist: all Report Date: 04/07/2011 13:57  
 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		
21.778	-0.015	608146	22.627	-0.005	70817	<u>23.6929</u>	2.5871	160.6*	Pentachlorophenol
----			13.817	0.040	23479	0.0000	1.4492	---	2,4,6-Trichlorophenol
14.443	0.067	22430	15.134	-0.049	3829	1.5348	0.2562	142.8*	2,3,6-Trichlorophenol
16.052	-0.032	302664	17.182	0.031	23348	39.2501	2.9048	172.4*	2,4,5-Trichlorophenol
17.303	-0.043	3834762	18.754	0.029	13960	1225.5430	1.4064	199.5*	2,3,4-Trichlorophenol
----			18.408	-0.003	53150	0.0000	2.3024	---	2,3,5,6-Tetrachlorophenol
----			21.819	0.000	4331	0.0000	0.2676	---	2,3,4,5-Tetrachlorophenol
12.428	-0.004	12727	----			14.4249	0.0000	---	2,4-Dichlorophenol
19.643	-0.009	355106	20.867	-0.004	440159	16.5	20.6	22.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	66.0	82.5





SN54 : 00579

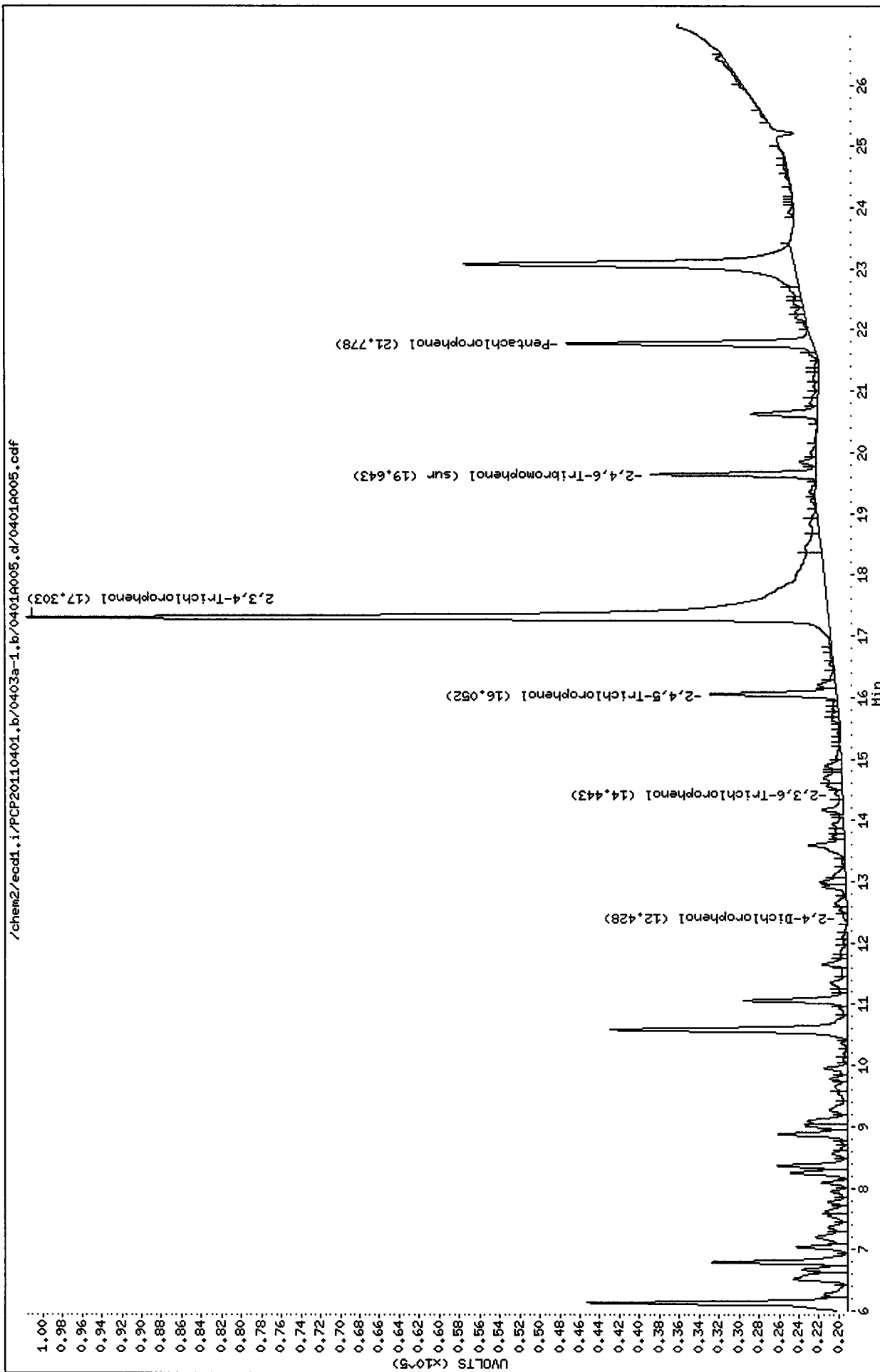


Data File: /chem2/ecd1.i/PCP20110401.b/0403a-1.b/0401A005.d  
Date : 07-APR-2011 11:32  
Client ID: LL-SED1-0-56-034511  
Sample Info: SN54H

Instrument: ecd1.i

Operator: ar  
Column diameter: 0.53

Column phase: ZB5



Data File: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A005.d

Date : 07-APR-2011 11:32

Client ID: LL-SED1-0-56-031511

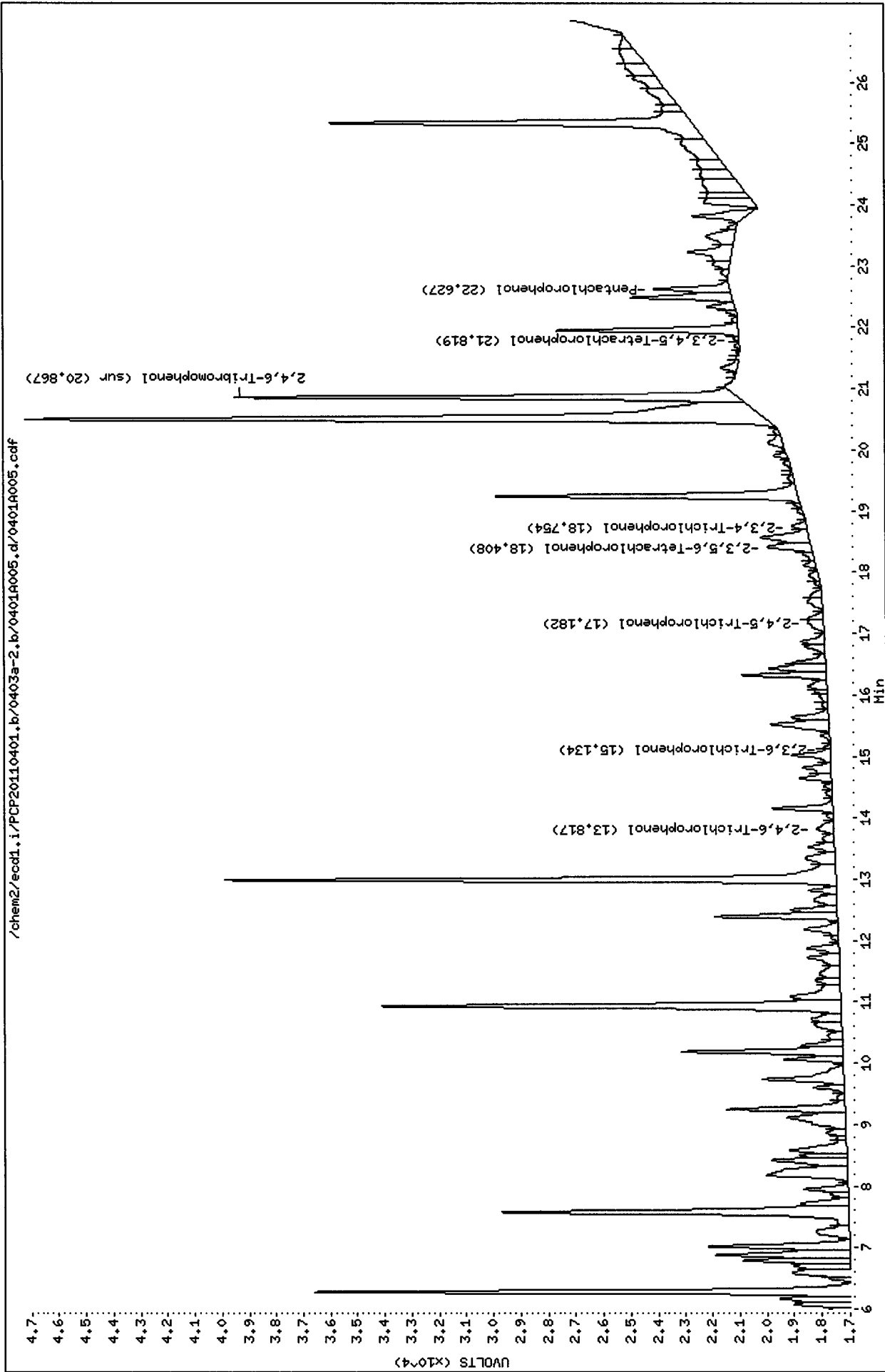
Sample Info: SN54H

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35



Analytical Resources Inc.  
Dual Column 8041 Chlorinated Phenols Quantitation Report

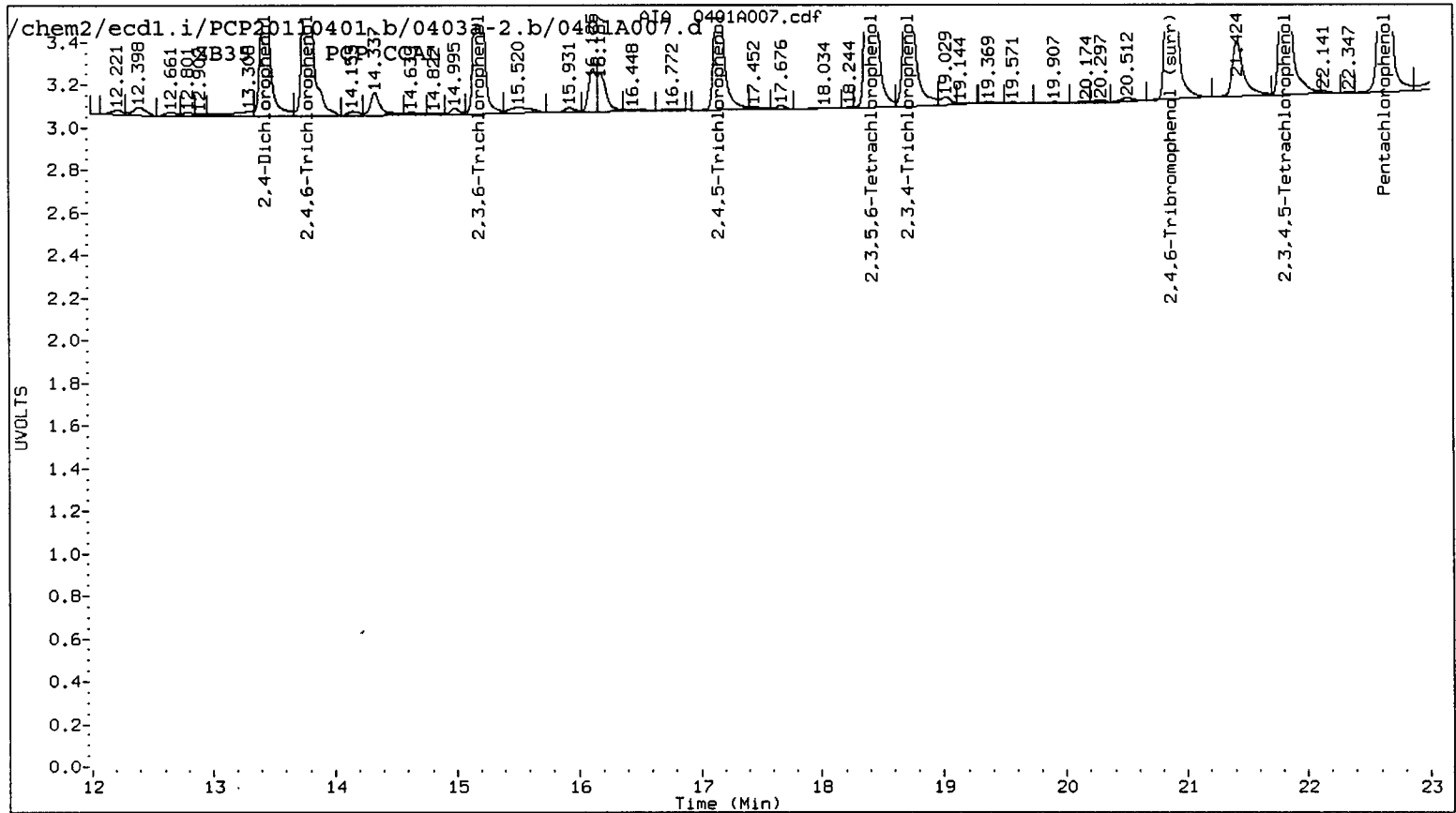
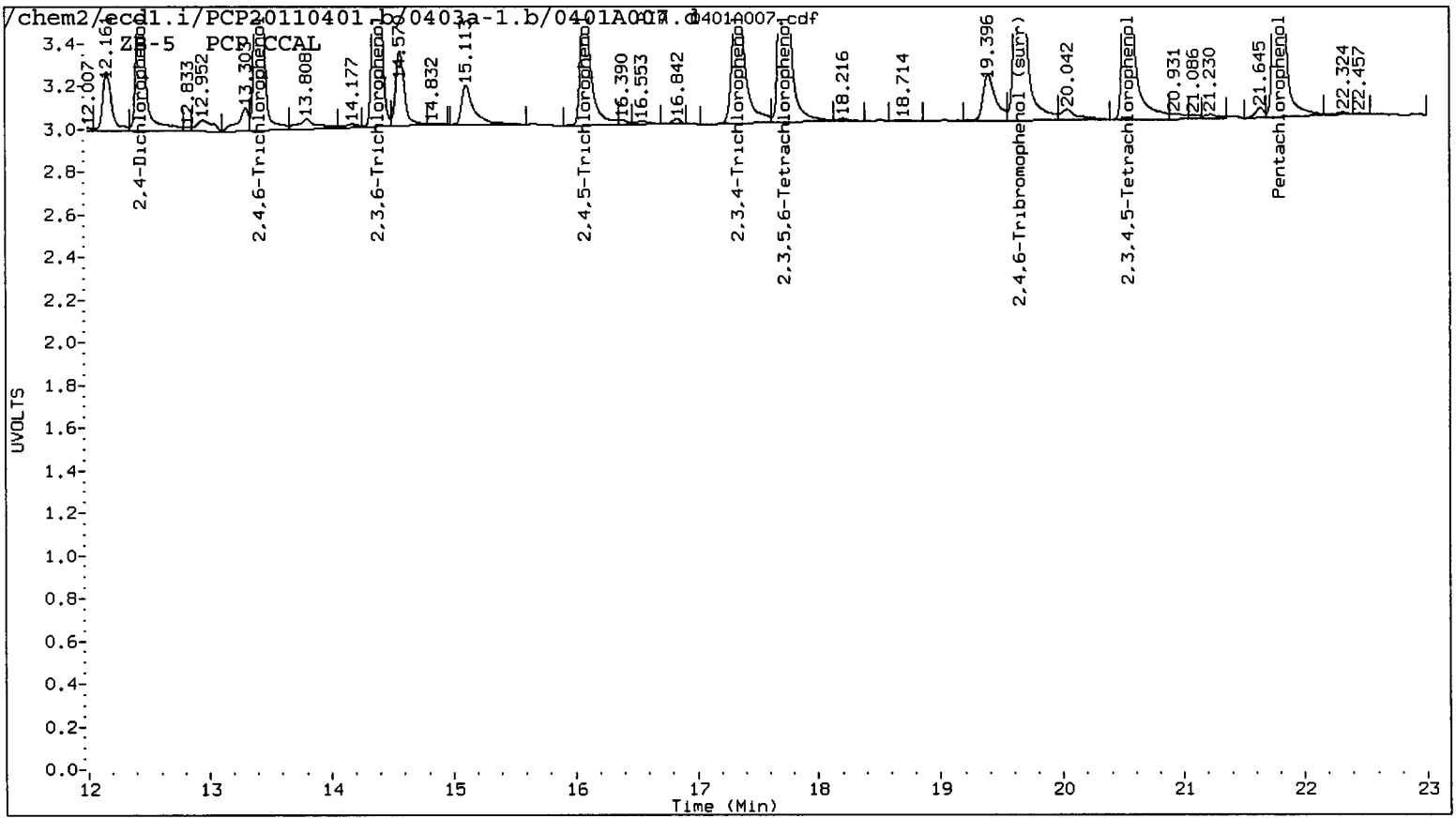
Data file 1: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A007.d ARI ID: PCP CCAL  
 Data file 2: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A007.d Client ID:  
 Method: /chem2/ecdl.i/PCP20110401.b/PCP.m Injection Date: 07-APR-2011 12:44  
 Compound Sublist: all Report Date: 04/07/2011 13:57  
 Instrument: ecdl.i Matrix: NONE  
 Operator: ar Dilution Factor: 1.000

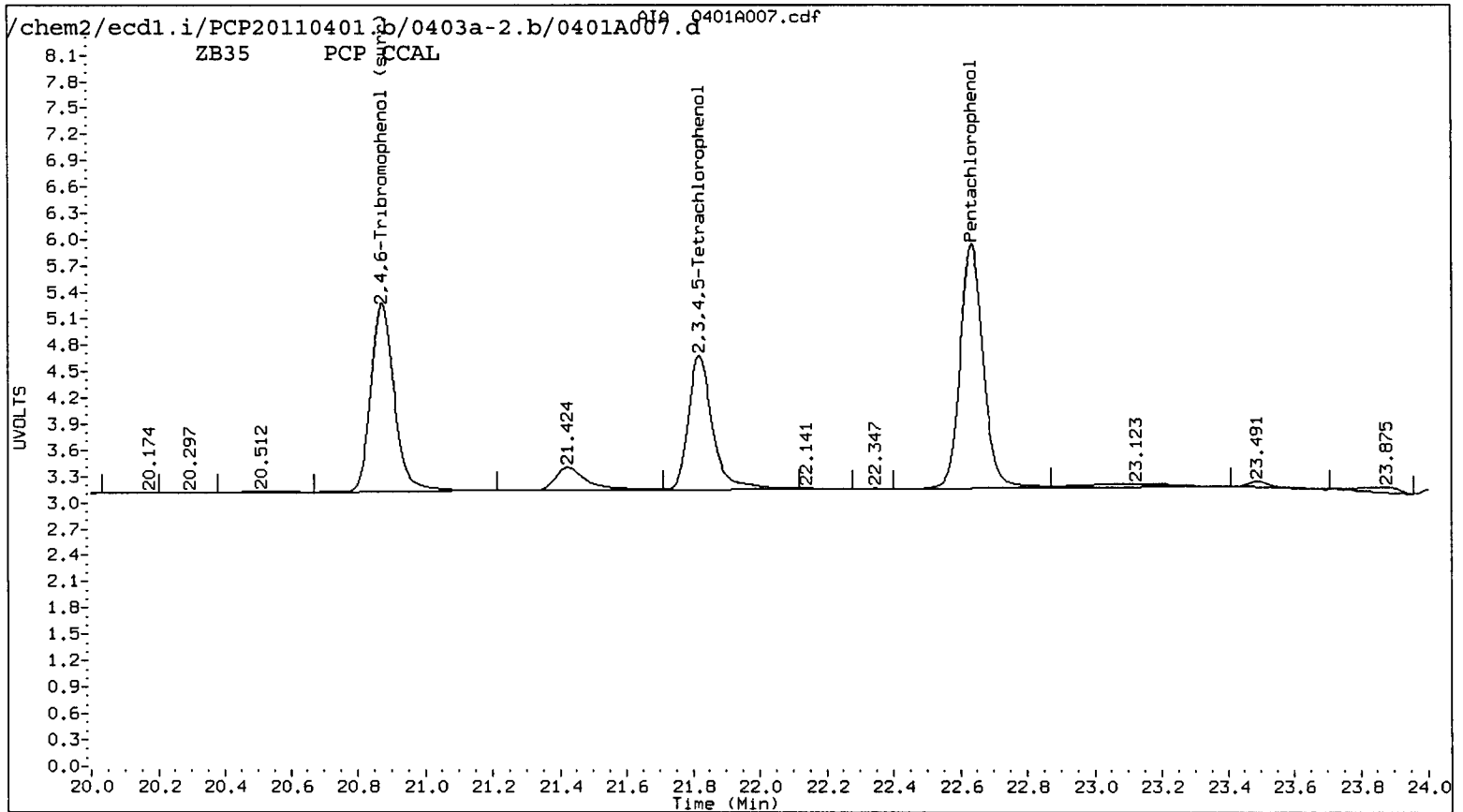
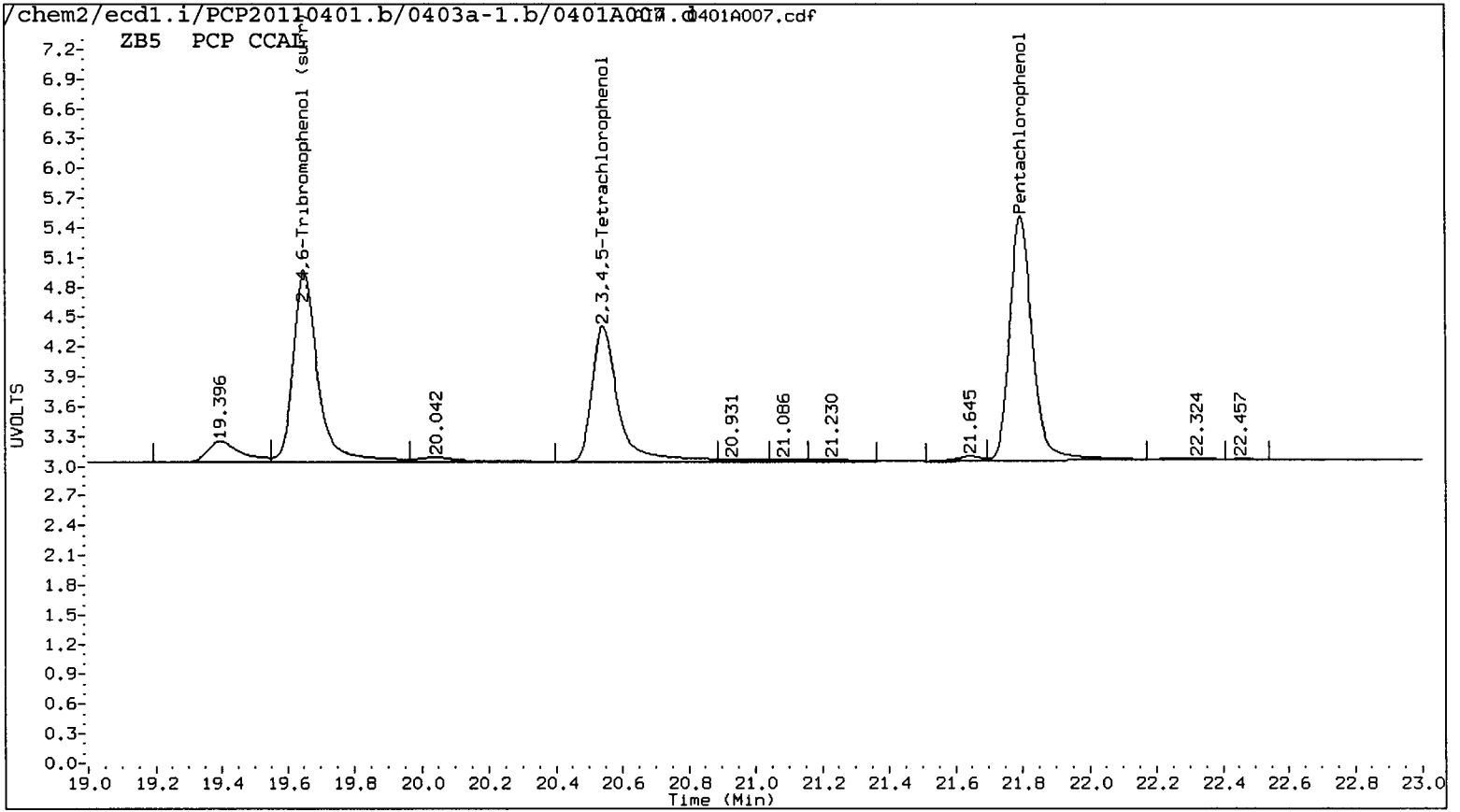
*9/7/11*

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.796	0.003	591677	22.635	0.004	670641	23.0513	24.5002	6.1	Pentachlorophenol
13.417	0.008	386955	13.784	0.007	413297	28.9186	25.5106	12.5	2,4,6-Trichlorophenol
14.384	0.008	351779	15.190	0.007	368896	24.0706	24.6793	2.5	2,3,6-Trichlorophenol
16.085	0.001	189331	17.155	0.004	195785	24.5529	24.3584	0.8	2,4,5-Trichlorophenol
17.341	-0.005	251916	18.724	-0.001	244227	22.6723	24.6040	8.2	2,3,4-Trichlorophenol
17.725	0.005	537425	18.416	0.005	566520	23.1707	24.5405	5.7	2,3,5,6-Tetrachlorophenol
20.542	-0.003	379687	21.820	0.001	387511	23.2073	23.9404	3.1	2,3,4,5-Tetrachlorophenol
12.438	0.006	208075	13.436	0.007	208241	274.0418	250.0468	9.2	2,4-Dichlorophenol
19.651	-0.001	502135	20.873	0.003	514262	23.3	24.1	3.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	92.2	98.0
2,4,6-Trichlorophenol	115.7	102.0
2,3,6-Trichlorophenol	96.3	98.7
2,4,5-Trichlorophenol	98.2	97.4
2,3,4-Trichlorophenol	90.7	98.4
2,3,5,6-Tetrachlorophenol	92.7	98.2
2,3,4,5-Tetrachlorophenol	92.8	95.8
2,4-Dichlorophenol	109.6	100.0
2,4,6-TBP (surr)	93.4	96.4





Data File: /chem2/ecdl.i/PCP20110401.b/0403a-1.b/0401A007.d

Date : 07-APR-2011 12:44

Client ID:

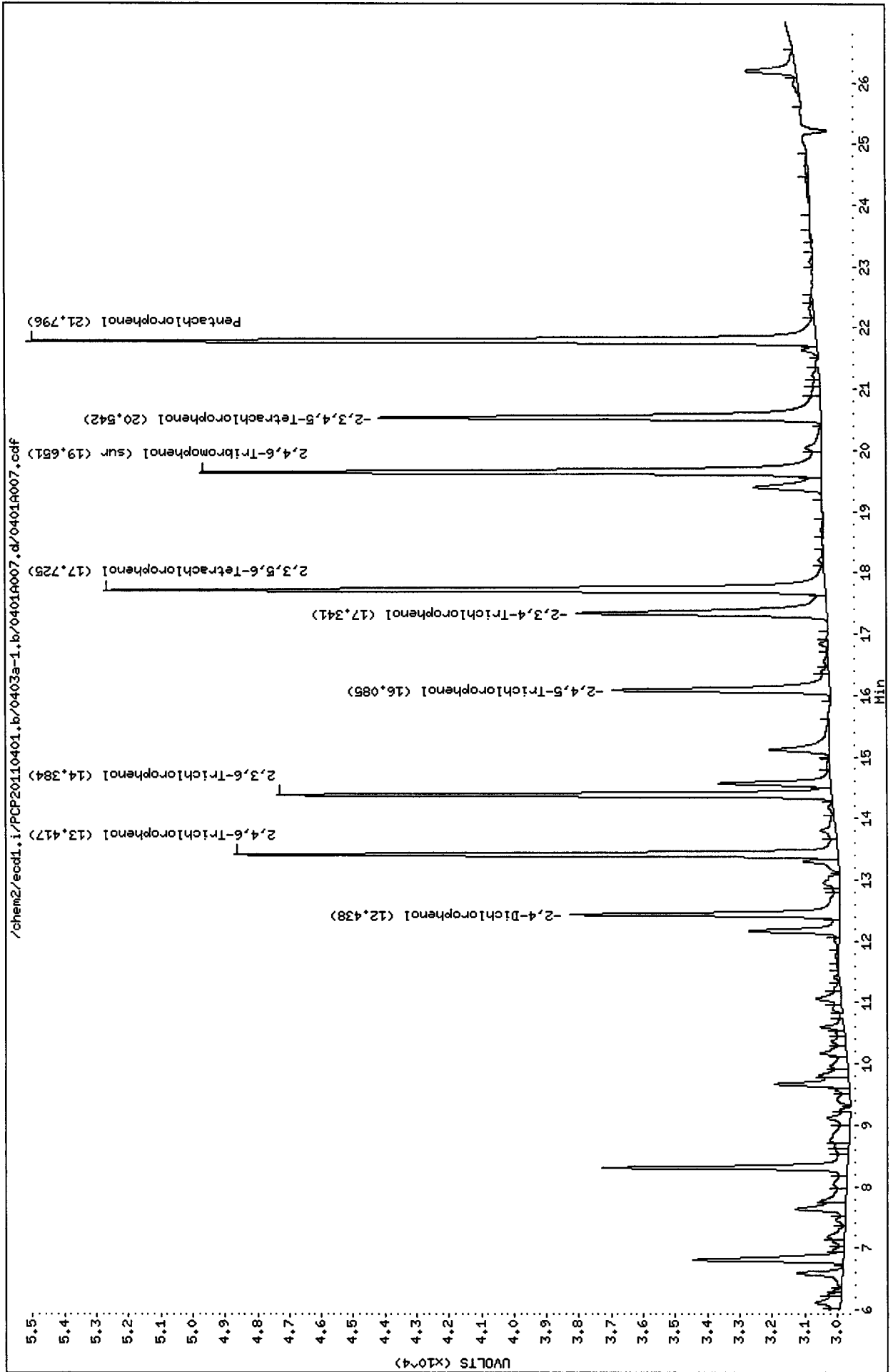
Sample Info: PCP CCAL

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB5



Data File: /chem2/ecdl.i/PCP20110401.b/0403a-2.b/0401A007.d

Date : 07-APR-2011 12:44

Client ID:

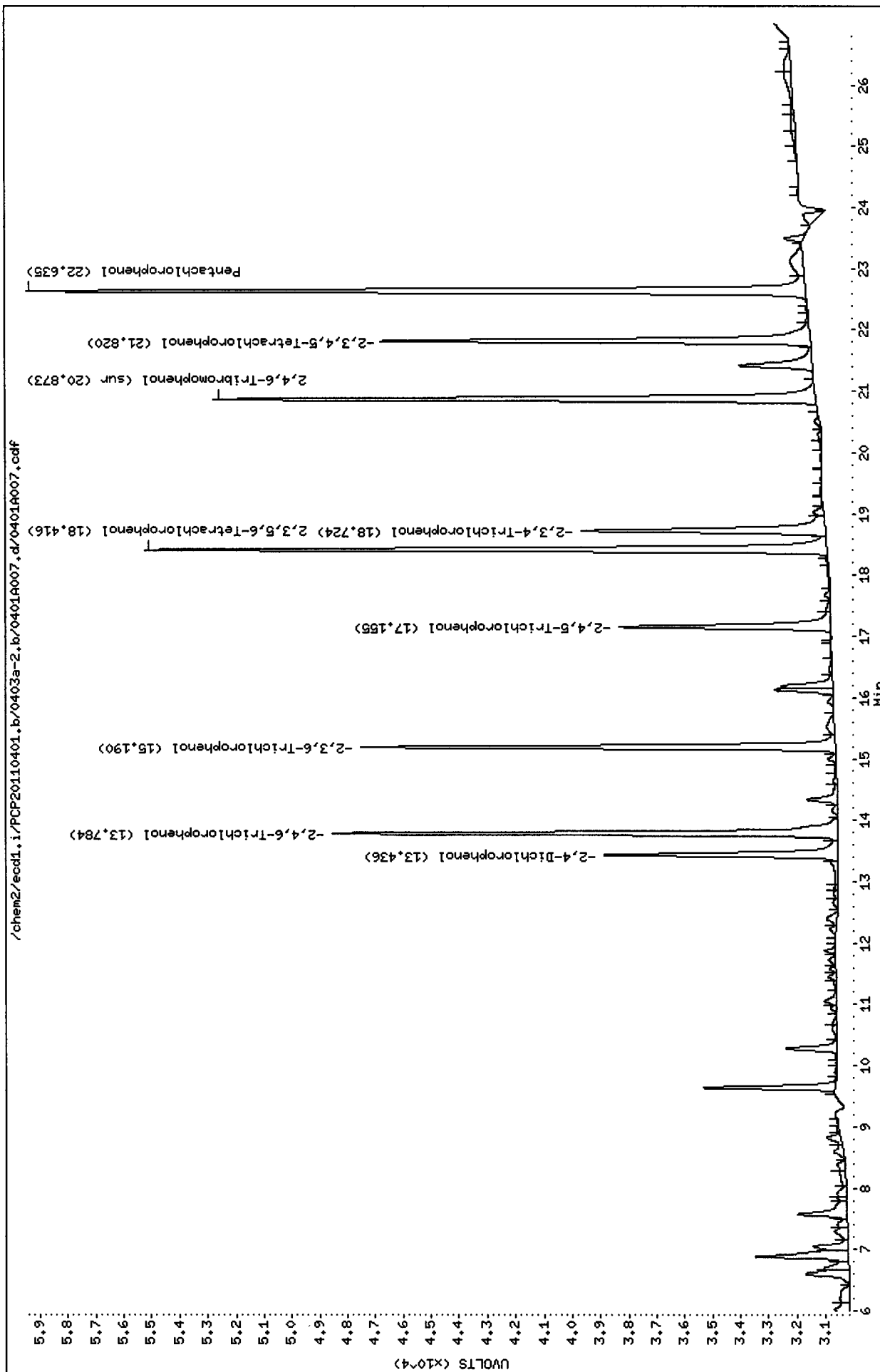
Sample Info: PCP CCAL

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

Column phase: ZB35



**Metals Raw Data  
Preparation Bench Sheets and Notes**

**ARI Job ID: SN54**





# Digestion Log

Analyst: KM

Date: 3/21/11

Matrix: Soil Block ID: #1 Block Temp: 92°C

Thermometer: 92° KM MP12  
5121

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SWC</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
SN80 E	1	—	1.042	50.0			
" MB2	—	—	—				
" MB2SPK	—	—	—				
SNS4 A	2	—	1.037				
" B	3	—	1.021				
" C	3	—	1.082				
" D	2	—	1.022				
" E	3	—	1.068				
" EDUP	3	—	1.066				
" ESPK	3	—	1.071				
" F	2	—	1.064				
" G	2	—	1.040				
" H	2	—	1.032				
" MBI	—	—	—				
" MBISPK	—	—	—	50.0			
<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">KM</span> <span style="position: absolute; top: 20%; left: 30%; font-size: 1.5em;">3/21/11</span> </div>							

Chemical/Reagent ID:

HNO<sub>3</sub>: MP2065 HCl: I5951 H<sub>2</sub>O<sub>2</sub>: I5814 Tube Lot #: 1010190  
I6167





# Corrective Actions Inorganic Analyses

<p>Criteria Flagged:</p> <p>Unacceptable Blank: <input type="checkbox"/></p> <p>Unacceptable Duplicate: <input checked="" type="checkbox"/></p> <p>Unacceptable Spike: <input type="checkbox"/></p> <p>Unacceptable Reference: <input type="checkbox"/></p>	<p>ARI Job No.: <u>SN54</u></p> <p>Date of Event: <u>3.22.11</u></p> <p>Client ID: <u>Floyd Snider</u></p> <p>Method/Element: <u>ICP</u></p> <p>Prep Code: <u>SWC</u></p>
<p><b>Details of Problem/Recommended Corrective Action:</b></p> <p><u>SN54 Edep AS G.T. IRL diff.</u></p> <p><u>E AS 0.1040</u></p> <p><u>Edep AS 0.1692</u></p>	
<p><b>Samples Affected:</b></p>	
<p><b>Corrective Action Taken:</b></p> <p style="text-align: center;"><u>send</u></p>	

Analyst Initials: BW

Date: 3.22.11

Supervisor: [Signature]

Date: 3.23.11

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

**ARI Job ID: SN54**



IEC Date: 3.10.11 Analysis Date: 3.22.11 Analyst: BAW  
LR Date: 2.3.11 Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		Std 0			2815-5
		2			-6
		3			-7
		4			-8
		✓ 5			✓ -9
		ICV			2796-5
		ICB			
Z		ZZZZZ			Mg high
		Std 0			
		CCV1			
		CCB1			
		CC1			
		ICSA			
		ICSA B			
		CCV2			
		CCB2			
		SN04 MBI	SWC	2	
		SN74 MBI		↓	
		↓ C-L		10 ✓	
		↓ C		2	
	✓	SN04 B			Ca Fe high - seen 110
		↓ Adeq A			Zn 22%
		↓ ASPH	✓	✓	CAF
					Cu 129%



IEC Date:                     

Analysis Date: 3.22.11

Analyst: BW

LR Date:                     

Page: 2 of 5

All corrections made by analyst unless otherwise noted.

BW 3.22.11

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SN04 A post	SWC	2	0.08 ml ICP spl <u>Cu</u>
		SN74 MBISpl	↓	↓	
		CCV3			
		CCB3			
		CR1			
		ICSA			
		ICSAB			
		CCV4			
		CCB4			
	✓	SN04 C	SWC	2	Fe high - rem
		D	↓	↓	
		E	↓	↓	
		F	↓	↓	
		G	↓	↓	
	✓	H	↓	↓	Fe high - rem
		I	↓	↓	
		J	↓	↓	
		K	↓	↓	
		MBISpl	↓	↓	
		CCV5			
		CCB5			
		SN20 MB1	SWC	2	
		SN04 L	↓	↓	
		SN20 <del>B</del> B	↓	↓	



IEC Date:                     

Analysis Date: 3.22.11

Analyst: BW

LR Date:                     

Page: 3 of 5

All corrections made by analyst unless otherwise noted. BW 3.22.11

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SN20 C	SUC	2	
	✓	↓ D	↓	↓	Fe high-rem
		↓ Adep	↓	↓	✓
		↓ A	↓	↓	✓
2		↓ <del>ASph</del> <del>22222</del> ↓ Apos	↓	↓	✓
		↓ MBSpk	↓	↓	✓
		CCV6			
		CCB6			
		SN04 B	SUC	10	
		↓ C	↓	5	
		↓ H	↓	↓	
	✓	SN20 E		2	Fe high-rem
		↓ F	↓	↓	
	✓	↓ G	↓	↓	Fe high-rem
		↓ H	↓	↓	
		SN54 A			
		↓ B	↓	↓	✓
		↓ MBSpk	↓	↓	✓
		CCV7			
		CCB7			
		SN54 MB1	SUC	2	
		<del>SN20 D</del>		<del>5</del>	
		SN54 C	SUC	2	



IEC Date: \_\_\_\_\_

Analysis Date: 3.22.11

Analyst: BW

LR Date: \_\_\_\_\_

Page: 4 of 5

All corrections made by analyst unless otherwise noted. BW 3.22.11

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SN54 D	SWC	2	
		F			
		G			
		Edup			As G.T. IRL diff.
		E			<u>CAF</u>
		Esph			✓ SER sl. noisy - WR
2		<del>zzzzzz</del> E post			
		SN63 MB1 sph			✓
		CCV8			
		CCB8			
		SN63 MB1	SWC	2	
		SN20 D		5	
		SN54 H		2	
		SN63 B			
		C			
	✓	Adup			Fe high - rem <sup>Cr, Cu, Ni, Pb, Zn, 2001 PPD</sup>
	↓	A			
		Asph			Cr, Ni, Pb post WR
2		<del>zzzzzz</del> A post			
		MB2 sph	TWC		✓
		CCV9			axial sl. noisy - Conc. OK
		CCB9			
		CCV10			
		CCB10			

*[Handwritten signature]*



**Metals Data Review Checklist**

Method: ICP ICP-MS GFA CVA

Analysis Date: 3.22.11

ICP O	Analyst BW3.23	Peer 10.13.11	Comment
<b>Logbook</b>			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
<b>Calibration</b>			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
<b>Calibration Verification</b>			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
<b>Samples</b>			
RSD's & SD's	✓	✓	see log
Internal Standards	✓	✓	
Carry-over	✓	✓	
<b>Method QC</b>			
CRI/CRA	✓	✓	see log
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	—	—	
<b>Matrix QC</b>			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	SN63 SN04
Matrix Duplicates	✓	✓	↓ ↓ SN54
Method Blanks	✓	✓	
<b>Data Distribution</b>			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
<b>Necessary Analyst's Notes and CAP's</b>	✓	✓	SN04 SN54

=====  
Analysis Begun

Start Time: 3/22/2011 11:08:46 AM Plasma On Time: 3/22/2011 10:12:03 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\CRISSETb.sif  
Batch ID:  
Results Data Set: I2110322  
Results Library: C:\pe\metals\Results\Results.mdb

=====  
Method Loaded

Method Name: 7300bcESI2FAST Method Last Saved: 3/10/2011 11:09:27 AM  
IEC File: IEC7AMIN.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	No
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: 3/22/2011 11:08:47 AM  
Data Type: Original

-----  
Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

-----  
Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2428234.8	8228.66	0.34%	100.0 %
ScR 361.383	400495.4	5018.95	1.25%	100.0 %
Ag 328.068†	-811.6	22.20	2.74%	[0.00] mg/L
Al 308.215†	-165.4	12.22	7.39%	[0.00] mg/L
As 188.979†	-15.8	1.51	9.60%	[0.00] mg/L
B 249.677†	34.1	5.83	17.10%	[0.00] mg/L

Ba	233.527†	56.6	5.17	9.13%	[0.00]	mg/L
Be	313.042†	887.9	28.85	3.25%	[0.00]	mg/L
Ca	317.933†	108.1	3.53	3.27%	[0.00]	mg/L
Cd	228.802†	255.4	0.66	0.26%	[0.00]	mg/L
Co	228.616†	-117.7	1.25	1.06%	[0.00]	mg/L
Cr	267.716†	-49.3	7.27	14.74%	[0.00]	mg/L
Cu	324.752†	1720.3	22.88	1.33%	[0.00]	mg/L
Fe	273.955†	-52.1	2.71	5.20%	[0.00]	mg/L
K	766.490†	-539.2	25.86	4.80%	[0.00]	mg/L
Mg	279.077†	-518.4	9.47	1.83%	[0.00]	mg/L
Mn	257.610†	64.4	6.66	10.35%	[0.00]	mg/L
Mo	202.031†	64.5	1.53	2.38%	[0.00]	mg/L
Na	589.592†	-216.5	35.84	16.55%	[0.00]	mg/L
Na	330.237†	-216.2	8.96	4.14%	[0.00]	mg/L
Ni	231.604†	-39.9	3.97	9.93%	[0.00]	mg/L
Pb	220.353†	-113.5	6.16	5.43%	[0.00]	mg/L
Sb	206.836†	31.0	3.46	11.16%	[0.00]	mg/L
Se	196.026†	-80.8	4.01	4.96%	[0.00]	mg/L
Si	288.158†	35.6	7.83	21.98%	[0.00]	mg/L
Sn	189.927†	-8.0	1.12	13.97%	[0.00]	mg/L
Sr	421.552†	-805.1	15.93	1.98%	[0.00]	mg/L
Ti	334.903†	375.9	21.11	5.62%	[0.00]	mg/L
Tl	190.801†	-28.3	1.49	5.26%	[0.00]	mg/L
V	292.402†	-102.1	9.23	9.04%	[0.00]	mg/L
Zn	206.200†	-2.9	1.54	53.35%	[0.00]	mg/L

Sequence No.: 2  
Sample ID: STD2

Autosampler Location: 2  
Date Collected: 3/22/2011 11:12:57 AM  
Data Type: Original

## Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

## Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2429255.4	17425.82	0.72%	100.0	%
ScR 361.383	404754.2	3270.58	0.81%	101.1	%
Ba 233.527†	69168.7	164.72	0.24%	[10]	mg/L
Cd 228.802†	276559.4	1033.84	0.37%	[10]	mg/L
Co 228.616†	325161.1	887.27	0.27%	[10]	mg/L
Cr 267.716†	77282.1	226.78	0.29%	[10]	mg/L
Cu 324.752†	2314782.1	3076.57	0.13%	[10]	mg/L
Mn 257.610†	478391.6	1537.06	0.32%	[10]	mg/L
V 292.402†	1626695.4	5126.97	0.32%	[10]	mg/L

Sequence No.: 3  
Sample ID: STD3

Autosampler Location: 3  
Date Collected: 3/22/2011 11:14:39 AM  
Data Type: Original

Nebulizer Parameters: STD3

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2437811.1	12609.90	0.52%	100.4	%
ScR 361.383	405195.5	951.97	0.23%	101.2	%
Ag 328.068†	190884.2	836.59	0.44%	[1.0]	mg/L
As 188.979†	14108.7	99.81	0.71%	[10]	mg/L
B 249.677†	58074.8	336.35	0.58%	[10]	mg/L
Be 313.042†	4529121.8	17859.67	0.39%	[5.0]	mg/L
Na 589.592†	651904.0	2443.50	0.37%	[50]	mg/L
Ni 231.604†	35641.9	322.87	0.91%	[10]	mg/L
Pb 220.353†	82202.1	604.93	0.74%	[10]	mg/L
Se 196.026†	12088.8	100.31	0.83%	[10]	mg/L
Sr 421.552†	4584488.6	6413.34	0.14%	[5]	mg/L
Tl 190.801†	16497.3	144.82	0.88%	[10]	mg/L
Zn 206.200†	38913.3	209.81	0.54%	[10]	mg/L

Sequence No.: 4  
Sample ID: STD4

Autosampler Location: 4  
Date Collected: 3/22/2011 11:17:07 AM  
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2493647.3	7497.12	0.30%	102.7 %
ScR 361.383	412108.3	1283.39	0.31%	102.9 %
Mo 202.031†	159349.9	493.74	0.31%	[10] mg/L
Sb 206.836†	25180.5	99.30	0.39%	[10] mg/L
Si 288.158†	17481.5	308.55	1.77%	[10] mg/L
Sn 189.927†	49281.0	69.05	0.14%	[10] mg/L
Ti 334.903†	280760.8	727.11	0.26%	[10] mg/L

Sequence No.: 5  
Sample ID: STD5

Autosampler Location: 5  
Date Collected: 3/22/2011 11:19:17 AM  
Data Type: Original

## Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: STD5

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2322944.0	7036.02	0.30%	95.66	%
ScR 361.383	411652.3	2305.25	0.56%	102.8	%
Al 308.215†	41717.9	314.34	0.75%	[30]	mg/L
Ca 317.933†	340502.4	1430.54	0.42%	[30]	mg/L
Fe 273.955†	123715.6	554.81	0.45%	[100]	mg/L
K 766.490†	184971.3	553.95	0.30%	[100]	mg/L
Mg 279.077†	34090.5	298.22	0.87%	[30]	mg/L
Na 330.237†	2595.9	21.52	0.83%	[100]	mg/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	190900	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1391	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1411	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	5807	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	6917	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	905800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	11350	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	27660	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	32520	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7728	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	231500	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1237	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1850	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1136	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	47840	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	15930	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	13040	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	25.96	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	3564	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8220	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2518	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1209	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1748	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	4928	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	916900	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	28080	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1650	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	162700	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3891	0.00000	1.000000	

=====  
Analysis Begun

Start Time: 3/22/2011 11:23:33 AM

Plasma On Time: 3/22/2011 10:12:03 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\0322.sif

Batch ID:

Results Data Set: I2110322

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

=====  
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 3/22/2011 11:23:34 AM

Data Type: Original

Dilution: 1X

-----  
Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 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	2445614.9	100.7 %	0.38			0.37%
ScR 361.383	407766.6	101.8 %	0.56			0.55%
Ag 328.068†	195486.6	1.024 mg/L	0.0057	1.024 mg/L	0.0057	0.56%
Al 308.215†	2872.7	2.032 mg/L	0.0152	2.032 mg/L	0.0152	0.75%
As 188.979†	2871.1	2.041 mg/L	0.0107	2.041 mg/L	0.0107	0.52%
B 249.677†	5872.4	1.010 mg/L	0.0138	1.010 mg/L	0.0138	1.37%
Ba 233.527†	6843.3	0.9888 mg/L	0.00875	0.9888 mg/L	0.00875	0.88%
Be 313.042†	898042.8	0.9909 mg/L	0.00093	0.9909 mg/L	0.00093	0.09%
Ca 317.933†	24070.9	2.121 mg/L	0.0226	2.121 mg/L	0.0226	1.07%
Cd 228.802†	28269.4	1.015 mg/L	0.0023	1.015 mg/L	0.0023	0.23%
Co 228.616†	31968.2	0.9814 mg/L	0.00179	0.9814 mg/L	0.00179	0.18%
Cr 267.716†	7761.3	1.004 mg/L	0.0120	1.004 mg/L	0.0120	1.20%
Cu 324.752†	232355.9	1.004 mg/L	0.0011	1.004 mg/L	0.0011	0.10%
Fe 273.955†	2517.2	2.029 mg/L	0.0209	2.029 mg/L	0.0209	1.03%
K 766.490†	38234.3	20.67 mg/L	0.122	20.67 mg/L	0.122	0.59%
Mg 279.077†	2290.7	2.020 mg/L	0.0146	2.020 mg/L	0.0146	0.72%
Mn 257.610†	47174.4	0.9866 mg/L	0.00905	0.9866 mg/L	0.00905	0.92%
Mo 202.031†	16006.2	1.004 mg/L	0.0043	1.004 mg/L	0.0043	0.42%
Na 589.592†	655611.3	50.28 mg/L	0.086	50.28 mg/L	0.086	0.17%
Na 330.237†	1336.0	51.54 mg/L	0.402	51.54 mg/L	0.402	0.78%
Ni 231.604†	3589.0	1.008 mg/L	0.0104	1.008 mg/L	0.0104	1.03%
Pb 220.353†	16124.8	1.963 mg/L	0.0082	1.963 mg/L	0.0082	0.42%
Sb 206.836†	5136.4	2.046 mg/L	0.0082	2.046 mg/L	0.0082	0.40%
Se 196.026†	2443.6	2.021 mg/L	0.0202	2.021 mg/L	0.0202	1.00%
Si 288.158†	3456.3	1.983 mg/L	0.0240	1.983 mg/L	0.0240	1.21%
Sn 189.927†	4883.8	0.9932 mg/L	0.00481	0.9932 mg/L	0.00481	0.48%
Sr 421.552†	922519.7	1.006 mg/L	0.0022	1.006 mg/L	0.0022	0.22%
Ti 334.903†	27565.1	0.9800 mg/L	0.00210	0.9800 mg/L	0.00210	0.21%
Tl 190.801†	3302.2	2.001 mg/L	0.0086	2.001 mg/L	0.0086	0.43%
V 292.402†	161080.4	0.9953 mg/L	0.00134	0.9953 mg/L	0.00134	0.13%
Zn 206.200†	3877.2	0.9962 mg/L	0.00866	0.9962 mg/L	0.00866	0.87%



Sequence No.: 2  
 Sample ID: |CB

Autosampler Location: 1  
 Date Collected: 3/22/2011 11:26:46 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2426739.2	99.94	%	0.874				0.87%
ScR 361.383	414867.9	103.6	%	0.49				0.47%
Ag 328.068†	17.2	0.00009	mg/L	0.000251	0.00009	mg/L	0.000251	278.09%
Al 308.215†	16.1	0.01156	mg/L	0.005741	0.01156	mg/L	0.005741	49.66%
As 188.979†	-0.8	-0.00056	mg/L	0.000706	-0.00056	mg/L	0.000706	126.17%
B 249.677†	20.0	0.00345	mg/L	0.000835	0.00345	mg/L	0.000835	24.20%
Ba 233.527†	-0.2	-0.00003	mg/L	0.000162	-0.00003	mg/L	0.000162	471.16%
Be 313.042†	-22.8	-0.00003	mg/L	0.000035	-0.00003	mg/L	0.000035	140.02%
Ca 317.933†	-2.9	-0.00026	mg/L	0.001471	-0.00026	mg/L	0.001471	572.10%
Cd 228.802†	-0.2	-0.00001	mg/L	0.000044	-0.00001	mg/L	0.000044	780.55%
Co 228.616†	-5.1	-0.00016	mg/L	0.000133	-0.00016	mg/L	0.000133	84.88%
Cr 267.716†	-2.3	-0.00030	mg/L	0.000586	-0.00030	mg/L	0.000586	197.11%
Cu 324.752†	32.0	0.00014	mg/L	0.000146	0.00014	mg/L	0.000146	105.99%
Fe 273.955†	2.0	0.00159	mg/L	0.000732	0.00159	mg/L	0.000732	46.19%
K 766.490†	270.5	0.1462	mg/L	0.01809	0.1462	mg/L	0.01809	12.37%
Mg 279.077†	26.3	0.02314	mg/L	0.011232	0.02314	mg/L	0.011232	48.53%
Mn 257.610†	-4.5	-0.00010	mg/L	0.000043	-0.00010	mg/L	0.000043	45.64%
Mo 202.031†	26.6	0.00167	mg/L	0.000763	0.00167	mg/L	0.000763	45.67%
Na 589.592†	49.8	0.00382	mg/L	0.001077	0.00382	mg/L	0.001077	28.18%
Na 330.237†	10.3	0.3947	mg/L	0.43119	0.3947	mg/L	0.43119	109.26%
Ni 231.604†	2.4	0.00068	mg/L	0.001226	0.00068	mg/L	0.001226	180.04%
Pb 220.353†	-8.0	-0.00097	mg/L	0.000834	-0.00097	mg/L	0.000834	86.29%
Sb 206.836†	12.9	0.00514	mg/L	0.001693	0.00514	mg/L	0.001693	32.91%
Se 196.026†	3.2	0.00263	mg/L	0.001390	0.00263	mg/L	0.001390	52.78%
Si 288.158†	-0.7	-0.00038	mg/L	0.001067	-0.00038	mg/L	0.001067	283.15%
Sn 189.927†	0.0	0.00001	mg/L	0.000485	0.00001	mg/L	0.000485	>999.9%
Sr 421.552†	79.4	0.00009	mg/L	0.000065	0.00009	mg/L	0.000065	74.77%
Ti 334.903†	-1.5	-0.00006	mg/L	0.000342	-0.00006	mg/L	0.000342	604.92%
Tl 190.801†	-3.8	-0.00229	mg/L	0.001691	-0.00229	mg/L	0.001691	73.71%
V 292.402†	11.8	0.00007	mg/L	0.000112	0.00007	mg/L	0.000112	154.56%
Zn 206.200†	3.6	0.00092	mg/L	0.000302	0.00092	mg/L	0.000302	32.72%

Sequence No.: 3

Sample ID: CRI

Autosampler Location: 301

Date Collected: 3/22/2011 11:30:41 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2474278.4	101.9	%	0.21			0.20%
ScR 361.383	410814.0	102.6	%	0.62			0.60%
Ag 328.068†	645.7	0.00338	mg/L	0.000145	0.00338	mg/L	0.000145 4.29%
Al 308.215†	73.9	0.05302	mg/L	0.008469	0.05302	mg/L	0.008469 15.98%
As 188.979†	71.8	0.05093	mg/L	0.001720	0.05093	mg/L	0.001720 3.38%
B 249.677†	131.7	0.02267	mg/L	0.000755	0.02267	mg/L	0.000755 3.33%
Ba 233.527†	25.3	0.00366	mg/L	0.000552	0.00366	mg/L	0.000552 15.09%
Be 313.042†	858.7	0.00095	mg/L	0.000026	0.00095	mg/L	0.000026 2.74%
Ca 317.933†	568.6	0.05010	mg/L	0.000642	0.05010	mg/L	0.000642 1.28%
Cd 228.802†	65.4	0.00219	mg/L	0.000169	0.00219	mg/L	0.000169 7.72%
Co 228.616†	93.9	0.00288	mg/L	0.000095	0.00288	mg/L	0.000095 3.28%
Cr 267.716†	36.4	0.00470	mg/L	0.000325	0.00470	mg/L	0.000325 6.91%
Cu 324.752†	482.7	0.00209	mg/L	0.000081	0.00209	mg/L	0.000081 3.89%
Fe 273.955†	66.4	0.05363	mg/L	0.002815	0.05363	mg/L	0.002815 5.25%
K 766.490†	1176.1	<del>0.6358</del>	mg/L	0.03110	0.6358	mg/L	0.03110 4.89%
Mg 279.077†	85.9	<del>0.07557</del>	mg/L	0.006036	0.07557	mg/L	0.006036 7.99%
Mn 257.610†	44.2	0.00093	mg/L	0.000053	0.00093	mg/L	0.000053 5.74%
Mo 202.031†	78.7	0.00494	mg/L	0.000257	0.00494	mg/L	0.000257 5.22%
Na 589.592†	6529.1	0.5008	mg/L	0.00034	0.5008	mg/L	0.00034 0.07%
Na 330.237†	23.3	0.8976	mg/L	0.14091	0.8976	mg/L	0.14091 15.70%
Ni 231.604†	40.6	0.01143	mg/L	0.002091	0.01143	mg/L	0.002091 18.30%
Pb 220.353†	158.4	0.01928	mg/L	0.001307	0.01928	mg/L	0.001307 6.78%
Sb 206.836†	130.3	0.05183	mg/L	0.000695	0.05183	mg/L	0.000695 1.34%
Se 196.026†	64.6	0.05346	mg/L	0.001430	0.05346	mg/L	0.001430 2.67%
Si 288.158†	96.8	0.05539	mg/L	0.003867	0.05539	mg/L	0.003867 6.98%
Sn 189.927†	49.6	0.01011	mg/L	0.000507	0.01011	mg/L	0.000507 5.01%
Sr 421.552†	941.7	0.00103	mg/L	0.000020	0.00103	mg/L	0.000020 1.98%
Ti 334.903†	126.6	0.00449	mg/L	0.000873	0.00449	mg/L	0.000873 19.42%
Tl 190.801†	78.9	0.04781	mg/L	0.001675	0.04781	mg/L	0.001675 3.50%
V 292.402†	471.3	0.00292	mg/L	0.000078	0.00292	mg/L	0.000078 2.66%
Zn 206.200†	36.8	0.00946	mg/L	0.000671	0.00946	mg/L	0.000671 7.09%

=====  
Analysis Begun

Start Time: 3/22/2011 11:34:58 AM

Plasma On Time: 3/22/2011 10:12:03 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\0322.sif

Batch ID:

Results Data Set: I2110322

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

Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 3/22/2011 11:34:59 AM

Data Type: Original  
-----

## Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

-----  
Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	2508072.5	10837.03	0.43%	103.3	%
ScR 361.383	423941.9	1885.59	0.44%	105.9	%
Ag 328.068†	-768.9	31.71	4.12%	[0.00]	mg/L
Al 308.215†	-140.0	10.01	7.15%	[0.00]	mg/L
As 188.979†	-13.8	1.92	13.93%	[0.00]	mg/L
B 249.677†	39.4	6.70	17.03%	[0.00]	mg/L
Ba 233.527†	56.8	2.05	3.62%	[0.00]	mg/L
Be 313.042†	848.1	12.96	1.53%	[0.00]	mg/L
Ca 317.933†	95.7	22.38	23.39%	[0.00]	mg/L
Cd 228.802†	256.7	2.75	1.07%	[0.00]	mg/L
Co 228.616†	-122.2	1.51	1.23%	[0.00]	mg/L
Cr 267.716†	-50.8	4.36	8.59%	[0.00]	mg/L
Cu 324.752†	1701.2	8.39	0.49%	[0.00]	mg/L
Fe 273.955†	-51.5	1.36	2.64%	[0.00]	mg/L
K 766.490†	-467.6	62.65	13.40%	[0.00]	mg/L
Mg 279.077†	-489.2	3.17	0.65%	[0.00]	mg/L
Mn 257.610†	58.9	4.03	6.84%	[0.00]	mg/L
Mo 202.031†	60.5	3.85	6.36%	[0.00]	mg/L
Na 589.592†	-157.7	29.69	18.82%	[0.00]	mg/L
Na 330.237†	-184.6	13.29	7.20%	[0.00]	mg/L
Ni 231.604†	-44.6	2.74	6.13%	[0.00]	mg/L
Pb 220.353†	-117.7	5.80	4.93%	[0.00]	mg/L
Sb 206.836†	32.0	7.15	22.34%	[0.00]	mg/L
Se 196.026†	-76.8	3.48	4.53%	[0.00]	mg/L
Si 288.158†	34.3	5.52	16.10%	[0.00]	mg/L
Sn 189.927†	-8.4	0.32	3.74%	[0.00]	mg/L
Sr 421.552†	-713.2	22.33	3.13%	[0.00]	mg/L
Ti 334.903†	355.1	16.86	4.75%	[0.00]	mg/L
Tl 190.801†	-31.0	2.83	9.14%	[0.00]	mg/L
V 292.402†	-94.4	23.13	24.50%	[0.00]	mg/L
Zn 206.200†	-1.5	1.40	91.89%	[0.00]	mg/L

=====  
Analysis Begun

Start Time: 3/22/2011 11:38:50 AM

Plasma On Time: 3/22/2011 10:12:03 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\0322.sif

Batch ID:

Results Data Set: I2110322

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

=====  
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV |

Date Collected: 3/22/2011 11:38:51 AM

Data Type: Original

Dilution: 1X

-----  
Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

-----  
Mean Data: CV

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
ScA 357.253	2528182.9	104.1	%	0.60				0.58%
ScR 361.383	422032.4	105.4	%	0.21				0.20%
Ag 328.068†	191022.0	1.001	mg/L	0.0084	1.001	mg/L	0.0084	0.84%
Al 308.215†	2817.8	1.992	mg/L	0.0209	1.992	mg/L	0.0209	1.05%
As 188.979†	2855.1	2.030	mg/L	0.0019	2.030	mg/L	0.0019	0.10%
B 249.677†	5821.8	1.001	mg/L	0.0036	1.001	mg/L	0.0036	0.36%
Ba 233.527†	6764.9	0.9775	mg/L	0.00369	0.9775	mg/L	0.00369	0.38%
Be 313.042†	888655.7	0.9805	mg/L	0.00670	0.9805	mg/L	0.00670	0.68%
Ca 317.933†	24118.5	2.125	mg/L	0.0074	2.125	mg/L	0.0074	0.35%
Cd 228.802†	27835.3	0.9997	mg/L	0.00196	0.9997	mg/L	0.00196	0.20%
Co 228.616†	31705.5	0.9734	mg/L	0.00357	0.9734	mg/L	0.00357	0.37%
Cr 267.716†	7720.2	0.9984	mg/L	0.00105	0.9984	mg/L	0.00105	0.11%
Cu 324.752†	229519.6	0.9914	mg/L	0.00503	0.9914	mg/L	0.00503	0.51%
Fe 273.955†	2488.2	2.006	mg/L	0.0157	2.006	mg/L	0.0157	0.78%
K 766.490†	37937.4	20.51	mg/L	0.045	20.51	mg/L	0.045	0.22%
Mg 279.077†	2243.3	1.978	mg/L	0.0098	1.978	mg/L	0.0098	0.50%
Mn 257.610†	46585.3	0.9743	mg/L	0.00589	0.9743	mg/L	0.00589	0.60%
Mo 202.031†	15838.1	0.9939	mg/L	0.00111	0.9939	mg/L	0.00111	0.11%
Na 589.592†	644477.4	49.43	mg/L	0.228	49.43	mg/L	0.228	0.46%
Na 330.237†	1308.9	50.49	mg/L	0.514	50.49	mg/L	0.514	1.02%
Ni 231.604†	3569.5	1.003	mg/L	0.0041	1.003	mg/L	0.0041	0.41%
Pb 220.353†	15977.6	1.945	mg/L	0.0164	1.945	mg/L	0.0164	0.84%
Sb 206.836†	5093.5	2.029	mg/L	0.0001	2.029	mg/L	0.0001	0.01%
Se 196.026†	2433.1	2.012	mg/L	0.0019	2.012	mg/L	0.0019	0.09%
Si 288.158†	3404.4	1.953	mg/L	0.0187	1.953	mg/L	0.0187	0.96%
Sn 189.927†	4846.9	0.9857	mg/L	0.00050	0.9857	mg/L	0.00050	0.05%
Sr 421.552†	913735.1	0.9966	mg/L	0.00345	0.9966	mg/L	0.00345	0.35%
Ti 334.903†	27257.5	0.9691	mg/L	0.00427	0.9691	mg/L	0.00427	0.44%
Tl 190.801†	3260.7	1.976	mg/L	0.0024	1.976	mg/L	0.0024	0.12%
V 292.402†	160165.6	0.9897	mg/L	0.00863	0.9897	mg/L	0.00863	0.87%
Zn 206.200†	3888.3	0.9990	mg/L	0.00471	0.9990	mg/L	0.00471	0.47%

Sequence No.: 2

Autosampler Location: 1

Sample ID: CB 1

Date Collected: 3/22/2011 11:42:03 AM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

## Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2459100.4	101.3	%	0.51				0.50%
ScR 361.383	408918.6	102.1	%	0.35				0.35%
Ag 328.068†	-48.9	-0.00026	mg/L	0.000386	-0.00026	mg/L	0.000386	150.73%
Al 308.215†	-21.5	-0.01545	mg/L	0.002340	-0.01545	mg/L	0.002340	15.14%
As 188.979†	-1.7	-0.00120	mg/L	0.001935	-0.00120	mg/L	0.001935	161.58%
B 249.677†	9.4	0.00162	mg/L	0.000417	0.00162	mg/L	0.000417	25.78%
Ba 233.527†	-1.9	-0.00028	mg/L	0.000181	-0.00028	mg/L	0.000181	65.14%
Be 313.042†	32.9	0.00004	mg/L	0.000021	0.00004	mg/L	0.000021	57.32%
Ca 317.933†	-1.8	-0.00016	mg/L	0.000573	-0.00016	mg/L	0.000573	362.97%
Cd 228.802†	1.3	0.00005	mg/L	0.000009	0.00005	mg/L	0.000009	16.62%
Co 228.616†	0.2	0.00000	mg/L	0.000042	0.00000	mg/L	0.000042	960.97%
Cr 267.716†	0.4	0.00005	mg/L	0.000394	0.00005	mg/L	0.000394	821.29%
Cu 324.752†	88.9	0.00038	mg/L	0.000016	0.00038	mg/L	0.000016	4.12%
Fe 273.955†	1.2	0.00099	mg/L	0.001761	0.00099	mg/L	0.001761	177.84%
K 766.490†	-18.7	-0.01012	mg/L	0.012839	-0.01012	mg/L	0.012839	126.91%
Mg 279.077†	-18.8	-0.01653	mg/L	0.006368	-0.01653	mg/L	0.006368	38.54%
Mn 257.610†	3.5	0.00007	mg/L	0.000007	0.00007	mg/L	0.000007	10.09%
Mo 202.031†	31.1	0.00195	mg/L	0.000687	0.00195	mg/L	0.000687	35.25%
Na 589.592†	12.2	0.00093	mg/L	0.003433	0.00093	mg/L	0.003433	367.64%
Na 330.237†	-32.0	-1.233	mg/L	0.2083	-1.233	mg/L	0.2083	16.90%
Ni 231.604†	-1.2	-0.00033	mg/L	0.000783	-0.00033	mg/L	0.000783	236.39%
Pb 220.353†	-6.5	-0.00079	mg/L	0.000536	-0.00079	mg/L	0.000536	67.70%
Sb 206.836†	6.0	0.00240	mg/L	0.001841	0.00240	mg/L	0.001841	76.79%
Se 196.026†	-0.4	-0.00031	mg/L	0.006189	-0.00031	mg/L	0.006189	>999.9%
Si 288.158†	-1.1	-0.00062	mg/L	0.000687	-0.00062	mg/L	0.000687	111.31%
Sn 189.927†	2.0	0.00041	mg/L	0.000391	0.00041	mg/L	0.000391	96.56%
Sr 421.552†	-45.0	-0.00005	mg/L	0.000022	-0.00005	mg/L	0.000022	45.21%
Ti 334.903†	26.1	0.00093	mg/L	0.000503	0.00093	mg/L	0.000503	54.36%
Tl 190.801†	2.2	0.00137	mg/L	0.000473	0.00137	mg/L	0.000473	34.62%
V 292.402†	-1.5	-0.00001	mg/L	0.000104	-0.00001	mg/L	0.000104	>999.9%
Zn 206.200†	0.3	0.00007	mg/L	0.000024	0.00007	mg/L	0.000024	36.23%

Sequence No.: 3  
Sample ID: CRI

Autosampler Location: 301  
Date Collected: 3/22/2011 11:46:13 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2561171.8		105.5 %	0.42				0.40%
ScR 361.383	422492.6		105.5 %	1.82				1.72%
Ag 328.068†	602.2	0.00315	mg/L	0.000093	0.00315	mg/L	0.000093	2.95%
Al 308.215†	61.3	0.04395	mg/L	0.007898	0.04395	mg/L	0.007898	17.97%
As 188.979†	72.0	0.05105	mg/L	0.001817	0.05105	mg/L	0.001817	3.56%
B 249.677†	124.6	0.02145	mg/L	0.000793	0.02145	mg/L	0.000793	3.70%
Ba 233.527†	19.1	0.00276	mg/L	0.000291	0.00276	mg/L	0.000291	10.57%
Be 313.042†	896.6	0.00099	mg/L	0.000027	0.00099	mg/L	0.000027	2.76%
Ca 317.933†	538.5	0.04744	mg/L	0.002179	0.04744	mg/L	0.002179	4.59%
Cd 228.802†	62.5	0.00208	mg/L	0.000022	0.00208	mg/L	0.000022	1.05%
Co 228.616†	107.2	0.00329	mg/L	0.000200	0.00329	mg/L	0.000200	6.08%
Cr 267.716†	37.2	0.00481	mg/L	0.000824	0.00481	mg/L	0.000824	17.13%
Cu 324.752†	495.7	0.00214	mg/L	0.000061	0.00214	mg/L	0.000061	2.84%
Fe 273.955†	69.6	0.05625	mg/L	0.001455	0.05625	mg/L	0.001455	2.59%
K 766.490†	1138.9	0.6157	mg/L	0.01073	0.6157	mg/L	0.01073	1.74%
Mg 279.077†	49.8	0.04379	mg/L	0.015728	0.04379	mg/L	0.015728	35.92%
Mn 257.610†	47.0	0.00099	mg/L	0.000052	0.00099	mg/L	0.000052	5.31%
Mo 202.031†	80.5	0.00505	mg/L	0.000040	0.00505	mg/L	0.000040	0.78%
Na 589.592†	6507.5	0.4991	mg/L	0.00350	0.4991	mg/L	0.00350	0.70%
Na 330.237†	-7.4	-0.2846	mg/L	0.13787	-0.2846	mg/L	0.13787	48.44%
Ni 231.604†	37.5	0.01054	mg/L	0.001799	0.01054	mg/L	0.001799	17.06%
Pb 220.353†	168.1	0.02046	mg/L	0.001008	0.02046	mg/L	0.001008	4.93%
Sb 206.836†	126.9	0.05050	mg/L	0.000746	0.05050	mg/L	0.000746	1.48%
Se 196.026†	64.5	0.05332	mg/L	0.001658	0.05332	mg/L	0.001658	3.11%
Si 288.158†	99.3	0.05681	mg/L	0.005352	0.05681	mg/L	0.005352	9.42%
Sn 189.927†	53.0	0.01080	mg/L	0.001094	0.01080	mg/L	0.001094	10.13%
Sr 421.552†	878.8	0.00096	mg/L	0.000031	0.00096	mg/L	0.000031	3.24%
Ti 334.903†	140.0	0.00497	mg/L	0.000991	0.00497	mg/L	0.000991	19.94%
Tl 190.801†	89.0	0.05398	mg/L	0.002616	0.05398	mg/L	0.002616	4.85%
V 292.402†	479.7	0.00297	mg/L	0.000008	0.00297	mg/L	0.000008	0.28%
Zn 206.200†	40.3	0.01034	mg/L	0.001084	0.01034	mg/L	0.001084	10.48%

Sequence No.: 4  
Sample ID: ICSA

Autosampler Location: 302  
Date Collected: 3/22/2011 11:50:09 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2446885.0	100.8 %		0.81			0.81%
ScR 361.383	416013.1	103.9 %		0.88			0.85%
Ag 328.068†	-35.3	-0.00018 mg/L		0.000119	-0.00018 mg/L	0.000119	65.32%
Al 308.215†	281759.1	202.6 mg/L		0.21	202.6 mg/L	0.21	0.10%
As 188.979†	31.2	0.01303 mg/L		0.006147	0.01303 mg/L	0.006147	47.19%
B 249.677†	-36.1	-0.00621 mg/L		0.002528	-0.00621 mg/L	0.002528	40.68%
Ba 233.527†	92.1	0.00026 mg/L		0.001185	0.00026 mg/L	0.001185	449.18%
Be 313.042†	59.3	0.00006 mg/L		0.000033	0.00006 mg/L	0.000033	59.03%
Ca 317.933†	1168615.4	103.0 mg/L		0.31	103.0 mg/L	0.31	0.30%
Cd 228.802†	33.8	0.00114 mg/L		0.000150	0.00114 mg/L	0.000150	13.15%
Co 228.616†	44.7	0.00135 mg/L		0.000198	0.00135 mg/L	0.000198	14.74%
Cr 267.716†	-7.2	-0.00068 mg/L		0.001914	-0.00068 mg/L	0.001914	281.46%
Cu 324.752†	-2322.7	-0.00044 mg/L		0.000203	-0.00044 mg/L	0.000203	45.73%
Fe 273.955†	248202.9	200.6 mg/L		0.07	200.6 mg/L	0.07	0.03%
K 766.490†	6.6	0.00357 mg/L		0.004927	0.00357 mg/L	0.004927	137.97%
Mg 279.077†	120550.6	106.0 mg/L		0.86	106.0 mg/L	0.86	0.82%
Mn 257.610†	40.1	0.00072 mg/L		0.000237	0.00072 mg/L	0.000237	32.75%
Mo 202.031†	99.3	0.00432 mg/L		0.000074	0.00432 mg/L	0.000074	1.70%
Na 589.592†	129.3	0.00992 mg/L		0.000978	0.00992 mg/L	0.000978	9.87%
Na 330.237†	-3.0	-0.1117 mg/L		0.40894	-0.1117 mg/L	0.40894	365.97%
Ni 231.604†	12.8	0.00360 mg/L		0.000169	0.00360 mg/L	0.000169	4.69%
Pb 220.353†	-252.6	-0.00296 mg/L		0.000215	-0.00296 mg/L	0.000215	7.27%
Sb 206.836†	8.3	0.00307 mg/L		0.001869	0.00307 mg/L	0.001869	60.79%
Se 196.026†	65.7	0.02964 mg/L		0.004364	0.02964 mg/L	0.004364	14.72%
Si 288.158†	-33.3	-0.00631 mg/L		0.002622	-0.00631 mg/L	0.002622	41.54%
Sn 189.927†	-134.2	0.00006 mg/L		0.000696	0.00006 mg/L	0.000696	>999.9%
Sr 421.552†	3363.7	0.00367 mg/L	cont	0.000027	0.00367 mg/L	0.000027	0.73%
Ti 334.903†	471.4	-0.00109 mg/L		0.000800	-0.00109 mg/L	0.000800	73.68%
Tl 190.801†	-46.2	-0.00092 mg/L		0.004785	-0.00092 mg/L	0.004785	522.19%
V 292.402†	2751.5	0.00044 mg/L		0.000813	0.00044 mg/L	0.000813	182.95%
Zn 206.200†	13.2	0.00340 mg/L		0.001601	0.00340 mg/L	0.001601	47.14%

Sequence No.: 5  
Sample ID: ICSAB

Autosampler Location: 303  
Date Collected: 3/22/2011 11:54:20 AM  
Data Type: Original

Dilution: 1X

-----  
Nebulizer Parameters: ICSAB

Analyte                      Back Pressure              Flow  
All                              210.0 kPa                      0.75 L/min

-----  
Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2382322.5	98.11 %	0.648			0.66%
ScR 361.383	405152.4	101.2 %	1.82			1.80%
Ag 328.068†	192723.6	1.010 mg/L	0.0024	1.010 mg/L	0.0024	0.24%
Al 308.215†	282537.8	203.2 mg/L	0.53	203.2 mg/L	0.53	0.26%
As 188.979†	1450.2	1.019 mg/L	0.0067	1.019 mg/L	0.0067	0.66%
B 249.677†	-21.2	-0.00586 mg/L	0.000008	-0.00586 mg/L	0.000008	0.14%
Ba 233.527†	6897.2	0.9837 mg/L	0.01445	0.9837 mg/L	0.01445	1.47%
Be 313.042†	910608.8	1.005 mg/L	0.0029	1.005 mg/L	0.0029	0.29%
Ca 317.933†	1163392.1	102.5 mg/L	0.27	102.5 mg/L	0.27	0.27%
Cd 228.802†	27616.3	0.9953 mg/L	0.00208	0.9953 mg/L	0.00208	0.21%
Co 228.616†	30096.2	0.9252 mg/L	0.00135	0.9252 mg/L	0.00135	0.15%
Cr 267.716†	7826.0	1.013 mg/L	0.0142	1.013 mg/L	0.0142	1.40%
Cu 324.752†	230812.7	1.007 mg/L	0.0018	1.007 mg/L	0.0018	0.18%
Fe 273.955†	247946.9	200.4 mg/L	0.53	200.4 mg/L	0.53	0.26%
K 766.490†	1016.1	0.5493 mg/L	0.01786	0.5493 mg/L	0.01786	3.25%
Mg 279.077†	116118.0	102.1 mg/L	0.21	102.1 mg/L	0.21	0.20%
Mn 257.610†	44955.2	0.9399 mg/L	0.00143	0.9399 mg/L	0.00143	0.15%
Mo 202.031†	108.3	0.00489 mg/L	0.000188	0.00489 mg/L	0.000188	3.84%
Na 589.592†	179.6	0.01377 mg/L	0.002438	0.01377 mg/L	0.002438	17.70%
Na 330.237†	-5.9	-0.4792 mg/L	0.15445	-0.4792 mg/L	0.15445	32.23%
Ni 231.604†	3471.4	0.9746 mg/L	0.01275	0.9746 mg/L	0.01275	1.31%
Pb 220.353†	7595.8	0.9527 mg/L	0.00623	0.9527 mg/L	0.00623	0.65%
Sb 206.836†	2636.0	1.040 mg/L	0.0072	1.040 mg/L	0.0072	0.70%
Se 196.026†	1269.9	1.026 mg/L	0.0082	1.026 mg/L	0.0082	0.80%
Si 288.158†	-38.9	-0.00629 mg/L	0.007409	-0.00629 mg/L	0.007409	117.77%
Sn 189.927†	-138.0	-0.00016 mg/L	0.001656	-0.00016 mg/L	0.001656	>999.9%
Sr 421.552†	3352.5	0.00366 mg/L	0.000032	0.00366 mg/L	0.000032	0.88%
Ti 334.903†	514.9	0.00039 mg/L	0.000641	0.00039 mg/L	0.000641	166.36%
Tl 190.801†	1500.1	0.9322 mg/L	0.00376	0.9322 mg/L	0.00376	0.40%
V 292.402†	158697.1	0.9641 mg/L	0.00210	0.9641 mg/L	0.00210	0.22%
Zn 206.200†	3826.7	0.9834 mg/L	0.01381	0.9834 mg/L	0.01381	1.40%



Sequence No.: 6

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 3/22/2011 11:58:04 AM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

## Mean Data: CV

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2456827.2	101.2	%	1.18				1.17%
ScR 361.383	407192.6	101.7	%	0.74				0.72%
Ag 328.068†	192653.1	1.009	mg/L	0.0094	1.009	mg/L	0.0094	0.93%
Al 308.215†	2857.4	2.021	mg/L	0.0345	2.021	mg/L	0.0345	1.71%
As 188.979†	2848.5	2.025	mg/L	0.0190	2.025	mg/L	0.0190	0.94%
B 249.677†	5864.2	1.008	mg/L	0.0093	1.008	mg/L	0.0093	0.92%
Ba 233.527†	6842.7	0.9887	mg/L	0.00894	0.9887	mg/L	0.00894	0.90%
Be 313.042†	896539.0	0.9892	mg/L	0.00786	0.9892	mg/L	0.00786	0.79%
Ca 317.933†	24520.3	2.160	mg/L	0.0114	2.160	mg/L	0.0114	0.53%
Cd 228.802†	28119.4	1.010	mg/L	0.0118	1.010	mg/L	0.0118	1.17%
Co 228.616†	31941.1	0.9806	mg/L	0.01195	0.9806	mg/L	0.01195	1.22%
Cr 267.716†	7865.6	1.017	mg/L	0.0053	1.017	mg/L	0.0053	0.52%
Cu 324.752†	231862.1	1.002	mg/L	0.0121	1.002	mg/L	0.0121	1.21%
Fe 273.955†	2511.3	2.025	mg/L	0.0190	2.025	mg/L	0.0190	0.94%
K 766.490†	38718.4	20.93	mg/L	0.059	20.93	mg/L	0.059	0.28%
Mg 279.077†	2283.4	2.013	mg/L	0.0166	2.013	mg/L	0.0166	0.82%
Mn 257.610†	47003.2	0.9831	mg/L	0.00579	0.9831	mg/L	0.00579	0.59%
Mo 202.031†	15908.4	0.9983	mg/L	0.01147	0.9983	mg/L	0.01147	1.15%
Na 589.592†	644821.8	49.46	mg/L	0.118	49.46	mg/L	0.118	0.24%
Na 330.237†	1316.6	50.78	mg/L	0.792	50.78	mg/L	0.792	1.56%
Ni 231.604†	3601.0	1.012	mg/L	0.0130	1.012	mg/L	0.0130	1.29%
Pb 220.353†	16008.0	1.949	mg/L	0.0243	1.949	mg/L	0.0243	1.25%
Sb 206.836†	5132.9	2.045	mg/L	0.0239	2.045	mg/L	0.0239	1.17%
Se 196.026†	2419.8	2.001	mg/L	0.0150	2.001	mg/L	0.0150	0.75%
Si 288.158†	3463.7	1.987	mg/L	0.0233	1.987	mg/L	0.0233	1.17%
Sn 189.927†	4854.1	0.9872	mg/L	0.00941	0.9872	mg/L	0.00941	0.95%
Sr 421.552†	923586.4	1.007	mg/L	0.0023	1.007	mg/L	0.0023	0.23%
Ti 334.903†	27434.4	0.9754	mg/L	0.00309	0.9754	mg/L	0.00309	0.32%
Tl 190.801†	3266.9	1.980	mg/L	0.0178	1.980	mg/L	0.0178	0.90%
V 292.402†	160982.0	0.9948	mg/L	0.00776	0.9948	mg/L	0.00776	0.78%
Zn 206.200†	3928.2	1.009	mg/L	0.0072	1.009	mg/L	0.0072	0.71%

Sequence No.: 7

Autosampler Location: 1

Sample ID: CB 2

Date Collected: 3/22/2011 12:01:16 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2462975.2	101.4	%	0.34			0.34%
ScR 361.383	416238.2	103.9	%	0.35			0.34%
Ag 328.068†	-11.4	-0.00006	mg/L	0.000068	-0.00006	mg/L	0.000068 113.30%
Al 308.215†	-12.9	-0.00930	mg/L	0.001269	-0.00930	mg/L	0.001269 13.65%
As 188.979†	-0.1	-0.00010	mg/L	0.002683	-0.00010	mg/L	0.002683 >999.9%
B 249.677†	10.2	0.00177	mg/L	0.001297	0.00177	mg/L	0.001297 73.47%
Ba 233.527†	-3.2	-0.00047	mg/L	0.000745	-0.00047	mg/L	0.000745 159.88%
Be 313.042†	3.8	0.00000	mg/L	0.000014	0.00000	mg/L	0.000014 337.41%
Ca 317.933†	-7.1	-0.00062	mg/L	0.001095	-0.00062	mg/L	0.001095 175.60%
Cd 228.802†	0.9	0.00003	mg/L	0.000063	0.00003	mg/L	0.000063 192.26%
Co 228.616†	3.0	0.00009	mg/L	0.000113	0.00009	mg/L	0.000113 125.42%
Cr 267.716†	-3.5	-0.00045	mg/L	0.000075	-0.00045	mg/L	0.000075 16.55%
Cu 324.752†	76.3	0.00033	mg/L	0.000124	0.00033	mg/L	0.000124 37.58%
Fe 273.955†	2.2	0.00180	mg/L	0.002688	0.00180	mg/L	0.002688 149.25%
K 766.490†	10.6	0.00571	mg/L	0.017402	0.00571	mg/L	0.017402 304.79%
Mg 279.077†	-6.5	-0.00575	mg/L	0.005338	-0.00575	mg/L	0.005338 92.80%
Mn 257.610†	-0.2	-0.00001	mg/L	0.000130	-0.00001	mg/L	0.000130 >999.9%
Mo 202.031†	35.2	0.00221	mg/L	0.000557	0.00221	mg/L	0.000557 25.18%
Na 589.592†	94.8	0.00727	mg/L	0.002461	0.00727	mg/L	0.002461 33.85%
Na 330.237†	-23.5	-0.9057	mg/L	0.26022	-0.9057	mg/L	0.26022 28.73%
Ni 231.604†	4.0	0.00113	mg/L	0.000635	0.00113	mg/L	0.000635 55.94%
Pb 220.353†	-9.4	-0.00115	mg/L	0.000634	-0.00115	mg/L	0.000634 55.32%
Sb 206.836†	10.7	0.00425	mg/L	0.000914	0.00425	mg/L	0.000914 21.50%
Se 196.026†	-2.5	-0.00206	mg/L	0.003123	-0.00206	mg/L	0.003123 151.94%
Si 288.158†	-0.1	-0.00003	mg/L	0.002637	-0.00003	mg/L	0.002637 >999.9%
Sn 189.927†	5.0	0.00102	mg/L	0.000367	0.00102	mg/L	0.000367 35.93%
Sr 421.552†	-26.4	-0.00003	mg/L	0.000003	-0.00003	mg/L	0.000003 10.42%
Ti 334.903†	27.6	0.00098	mg/L	0.000518	0.00098	mg/L	0.000518 52.81%
Tl 190.801†	-0.3	-0.00020	mg/L	0.001372	-0.00020	mg/L	0.001372 683.18%
V 292.402†	-6.6	-0.00004	mg/L	0.000078	-0.00004	mg/L	0.000078 187.98%
Zn 206.200†	-1.4	-0.00035	mg/L	0.000374	-0.00035	mg/L	0.000374 106.12%

Sequence No.: 8

Autosampler Location: 304

Sample ID: SN04 MB1 SWC

Date Collected: 3/22/2011 12:05:26 PM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN04 MB1 SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: SN04 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2486692.5	102.4	%	1.17			1.14%
ScR 361.383	415763.1	103.8	%	0.49			0.47%
Ag 328.068†	29.5	0.00015	mg/L	0.000232	0.00031	mg/L	0.000464 150.05%
Al 308.215†	-5.0	-0.00359	mg/L	0.003195	-0.00718	mg/L	0.006391 89.04%
As 188.979†	-2.9	-0.00205	mg/L	0.001478	-0.00409	mg/L	0.002956 72.18%
B 249.677†	-0.4	-0.00007	mg/L	0.001527	-0.00013	mg/L	0.003054 >999.9%
Ba 233.527†	1.7	0.00024	mg/L	0.000680	0.00048	mg/L	0.001359 285.13%
Be 313.042†	32.3	0.00004	mg/L	0.000012	0.00007	mg/L	0.000024 34.35%
Ca 317.933†	79.7	0.00702	mg/L	0.000275	0.01404	mg/L	0.000551 3.92%
Cd 228.802†	0.1	0.00001	mg/L	0.000132	0.00002	mg/L	0.000264 >999.9%
Co 228.616†	0.8	0.00002	mg/L	0.000021	0.00005	mg/L	0.000042 89.00%
Cr 267.716†	0.3	0.00003	mg/L	0.000409	0.00007	mg/L	0.000817 >999.9%
Cu 324.752†	55.5	0.00024	mg/L	0.000160	0.00048	mg/L	0.000320 66.60%
Fe 273.955†	4.6	0.00371	mg/L	0.000425	0.00741	mg/L	0.000850 11.47%
K 766.490†	218.4	0.1181	mg/L	0.00518	0.2362	mg/L	0.01035 4.38%
Mg 279.077†	-3.7	-0.00323	mg/L	0.003862	-0.00645	mg/L	0.007724 119.67%
Mn 257.610†	5.2	0.00011	mg/L	0.000050	0.00022	mg/L	0.000099 45.88%
Mo 202.031†	-0.0	0.00000	mg/L	0.000168	0.00000	mg/L	0.000335 >999.9%
Na 589.592†	62.3	0.00478	mg/L	0.001936	0.00956	mg/L	0.003871 40.50%
Na 330.237†	-18.8	-0.7249	mg/L	0.07401	-1.450	mg/L	0.1480 10.21%
Ni 231.604†	3.8	0.00107	mg/L	0.002117	0.00213	mg/L	0.004234 198.31%
Pb 220.353†	-9.5	-0.00116	mg/L	0.001097	-0.00232	mg/L	0.002195 94.78%
Sb 206.836†	-1.1	-0.00045	mg/L	0.000716	-0.00089	mg/L	0.001432 160.05%
Se 196.026†	2.3	0.00191	mg/L	0.005851	0.00382	mg/L	0.011703 306.40%
Si 288.158†	-2.8	-0.00159	mg/L	0.003246	-0.00319	mg/L	0.006492 203.66%
Sn 189.927†	0.4	0.00008	mg/L	0.000113	0.00017	mg/L	0.000226 134.75%
Sr 421.552†	-31.9	-0.00003	mg/L	0.000008	-0.00007	mg/L	0.000016 23.61%
Ti 334.903†	1.4	0.00005	mg/L	0.000427	0.00010	mg/L	0.000854 856.20%
Tl 190.801†	2.9	0.00175	mg/L	0.001064	0.00349	mg/L	0.002129 60.93%
V 292.402†	11.3	0.00007	mg/L	0.000157	0.00014	mg/L	0.000314 226.28%
Zn 206.200†	-0.6	-0.00015	mg/L	0.000407	-0.00029	mg/L	0.000814 277.48%

Sequence No.: 9

Autosampler Location: 305

Sample ID: SN74 MB1 SWC

Date Collected: 3/22/2011 12:09:22 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN74 MB1 SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN74 MB1 SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2469597.9		101.7 %	0.47				0.46%
ScR 361.383	415664.4		103.8 %	0.83				0.80%
Ag 328.068†	29.3	0.00015	mg/L	0.000198	0.00031	mg/L	0.000395	128.79%
Al 308.215†	-11.0	-0.00793	mg/L	0.004223	-0.01587	mg/L	0.008446	53.23%
As 188.979†	0.1	0.00004	mg/L	0.001300	0.00008	mg/L	0.002601	>999.9%
B 249.677†	2.2	0.00038	mg/L	0.001183	0.00076	mg/L	0.002366	311.29%
Ba 233.527†	2.7	0.00038	mg/L	0.000519	0.00077	mg/L	0.001038	134.88%
Be 313.042†	45.3	0.00005	mg/L	0.000013	0.00010	mg/L	0.000026	25.74%
Ca 317.933†	31.6	0.00279	mg/L	0.001067	0.00557	mg/L	0.002134	38.31%
Cd 228.802†	1.6	0.00006	mg/L	0.000138	0.00011	mg/L	0.000275	239.56%
Co 228.616†	0.3	0.00001	mg/L	0.000117	0.00002	mg/L	0.000234	>999.9%
Cr 267.716†	-0.6	-0.00008	mg/L	0.000832	-0.00016	mg/L	0.001664	>999.9%
Cu 324.752†	80.3	0.00035	mg/L	0.000059	0.00069	mg/L	0.000118	17.06%
Fe 273.955†	3.9	0.00312	mg/L	0.000903	0.00624	mg/L	0.001806	28.97%
K 766.490†	-1.1	-0.00059	mg/L	0.001208	-0.00118	mg/L	0.002416	204.71%
Mg 279.077†	-2.9	-0.00259	mg/L	0.006961	-0.00517	mg/L	0.013923	269.13%
Mn 257.610†	5.6	0.00012	mg/L	0.000088	0.00023	mg/L	0.000176	75.53%
Mo 202.031†	1.4	0.00008	mg/L	0.000325	0.00017	mg/L	0.000651	383.88%
Na 589.592†	28.2	0.00216	mg/L	0.004811	0.00432	mg/L	0.009622	222.75%
Na 330.237†	-11.5	-0.4434	mg/L	0.21036	-0.8868	mg/L	0.42072	47.44%
Ni 231.604†	2.9	0.00081	mg/L	0.000956	0.00162	mg/L	0.001913	118.20%
Pb 220.353†	-10.0	-0.00122	mg/L	0.000342	-0.00244	mg/L	0.000683	27.95%
Sb 206.836†	-0.2	-0.00008	mg/L	0.000690	-0.00015	mg/L	0.001379	911.05%
Se 196.026†	-2.4	-0.00195	mg/L	0.004684	-0.00390	mg/L	0.009367	240.19%
Si 288.158†	6.0	0.00344	mg/L	0.003902	0.00687	mg/L	0.007804	113.52%
Sn 189.927†	2.8	0.00056	mg/L	0.000844	0.00112	mg/L	0.001688	150.65%
Sr 421.552†	-56.8	-0.00006	mg/L	0.000014	-0.00012	mg/L	0.000028	22.59%
Ti 334.903†	0.7	0.00002	mg/L	0.000845	0.00005	mg/L	0.001691	>999.9%
Tl 190.801†	2.9	0.00174	mg/L	0.001548	0.00348	mg/L	0.003095	89.06%
V 292.402†	-0.8	-0.00001	mg/L	0.000123	-0.00001	mg/L	0.000247	>999.9%
Zn 206.200†	-0.7	-0.00017	mg/L	0.000259	-0.00034	mg/L	0.000517	150.91%

Sequence No.: 10  
 Sample ID: SN74 C-L SWC

Autosampler Location: 306  
 Date Collected: 3/22/2011 12:13:32 PM  
 Data Type: Original

Dilution: 10X

Nebulizer Parameters: SN74 C-L SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN74 C-L SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2464394.9	101.5	%	0.19				0.18%
ScR 361.383	419351.9	104.7	%	0.53				0.50%
Ag 328.068†	119.8	0.00057	mg/L	0.000084	0.00573	mg/L	0.000838	14.63%
Al 308.215†	10849.1	7.799	mg/L	0.0078	77.99	mg/L	0.078	0.10%
As 188.979†	5.7	0.00727	mg/L	0.000357	0.07273	mg/L	0.003572	4.91%
B 249.677†	44.6	0.00767	mg/L	0.000242	0.07667	mg/L	0.002415	3.15%
Ba 233.527†	791.9	0.1134	mg/L	0.00136	1.134	mg/L	0.0136	1.20%
Be 313.042†	184.8	0.00018	mg/L	0.000019	0.00180	mg/L	0.000187	10.40%
Ca 317.933†	58526.3	5.156	mg/L	0.0090	51.56	mg/L	0.090	0.18%
Cd 228.802†	109.6	0.00397	mg/L	0.000276	0.03971	mg/L	0.002756	6.94%
Co 228.616†	291.8	0.00816	mg/L	0.000213	0.08160	mg/L	0.002127	2.61%
Cr 267.716†	2030.1	0.2632	mg/L	0.00324	2.632	mg/L	0.0324	1.23%
Cu 324.752†	23707.6	0.1031	mg/L	0.00058	1.031	mg/L	0.0058	0.57%
Fe 273.955†	21102.6	17.06	mg/L	0.099	170.6	mg/L	0.99	0.58%
K 766.490†	1424.8	0.7703	mg/L	0.02140	7.703	mg/L	0.2140	2.78%
Mg 279.077†	3240.7	2.844	mg/L	0.0194	28.44	mg/L	0.194	0.68%
Mn 257.610†	17214.7	0.3600	mg/L	0.00201	3.600	mg/L	0.0201	0.56%
Mo 202.031†	111.4	0.00689	mg/L	0.000249	0.06894	mg/L	0.002490	3.61%
Na 589.592†	4566.2	0.3502	mg/L	0.00126	3.502	mg/L	0.0126	0.36%
Na 330.237†	-0.6	-0.1043	mg/L	0.25893	-1.043	mg/L	2.5893	248.24%
Ni 231.604†	137.3	0.03852	mg/L	0.000707	0.3852	mg/L	0.00707	1.84%
Pb 220.353†	1277.6	0.1563	mg/L	0.00049	1.563	mg/L	0.0049	0.31%
Sb 206.836†	16.3	0.00484	mg/L	0.000753	0.04840	mg/L	0.007529	15.56%
Se 196.026†	1.2	-0.00006	mg/L	0.000725	-0.00058	mg/L	0.007253	>999.9%
Si 288.158†	497.0	0.2847	mg/L	0.00716	2.847	mg/L	0.0716	2.52%
Sn 189.927†	32.8	0.00820	mg/L	0.000378	0.08197	mg/L	0.003783	4.61%
Sr 421.552†	25099.9	0.02737	mg/L	0.000113	0.2737	mg/L	0.00113	0.41%
Ti 334.903†	13584.9	0.4829	mg/L	0.00242	4.829	mg/L	0.0242	0.50%
Tl 190.801†	-1.4	0.00131	mg/L	0.001576	0.01314	mg/L	0.015761	119.94%
V 292.402†	7295.0	0.04445	mg/L	0.000396	0.4445	mg/L	0.00396	0.89%
Zn 206.200†	3635.9	0.9344	mg/L	0.00770	9.344	mg/L	0.0770	0.82%

Sequence No.: 11  
Sample ID: SN74 C SWC

Autosampler Location: 307  
Date Collected: 3/22/2011 12:17:28 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN74 C SWC

Analyte Back Pressure Flow  
All 210.0 kPa 0.75 L/min

Mean Data: SN74 C SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2509673.4		103.4	%	0.31			0.30%
ScR 361.383	423859.0		105.8	%	1.19			1.12%
Ag 328.068†	518.2	0.00244	mg/L	0.000164	0.00489	mg/L	0.000328	6.71%
Al 308.215†	54226.6	38.98	mg/L	0.163	77.96	mg/L	0.326	0.42%
As 188.979†	35.0	0.04087	mg/L	0.002177	0.08174	mg/L	0.004355	5.33%
B 249.677†	218.4	0.03753	mg/L	0.000729	0.07506	mg/L	0.001458	1.94%
Ba 233.527†	3880.6	0.5554	mg/L	0.00410	1.111	mg/L	0.0082	0.74%
Be 313.042†	729.5	0.00069	mg/L	0.000022	0.00138	mg/L	0.000043	3.15%
Ca 317.933†	295065.8	26.00	mg/L	0.021	51.99	mg/L	0.043	0.08%
Cd 228.802†	492.1	0.01781	mg/L	0.000166	0.03562	mg/L	0.000332	0.93%
Co 228.616†	1390.7	0.03872	mg/L	0.000191	0.07744	mg/L	0.000381	0.49%
Cr 267.716†	9934.1	1.288	mg/L	0.0043	2.576	mg/L	0.0086	0.33%
Cu 324.752†	118829.0	0.5169	mg/L	0.00599	1.034	mg/L	0.0120	1.16%
Fe 273.955†	105554.0	85.32	mg/L	0.273	170.6	mg/L	0.55	0.32%
K 766.490†	6315.9	3.415	mg/L	0.0115	6.829	mg/L	0.0231	0.34%
Mg 279.077†	15843.9	13.90	mg/L	0.074	27.81	mg/L	0.148	0.53%
Mn 257.610†	85510.3	1.788	mg/L	0.0073	3.576	mg/L	0.0147	0.41%
Mo 202.031†	513.8	0.03176	mg/L	0.000565	0.06352	mg/L	0.001129	1.78%
Na 589.592†	22556.9	1.730	mg/L	0.0072	3.460	mg/L	0.0143	0.41%
Na 330.237†	52.8	1.643	mg/L	0.1766	3.285	mg/L	0.3531	10.75%
Ni 231.604†	641.7	0.1801	mg/L	0.00167	0.3601	mg/L	0.00333	0.92%
Pb 220.353†	6101.5	0.7468	mg/L	0.00351	1.494	mg/L	0.0070	0.47%
Sb 206.836†	83.7	0.02534	mg/L	0.001493	0.05069	mg/L	0.002987	5.89%
Se 196.026†	24.9	0.01544	mg/L	0.003911	0.03088	mg/L	0.007823	25.33%
Si 288.158†	2508.8	1.437	mg/L	0.0152	2.874	mg/L	0.0304	1.06%
Sn 189.927†	173.5	0.04296	mg/L	0.001252	0.08592	mg/L	0.002505	2.92%
Sr 421.552†	124300.0	0.1356	mg/L	0.00042	0.2711	mg/L	0.00085	0.31%
Ti 334.903†	67747.4	2.408	mg/L	0.0073	4.816	mg/L	0.0145	0.30%
Tl 190.801†	-18.4	-0.00040	mg/L	0.001697	-0.00080	mg/L	0.003395	422.03%
V 292.402†	35680.6	0.2172	mg/L	0.00222	0.4345	mg/L	0.00444	1.02%
Zn 206.200†	17841.1	4.585	mg/L	0.0231	9.170	mg/L	0.0463	0.50%

Sequence No.: 12  
Sample ID: SN04 B SWC

Autosampler Location: 308  
Date Collected: 3/22/2011 12:21:23 PM  
Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN04 B SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

*rem*

## Mean Data: SN04 B SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2340271.9	96.38	%	0.152			0.16%
ScR 361.383	400011.7	99.88	%	0.511			0.51%
Ag 328.068†	4195.1	0.01968	mg/L	0.000121	0.03935	0.000242	0.61%
Al 308.215†	326290.5	234.6	mg/L	0.65	469.2	1.30	0.28%
As 188.979†	7328.3	5.211	mg/L	0.0111	10.42	0.022	0.21%
B 249.677†	1103.0	0.1893	mg/L	0.00247	0.3786	0.00493	1.30%
Ba 233.527†	15485.6	2.190	mg/L	0.0107	4.379	0.0214	0.49%
Be 313.042†	5346.7	0.00552	mg/L	0.000045	0.01104	0.000089	0.81%
Ca 317.933†	7823476.7	689.3	mg/L	5.15	1379	10.3	0.75%
Cd 228.802†	984.6	0.01696	mg/L	0.000421	0.03393	0.000842	2.48%
Co 228.616†	12631.7	0.3723	mg/L	0.00073	0.7446	0.00147	0.20%
Cr 267.716†	4166.2	0.5541	mg/L	0.00225	1.108	0.0045	0.41%
Cu 324.752†	3510660.1	15.20	mg/L	0.017	30.40	0.033	0.11%
Fe 273.955†	929178.6	751.1	mg/L	2.34	1502	4.7	0.31%
K 766.490†	54438.0	29.43	mg/L	0.155	58.86	0.310	0.53%
Mg 279.077†	139059.4	122.0	mg/L	0.43	244.1	0.87	0.36%
Mn 257.610†	653996.9	13.68	mg/L	0.038	27.35	0.077	0.28%
Mo 202.031†	5318.1	0.3209	mg/L	0.00120	0.6419	0.00240	0.37%
Na 589.592†	584703.3	44.85	mg/L	0.054	89.69	0.107	0.12%
Na 330.237†	1313.7	50.16	mg/L	0.215	100.3	0.43	0.43%
Ni 231.604†	908.1	0.2553	mg/L	0.00273	0.5106	0.00545	1.07%
Pb 220.353†	31532.0	3.821	mg/L	0.0151	7.642	0.0302	0.40%
Sb 206.836†	2167.8	0.8763	mg/L	0.00250	1.753	0.0050	0.29%
Se 196.026†	70.6	-0.05641	mg/L	0.020021	-0.1128	0.04004	35.49%
Si 288.158†	1909.5	1.108	mg/L	0.0106	2.215	0.0213	0.96%
Sn 189.927†	1547.3	0.5006	mg/L	0.00062	1.001	0.0012	0.12%
Sr 421.552†	1324467.5	1.445	mg/L	0.0035	2.889	0.0071	0.24%
Ti 334.903†	272891.8	9.600	mg/L	0.0168	19.20	0.034	0.18%
Tl 190.801†	-190.0	-0.01474	mg/L	0.010521	-0.02949	0.021043	71.36%
V 292.402†	115605.8	0.6481	mg/L	0.00075	1.296	0.0015	0.12%
Zn 206.200†	55239.5	14.20	mg/L	0.057	28.39	0.114	0.40%

Sequence No.: 13

Autosampler Location: 309

Sample ID: SN04 ADUP SWC

Date Collected: 3/22/2011 12:24:41 PM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN04 ADUP SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

## Mean Data: SN04 ADUP SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2482678.0	102.2	%	0.55				0.54%
ScR 361.383	418344.3	104.5	%	1.26				1.21%
Ag 328.068†	412.4	0.00194	mg/L	0.000101	0.00387	mg/L	0.000202	5.22%
Al 308.215†	192404.6	138.3	mg/L	0.39	276.7	mg/L	0.78	0.28%
As 188.979†	333.0	0.2813	mg/L	0.00452	0.5625	mg/L	0.00903	1.61%
B 249.677†	938.3	0.1614	mg/L	0.00019	0.3228	mg/L	0.00037	0.12%
Ba 233.527†	3929.1	0.5546	mg/L	0.00510	1.109	mg/L	0.0102	0.92%
Be 313.042†	2178.8	0.00219	mg/L	0.000024	0.00438	mg/L	0.000048	1.09%
Ca 317.933†	672560.6	59.26	mg/L	0.059	118.5	mg/L	0.12	0.10%
Cd 228.802†	154.0	0.00480	mg/L	0.000009	0.00960	mg/L	0.000017	0.18%
Co 228.616†	2529.5	0.06758	mg/L	0.000062	0.1352	mg/L	0.00012	0.09%
Cr 267.716†	1666.8	0.2205	mg/L	0.00062	0.4410	mg/L	0.00124	0.28%
Cu 324.752†	189978.3	0.8288	mg/L	0.00061	1.658	mg/L	0.0012	0.07%
Fe 273.955†	251633.3	203.4	mg/L	0.81	406.8	mg/L	1.62	0.40%
K 766.490†	33717.6	18.23	mg/L	0.040	36.46	mg/L	0.080	0.22%
Mg 279.077†	55616.3	48.85	mg/L	0.212	97.70	mg/L	0.424	0.43%
Mn 257.610†	84026.2	1.757	mg/L	0.0102	3.514	mg/L	0.0203	0.58%
Mo 202.031†	400.2	0.02402	mg/L	0.000286	0.04803	mg/L	0.000571	1.19%
Na 589.592†	832931.4	63.88	mg/L	0.211	127.8	mg/L	0.42	0.33%
Na 330.237†	1711.1	67.64	mg/L	0.686	135.3	mg/L	1.37	1.01%
Ni 231.604†	526.4	0.1477	mg/L	0.00188	0.2955	mg/L	0.00376	1.27%
Pb 220.353†	3135.0	0.3959	mg/L	0.00184	0.7918	mg/L	0.00367	0.46%
Sb 206.836†	90.9	0.04497	mg/L	0.001541	0.08994	mg/L	0.003083	3.43%
Se 196.026†	36.3	0.01684	mg/L	0.008538	0.03368	mg/L	0.017076	50.70%
Si 288.158†	2446.2	1.405	mg/L	0.0106	2.811	mg/L	0.0213	0.76%
Sn 189.927†	100.8	0.03838	mg/L	0.001006	0.07676	mg/L	0.002012	2.62%
Sr 421.552†	527306.0	0.5751	mg/L	0.00226	1.150	mg/L	0.0045	0.39%
Ti 334.903†	174781.0	6.215	mg/L	0.0287	12.43	mg/L	0.057	0.46%
Tl 190.801†	-47.1	-0.00193	mg/L	0.004079	-0.00386	mg/L	0.008158	211.44%
V 292.402†	65213.6	0.3817	mg/L	0.00036	0.7633	mg/L	0.00072	0.09%
Zn 206.200†	5589.3	1.436	mg/L	0.0102	2.873	mg/L	0.0203	0.71%

SN54 : 00619



Sequence No.: 14

Autosampler Location: 310

Sample ID: SN04 A SWC

Date Collected: 3/22/2011 12:28:24 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 A SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN04 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2490105.8	102.5	%	0.35				0.35%
ScR 361.383	415756.3	103.8	%	0.83				0.80%
Ag 328.068†	389.9	0.00181	mg/L	0.000075	0.00362	mg/L	0.000150	4.15%
Al 308.215†	194434.5	139.8	mg/L	0.58	279.6	mg/L	1.16	0.42%
As 188.979†	507.3	0.4064	mg/L	0.00592	0.8129	mg/L	0.01183	1.46%
B 249.677†	932.2	0.1603	mg/L	0.00105	0.3207	mg/L	0.00210	0.65%
Ba 233.527†	4013.8	0.5666	mg/L	0.00319	1.133	mg/L	0.0064	0.56%
Be 313.042†	2216.6	0.00223	mg/L	0.000026	0.00446	mg/L	0.000051	1.15%
Ca 317.933†	654115.3	57.63	mg/L	0.084	115.3	mg/L	0.17	0.15%
Cd 228.802†	167.5	0.00484	mg/L	0.000123	0.00968	mg/L	0.000246	2.54%
Co 228.616†	2745.7	0.07394	mg/L	0.000533	0.1479	mg/L	0.00107	0.72%
Cr 267.716†	1702.2	0.2253	mg/L	0.00087	0.4505	mg/L	0.00174	0.39%
Cu 324.752†	221291.4	0.9642	mg/L	0.00202	1.928	mg/L	0.0040	0.21%
Fe 273.955†	256377.7	207.2	mg/L	1.14	414.5	mg/L	2.29	0.55%
K 766.490†	33749.7	18.25	mg/L	0.044	36.49	mg/L	0.088	0.24%
Mg 279.077†	55956.2	49.15	mg/L	0.191	98.29	mg/L	0.383	0.39%
Mn 257.610†	85839.3	1.795	mg/L	0.0083	3.590	mg/L	0.0165	0.46%
Mo 202.031†	463.6	0.02802	mg/L	0.000364	0.05604	mg/L	0.000729	1.30%
Na 589.592†	824257.9	63.22	mg/L	0.342	126.4	mg/L	0.68	0.54%
Na 330.237†	1694.2	66.96	mg/L	0.269	133.9	mg/L	0.54	0.40%
Ni 231.604†	533.7	0.1498	mg/L	0.00057	0.2996	mg/L	0.00114	0.38%
Pb 220.353†	3707.2	0.4654	mg/L	0.00341	0.9308	mg/L	0.00681	0.73%
Sb 206.836†	165.8	0.07506	mg/L	0.001818	0.1501	mg/L	0.00364	2.42%
Se 196.026†	38.0	0.01852	mg/L	0.001754	0.03704	mg/L	0.003509	9.47%
Si 288.158†	2659.9	1.528	mg/L	0.0166	3.055	mg/L	0.0333	1.09%
Sn 189.927†	142.5	0.04648	mg/L	0.000263	0.09296	mg/L	0.000526	0.57%
Sr 421.552†	516977.5	0.5638	mg/L	0.00256	1.128	mg/L	0.0051	0.45%
Ti 334.903†	179805.6	6.394	mg/L	0.0269	12.79	mg/L	0.054	0.42%
Tl 190.801†	-43.1	0.00106	mg/L	0.003358	0.00211	mg/L	0.006716	317.77%
V 292.402†	65872.9	0.3853	mg/L	0.00163	0.7707	mg/L	0.00326	0.42%
Zn 206.200†	6974.4	1.792	mg/L	0.0081	3.585	mg/L	0.0163	0.45%

Sequence No.: 15

Autosampler Location: 311

Sample ID: SN04 ASPK SWC

Date Collected: 3/22/2011 12:32:07 PM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN04 ASPK SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

## Mean Data: SN04 ASPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2479681.4	102.1	%	1.11				1.09%
ScR 361.383	420287.0	104.9	%	0.26				0.24%
Ag 328.068†	93194.6	0.4880	mg/L	0.00109	0.9760	mg/L	0.00218	0.22%
Al 308.215†	203953.4	146.6	mg/L	0.49	293.3	mg/L	0.99	0.34%
As 188.979†	3283.7	2.376	mg/L	0.0114	4.751	mg/L	0.0227	0.48%
B 249.677†	978.3	0.1671	mg/L	0.00321	0.3343	mg/L	0.00642	1.92%
Ba 233.527†	17644.6	2.537	mg/L	0.0101	5.073	mg/L	0.0203	0.40%
Be 313.042†	433322.7	0.4779	mg/L	0.00408	0.9558	mg/L	0.00816	0.85%
Ca 317.933†	778675.0	68.61	mg/L	0.292	137.2	mg/L	0.58	0.43%
Cd 228.802†	14142.9	0.5033	mg/L	0.00443	1.007	mg/L	0.0089	0.88%
Co 228.616†	18102.3	0.5452	mg/L	0.00415	1.090	mg/L	0.0083	0.76%
Cr 267.716†	5495.8	0.7154	mg/L	0.00483	1.431	mg/L	0.0097	0.67%
Cu 324.752†	370209.2	1.608	mg/L	0.0036	3.216	mg/L	0.0071	0.22%
Fe 273.955†	265149.5	214.3	mg/L	1.48	428.6	mg/L	2.97	0.69%
K 766.490†	52437.1	28.35	mg/L	0.130	56.70	mg/L	0.260	0.46%
Mg 279.077†	68010.5	59.75	mg/L	0.300	119.5	mg/L	0.60	0.50%
Mn 257.610†	108432.7	2.268	mg/L	0.0166	4.536	mg/L	0.0331	0.73%
Mo 202.031†	564.0	0.03412	mg/L	0.000452	0.06823	mg/L	0.000904	1.32%
Na 589.592†	963607.8	73.91	mg/L	0.429	147.8	mg/L	0.86	0.58%
Na 330.237†	1941.1	76.44	mg/L	0.088	152.9	mg/L	0.18	0.11%
Ni 231.604†	2217.3	0.6221	mg/L	0.00514	1.244	mg/L	0.0103	0.83%
Pb 220.353†	20886.5	2.556	mg/L	0.0190	5.113	mg/L	0.0381	0.74%
Sb 206.836†	159.7	0.06985	mg/L	0.002569	0.1397	mg/L	0.00514	3.68%
Se 196.026†	2452.7	2.013	mg/L	0.0128	4.027	mg/L	0.0255	0.63%
Si 288.158†	8894.3	5.097	mg/L	0.0291	10.19	mg/L	0.058	0.57%
Sn 189.927†	137.2	0.04841	mg/L	0.001117	0.09683	mg/L	0.002235	2.31%
Sr 421.552†	983582.6	1.073	mg/L	0.0060	2.145	mg/L	0.0119	0.56%
Ti 334.903†	187798.8	6.677	mg/L	0.0370	13.35	mg/L	0.074	0.55%
Tl 190.801†	2944.8	1.811	mg/L	0.0097	3.622	mg/L	0.0194	0.54%
V 292.402†	140652.0	0.8467	mg/L	0.00200	1.693	mg/L	0.0040	0.24%
Zn 206.200†	8792.3	2.260	mg/L	0.0034	4.519	mg/L	0.0068	0.15%

Sequence No.: 16

Autosampler Location: 312

Sample ID: SN04 APOST SWC

Date Collected: 3/22/2011 12:35:06 PM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN04 APOST SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: SN04 APOST SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD	
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	2480827.6	102.2	%	1.25			1.22%	
ScR 361.383	416236.9	103.9	%	0.21			0.20%	
Ag 328.068†	92766.5	0.4858	mg/L	0.00270	0.9716	mg/L	0.00540	0.56%
Al 308.215†	197443.3	141.9	mg/L	0.25	283.9	mg/L	0.50	0.17%
As 188.979†	3362.3	2.429	mg/L	0.0301	4.858	mg/L	0.0602	1.24%
B 249.677†	923.3	0.1577	mg/L	0.00097	0.3153	mg/L	0.00195	0.62%
Ba 233.527†	17742.8	2.551	mg/L	0.0216	5.102	mg/L	0.0433	0.85%
Be 313.042†	442001.3	0.4875	mg/L	0.00073	0.9750	mg/L	0.00145	0.15%
Ca 317.933†	769822.8	67.83	mg/L	0.073	135.7	mg/L	0.15	0.11%
Cd 228.802†	14503.5	0.5161	mg/L	0.00812	1.032	mg/L	0.0162	1.57%
Co 228.616†	18392.8	0.5546	mg/L	0.00844	1.109	mg/L	0.0169	1.52%
Cr 267.716†	5564.7	0.7242	mg/L	0.00533	1.448	mg/L	0.0107	0.74%
Cu 324.752†	337980.3	1.468	mg/L	0.0014	2.937	mg/L	0.0028	0.10%
Fe 273.955†	258555.3	209.0	mg/L	0.66	418.0	mg/L	1.32	0.31%
K 766.490†	53039.7	28.67	mg/L	0.030	57.35	mg/L	0.061	0.11%
Mg 279.077†	67279.6	59.11	mg/L	0.086	118.2	mg/L	0.17	0.14%
Mn 257.610†	107844.7	2.256	mg/L	0.0059	4.511	mg/L	0.0118	0.26%
Mo 202.031†	467.8	0.02810	mg/L	0.000635	0.05620	mg/L	0.001270	2.26%
Na 589.592†	953879.9	73.16	mg/L	0.177	146.3	mg/L	0.35	0.24%
Na 330.237†	1962.1	77.14	mg/L	0.494	154.3	mg/L	0.99	0.64%
Ni 231.604†	2267.5	0.6362	mg/L	0.00670	1.272	mg/L	0.0134	1.05%
Pb 220.353†	19474.5	2.384	mg/L	0.0340	4.768	mg/L	0.0679	1.42%
Sb 206.836†	172.4	0.07437	mg/L	0.003573	0.1487	mg/L	0.00715	4.80%
Se 196.026†	2565.3	2.107	mg/L	0.0382	4.213	mg/L	0.0763	1.81%
Si 288.158†	2897.9	1.667	mg/L	0.0128	3.334	mg/L	0.0257	0.77%
Sn 189.927†	125.7	0.04578	mg/L	0.001629	0.09155	mg/L	0.003258	3.56%
Sr 421.552†	980952.9	1.070	mg/L	0.0002	2.140	mg/L	0.0004	0.02%
Ti 334.903†	179354.7	6.376	mg/L	0.0041	12.75	mg/L	0.008	0.06%
Tl 190.801†	3020.7	1.856	mg/L	0.0265	3.713	mg/L	0.0530	1.43%
V 292.402†	143436.1	0.8644	mg/L	0.00228	1.729	mg/L	0.0046	0.26%
Zn 206.200†	8832.2	2.270	mg/L	0.0172	4.540	mg/L	0.0344	0.76%

Sequence No.: 17

Autosampler Location: 313

Sample ID: SN74 MB1SPK SWC

Date Collected: 3/22/2011 12:38:50 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN74 MB1SPK SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN74 MB1SPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2491667.1	102.6	%	0.79				0.77%
ScR 361.383	421743.3	105.3	%	0.17				0.16%
Ag 328.068†	100338.6	0.5257	mg/L	0.00526	1.051	mg/L	0.0105	1.00%
Al 308.215†	2866.2	2.051	mg/L	0.0096	4.102	mg/L	0.0191	0.47%
As 188.979†	2913.1	2.064	mg/L	0.0207	4.128	mg/L	0.0414	1.00%
B 249.677†	-0.4	-0.00127	mg/L	0.001329	-0.00253	mg/L	0.002658	104.99%
Ba 233.527†	13861.2	2.004	mg/L	0.0098	4.007	mg/L	0.0196	0.49%
Be 313.042†	446911.3	0.4931	mg/L	0.00113	0.9862	mg/L	0.00227	0.23%
Ca 317.933†	114568.1	10.09	mg/L	0.018	20.19	mg/L	0.035	0.17%
Cd 228.802†	14348.4	0.5116	mg/L	0.00494	1.023	mg/L	0.0099	0.97%
Co 228.616†	16363.9	0.5027	mg/L	0.00427	1.005	mg/L	0.0085	0.85%
Cr 267.716†	3922.3	0.5066	mg/L	0.00222	1.013	mg/L	0.0044	0.44%
Cu 324.752†	118618.1	0.5126	mg/L	0.00552	1.025	mg/L	0.0110	1.08%
Fe 273.955†	2559.8	2.066	mg/L	0.0069	4.133	mg/L	0.0139	0.34%
K 766.490†	19194.4	10.38	mg/L	0.032	20.75	mg/L	0.064	0.31%
Mg 279.077†	11833.9	10.41	mg/L	0.039	20.83	mg/L	0.078	0.38%
Mn 257.610†	23332.0	0.4882	mg/L	0.00169	0.9764	mg/L	0.00338	0.35%
Mo 202.031†	29.7	0.00168	mg/L	0.000381	0.00335	mg/L	0.000762	22.73%
Na 589.592†	129895.5	9.963	mg/L	0.0612	19.93	mg/L	0.122	0.61%
Na 330.237†	264.5	10.06	mg/L	0.192	20.12	mg/L	0.385	1.91%
Ni 231.604†	1772.3	0.4972	mg/L	0.00152	0.9945	mg/L	0.00305	0.31%
Pb 220.353†	16517.8	2.010	mg/L	0.0222	4.020	mg/L	0.0444	1.11%
Sb 206.836†	9.9	0.00069	mg/L	0.001370	0.00137	mg/L	0.002740	199.68%
Se 196.026†	2537.5	2.097	mg/L	0.0222	4.193	mg/L	0.0444	1.06%
Si 288.158†	0.2	0.00328	mg/L	0.001322	0.00656	mg/L	0.002644	40.30%
Sn 189.927†	-28.1	-0.00302	mg/L	0.000079	-0.00605	mg/L	0.000158	2.61%
Sr 421.552†	466239.8	0.5085	mg/L	0.00141	1.017	mg/L	0.0028	0.28%
Ti 334.903†	164.1	0.00401	mg/L	0.000119	0.00802	mg/L	0.000238	2.97%
Tl 190.801†	3353.5	2.031	mg/L	0.0157	4.062	mg/L	0.0313	0.77%
V 292.402†	83156.7	0.5135	mg/L	0.00677	1.027	mg/L	0.0135	1.32%
Zn 206.200†	1934.4	0.4972	mg/L	0.00303	0.9944	mg/L	0.00607	0.61%

Sequence No.: 18  
 Sample ID: CV

Autosampler Location: 7  
 Date Collected: 3/22/2011 12:42:46 PM  
 Data Type: Original

Dilution: 1X 3

-----  
 Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

-----  
 Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2533700.6	104.3 %		0.84			0.81%
ScR 361.383	419262.4	104.7 %		0.93			0.88%
Ag 328.068†	189798.2	0.9943 mg/L		0.00682	0.9943 mg/L	0.00682	0.69%
Al 308.215†	2834.4	2.004 mg/L		0.0226	2.004 mg/L	0.0226	1.13%
As 188.979†	2799.0	1.990 mg/L		0.0164	1.990 mg/L	0.0164	0.82%
B 249.677†	5841.6	1.004 mg/L		0.0059	1.004 mg/L	0.0059	0.59%
Ba 233.527†	6728.7	0.9722 mg/L		0.00878	0.9722 mg/L	0.00878	0.90%
Be 313.042†	879985.7	0.9709 mg/L		0.00739	0.9709 mg/L	0.00739	0.76%
Ca 317.933†	24056.4	2.119 mg/L		0.0169	2.119 mg/L	0.0169	0.80%
Cd 228.802†	27823.8	0.9994 mg/L		0.00526	0.9994 mg/L	0.00526	0.53%
Co 228.616†	31587.2	0.9697 mg/L		0.00479	0.9697 mg/L	0.00479	0.49%
Cr 267.716†	7720.9	0.9985 mg/L		0.00596	0.9985 mg/L	0.00596	0.60%
Cu 324.752†	231112.7	0.9983 mg/L		0.00310	0.9983 mg/L	0.00310	0.31%
Fe 273.955†	2476.8	1.997 mg/L		0.0214	1.997 mg/L	0.0214	1.07%
K 766.490†	38338.3	20.73 mg/L		0.043	20.73 mg/L	0.043	0.21%
Mg 279.077†	2257.2	1.990 mg/L		0.0103	1.990 mg/L	0.0103	0.52%
Mn 257.610†	46214.6	0.9666 mg/L		0.00825	0.9666 mg/L	0.00825	0.85%
Mo 202.031†	15617.6	0.9800 mg/L		0.00604	0.9800 mg/L	0.00604	0.62%
Na 589.592†	641763.2	49.22 mg/L		0.134	49.22 mg/L	0.134	0.27%
Na 330.237†	1312.8	50.64 mg/L		0.535	50.64 mg/L	0.535	1.06%
Ni 231.604†	3511.4	0.9864 mg/L		0.00806	0.9864 mg/L	0.00806	0.82%
Pb 220.353†	15779.9	1.921 mg/L		0.0171	1.921 mg/L	0.0171	0.89%
Sb 206.836†	5027.0	2.003 mg/L		0.0137	2.003 mg/L	0.0137	0.68%
Se 196.026†	2367.7	1.958 mg/L		0.0108	1.958 mg/L	0.0108	0.55%
Si 288.158†	3409.4	1.956 mg/L		0.0129	1.956 mg/L	0.0129	0.66%
Sn 189.927†	4734.1	0.9628 mg/L		0.00696	0.9628 mg/L	0.00696	0.72%
Sr 421.552†	917776.3	1.001 mg/L		0.0033	1.001 mg/L	0.0033	0.33%
Ti 334.903†	27211.6	0.9675 mg/L		0.00483	0.9675 mg/L	0.00483	0.50%
Tl 190.801†	3193.3	1.935 mg/L		0.0142	1.935 mg/L	0.0142	0.73%
V 292.402†	160077.0	0.9891 mg/L		0.00643	0.9891 mg/L	0.00643	0.65%
Zn 206.200†	3848.1	0.9887 mg/L		0.01051	0.9887 mg/L	0.01051	1.06%

Sequence No.: 19

Autosampler Location: 1

Sample ID: CB

Date Collected: 3/22/2011 12:45:59 PM

Dilution: 1X <sup>3</sup>

Data Type: Original

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2534810.6	104.4	%	0.41				0.40%
ScR 361.383	425412.9	106.2	%	0.13				0.13%
Ag 328.068†	19.6	0.00010	mg/L	0.000195	0.00010	mg/L	0.000195	190.26%
Al 308.215†	-4.6	-0.00331	mg/L	0.007786	-0.00331	mg/L	0.007786	235.25%
As 188.979†	0.4	0.00030	mg/L	0.000802	0.00030	mg/L	0.000802	263.43%
B 249.677†	-3.0	-0.00051	mg/L	0.000398	-0.00051	mg/L	0.000398	77.70%
Ba 233.527†	-4.9	-0.00071	mg/L	0.000593	-0.00071	mg/L	0.000593	83.18%
Be 313.042†	16.4	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025	136.87%
Ca 317.933†	14.7	0.00129	mg/L	0.001904	0.00129	mg/L	0.001904	147.40%
Cd 228.802†	-0.7	-0.00003	mg/L	0.000082	-0.00003	mg/L	0.000082	298.69%
Co 228.616†	3.7	0.00011	mg/L	0.000161	0.00011	mg/L	0.000161	140.52%
Cr 267.716†	1.5	0.00019	mg/L	0.000633	0.00019	mg/L	0.000633	329.68%
Cu 324.752†	51.3	0.00022	mg/L	0.000147	0.00022	mg/L	0.000147	66.23%
Fe 273.955†	5.0	0.00406	mg/L	0.000583	0.00406	mg/L	0.000583	14.35%
K 766.490†	26.7	0.01442	mg/L	0.013920	0.01442	mg/L	0.013920	96.52%
Mg 279.077†	4.5	0.00393	mg/L	0.001999	0.00393	mg/L	0.001999	50.84%
Mn 257.610†	2.6	0.00005	mg/L	0.000009	0.00005	mg/L	0.000009	16.21%
Mo 202.031†	30.3	0.00190	mg/L	0.000653	0.00190	mg/L	0.000653	34.37%
Na 589.592†	59.5	0.00456	mg/L	0.002781	0.00456	mg/L	0.002781	60.93%
Na 330.237†	-18.0	-0.6918	mg/L	0.37089	-0.6918	mg/L	0.37089	53.61%
Ni 231.604†	2.5	0.00071	mg/L	0.001578	0.00071	mg/L	0.001578	222.15%
Pb 220.353†	-8.2	-0.00100	mg/L	0.000809	-0.00100	mg/L	0.000809	80.89%
Sb 206.836†	7.7	0.00308	mg/L	0.000592	0.00308	mg/L	0.000592	19.21%
Se 196.026†	1.3	0.00111	mg/L	0.003504	0.00111	mg/L	0.003504	315.58%
Si 288.158†	-2.3	-0.00131	mg/L	0.005281	-0.00131	mg/L	0.005281	403.61%
Sn 189.927†	2.5	0.00051	mg/L	0.000636	0.00051	mg/L	0.000636	125.03%
Sr 421.552†	-37.7	-0.00004	mg/L	0.000049	-0.00004	mg/L	0.000049	118.90%
Ti 334.903†	-12.3	-0.00044	mg/L	0.000234	-0.00044	mg/L	0.000234	52.94%
Tl 190.801†	4.0	0.00241	mg/L	0.002419	0.00241	mg/L	0.002419	100.32%
V 292.402†	8.1	0.00005	mg/L	0.000105	0.00005	mg/L	0.000105	200.89%
Zn 206.200†	-1.0	-0.00025	mg/L	0.000372	-0.00025	mg/L	0.000372	149.56%

Sequence No.: 20  
Sample ID: CRI

Autosampler Location: 314  
Date Collected: 3/22/2011 12:50:09 PM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte Back Pressure Flow  
All 209.0 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	2502394.5	103.1 %	0.34			0.33%
ScR 361.383	416595.5	104.0 %	0.45			0.43%
Ag 328.068†	598.4	0.00313 mg/L	0.000182	0.00313 mg/L	0.000182	5.80%
Al 308.215†	60.4	0.04328 mg/L	0.008546	0.04328 mg/L	0.008546	19.74%
As 188.979†	70.8	0.05019 mg/L	0.000906	0.05019 mg/L	0.000906	1.81%
B 249.677†	124.5	0.02143 mg/L	0.001180	0.02143 mg/L	0.001180	5.51%
Ba 233.527†	17.0	0.00245 mg/L	0.001113	0.00245 mg/L	0.001113	45.50%
Be 313.042†	868.0	0.00096 mg/L	0.000022	0.00096 mg/L	0.000022	2.29%
Ca 317.933†	523.4	0.04611 mg/L	0.001968	0.04611 mg/L	0.001968	4.27%
Cd 228.802†	66.9	0.00225 mg/L	0.000070	0.00225 mg/L	0.000070	3.13%
Co 228.616†	99.9	0.00306 mg/L	0.000021	0.00306 mg/L	0.000021	0.70%
Cr 267.716†	45.7	0.00591 mg/L	0.001054	0.00591 mg/L	0.001054	17.82%
Cu 324.752†	564.6	0.00244 mg/L	0.000127	0.00244 mg/L	0.000127	5.22%
Fe 273.955†	70.9	0.05726 mg/L	0.000625	0.05726 mg/L	0.000625	1.09%
K 766.490†	1114.7	0.6026 mg/L	0.00900	0.6026 mg/L	0.00900	1.49%
Mg 279.077†	51.3	0.04513 mg/L	0.003041	0.04513 mg/L	0.003041	6.74%
Mn 257.610†	54.2	0.00114 mg/L	0.000039	0.00114 mg/L	0.000039	3.44%
Mo 202.031†	82.9	0.00520 mg/L	0.000193	0.00520 mg/L	0.000193	3.72%
Na 589.592†	6399.5	0.4908 mg/L	0.00439	0.4908 mg/L	0.00439	0.89%
Na 330.237†	3.0	0.1141 mg/L	0.05240	0.1141 mg/L	0.05240	45.94%
Ni 231.604†	39.0	0.01097 mg/L	0.001571	0.01097 mg/L	0.001571	14.32%
Pb 220.353†	164.8	0.02007 mg/L	0.000525	0.02007 mg/L	0.000525	2.62%
Sb 206.836†	130.1	0.05173 mg/L	0.001327	0.05173 mg/L	0.001327	2.57%
Se 196.026†	61.9	0.05116 mg/L	0.002162	0.05116 mg/L	0.002162	4.23%
Si 288.158†	92.0	0.05263 mg/L	0.003355	0.05263 mg/L	0.003355	6.38%
Sn 189.927†	48.3	0.00985 mg/L	0.000544	0.00985 mg/L	0.000544	5.52%
Sr 421.552†	906.5	0.00099 mg/L	0.000019	0.00099 mg/L	0.000019	1.92%
Ti 334.903†	136.4	0.00484 mg/L	0.000660	0.00484 mg/L	0.000660	13.64%
Tl 190.801†	84.5	0.05121 mg/L	0.003197	0.05121 mg/L	0.003197	6.24%
V 292.402†	491.2	0.00304 mg/L	0.000105	0.00304 mg/L	0.000105	3.46%
Zn 206.200†	36.1	0.00927 mg/L	0.000844	0.00927 mg/L	0.000844	9.10%

Sequence No.: 21  
Sample ID: ICSA

Autosampler Location: 315  
Date Collected: 3/22/2011 12:54:05 PM  
Data Type: Original

Dilution: 1X

-----  
Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

-----  
Mean Data: ICSA

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2410565.7	99.27	%	1.043				1.05%
ScR 361.383	410652.4	102.5	%	0.44				0.42%
Ag 328.068†	-33.1	-0.00017	mg/L	0.000253	-0.00017	mg/L	0.000253	148.31%
Al 308.215†	281294.9	202.3	mg/L	0.64	202.3	mg/L	0.64	0.32%
As 188.979†	34.7	0.01569	mg/L	0.005557	0.01569	mg/L	0.005557	35.41%
B 249.677†	-38.5	-0.00663	mg/L	0.002394	-0.00663	mg/L	0.002394	36.10%
Ba 233.527†	95.8	0.00103	mg/L	0.000357	0.00103	mg/L	0.000357	34.57%
Be 313.042†	35.9	0.00003	mg/L	0.000018	0.00003	mg/L	0.000018	57.20%
Ca 317.933†	1151818.9	101.5	mg/L	0.47	101.5	mg/L	0.47	0.46%
Cd 228.802†	37.2	0.00126	mg/L	0.000132	0.00126	mg/L	0.000132	10.51%
Co 228.616†	39.9	0.00120	mg/L	0.000164	0.00120	mg/L	0.000164	13.70%
Cr 267.716†	0.3	0.00026	mg/L	0.000207	0.00026	mg/L	0.000207	80.90%
Cu 324.752†	-2189.7	-0.00004	mg/L	0.000204	-0.00004	mg/L	0.000204	574.45%
Fe 273.955†	243946.6	197.2	mg/L	0.46	197.2	mg/L	0.46	0.23%
K 766.490†	45.0	0.02432	mg/L	0.019756	0.02432	mg/L	0.019756	81.23%
Mg 279.077†	118851.8	104.5	mg/L	0.36	104.5	mg/L	0.36	0.34%
Mn 257.610†	41.9	0.00074	mg/L	0.000423	0.00074	mg/L	0.000423	57.02%
Mo 202.031†	98.5	0.00430	mg/L	0.000322	0.00430	mg/L	0.000322	7.49%
Na 589.592†	81.2	0.00623	mg/L	0.002206	0.00623	mg/L	0.002206	35.40%
Na 330.237†	3.5	0.1395	mg/L	0.25267	0.1395	mg/L	0.25267	181.19%
Ni 231.604†	11.0	0.00308	mg/L	0.001001	0.00308	mg/L	0.001001	32.55%
Pb 220.353†	-244.1	-0.00179	mg/L	0.001482	-0.00179	mg/L	0.001482	82.91%
Sb 206.836†	11.3	0.00423	mg/L	0.002171	0.00423	mg/L	0.002171	51.36%
Se 196.026†	58.4	0.02399	mg/L	0.006956	0.02399	mg/L	0.006956	28.99%
Si 288.158†	-37.1	-0.00866	mg/L	0.003956	-0.00866	mg/L	0.003956	45.69%
Sn 189.927†	-137.0	-0.00090	mg/L	0.001721	-0.00090	mg/L	0.001721	190.39%
Sr 421.552†	3384.3	0.00369	mg/L	0.000059	0.00369	mg/L	0.000059	1.60%
Ti 334.903†	487.5	-0.00026	mg/L	0.000426	-0.00026	mg/L	0.000426	166.77%
Tl 190.801†	-42.9	0.00062	mg/L	0.003640	0.00062	mg/L	0.003640	585.86%
V 292.402†	2714.5	0.00050	mg/L	0.000132	0.00050	mg/L	0.000132	26.18%
Zn 206.200†	7.0	0.00179	mg/L	0.001003	0.00179	mg/L	0.001003	56.06%



Sequence No.: 22  
Sample ID: ICSAB

Autosampler Location: 316  
Date Collected: 3/22/2011 12:58:16 PM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2417401.2		99.55 %	0.442			0.44%
ScR 361.383	412283.6		102.9 %	0.44			0.43%
Ag 328.068†	196947.9		1.032 mg/L	0.0043	1.032 mg/L	0.0043	0.42%
Al 308.215†	281046.9		202.1 mg/L	0.61	202.1 mg/L	0.61	0.30%
As 188.979†	1430.4		1.005 mg/L	0.0063	1.005 mg/L	0.0063	0.63%
B 249.677†	-23.9		-0.00632 mg/L	0.000951	-0.00632 mg/L	0.000951	15.06%
Ba 233.527†	6763.9		0.9647 mg/L	0.00567	0.9647 mg/L	0.00567	0.59%
Be 313.042†	888921.0		0.9808 mg/L	0.00201	0.9808 mg/L	0.00201	0.21%
Ca 317.933†	1146180.0		101.0 mg/L	0.38	101.0 mg/L	0.38	0.38%
Cd 228.802†	27678.8		0.9976 mg/L	0.00362	0.9976 mg/L	0.00362	0.36%
Co 228.616†	30056.5		0.9239 mg/L	0.00328	0.9239 mg/L	0.00328	0.36%
Cr 267.716†	7709.0		0.9977 mg/L	0.00637	0.9977 mg/L	0.00637	0.64%
Cu 324.752†	239488.0		1.044 mg/L	0.0063	1.044 mg/L	0.0063	0.60%
Fe 273.955†	242839.3		196.3 mg/L	0.24	196.3 mg/L	0.24	0.12%
K 766.490†	986.6		0.5334 mg/L	0.01572	0.5334 mg/L	0.01572	2.95%
Mg 279.077†	114210.5		100.4 mg/L	0.28	100.4 mg/L	0.28	0.28%
Mn 257.610†	44028.6		0.9205 mg/L	0.00036	0.9205 mg/L	0.00036	0.04%
Mo 202.031†	101.6		0.00450 mg/L	0.000810	0.00450 mg/L	0.000810	17.99%
Na 589.592†	134.8		0.01034 mg/L	0.002165	0.01034 mg/L	0.002165	20.94%
Na 330.237†	3.9		-0.09446 mg/L	0.074626	-0.09446 mg/L	0.074626	79.00%
Ni 231.604†	3394.5		0.9530 mg/L	0.00556	0.9530 mg/L	0.00556	0.58%
Pb 220.353†	7512.0		0.9425 mg/L	0.00640	0.9425 mg/L	0.00640	0.68%
Sb 206.836†	2603.7		1.027 mg/L	0.0094	1.027 mg/L	0.0094	0.92%
Se 196.026†	1254.2		1.014 mg/L	0.0082	1.014 mg/L	0.0082	0.81%
Si 288.158†	-42.2		-0.00837 mg/L	0.000811	-0.00837 mg/L	0.000811	9.69%
Sn 189.927†	-137.9		-0.00056 mg/L	0.000534	-0.00056 mg/L	0.000534	95.75%
Sr 421.552†	3404.2		0.00371 mg/L	0.000032	0.00371 mg/L	0.000032	0.85%
Ti 334.903†	497.0		0.00002 mg/L	0.000327	0.00002 mg/L	0.000327	>999.9%
Tl 190.801†	1486.4		0.9233 mg/L	0.00490	0.9233 mg/L	0.00490	0.53%
V 292.402†	162769.3		0.9894 mg/L	0.00457	0.9894 mg/L	0.00457	0.46%
Zn 206.200†	3738.4		0.9607 mg/L	0.00584	0.9607 mg/L	0.00584	0.61%

Sequence No.: 23

Autosampler Location: 7

Sample ID: CV 4

Date Collected: 3/22/2011 1:02:15 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2506313.0	103.2	%	1.16			1.13%
ScR 361.383	417703.4	104.3	%	0.75			0.72%
Ag 328.068†	189560.0	0.9930	mg/L	0.00934	0.9930	mg/L	0.94%
Al 308.215†	2844.5	2.012	mg/L	0.0206	2.012	mg/L	1.02%
As 188.979†	2798.9	1.990	mg/L	0.0091	1.990	mg/L	0.46%
B 249.677†	5840.4	1.004	mg/L	0.0143	1.004	mg/L	1.43%
Ba 233.527†	6731.8	0.9727	mg/L	0.00658	0.9727	mg/L	0.68%
Be 313.042†	883374.8	0.9747	mg/L	0.00279	0.9747	mg/L	0.29%
Ca 317.933†	24283.0	2.139	mg/L	0.0236	2.139	mg/L	1.10%
Cd 228.802†	27908.3	1.002	mg/L	0.0071	1.002	mg/L	0.71%
Co 228.616†	31684.1	0.9727	mg/L	0.00412	0.9727	mg/L	0.42%
Cr 267.716†	7795.1	1.008	mg/L	0.0103	1.008	mg/L	1.02%
Cu 324.752†	232210.9	1.003	mg/L	0.0046	1.003	mg/L	0.46%
Fe 273.955†	2489.8	2.007	mg/L	0.0167	2.007	mg/L	0.83%
K 766.490†	38370.0	20.74	mg/L	0.052	20.74	mg/L	0.25%
Mg 279.077†	2260.1	1.993	mg/L	0.0072	1.993	mg/L	0.36%
Mn 257.610†	46236.3	0.9670	mg/L	0.00647	0.9670	mg/L	0.67%
Mo 202.031†	15613.6	0.9798	mg/L	0.00542	0.9798	mg/L	0.55%
Na 589.592†	641649.2	49.21	mg/L	0.209	49.21	mg/L	0.43%
Na 330.237†	1325.3	51.12	mg/L	0.709	51.12	mg/L	1.39%
Ni 231.604†	3524.9	0.9902	mg/L	0.00904	0.9902	mg/L	0.91%
Pb 220.353†	16140.3	1.965	mg/L	0.0102	1.965	mg/L	0.52%
Sb 206.836†	5051.5	2.012	mg/L	0.0117	2.012	mg/L	0.58%
Se 196.026†	2374.3	1.964	mg/L	0.0041	1.964	mg/L	0.21%
Si 288.158†	3417.9	1.961	mg/L	0.0194	1.961	mg/L	0.99%
Sn 189.927†	4733.9	0.9628	mg/L	0.00440	0.9628	mg/L	0.46%
Sr 421.552†	918847.9	1.002	mg/L	0.0031	1.002	mg/L	0.31%
Ti 334.903†	27205.6	0.9673	mg/L	0.00342	0.9673	mg/L	0.35%
Tl 190.801†	3198.1	1.938	mg/L	0.0057	1.938	mg/L	0.30%
V 292.402†	160405.0	0.9912	mg/L	0.00268	0.9912	mg/L	0.27%
Zn 206.200†	3873.4	0.9952	mg/L	0.00924	0.9952	mg/L	0.93%

Sequence No.: 24

Sample ID: CB

Autosampler Location: 1

Date Collected: 3/22/2011 1:05:27 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: CB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2487119.4	102.4	%	1.22				1.19%
ScR 361.383	416795.9	104.1	%	0.73				0.70%
Ag 328.068†	-1.1	-0.00001	mg/L	0.000157	-0.00001	mg/L	0.000157	>999.9%
Al 308.215†	-23.6	-0.01701	mg/L	0.014673	-0.01701	mg/L	0.014673	86.28%
As 188.979†	-1.3	-0.00093	mg/L	0.001521	-0.00093	mg/L	0.001521	164.44%
B 249.677†	4.7	0.00081	mg/L	0.000285	0.00081	mg/L	0.000285	35.31%
Ba 233.527†	-4.2	-0.00061	mg/L	0.000666	-0.00061	mg/L	0.000666	109.38%
Be 313.042†	46.9	0.00005	mg/L	0.000005	0.00005	mg/L	0.000005	10.39%
Ca 317.933†	2.5	0.00022	mg/L	0.001136	0.00022	mg/L	0.001136	510.70%
Cd 228.802†	0.0	0.00001	mg/L	0.000104	0.00001	mg/L	0.000104	>999.9%
Co 228.616†	0.3	0.00001	mg/L	0.000099	0.00001	mg/L	0.000099	>999.9%
Cr 267.716†	1.0	0.00013	mg/L	0.000416	0.00013	mg/L	0.000416	324.69%
Cu 324.752†	74.1	0.00032	mg/L	0.000104	0.00032	mg/L	0.000104	32.63%
Fe 273.955†	7.4	0.00600	mg/L	0.003081	0.00600	mg/L	0.003081	51.35%
K 766.490†	19.4	0.01050	mg/L	0.024368	0.01050	mg/L	0.024368	232.06%
Mg 279.077†	-0.5	-0.00045	mg/L	0.004918	-0.00045	mg/L	0.004918	>999.9%
Mn 257.610†	6.7	0.00014	mg/L	0.000107	0.00014	mg/L	0.000107	76.02%
Mo 202.031†	25.3	0.00159	mg/L	0.000587	0.00159	mg/L	0.000587	36.95%
Na 589.592†	26.3	0.00202	mg/L	0.000259	0.00202	mg/L	0.000259	12.85%
Na 330.237†	-21.1	-0.8144	mg/L	0.09066	-0.8144	mg/L	0.09066	11.13%
Ni 231.604†	3.0	0.00085	mg/L	0.000645	0.00085	mg/L	0.000645	76.17%
Pb 220.353†	-9.1	-0.00111	mg/L	0.000525	-0.00111	mg/L	0.000525	47.09%
Sb 206.836†	6.1	0.00241	mg/L	0.003725	0.00241	mg/L	0.003725	154.36%
Se 196.026†	4.6	0.00376	mg/L	0.003094	0.00376	mg/L	0.003094	82.19%
Si 288.158†	3.6	0.00205	mg/L	0.002739	0.00205	mg/L	0.002739	133.69%
Sn 189.927†	1.9	0.00038	mg/L	0.000293	0.00038	mg/L	0.000293	76.93%
Sr 421.552†	-34.5	-0.00004	mg/L	0.000029	-0.00004	mg/L	0.000029	76.44%
Ti 334.903†	21.5	0.00076	mg/L	0.000958	0.00076	mg/L	0.000958	125.52%
Tl 190.801†	2.6	0.00155	mg/L	0.003085	0.00155	mg/L	0.003085	198.52%
V 292.402†	-21.4	-0.00013	mg/L	0.000139	-0.00013	mg/L	0.000139	107.09%
Zn 206.200†	-0.4	-0.00011	mg/L	0.000193	-0.00011	mg/L	0.000193	179.63%

Sequence No.: 25  
Sample ID: SN04 C SWC

Autosampler Location: 317  
Date Collected: 3/22/2011 1:09:37 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 C SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

*rem*

Mean Data: SN04 C SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2401013.4	98.88	%	0.650				0.66%
ScR 361.383	414855.7	103.6	%	1.55				1.50%
Ag 328.068†	2054.2	0.00946	mg/L	0.000307	0.01892	mg/L	0.000613	3.24%
Al 308.215†	268494.5	193.0	mg/L	0.60	386.1	mg/L	1.20	0.31%
As 188.979†	5375.9	3.839	mg/L	0.0429	7.679	mg/L	0.0859	1.12%
B 249.677†	575.4	0.09908	mg/L	0.001901	0.1982	mg/L	0.00380	1.92%
Ba 233.527†	14927.0	2.126	mg/L	0.0150	4.251	mg/L	0.0300	0.70%
Be 313.042†	3701.6	0.00378	mg/L	0.000044	0.00756	mg/L	0.000088	1.17%
Ca 317.933†	4123908.6	363.3	mg/L	3.94	726.7	mg/L	7.89	1.09%
Cd 228.802†	766.8	0.01408	mg/L	0.000239	0.02817	mg/L	0.000479	1.70%
Co 228.616†	8805.4	0.2580	mg/L	0.00258	0.5160	mg/L	0.00517	1.00%
Cr 267.716†	3575.0	0.4730	mg/L	0.00447	0.9460	mg/L	0.00894	0.95%
Cu 324.752†	2276497.8	9.857	mg/L	0.0088	19.71	mg/L	0.018	0.09%
Fe 273.955†	611800.8	494.5	mg/L	5.26	989.0	mg/L	10.51	1.06%
K 766.490†	42007.3	22.71	mg/L	0.147	45.42	mg/L	0.295	0.65%
Mg 279.077†	102735.7	90.18	mg/L	0.283	180.4	mg/L	0.57	0.31%
Mn 257.610†	363223.0	7.597	mg/L	0.0141	15.19	mg/L	0.028	0.19%
Mo 202.031†	12599.3	0.7839	mg/L	0.01160	1.568	mg/L	0.0232	1.48%
Na 589.592†	666677.4	51.13	mg/L	0.478	102.3	mg/L	0.96	0.93%
Na 330.237†	1430.9	55.52	mg/L	0.402	111.0	mg/L	0.80	0.72%
Ni 231.604†	831.9	0.2338	mg/L	0.00248	0.4675	mg/L	0.00496	1.06%
Pb 220.353†	49404.1	6.008	mg/L	0.0706	12.02	mg/L	0.141	1.18%
Sb 206.836†	1528.5	0.6206	mg/L	0.01327	1.241	mg/L	0.0265	2.14%
Se 196.026†	81.0	0.00421	mg/L	0.025144	0.00842	mg/L	0.050287	597.40%
Si 288.158†	2945.2	1.697	mg/L	0.0117	3.394	mg/L	0.0235	0.69%
Sn 189.927†	1949.4	0.4950	mg/L	0.00624	0.9899	mg/L	0.01248	1.26%
Sr 421.552†	854520.4	0.9320	mg/L	0.00986	1.864	mg/L	0.0197	1.06%
Ti 334.903†	216192.0	7.636	mg/L	0.0721	15.27	mg/L	0.144	0.94%
Tl 190.801†	-116.3	-0.00238	mg/L	0.006631	-0.00476	mg/L	0.013262	278.43%
V 292.402†	93322.4	0.5325	mg/L	0.00143	1.065	mg/L	0.0029	0.27%
Zn 206.200†	32546.5	8.364	mg/L	0.0510	16.73	mg/L	0.102	0.61%

SN54 : 00631

Sequence No.: 26  
Sample ID: SN04 D SWC

Autosampler Location: 318  
Date Collected: 3/22/2011 1:12:52 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 D SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 D SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2507929.4	103.3	%	0.29				0.28%
ScR 361.383	417592.7	104.3	%	0.82				0.79%
Ag 328.068†	180.1	0.00073	mg/L	0.000067	0.00147	mg/L	0.000133	9.10%
Al 308.215†	202184.8	145.4	mg/L	0.19	290.7	mg/L	0.39	0.13%
As 188.979†	89.3	0.1098	mg/L	0.00187	0.2196	mg/L	0.00374	1.70%
B 249.677†	912.8	0.1570	mg/L	0.00127	0.3140	mg/L	0.00255	0.81%
Ba 233.527†	3480.6	0.4904	mg/L	0.00292	0.9809	mg/L	0.00584	0.60%
Be 313.042†	2280.8	0.00230	mg/L	0.000024	0.00460	mg/L	0.000048	1.05%
Ca 317.933†	464614.9	40.93	mg/L	0.092	81.87	mg/L	0.185	0.23%
Cd 228.802†	102.4	0.00355	mg/L	0.000101	0.00710	mg/L	0.000203	2.85%
Co 228.616†	2281.2	0.06003	mg/L	0.000309	0.1201	mg/L	0.00062	0.51%
Cr 267.716†	1386.2	0.1840	mg/L	0.00230	0.3681	mg/L	0.00461	1.25%
Cu 324.752†	101110.9	0.4444	mg/L	0.00161	0.8888	mg/L	0.00321	0.36%
Fe 273.955†	239338.4	193.5	mg/L	0.35	386.9	mg/L	0.69	0.18%
K 766.490†	35077.4	18.96	mg/L	0.028	37.93	mg/L	0.056	0.15%
Mg 279.077†	55585.4	48.83	mg/L	0.017	97.65	mg/L	0.034	0.03%
Mn 257.610†	80931.8	1.692	mg/L	0.0026	3.385	mg/L	0.0052	0.15%
Mo 202.031†	181.5	0.01063	mg/L	0.000426	0.02126	mg/L	0.000852	4.01%
Na 589.592†	900122.6	69.04	mg/L	0.079	138.1	mg/L	0.16	0.11%
Na 330.237†	1827.4	72.29	mg/L	0.560	144.6	mg/L	1.12	0.77%
Ni 231.604†	489.4	0.1373	mg/L	0.00156	0.2746	mg/L	0.00313	1.14%
Pb 220.353†	1483.9	0.1974	mg/L	0.00114	0.3947	mg/L	0.00228	0.58%
Sb 206.836†	21.9	0.01765	mg/L	0.002950	0.03531	mg/L	0.005901	16.71%
Se 196.026†	29.7	0.01418	mg/L	0.001097	0.02836	mg/L	0.002193	7.73%
Si 288.158†	5413.1	3.102	mg/L	0.0273	6.205	mg/L	0.0545	0.88%
Sn 189.927†	7.0	0.01446	mg/L	0.001241	0.02891	mg/L	0.002482	8.59%
Sr 421.552†	508086.1	0.5541	mg/L	0.00040	1.108	mg/L	0.0008	0.07%
Ti 334.903†	173486.7	6.172	mg/L	0.0056	12.34	mg/L	0.011	0.09%
Tl 190.801†	-42.0	-0.00017	mg/L	0.001771	-0.00035	mg/L	0.003541	>999.9%
V 292.402†	66520.8	0.3904	mg/L	0.00077	0.7807	mg/L	0.00153	0.20%
Zn 206.200†	2894.0	0.7437	mg/L	0.00703	1.487	mg/L	0.0141	0.95%

Sequence No.: 27

Autosampler Location: 319

Sample ID: SN04 E SWC

Date Collected: 3/22/2011 1:16:50 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 E SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN04 E SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2481539.1	102.2 %	0.63			0.62%
ScR 361.383	415024.9	103.6 %	1.03			1.00%
Ag 328.068†	1032.1	0.00513 mg/L	0.000116	0.01026 mg/L	0.000232	2.26%
Al 308.215†	204856.2	147.3 mg/L	0.68	294.6 mg/L	1.37	0.46%
As 188.979†	2890.2	2.096 mg/L	0.0072	4.192 mg/L	0.0143	0.34%
B 249.677†	880.4	0.1513 mg/L	0.00287	0.3027 mg/L	0.00574	1.90%
Ba 233.527†	17233.3	2.475 mg/L	0.0194	4.950 mg/L	0.0389	0.79%
Be 313.042†	2801.6	0.00287 mg/L	0.000042	0.00573 mg/L	0.000084	1.46%
Ca 317.933†	663000.0	58.41 mg/L	0.060	116.8 mg/L	0.12	0.10%
Cd 228.802†	468.9	0.00965 mg/L	0.000150	0.01930 mg/L	0.000301	1.56%
Co 228.616†	5512.0	0.1585 mg/L	0.00094	0.3169 mg/L	0.00188	0.59%
Cr 267.716†	2226.4	0.2950 mg/L	0.00142	0.5899 mg/L	0.00284	0.48%
Cu 324.752†	508466.9	2.207 mg/L	0.0035	4.414 mg/L	0.0069	0.16%
Fe 273.955†	310314.4	250.8 mg/L	0.84	501.7 mg/L	1.67	0.33%
K 766.490†	33328.8	18.02 mg/L	0.039	36.04 mg/L	0.079	0.22%
Mg 279.077†	56839.6	49.91 mg/L	0.060	99.81 mg/L	0.120	0.12%
Mn 257.610†	94218.3	1.971 mg/L	0.0057	3.942 mg/L	0.0115	0.29%
Mo 202.031†	3044.9	0.1900 mg/L	0.00147	0.3800 mg/L	0.00293	0.77%
Na 589.592†	756331.4	58.01 mg/L	0.203	116.0 mg/L	0.41	0.35%
Na 330.237†	1577.0	61.51 mg/L	0.465	123.0 mg/L	0.93	0.76%
Ni 231.604†	628.5	0.1765 mg/L	0.00066	0.3531 mg/L	0.00131	0.37%
Pb 220.353†	13472.3	1.651 mg/L	0.0102	3.302 mg/L	0.0205	0.62%
Sb 206.836†	817.3	0.3354 mg/L	0.00186	0.6708 mg/L	0.00372	0.55%
Se 196.026†	45.2	0.02422 mg/L	0.008261	0.04844 mg/L	0.016522	34.11%
Si 288.158†	2933.9	1.685 mg/L	0.0150	3.369 mg/L	0.0301	0.89%
Sn 189.927†	1041.5	0.2293 mg/L	0.00177	0.4586 mg/L	0.00354	0.77%
Sr 421.552†	516809.5	0.5637 mg/L	0.00141	1.127 mg/L	0.0028	0.25%
Ti 334.903†	182387.3	6.486 mg/L	0.0206	12.97 mg/L	0.041	0.32%
Tl 190.801†	-56.9	-0.00105 mg/L	0.003231	-0.00210 mg/L	0.006463	308.19%
V 292.402†	68300.5	0.3971 mg/L	0.00150	0.7942 mg/L	0.00299	0.38%
Zn 206.200†	21187.1	5.445 mg/L	0.0332	10.89 mg/L	0.066	0.61%

SN54 : 00633

Sequence No.: 28  
Sample ID: SN04 F SWC

Autosampler Location: 320  
Date Collected: 3/22/2011 1:20:34 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 F SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 F SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2512733.8	103.5	%	0.21			0.20%
ScR 361.383	423719.1	105.8	%	0.67			0.64%
Ag 328.068†	-77.6	-0.00044	mg/L	0.000264	-0.00088 mg/L	0.000529	60.01%
Al 308.215†	87624.3	62.99	mg/L	0.084	126.0 mg/L	0.17	0.13%
As 188.979†	-19.5	0.02285	mg/L	0.003180	0.04570 mg/L	0.006360	13.92%
B 249.677†	135.2	0.02320	mg/L	0.001393	0.04639 mg/L	0.002786	6.01%
Ba 233.527†	818.7	0.1134	mg/L	0.00126	0.2267 mg/L	0.00251	1.11%
Be 313.042†	715.1	0.00064	mg/L	0.000020	0.00127 mg/L	0.000039	3.09%
Ca 317.933†	401614.6	35.38	mg/L	0.174	70.77 mg/L	0.348	0.49%
Cd 228.802†	13.8	0.00057	mg/L	0.000129	0.00114 mg/L	0.000258	22.53%
Co 228.616†	1133.4	0.02691	mg/L	0.000144	0.05383 mg/L	0.000288	0.54%
Cr 267.716†	490.9	0.06527	mg/L	0.001506	0.1305 mg/L	0.00301	2.31%
Cu 324.752†	25209.0	0.1111	mg/L	0.00033	0.2222 mg/L	0.00066	0.30%
Fe 273.955†	92697.0	74.93	mg/L	0.302	149.9 mg/L	0.60	0.40%
K 766.490†	10148.3	5.486	mg/L	0.0218	10.97 mg/L	0.044	0.40%
Mg 279.077†	17024.2	14.95	mg/L	0.040	29.89 mg/L	0.079	0.26%
Mn 257.610†	26062.6	0.5450	mg/L	0.00289	1.090 mg/L	0.0058	0.53%
Mo 202.031†	90.2	0.00500	mg/L	0.000240	0.01000 mg/L	0.000480	4.80%
Na 589.592†	437220.5	33.53	mg/L	0.169	67.07 mg/L	0.339	0.50%
Na 330.237†	876.6	35.39	mg/L	0.189	70.77 mg/L	0.378	0.53%
Ni 231.604†	152.9	0.04290	mg/L	0.001276	0.08580 mg/L	0.002552	2.97%
Pb 220.353†	-20.5	0.00540	mg/L	0.000229	0.01081 mg/L	0.000458	4.24%
Sb 206.836†	-9.8	0.00364	mg/L	0.001393	0.00729 mg/L	0.002785	38.22%
Se 196.026†	25.8	0.01473	mg/L	0.003369	0.02947 mg/L	0.006738	22.87%
Si 288.158†	3256.6	1.865	mg/L	0.0124	3.729 mg/L	0.0248	0.67%
Sn 189.927†	-70.0	-0.00311	mg/L	0.000219	-0.00621 mg/L	0.000439	7.07%
Sr 421.552†	347952.2	0.3795	mg/L	0.00049	0.7590 mg/L	0.00099	0.13%
Ti 334.903†	137433.5	4.889	mg/L	0.0129	9.778 mg/L	0.0258	0.26%
Tl 190.801†	-9.1	0.00408	mg/L	0.002306	0.00817 mg/L	0.004611	56.46%
V 292.402†	46401.9	0.2765	mg/L	0.00068	0.5529 mg/L	0.00137	0.25%
Zn 206.200†	512.7	0.1318	mg/L	0.00188	0.2635 mg/L	0.00377	1.43%

Sequence No.: 29  
Sample ID: SN04 G SWC

Autosampler Location: 321  
Date Collected: 3/22/2011 1:24:30 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 G SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2520507.0	103.8 %		0.90			0.87%
ScR 361.383	426160.8	106.4 %		1.06			1.00%
Ag 328.068†	208.4	0.00089 mg/L		0.000162	0.00177 mg/L	0.000323	18.22%
Al 308.215†	212080.4	152.5 mg/L		0.46	305.0 mg/L	0.93	0.30%
As 188.979†	77.5	0.1074 mg/L		0.00151	0.2148 mg/L	0.00302	1.41%
B 249.677†	927.4	0.1595 mg/L		0.00066	0.3190 mg/L	0.00132	0.41%
Ba 233.527†	4201.4	0.5947 mg/L		0.00171	1.189 mg/L	0.0034	0.29%
Be 313.042†	2251.4	0.00226 mg/L		0.000024	0.00452 mg/L	0.000049	1.08%
Ca 317.933†	571966.6	50.39 mg/L		0.066	100.8 mg/L	0.13	0.13%
Cd 228.802†	116.3	0.00409 mg/L		0.000185	0.00817 mg/L	0.000369	4.52%
Co 228.616†	2358.6	0.06104 mg/L		0.001033	0.1221 mg/L	0.00207	1.69%
Cr 267.716†	1512.4	0.2001 mg/L		0.00077	0.4003 mg/L	0.00153	0.38%
Cu 324.752†	134239.4	0.5872 mg/L		0.00447	1.174 mg/L	0.0089	0.76%
Fe 273.955†	237804.6	192.2 mg/L		0.32	384.4 mg/L	0.65	0.17%
K 766.490†	35575.8	19.23 mg/L		0.079	38.47 mg/L	0.159	0.41%
Mg 279.077†	55958.5	49.16 mg/L		0.092	98.31 mg/L	0.184	0.19%
Mn 257.610†	80304.7	1.679 mg/L		0.0042	3.358 mg/L	0.0083	0.25%
Mo 202.031†	157.7	0.00896 mg/L		0.000319	0.01792 mg/L	0.000637	3.56%
Na 589.592†	840755.2	64.48 mg/L		0.175	129.0 mg/L	0.35	0.27%
Na 330.237†	1717.2	68.16 mg/L		0.312	136.3 mg/L	0.62	0.46%
Ni 231.604†	502.2	0.1409 mg/L		0.00224	0.2818 mg/L	0.00447	1.59%
Pb 220.353†	1862.3	0.2447 mg/L		0.00271	0.4894 mg/L	0.00542	1.11%
Sb 206.836†	7.9	0.01328 mg/L		0.004311	0.02657 mg/L	0.008622	32.45%
Se 196.026†	37.2	0.01889 mg/L		0.004062	0.03779 mg/L	0.008124	21.50%
Si 288.158†	2613.8	1.501 mg/L		0.0086	3.002 mg/L	0.0172	0.57%
Sn 189.927†	17.0	0.01927 mg/L		0.000190	0.03854 mg/L	0.000380	0.99%
Sr 421.552†	518923.7	0.5660 mg/L		0.00110	1.132 mg/L	0.0022	0.20%
Ti 334.903†	196883.9	7.004 mg/L		0.0146	14.01 mg/L	0.029	0.21%
Tl 190.801†	-42.4	-0.00061 mg/L		0.005208	-0.00122 mg/L	0.010417	856.89%
V 292.402†	68803.4	0.4040 mg/L		0.00198	0.8081 mg/L	0.00397	0.49%
Zn 206.200†	5253.4	1.350 mg/L		0.0043	2.700 mg/L	0.0086	0.32%



Sequence No.: 30  
Sample ID: SN04 H SWC

Autosampler Location: 322  
Date Collected: 3/22/2011 1:28:28 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 H SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

*Ren*

Mean Data: SN04 H SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2524038.7	103.9	%	0.16			0.15%
ScR 361.383	425188.2	106.2	%	0.51			0.48%
Ag 328.068†	2890.6	0.01427	mg/L	0.000047	0.02853 mg/L	0.000095	0.33%
Al 308.215†	231258.6	166.2	mg/L	0.61	332.5 mg/L	1.22	0.37%
As 188.979†	10944.1	7.804	mg/L	0.1084	15.61 mg/L	0.217	1.39%
B 249.677†	717.1	0.1234	mg/L	0.00137	0.2469 mg/L	0.00273	1.11%
Ba 233.527†	7960.4	1.119	mg/L	0.0063	2.237 mg/L	0.0125	0.56%
Be 313.042†	3233.7	0.00333	mg/L	0.000060	0.00666 mg/L	0.000119	1.79%
Ca 317.933†	1566904.8	138.1	mg/L	0.49	276.1 mg/L	0.98	0.36%
Cd 228.802†	1545.9	0.02832	mg/L	0.000599	0.05664 mg/L	0.001199	2.12%
Co 228.616†	16156.1	0.4844	mg/L	0.00501	0.9689 mg/L	0.01001	1.03%
Cr 267.716†	10371.7	1.356	mg/L	0.0091	2.713 mg/L	0.0182	0.67%
Cu 324.752†	2475489.8	<del>10.72</del>	mg/L	0.027	21.43 mg/L	0.055	0.26%
Fe 273.955†	608369.5	491.7	mg/L	1.28	983.5 mg/L	2.55	0.26%
K 766.490†	39489.0	<del>21.35</del>	mg/L	0.121	42.70 mg/L	0.243	0.57%
Mg 279.077†	89966.5	78.95	mg/L	0.287	157.9 mg/L	0.57	0.36%
Mn 257.610†	222315.3	4.652	mg/L	0.0085	9.303 mg/L	0.0170	0.18%
Mo 202.031†	22493.1	1.409	mg/L	0.0162	2.818 mg/L	0.0324	1.15%
Na 589.592†	719800.3	55.21	mg/L	0.039	110.4 mg/L	0.08	0.07%
Na 330.237†	1580.5	58.97	mg/L	0.143	117.9 mg/L	0.29	0.24%
Ni 231.604†	2770.1	0.7778	mg/L	0.00554	1.556 mg/L	0.0111	0.71%
Pb 220.353†	53451.6	6.497	mg/L	0.0698	12.99 mg/L	0.140	1.07%
Sb 206.836†	2675.7	1.067	mg/L	0.0146	2.135 mg/L	0.0292	1.37%
Se 196.026†	66.9	0.02763	mg/L	0.015793	0.05526 mg/L	0.031586	57.16%
Si 288.158†	2352.3	1.358	mg/L	0.0086	2.716 mg/L	0.0173	0.64%
Sn 189.927†	2073.6	0.4607	mg/L	0.00658	0.9214 mg/L	0.01317	1.43%
Sr 421.552†	600269.1	0.6547	mg/L	0.00256	1.309 mg/L	0.0051	0.39%
Ti 334.903†	215355.8	7.645	mg/L	0.0216	15.29 mg/L	0.043	0.28%
Tl 190.801†	-106.0	0.00524	mg/L	0.002848	0.01049 mg/L	0.005695	54.31%
V 292.402†	72270.7	0.4076	mg/L	0.00093	0.8152 mg/L	0.00187	0.23%
Zn 206.200†	66641.3	17.13	mg/L	0.098	34.25 mg/L	0.197	0.57%

Sequence No.: 31  
Sample ID: SN04 I SWC

Autosampler Location: 323  
Date Collected: 3/22/2011 1:30:42 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 I SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 I SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2509625.1	103.4	%	0.70			0.68%
ScR 361.383	427018.7	106.6	%	0.54			0.51%
Ag 328.068†	336.0	0.00164	mg/L	0.000115	0.00327 mg/L	0.000230	7.04%
Al 308.215†	152803.9	109.9	mg/L	0.30	219.7 mg/L	0.59	0.27%
As 188.979†	65.6	0.09212	mg/L	0.000282	0.1842 mg/L	0.00056	0.31%
B 249.677†	361.5	0.06211	mg/L	0.000527	0.1242 mg/L	0.00105	0.85%
Ba 233.527†	29498.7	4.255	mg/L	0.0339	8.511 mg/L	0.0679	0.80%
Be 313.042†	1620.8	0.00158	mg/L	0.000027	0.00316 mg/L	0.000054	1.72%
Ca 317.933†	489376.5	43.12	mg/L	0.065	86.23 mg/L	0.130	0.15%
Cd 228.802†	128.0	0.00452	mg/L	0.000174	0.00905 mg/L	0.000348	3.85%
Co 228.616†	1973.9	0.04986	mg/L	0.000287	0.09972 mg/L	0.000573	0.57%
Cr 267.716†	1369.2	0.1806	mg/L	0.00341	0.3611 mg/L	0.00682	1.89%
Cu 324.752†	139383.6	0.6072	mg/L	0.00451	1.214 mg/L	0.0090	0.74%
Fe 273.955†	173434.3	140.2	mg/L	0.59	280.4 mg/L	1.18	0.42%
K 766.490†	23236.0	12.56	mg/L	0.023	25.12 mg/L	0.046	0.18%
Mg 279.077†	36403.9	31.97	mg/L	0.051	63.94 mg/L	0.103	0.16%
Mn 257.610†	56576.1	1.183	mg/L	0.0053	2.366 mg/L	0.0106	0.45%
Mo 202.031†	241.3	0.01434	mg/L	0.000991	0.02868 mg/L	0.001982	6.91%
Na 589.592†	596675.7	45.76	mg/L	0.247	91.53 mg/L	0.493	0.54%
Na 330.237†	1196.5	47.98	mg/L	0.596	95.95 mg/L	1.192	1.24%
Ni 231.604†	405.7	0.1138	mg/L	0.00046	0.2277 mg/L	0.00093	0.41%
Pb 220.353†	2333.9	0.2968	mg/L	0.00103	0.5935 mg/L	0.00206	0.35%
Sb 206.836†	5.6	0.01164	mg/L	0.001180	0.02327 mg/L	0.002361	10.14%
Se 196.026†	30.1	0.01559	mg/L	0.004178	0.03118 mg/L	0.008356	26.80%
Si 288.158†	2144.8	1.231	mg/L	0.0124	2.462 mg/L	0.0248	1.01%
Sn 189.927†	271.0	0.06856	mg/L	0.000843	0.1371 mg/L	0.00169	1.23%
Sr 421.552†	436905.5	0.4765	mg/L	0.00165	0.9530 mg/L	0.00330	0.35%
Ti 334.903†	170887.3	6.079	mg/L	0.0243	12.16 mg/L	0.049	0.40%
Tl 190.801†	-31.4	-0.00086	mg/L	0.006480	-0.00172 mg/L	0.012959	751.97%
V 292.402†	63467.0	0.3759	mg/L	0.00288	0.7518 mg/L	0.00576	0.77%
Zn 206.200†	2504.3	0.6436	mg/L	0.00573	1.287 mg/L	0.0115	0.89%

Sequence No.: 32  
Sample ID: SN04 J SWC

Autosampler Location: 324  
Date Collected: 3/22/2011 1:34:41 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 J SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 J SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2505628.6	103.2	%	0.45				0.44%
ScR 361.383	428002.7	106.9	%	0.86				0.81%
Ag 328.068†	355.2	0.00174	mg/L	0.000077	0.00347	mg/L	0.000155	4.45%
Al 308.215†	149245.5	107.3	mg/L	0.31	214.6	mg/L	0.63	0.29%
As 188.979†	59.1	0.08800	mg/L	0.002087	0.1760	mg/L	0.00417	2.37%
B 249.677†	311.4	0.05348	mg/L	0.001766	0.1070	mg/L	0.00353	3.30%
Ba 233.527†	26418.3	3.810	mg/L	0.0102	7.620	mg/L	0.0204	0.27%
Be 313.042†	1562.3	0.00152	mg/L	0.000020	0.00303	mg/L	0.000039	1.29%
Ca 317.933†	485496.6	42.77	mg/L	0.136	85.55	mg/L	0.273	0.32%
Cd 228.802†	129.3	0.00458	mg/L	0.000081	0.00917	mg/L	0.000163	1.77%
Co 228.616†	1971.7	0.04979	mg/L	0.000313	0.09957	mg/L	0.000626	0.63%
Cr 267.716†	1617.6	0.2126	mg/L	0.00062	0.4253	mg/L	0.00125	0.29%
Cu 324.752†	194748.8	0.8463	mg/L	0.00043	1.693	mg/L	0.0009	0.05%
Fe 273.955†	171411.2	138.6	mg/L	0.08	277.1	mg/L	0.16	0.06%
K 766.490†	22565.6	12.20	mg/L	0.051	24.40	mg/L	0.101	0.41%
Mg 279.077†	36302.9	31.88	mg/L	0.085	63.77	mg/L	0.169	0.27%
Mn 257.610†	56674.2	1.185	mg/L	0.0002	2.370	mg/L	0.0005	0.02%
Mo 202.031†	196.9	0.01156	mg/L	0.000383	0.02313	mg/L	0.000765	3.31%
Na 589.592†	590000.7	45.25	mg/L	0.032	90.50	mg/L	0.065	0.07%
Na 330.237†	1191.4	47.78	mg/L	0.172	95.56	mg/L	0.345	0.36%
Ni 231.604†	401.6	0.1127	mg/L	0.00111	0.2254	mg/L	0.00222	0.99%
Pb 220.353†	2642.3	0.3337	mg/L	0.00336	0.6673	mg/L	0.00671	1.01%
Sb 206.836†	4.0	0.01069	mg/L	0.000609	0.02138	mg/L	0.001217	5.69%
Se 196.026†	33.3	0.01833	mg/L	0.003191	0.03666	mg/L	0.006382	17.41%
Si 288.158†	2179.5	1.251	mg/L	0.0021	2.501	mg/L	0.0042	0.17%
Sn 189.927†	247.2	0.06366	mg/L	0.000863	0.1273	mg/L	0.00173	1.36%
Sr 421.552†	425956.3	0.4646	mg/L	0.00063	0.9291	mg/L	0.00127	0.14%
Ti 334.903†	172770.3	6.146	mg/L	0.0056	12.29	mg/L	0.011	0.09%
Tl 190.801†	-22.4	0.00430	mg/L	0.006384	0.00860	mg/L	0.012767	148.41%
V 292.402†	63442.4	0.3760	mg/L	0.00097	0.7520	mg/L	0.00194	0.26%
Zn 206.200†	2847.5	0.7318	mg/L	0.00162	1.464	mg/L	0.0032	0.22%

SN54 : 00638

Sequence No.: 33  
Sample ID: SN04 K SWC

Autosampler Location: 325  
Date Collected: 3/22/2011 1:38:39 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 K SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 K SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2537876.1	104.5	%	0.41			0.39%
ScR 361.383	423027.0	105.6	%	0.79			0.75%
Ag 328.068†	1625.4	0.00829	mg/L	0.000064	0.01658 mg/L	0.000128	0.77%
Al 308.215†	204489.4	147.0	mg/L	0.43	294.1 mg/L	0.85	0.29%
As 188.979†	264.3	0.2297	mg/L	0.00118	0.4594 mg/L	0.00236	0.51%
B 249.677†	604.4	0.1039	mg/L	0.00141	0.2078 mg/L	0.00282	1.36%
Ba 233.527†	6116.7	0.8716	mg/L	0.00267	1.743 mg/L	0.0053	0.31%
Be 313.042†	2328.7	0.00235	mg/L	0.000027	0.00471 mg/L	0.000054	1.14%
Ca 317.933†	683536.8	60.22	mg/L	0.111	120.4 mg/L	0.22	0.18%
Cd 228.802†	299.0	0.01023	mg/L	0.000182	0.02046 mg/L	0.000363	1.78%
Co 228.616†	2398.9	0.06401	mg/L	0.000660	0.1280 mg/L	0.00132	1.03%
Cr 267.716†	2949.4	0.3859	mg/L	0.00170	0.7717 mg/L	0.00339	0.44%
Cu 324.752†	348235.0	1.512	mg/L	0.0033	3.024 mg/L	0.0067	0.22%
Fe 273.955†	238144.0	192.5	mg/L	0.69	385.0 mg/L	1.38	0.36%
K 766.490†	31178.7	16.86	mg/L	0.064	33.71 mg/L	0.127	0.38%
Mg 279.077†	57324.4	50.36	mg/L	0.134	100.7 mg/L	0.27	0.27%
Mn 257.610†	84790.5	1.773	mg/L	0.0045	3.547 mg/L	0.0090	0.25%
Mo 202.031†	202.8	0.01161	mg/L	0.000253	0.02322 mg/L	0.000507	2.18%
Na 589.592†	780986.6	59.90	mg/L	0.278	119.8 mg/L	0.56	0.46%
Na 330.237†	1612.4	63.57	mg/L	0.245	127.1 mg/L	0.49	0.39%
Ni 231.604†	594.1	0.1667	mg/L	0.00130	0.3334 mg/L	0.00259	0.78%
Pb 220.353†	11780.8	1.450	mg/L	0.0126	2.899 mg/L	0.0251	0.87%
Sb 206.836†	83.1	0.04487	mg/L	0.003835	0.08974 mg/L	0.007670	8.55%
Se 196.026†	36.1	0.01642	mg/L	0.002576	0.03284 mg/L	0.005153	15.69%
Si 288.158†	6892.5	3.949	mg/L	0.0156	7.898 mg/L	0.0313	0.40%
Sn 189.927†	2282.3	0.4812	mg/L	0.00416	0.9623 mg/L	0.00832	0.86%
Sr 421.552†	528343.5	0.5762	mg/L	0.00180	1.152 mg/L	0.0036	0.31%
Ti 334.903†	165701.5	5.891	mg/L	0.0209	11.78 mg/L	0.042	0.35%
Tl 190.801†	-37.8	0.00218	mg/L	0.001440	0.00437 mg/L	0.002880	65.92%
V 292.402†	65751.5	0.3868	mg/L	0.00150	0.7737 mg/L	0.00301	0.39%
Zn 206.200†	7932.2	2.038	mg/L	0.0068	4.077 mg/L	0.0136	0.33%

Sequence No.: 34

Sample ID: SN04 MB1SPK SWC

Autosampler Location: 326

Date Collected: 3/22/2011 1:42:23 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 MB1SPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN04 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2537899.4	104.5	%	0.40			0.38%
ScR 361.383	424452.0	106.0	%	0.88			0.83%
Ag 328.068†	98888.6	0.5181	mg/L	0.00182	1.036	mg/L	0.0036 0.35%
Al 308.215†	2819.8	2.018	mg/L	0.0144	4.036	mg/L	0.0289 0.72%
As 188.979†	2860.8	2.027	mg/L	0.0126	4.054	mg/L	0.0253 0.62%
B 249.677†	5.3	-0.00027	mg/L	0.000646	-0.00054	mg/L	0.001292 241.30%
Ba 233.527†	13598.6	1.966	mg/L	0.0144	3.931	mg/L	0.0288 0.73%
Be 313.042†	437373.3	0.4826	mg/L	0.00060	0.9652	mg/L	0.00120 0.12%
Ca 317.933†	112709.4	9.930	mg/L	0.0181	19.86	mg/L	0.036 0.18%
Cd 228.802†	14113.0	0.5032	mg/L	0.00235	1.006	mg/L	0.0047 0.47%
Co 228.616†	16033.0	0.4925	mg/L	0.00124	0.9851	mg/L	0.00249 0.25%
Cr 267.716†	3864.8	0.4992	mg/L	0.00337	0.9984	mg/L	0.00675 0.68%
Cu 324.752†	111035.2	0.4798	mg/L	0.00168	0.9597	mg/L	0.00337 0.35%
Fe 273.955†	2512.8	2.028	mg/L	0.0188	4.057	mg/L	0.0377 0.93%
K 766.490†	18864.1	10.20	mg/L	0.047	20.40	mg/L	0.095 0.46%
Mg 279.077†	11682.0	10.28	mg/L	0.075	20.56	mg/L	0.150 0.73%
Mn 257.610†	22787.1	0.4768	mg/L	0.00341	0.9536	mg/L	0.00681 0.71%
Mo 202.031†	25.6	0.00142	mg/L	0.000200	0.00285	mg/L	0.000400 14.05%
Na 589.592†	126829.5	9.728	mg/L	0.0063	19.46	mg/L	0.013 0.06%
Na 330.237†	253.5	9.636	mg/L	0.1022	19.27	mg/L	0.204 1.06%
Ni 231.604†	1736.6	0.4872	mg/L	0.00437	0.9745	mg/L	0.00873 0.90%
Pb 220.353†	16197.5	1.971	mg/L	0.0044	3.942	mg/L	0.0088 0.22%
Sb 206.836†	9.3	0.00049	mg/L	0.001908	0.00098	mg/L	0.003816 391.28%
Se 196.026†	2528.5	2.089	mg/L	0.0136	4.178	mg/L	0.0272 0.65%
Si 288.158†	1.4	0.00395	mg/L	0.004264	0.00790	mg/L	0.008528 107.89%
Sn 189.927†	-28.3	-0.00310	mg/L	0.000768	-0.00620	mg/L	0.001536 24.78%
Sr 421.552†	454271.8	0.4954	mg/L	0.00046	0.9909	mg/L	0.00092 0.09%
Ti 334.903†	152.3	0.00362	mg/L	0.000170	0.00724	mg/L	0.000339 4.69%
Tl 190.801†	3262.3	1.976	mg/L	0.0099	3.951	mg/L	0.0197 0.50%
V 292.402†	81296.4	0.5020	mg/L	0.00213	1.004	mg/L	0.0043 0.42%
Zn 206.200†	1919.9	0.4935	mg/L	0.00398	0.9869	mg/L	0.00796 0.81%

Sequence No.: 35  
 Sample ID: CV 5

Autosampler Location: 7  
 Date Collected: 3/22/2011 1:46:18 PM  
 Data Type: Original

Dilution: 1X

-----  
 Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 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	2507575.3	103.3 %	0.16			0.15%
ScR 361.383	426165.4	106.4 %	0.80			0.76%
Ag 328.068†	191610.7	1.004 mg/L	0.0047	1.004 mg/L	0.0047	0.47%
Al 308.215†	2827.0	1.999 mg/L	0.0071	1.999 mg/L	0.0071	0.36%
As 188.979†	2842.3	2.021 mg/L	0.0076	2.021 mg/L	0.0076	0.38%
B 249.677†	5821.5	1.001 mg/L	0.0064	1.001 mg/L	0.0064	0.64%
Ba 233.527†	6734.5	0.9731 mg/L	0.00922	0.9731 mg/L	0.00922	0.95%
Be 313.042†	875841.4	0.9664 mg/L	0.00178	0.9664 mg/L	0.00178	0.18%
Ca 317.933†	24163.9	2.129 mg/L	0.0086	2.129 mg/L	0.0086	0.40%
Cd 228.802†	28226.7	1.014 mg/L	0.0015	1.014 mg/L	0.0015	0.14%
Co 228.616†	32171.1	0.9877 mg/L	0.00146	0.9877 mg/L	0.00146	0.15%
Cr 267.716†	7764.2	1.004 mg/L	0.0043	1.004 mg/L	0.0043	0.43%
Cu 324.752†	234790.1	1.014 mg/L	0.0066	1.014 mg/L	0.0066	0.66%
Fe 273.955†	2477.3	1.997 mg/L	0.0066	1.997 mg/L	0.0066	0.33%
K 766.490†	38041.1	20.57 mg/L	0.122	20.57 mg/L	0.122	0.59%
Mg 279.077†	2260.9	1.994 mg/L	0.0315	1.994 mg/L	0.0315	1.58%
Mn 257.610†	46038.6	0.9629 mg/L	0.00538	0.9629 mg/L	0.00538	0.56%
Mo 202.031†	15843.8	0.9942 mg/L	0.00412	0.9942 mg/L	0.00412	0.41%
Na 589.592†	635596.0	48.75 mg/L	0.105	48.75 mg/L	0.105	0.22%
Na 330.237†	1300.7	50.17 mg/L	0.306	50.17 mg/L	0.306	0.61%
Ni 231.604†	3530.1	0.9916 mg/L	0.00887	0.9916 mg/L	0.00887	0.89%
Pb 220.353†	16041.7	1.953 mg/L	0.0082	1.953 mg/L	0.0082	0.42%
Sb 206.836†	5105.9	2.034 mg/L	0.0096	2.034 mg/L	0.0096	0.47%
Se 196.026†	2411.6	1.994 mg/L	0.0132	1.994 mg/L	0.0132	0.66%
Si 288.158†	3414.4	1.959 mg/L	0.0236	1.959 mg/L	0.0236	1.20%
Sn 189.927†	4814.3	0.9791 mg/L	0.00534	0.9791 mg/L	0.00534	0.55%
Sr 421.552†	910875.3	0.9934 mg/L	0.00205	0.9934 mg/L	0.00205	0.21%
Ti 334.903†	27070.4	0.9624 mg/L	0.00117	0.9624 mg/L	0.00117	0.12%
Tl 190.801†	3233.2	1.960 mg/L	0.0123	1.960 mg/L	0.0123	0.63%
V 292.402†	162806.6	1.006 mg/L	0.0073	1.006 mg/L	0.0073	0.72%
Zn 206.200†	3888.9	0.9992 mg/L	0.01121	0.9992 mg/L	0.01121	1.12%

Sequence No.: 36

Sample ID: CB

Autosampler Location: 1

Date Collected: 3/22/2011 1:49:31 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 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	2529914.4	104.2	%	0.83				0.79%
ScR 361.383	422291.2	105.4	%	0.80				0.76%
Ag 328.068†	1.6	0.00001	mg/L	0.000093	0.00001	mg/L	0.000093	>999.9%
Al 308.215†	-6.6	-0.00479	mg/L	0.020424	-0.00479	mg/L	0.020424	426.70%
As 188.979†	-1.5	-0.00105	mg/L	0.001991	-0.00105	mg/L	0.001991	190.38%
B 249.677†	8.6	0.00148	mg/L	0.000686	0.00148	mg/L	0.000686	46.45%
Ba 233.527†	1.5	0.00022	mg/L	0.000693	0.00022	mg/L	0.000693	314.19%
Be 313.042†	45.1	0.00005	mg/L	0.000017	0.00005	mg/L	0.000017	33.58%
Ca 317.933†	0.7	0.00007	mg/L	0.001213	0.00007	mg/L	0.001213	>999.9%
Cd 228.802†	1.5	0.00006	mg/L	0.000029	0.00006	mg/L	0.000029	48.79%
Co 228.616†	-3.6	-0.00011	mg/L	0.000052	-0.00011	mg/L	0.000052	46.81%
Cr 267.716†	-0.2	-0.00003	mg/L	0.000940	-0.00003	mg/L	0.000940	>999.9%
Cu 324.752†	79.4	0.00034	mg/L	0.000067	0.00034	mg/L	0.000067	19.61%
Fe 273.955†	2.0	0.00162	mg/L	0.003037	0.00162	mg/L	0.003037	187.27%
K 766.490†	35.0	0.01890	mg/L	0.004360	0.01890	mg/L	0.004360	23.06%
Mg 279.077†	-3.1	-0.00271	mg/L	0.004838	-0.00271	mg/L	0.004838	178.48%
Mn 257.610†	5.9	0.00012	mg/L	0.000114	0.00012	mg/L	0.000114	91.47%
Mo 202.031†	32.6	0.00204	mg/L	0.000623	0.00204	mg/L	0.000623	30.48%
Na 589.592†	27.5	0.00211	mg/L	0.004599	0.00211	mg/L	0.004599	218.16%
Na 330.237†	-21.6	-0.8313	mg/L	0.37226	-0.8313	mg/L	0.37226	44.78%
Ni 231.604†	5.8	0.00164	mg/L	0.001747	0.00164	mg/L	0.001747	106.85%
Pb 220.353†	-2.0	-0.00024	mg/L	0.001179	-0.00024	mg/L	0.001179	491.58%
Sb 206.836†	6.7	0.00268	mg/L	0.001397	0.00268	mg/L	0.001397	52.02%
Se 196.026†	-1.2	-0.00102	mg/L	0.000886	-0.00102	mg/L	0.000886	86.73%
Si 288.158†	0.2	0.00010	mg/L	0.001856	0.00010	mg/L	0.001856	>999.9%
Sn 189.927†	4.3	0.00088	mg/L	0.000128	0.00088	mg/L	0.000128	14.53%
Sr 421.552†	-56.4	-0.00006	mg/L	0.000012	-0.00006	mg/L	0.000012	18.98%
Ti 334.903†	14.7	0.00052	mg/L	0.000203	0.00052	mg/L	0.000203	39.04%
Tl 190.801†	1.3	0.00081	mg/L	0.001904	0.00081	mg/L	0.001904	233.71%
V 292.402†	-11.2	-0.00007	mg/L	0.000141	-0.00007	mg/L	0.000141	209.89%
Zn 206.200†	-0.6	-0.00015	mg/L	0.000876	-0.00015	mg/L	0.000876	598.02%

Sequence No.: 37

Autosampler Location: 327

Sample ID: SN20 MB1 SWC

Date Collected: 3/22/2011 1:53:41 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 MB1 SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN20 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2523744.3	103.9 %	0.62			0.59%
ScR 361.383	424226.6	105.9 %	1.14			1.07%
Ag 328.068†	31.0	0.00016 mg/L	0.000046	0.00032 mg/L	0.000091	28.11%
Al 308.215†	15.0	0.01078 mg/L	0.004088	0.02157 mg/L	0.008177	37.91%
As 188.979†	-0.5	-0.00033 mg/L	0.003136	-0.00066 mg/L	0.006272	950.12%
B 249.677†	-2.3	-0.00039 mg/L	0.000166	-0.00078 mg/L	0.000331	42.36%
Ba 233.527†	-4.9	-0.00071 mg/L	0.000791	-0.00142 mg/L	0.001581	110.99%
Be 313.042†	-8.3	-0.00001 mg/L	0.000023	-0.00002 mg/L	0.000045	244.94%
Ca 317.933†	268.6	0.02366 mg/L	0.000130	0.04733 mg/L	0.000260	0.55%
Cd 228.802†	-4.0	-0.00014 mg/L	0.000180	-0.00028 mg/L	0.000360	126.27%
Co 228.616†	-2.9	-0.00009 mg/L	0.000050	-0.00019 mg/L	0.000100	53.21%
Cr 267.716†	-0.3	-0.00004 mg/L	0.000417	-0.00008 mg/L	0.000835	>999.9%
Cu 324.752†	76.7	0.00033 mg/L	0.000066	0.00066 mg/L	0.000131	19.84%
Fe 273.955†	7.8	0.00628 mg/L	0.000911	0.01257 mg/L	0.001822	14.50%
K 766.490†	216.1	0.1168 mg/L	0.00958	0.2337 mg/L	0.01917	8.20%
Mg 279.077†	10.8	0.00952 mg/L	0.003960	0.01904 mg/L	0.007920	41.60%
Mn 257.610†	8.0	0.00017 mg/L	0.000090	0.00033 mg/L	0.000180	53.96%
Mo 202.031†	0.3	0.00002 mg/L	0.000052	0.00004 mg/L	0.000103	285.88%
Na 589.592†	21.2	0.00163 mg/L	0.002959	0.00326 mg/L	0.005918	181.57%
Na 330.237†	-18.3	-0.7038 mg/L	0.03413	-1.408 mg/L	0.0683	4.85%
Ni 231.604†	4.1	0.00114 mg/L	0.001650	0.00228 mg/L	0.003300	144.90%
Pb 220.353†	-2.8	-0.00034 mg/L	0.000706	-0.00069 mg/L	0.001413	205.60%
Sb 206.836†	-2.1	-0.00081 mg/L	0.000857	-0.00162 mg/L	0.001715	105.94%
Se 196.026†	1.0	0.00080 mg/L	0.001329	0.00161 mg/L	0.002657	165.55%
Si 288.158†	1.6	0.00093 mg/L	0.003198	0.00186 mg/L	0.006395	344.13%
Sn 189.927†	3.2	0.00065 mg/L	0.000992	0.00130 mg/L	0.001985	152.42%
Sr 421.552†	-10.4	-0.00001 mg/L	0.000054	-0.00002 mg/L	0.000107	473.48%
Ti 334.903†	61.4	0.00218 mg/L	0.000312	0.00437 mg/L	0.000623	14.28%
Tl 190.801†	0.8	0.00049 mg/L	0.001151	0.00098 mg/L	0.002303	236.16%
V 292.402†	2.6	0.00001 mg/L	0.000061	0.00003 mg/L	0.000121	427.98%
Zn 206.200†	7.3	0.00187 mg/L	0.000453	0.00373 mg/L	0.000906	24.26%

SN54 : 00643



Sequence No.: 38  
Sample ID: SN04 L SWC

Autosampler Location: 328  
Date Collected: 3/22/2011 1:57:37 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN04 L SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 L SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2495916.8	102.8	%	0.85				0.82%
ScR 361.383	423239.1	105.7	%	0.60				0.56%
Ag 328.068†	459.8	0.00231	mg/L	0.000183	0.00462	mg/L	0.000365	7.90%
Al 308.215†	111677.9	80.29	mg/L	0.172	160.6	mg/L	0.34	0.21%
As 188.979†	40.1	0.06768	mg/L	0.000297	0.1354	mg/L	0.00059	0.44%
B 249.677†	374.9	0.06445	mg/L	0.001428	0.1289	mg/L	0.00286	2.22%
Ba 233.527†	1581.8	0.2214	mg/L	0.00191	0.4429	mg/L	0.00381	0.86%
Be 313.042†	1209.3	0.00116	mg/L	0.000027	0.00231	mg/L	0.000053	2.31%
Ca 317.933†	407752.6	35.93	mg/L	0.098	71.85	mg/L	0.197	0.27%
Cd 228.802†	84.9	0.00301	mg/L	0.000086	0.00602	mg/L	0.000172	2.85%
Co 228.616†	1511.1	0.03795	mg/L	0.000433	0.07591	mg/L	0.000867	1.14%
Cr 267.716†	1096.4	0.1444	mg/L	0.00040	0.2889	mg/L	0.00080	0.28%
Cu 324.752†	57570.7	0.2525	mg/L	0.00291	0.5050	mg/L	0.00581	1.15%
Fe 273.955†	134925.9	109.1	mg/L	0.36	218.1	mg/L	0.72	0.33%
K 766.490†	17290.5	9.348	mg/L	0.0262	18.70	mg/L	0.052	0.28%
Mg 279.077†	28732.1	25.23	mg/L	0.023	50.47	mg/L	0.047	0.09%
Mn 257.610†	46427.0	0.9708	mg/L	0.00332	1.942	mg/L	0.0066	0.34%
Mo 202.031†	110.7	0.00628	mg/L	0.000171	0.01257	mg/L	0.000342	2.72%
Na 589.592†	488235.7	37.45	mg/L	0.113	74.89	mg/L	0.226	0.30%
Na 330.237†	978.2	39.35	mg/L	0.201	78.71	mg/L	0.401	0.51%
Ni 231.604†	281.2	0.07890	mg/L	0.000823	0.1578	mg/L	0.00165	1.04%
Pb 220.353†	1045.8	0.1365	mg/L	0.00219	0.2729	mg/L	0.00439	1.61%
Sb 206.836†	-0.9	0.00715	mg/L	0.000242	0.01430	mg/L	0.000483	3.38%
Se 196.026†	27.8	0.01535	mg/L	0.001168	0.03070	mg/L	0.002336	7.61%
Si 288.158†	4580.4	2.623	mg/L	0.0223	5.246	mg/L	0.0445	0.85%
Sn 189.927†	-41.1	0.00302	mg/L	0.001527	0.00603	mg/L	0.003054	50.63%
Sr 421.552†	348251.4	0.3798	mg/L	0.00066	0.7596	mg/L	0.00131	0.17%
Ti 334.903†	146876.6	5.225	mg/L	0.0096	10.45	mg/L	0.019	0.18%
Tl 190.801†	-21.3	0.00112	mg/L	0.004242	0.00223	mg/L	0.008485	379.87%
V 292.402†	54184.5	0.3217	mg/L	0.00350	0.6435	mg/L	0.00700	1.09%
Zn 206.200†	1410.9	0.3626	mg/L	0.00232	0.7251	mg/L	0.00463	0.64%

Sequence No.: 39  
Sample ID: SN20 B SWC

Autosampler Location: 329  
Date Collected: 3/22/2011 2:01:32 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 B SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN20 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2472771.9	101.8 %	0.45			0.44%
ScR 361.383	414066.3	103.4 %	0.88			0.85%
Ag 328.068†	996.8	0.00485 mg/L	0.000262	0.00970 mg/L	0.000525	5.41%
Al 308.215†	136450.7	98.09 mg/L	0.139	196.2 mg/L	0.28	0.14%
As 188.979†	3272.2	2.363 mg/L	0.0130	4.726 mg/L	0.0260	0.55%
B 249.677†	894.4	0.1537 mg/L	0.00053	0.3075 mg/L	0.00105	0.34%
Ba 233.527†	4203.7	0.5921 mg/L	0.00574	1.184 mg/L	0.0115	0.97%
Be 313.042†	2170.4	0.00217 mg/L	0.000030	0.00435 mg/L	0.000061	1.40%
Ca 317.933†	1159456.6	102.2 mg/L	0.09	204.3 mg/L	0.18	0.09%
Cd 228.802†	458.9	0.00834 mg/L	0.000171	0.01668 mg/L	0.000342	2.05%
Co 228.616†	5668.7	0.1636 mg/L	0.00128	0.3272 mg/L	0.00255	0.78%
Cr 267.716†	4097.7	0.5365 mg/L	0.00436	1.073 mg/L	0.0087	0.81%
Cu 324.752†	695454.1	3.014 mg/L	0.0002	6.028 mg/L	0.0003	0.01%
Fe 273.955†	294331.2	237.9 mg/L	0.28	475.8 mg/L	0.56	0.12%
K 766.490†	21507.7	11.63 mg/L	0.062	23.26 mg/L	0.124	0.53%
Mg 279.077†	47130.2	41.37 mg/L	0.027	82.73 mg/L	0.054	0.07%
Mn 257.610†	120869.1	2.528 mg/L	0.0021	5.057 mg/L	0.0042	0.08%
Mo 202.031†	2739.5	0.1700 mg/L	0.00024	0.3400 mg/L	0.00047	0.14%
Na 589.592†	568033.3	43.57 mg/L	0.096	87.13 mg/L	0.192	0.22%
Na 330.237†	1186.3	46.00 mg/L	0.330	92.00 mg/L	0.660	0.72%
Ni 231.604†	796.2	0.2236 mg/L	0.00221	0.4472 mg/L	0.00442	0.99%
Pb 220.353†	18535.8	2.258 mg/L	0.0114	4.515 mg/L	0.0228	0.50%
Sb 206.836†	981.3	0.3978 mg/L	0.00220	0.7956 mg/L	0.00440	0.55%
Se 196.026†	61.1	0.03150 mg/L	0.012159	0.06299 mg/L	0.024317	38.60%
Si 288.158†	6515.9	3.733 mg/L	0.0333	7.465 mg/L	0.0667	0.89%
Sn 189.927†	849.5	0.2020 mg/L	0.00175	0.4040 mg/L	0.00350	0.87%
Sr 421.552†	478496.8	0.5219 mg/L	0.00047	1.044 mg/L	0.0009	0.09%
Ti 334.903†	184560.5	6.556 mg/L	0.0022	13.11 mg/L	0.004	0.03%
Tl 190.801†	-50.0	0.00120 mg/L	0.001828	0.00240 mg/L	0.003657	152.62%
V 292.402†	67609.0	0.3951 mg/L	0.00068	0.7902 mg/L	0.00137	0.17%
Zn 206.200†	28409.0	7.301 mg/L	0.0607	14.60 mg/L	0.121	0.83%

Sequence No.: 40  
Sample ID: SN20 C SWC

Autosampler Location: 330  
Date Collected: 3/22/2011 2:05:15 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 C SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN20 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2511048.9	103.4	%	0.65			0.63%
ScR 361.383	425729.4	106.3	%	0.77			0.72%
Ag 328.068†	1204.1	0.00593	mg/L	0.000107	0.01187 mg/L	0.000214	1.81%
Al 308.215†	117847.6	84.72	mg/L	0.113	169.4 mg/L	0.23	0.13%
As 188.979†	2809.1	2.025	mg/L	0.0170	4.051 mg/L	0.0340	0.84%
B 249.677†	603.9	0.1038	mg/L	0.00244	0.2076 mg/L	0.00489	2.35%
Ba 233.527†	5072.3	0.7192	mg/L	0.00589	1.438 mg/L	0.0118	0.82%
Be 313.042†	1893.1	0.00190	mg/L	0.000017	0.00380 mg/L	0.000035	0.92%
Ca 317.933†	1269212.1	111.8	mg/L	0.02	223.6 mg/L	0.04	0.02%
Cd 228.802†	379.4	0.00659	mg/L	0.000256	0.01318 mg/L	0.000513	3.89%
Co 228.616†	4884.5	0.1412	mg/L	0.00068	0.2823 mg/L	0.00135	0.48%
Cr 267.716†	3771.3	0.4935	mg/L	0.00151	0.9870 mg/L	0.00303	0.31%
Cu 324.752†	837300.3	3.626	mg/L	0.0113	7.252 mg/L	0.0226	0.31%
Fe 273.955†	265879.8	214.9	mg/L	0.66	429.8 mg/L	1.33	0.31%
K 766.490†	19569.0	10.58	mg/L	0.012	21.16 mg/L	0.023	0.11%
Mg 279.077†	39771.0	34.90	mg/L	0.066	69.80 mg/L	0.132	0.19%
Mn 257.610†	115963.3	2.426	mg/L	0.0080	4.851 mg/L	0.0161	0.33%
Mo 202.031†	3197.9	0.1986	mg/L	0.00098	0.3972 mg/L	0.00196	0.49%
Na 589.592†	476703.9	36.56	mg/L	0.101	73.12 mg/L	0.202	0.28%
Na 330.237†	986.2	38.44	mg/L	0.352	76.89 mg/L	0.704	0.92%
Ni 231.604†	450.2	0.1266	mg/L	0.00109	0.2531 mg/L	0.00219	0.86%
Pb 220.353†	15314.6	1.864	mg/L	0.0108	3.727 mg/L	0.0217	0.58%
Sb 206.836†	1067.1	0.4303	mg/L	0.00178	0.8607 mg/L	0.00356	0.41%
Se 196.026†	50.9	0.02216	mg/L	0.007186	0.04432 mg/L	0.014373	32.43%
Si 288.158†	5435.6	3.114	mg/L	0.0286	6.228 mg/L	0.0571	0.92%
Sn 189.927†	789.8	0.1921	mg/L	0.00051	0.3842 mg/L	0.00101	0.26%
Sr 421.552†	419811.7	0.4579	mg/L	0.00055	0.9157 mg/L	0.00110	0.12%
Ti 334.903†	155008.0	5.501	mg/L	0.0113	11.00 mg/L	0.023	0.20%
Tl 190.801†	-42.1	0.00320	mg/L	0.007472	0.00640 mg/L	0.014944	233.55%
V 292.402†	56990.0	0.3322	mg/L	0.00229	0.6643 mg/L	0.00458	0.69%
Zn 206.200†	20896.3	5.370	mg/L	0.0453	10.74 mg/L	0.091	0.84%

Sequence No.: 41  
Sample ID: SN20 D SWC

Autosampler Location: 331  
Date Collected: 3/22/2011 2:08:58 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 D SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

*rem*

Mean Data: SN20 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2464655.6	101.5 %	0.52			0.51%
ScR 361.383	416363.3	104.0 %	1.04			1.01%
Ag 328.068†	1875.9	0.00907 mg/L	0.000366	0.01814 mg/L	0.000732	4.04%
Al 308.215†	197485.3	142.0 mg/L	0.50	284.0 mg/L	0.99	0.35%
As 188.979†	6149.7	4.397 mg/L	0.0528	8.794 mg/L	0.1056	1.20%
B 249.677†	1574.2	0.2704 mg/L	0.00033	0.5408 mg/L	0.00067	0.12%
Ba 233.527†	20140.2	2.877 mg/L	0.0144	5.754 mg/L	0.0289	0.50%
Be 313.042†	4519.6	0.00473 mg/L	0.000028	0.00946 mg/L	0.000056	0.60%
Ca 317.933†	2182708.8	192.3 mg/L	0.44	384.6 mg/L	0.88	0.23%
Cd 228.802†	946.5	0.01858 mg/L	0.000530	0.03715 mg/L	0.001059	2.85%
Co 228.616†	11660.4	0.3468 mg/L	0.00435	0.6937 mg/L	0.00870	1.25%
Cr 267.716†	4125.5	0.5494 mg/L	0.00396	1.099 mg/L	0.0079	0.72%
Cu 324.752†	1857233.8	<del>8.048</del> mg/L	0.0327	16.10 mg/L	0.065	0.41%
Fe 273.955†	657805.8	531.7 mg/L	1.95	1063 mg/L	3.9	0.37%
K 766.490†	35897.6	19.41 mg/L	0.088	38.81 mg/L	0.176	0.45%
Mg 279.077†	89301.2	78.34 mg/L	0.059	156.7 mg/L	0.12	0.08%
Mn 257.610†	226113.1	4.731 mg/L	0.0132	9.462 mg/L	0.0264	0.28%
Mo 202.031†	3808.0	0.2354 mg/L	0.00193	0.4708 mg/L	0.00385	0.82%
Na 589.592†	760898.7	58.36 mg/L	0.163	116.7 mg/L	0.33	0.28%
Na 330.237†	1701.7	62.66 mg/L	0.539	125.3 mg/L	1.08	0.86%
Ni 231.604†	743.4	0.2090 mg/L	0.00206	0.4179 mg/L	0.00413	0.99%
Pb 220.353†	36915.6	4.479 mg/L	0.0554	8.958 mg/L	0.1107	1.24%
Sb 206.836†	1679.6	0.6786 mg/L	0.01335	1.357 mg/L	0.0267	1.97%
Se 196.026†	52.1	0.00722 mg/L	0.009357	0.01444 mg/L	0.018714	129.56%
Si 288.158†	3602.8	2.071 mg/L	0.0057	4.142 mg/L	0.0114	0.27%
Sn 189.927†	2056.8	0.4712 mg/L	0.00443	0.9424 mg/L	0.00887	0.94%
Sr 421.552†	687917.2	0.7503 mg/L	0.00178	1.501 mg/L	0.0036	0.24%
Ti 334.903†	193214.3	6.848 mg/L	0.0157	13.70 mg/L	0.031	0.23%
Tl 190.801†	-118.3	-0.00081 mg/L	0.003812	-0.00162 mg/L	0.007624	469.27%
V 292.402†	78599.1	0.4388 mg/L	0.00350	0.8776 mg/L	0.00699	0.80%
Zn 206.200†	77254.7	19.85 mg/L	0.022	39.71 mg/L	0.044	0.11%

SN54 : 00647

Sequence No.: 42  
 Sample ID: SN20 ADUP SWC

Autosampler Location: 332  
 Date Collected: 3/22/2011 2:11:57 PM  
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 ADUP SWC

Analyte Back Pressure Flow  
 All 209.0 kPa 0.75 L/min

Mean Data: SN20 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2478902.6	102.1 %		1.68			1.64%
ScR 361.383	437510.7	109.2 %		0.84			0.77%
Ag 328.068†	316.0	0.00145 mg/L		0.000169	0.00290 mg/L	0.000338	11.65%
Al 308.215†	201648.8	145.0 mg/L		1.65	290.0 mg/L	3.29	1.14%
As 188.979†	127.9	0.1436 mg/L		0.00290	0.2872 mg/L	0.00581	2.02%
B 249.677†	907.5	0.1561 mg/L		0.00223	0.3122 mg/L	0.00447	1.43%
Ba 233.527†	3623.2	0.5110 mg/L		0.00350	1.022 mg/L	0.0070	0.69%
Be 313.042†	2160.8	0.00215 mg/L		0.000049	0.00429 mg/L	0.000098	2.28%
Ca 317.933†	583871.4	51.44 mg/L		0.508	102.9 mg/L	1.02	0.99%
Cd 228.802†	133.5	0.00458 mg/L		0.000246	0.00916 mg/L	0.000492	5.38%
Co 228.616†	2482.4	0.06476 mg/L		0.001168	0.1295 mg/L	0.00234	1.80%
Cr 267.716†	1575.8	0.2085 mg/L		0.00138	0.4169 mg/L	0.00276	0.66%
Cu 324.752†	169415.7	0.7392 mg/L		0.01395	1.478 mg/L	0.0279	1.89%
Fe 273.955†	239570.1	193.6 mg/L		2.17	387.3 mg/L	4.35	1.12%
K 766.490†	35707.7	19.30 mg/L		0.163	38.61 mg/L	0.326	0.84%
Mg 279.077†	54551.7	47.92 mg/L		0.483	95.84 mg/L	0.965	1.01%
Mn 257.610†	81079.5	1.695 mg/L		0.0202	3.391 mg/L	0.0404	1.19%
Mo 202.031†	203.8	0.01183 mg/L		0.000269	0.02367 mg/L	0.000538	2.27%
Na 589.592†	853596.1	65.47 mg/L		0.760	130.9 mg/L	1.52	1.16%
Na 330.237†	1760.1	69.91 mg/L		0.697	139.8 mg/L	1.39	1.00%
Ni 231.604†	515.5	0.1446 mg/L		0.00018	0.2893 mg/L	0.00036	0.12%
Pb 220.353†	2580.2	0.3303 mg/L		0.00478	0.6607 mg/L	0.00956	1.45%
Sb 206.836†	23.4	0.01972 mg/L		0.002225	0.03944 mg/L	0.004449	11.28%
Se 196.026†	41.1	0.02210 mg/L		0.000545	0.04421 mg/L	0.001090	2.47%
Si 288.158†	9469.3	5.423 mg/L		0.0448	10.85 mg/L	0.090	0.83%
Sn 189.927†	101.6	0.03675 mg/L		0.001446	0.07350 mg/L	0.002893	3.94%
Sr 421.552†	515120.7	0.5618 mg/L		0.00648	1.124 mg/L	0.0130	1.15%
Ti 334.903†	198810.7	7.072 mg/L		0.0799	14.14 mg/L	0.160	1.13%
Tl 190.801†	-43.2	-0.00098 mg/L		0.004389	-0.00195 mg/L	0.008778	449.00%
V 292.402†	72390.0	0.4260 mg/L		0.00668	0.8520 mg/L	0.01335	1.57%
Zn 206.200†	4273.7	1.098 mg/L		0.0109	2.197 mg/L	0.0219	0.99%

SN54 : 00648

Sequence No.: 43  
Sample ID: SN20 A SWC

Autosampler Location: 333  
Date Collected: 3/22/2011 2:15:56 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 A SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN20 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2563654.6	105.6 %		0.69			0.65%
ScR 361.383	430868.0	107.6 %		0.41			0.38%
Ag 328.068†	292.8	0.00133 mg/L		0.000165	0.00265 mg/L	0.000329	12.40%
Al 308.215†	202493.2	145.6 mg/L		0.29	291.2 mg/L	0.59	0.20%
As 188.979†	101.4	0.1252 mg/L		0.00062	0.2503 mg/L	0.00124	0.49%
B 249.677†	888.4	0.1528 mg/L		0.00050	0.3056 mg/L	0.00100	0.33%
Ba 233.527†	3794.7	0.5358 mg/L		0.00353	1.072 mg/L	0.0071	0.66%
Be 313.042†	2139.0	0.00214 mg/L		0.000006	0.00427 mg/L	0.000012	0.28%
Ca 317.933†	576993.6	50.84 mg/L		0.094	101.7 mg/L	0.19	0.18%
Cd 228.802†	119.4	0.00414 mg/L		0.000192	0.00828 mg/L	0.000383	4.63%
Co 228.616†	2337.5	0.06024 mg/L		0.000401	0.1205 mg/L	0.00080	0.67%
Cr 267.716†	1581.5	0.2092 mg/L		0.00155	0.4185 mg/L	0.00311	0.74%
Cu 324.752†	160869.1	0.7023 mg/L		0.00400	1.405 mg/L	0.0080	0.57%
Fe 273.955†	240381.0	194.3 mg/L		0.54	388.6 mg/L	1.08	0.28%
K 766.490†	35614.4	19.25 mg/L		0.051	38.51 mg/L	0.102	0.27%
Mg 279.077†	54834.8	48.17 mg/L		0.036	96.33 mg/L	0.073	0.08%
Mn 257.610†	80904.3	1.692 mg/L		0.0029	3.384 mg/L	0.0059	0.17%
Mo 202.031†	172.8	0.00990 mg/L		0.000137	0.01980 mg/L	0.000274	1.38%
Na 589.592†	853709.7	65.48 mg/L		0.042	131.0 mg/L	0.08	0.06%
Na 330.237†	1752.7	69.65 mg/L		0.634	139.3 mg/L	1.27	0.91%
Ni 231.604†	508.7	0.1427 mg/L		0.00160	0.2855 mg/L	0.00319	1.12%
Pb 220.353†	2360.7	0.3038 mg/L		0.00178	0.6075 mg/L	0.00356	0.59%
Sb 206.836†	7.5	0.01332 mg/L		0.000901	0.02664 mg/L	0.001802	6.77%
Se 196.026†	34.4	0.01659 mg/L		0.002385	0.03317 mg/L	0.004770	14.38%
Si 288.158†	10087.2	5.776 mg/L		0.0325	11.55 mg/L	0.065	0.56%
Sn 189.927†	84.0	0.03302 mg/L		0.000509	0.06604 mg/L	0.001019	1.54%
Sr 421.552†	516094.6	0.5629 mg/L		0.00099	1.126 mg/L	0.0020	0.18%
Ti 334.903†	199791.0	7.107 mg/L		0.0072	14.21 mg/L	0.014	0.10%
Tl 190.801†	-48.7	-0.00418 mg/L		0.004545	-0.00836 mg/L	0.009090	108.73%
V 292.402†	68528.9	0.4022 mg/L		0.00146	0.8043 mg/L	0.00292	0.36%
Zn 206.200†	4111.3	1.057 mg/L		0.0052	2.113 mg/L	0.0105	0.50%

Sequence No.: 44

Autosampler Location: 334

Sample ID: SN20 ASPK SWC

Date Collected: 3/22/2011 2:19:54 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 ASPK SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN20 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2551922.8	105.1 %	0.38			0.36%
ScR 361.383	432031.3	107.9 %	0.27			0.25%
Ag 328.068†	93770.2	0.4910 mg/L	0.00336	0.9821 mg/L	0.00673	0.69%
Al 308.215†	215261.0	154.8 mg/L	0.20	309.5 mg/L	0.40	0.13%
As 188.979†	2912.2	2.118 mg/L	0.0008	4.236 mg/L	0.0017	0.04%
B 249.677†	970.4	0.1658 mg/L	0.00156	0.3316 mg/L	0.00312	0.94%
Ba 233.527†	17374.4	2.498 mg/L	0.0184	4.997 mg/L	0.0367	0.74%
Be 313.042†	441055.3	0.4864 mg/L	0.00224	0.9729 mg/L	0.00448	0.46%
Ca 317.933†	773834.9	68.18 mg/L	0.183	136.4 mg/L	0.37	0.27%
Cd 228.802†	14352.3	0.5118 mg/L	0.00105	1.024 mg/L	0.0021	0.20%
Co 228.616†	17968.7	0.5400 mg/L	0.00093	1.080 mg/L	0.0019	0.17%
Cr 267.716†	5408.5	0.7036 mg/L	0.00573	1.407 mg/L	0.0115	0.81%
Cu 324.752†	282460.2	1.228 mg/L	0.0017	2.456 mg/L	0.0033	0.13%
Fe 273.955†	251087.7	203.0 mg/L	0.48	405.9 mg/L	0.95	0.24%
K 766.490†	56042.9	30.30 mg/L	0.162	60.60 mg/L	0.324	0.54%
Mg 279.077†	68135.4	59.87 mg/L	0.115	119.7 mg/L	0.23	0.19%
Mn 257.610†	104962.4	2.195 mg/L	0.0063	4.390 mg/L	0.0125	0.29%
Mo 202.031†	186.6	0.01044 mg/L	0.000267	0.02089 mg/L	0.000533	2.55%
Na 589.592†	1015799.3	77.91 mg/L	0.122	155.8 mg/L	0.24	0.16%
Na 330.237†	2063.0	81.56 mg/L	0.592	163.1 mg/L	1.18	0.73%
Ni 231.604†	2226.3	0.6246 mg/L	0.00583	1.249 mg/L	0.0117	0.93%
Pb 220.353†	17888.8	2.194 mg/L	0.0015	4.389 mg/L	0.0031	0.07%
Sb 206.836†	12.7	0.01263 mg/L	0.001219	0.02527 mg/L	0.002438	9.65%
Se 196.026†	2485.5	2.041 mg/L	0.0084	4.081 mg/L	0.0169	0.41%
Si 288.158†	10468.5	5.997 mg/L	0.0274	11.99 mg/L	0.055	0.46%
Sn 189.927†	82.9	0.03750 mg/L	0.000951	0.07500 mg/L	0.001903	2.54%
Sr 421.552†	1033199.3	1.127 mg/L	0.0032	2.254 mg/L	0.0065	0.29%
Ti 334.903†	207999.7	7.396 mg/L	0.0179	14.79 mg/L	0.036	0.24%
Tl 190.801†	2969.9	1.825 mg/L	0.0011	3.649 mg/L	0.0023	0.06%
V 292.402†	145025.4	0.8740 mg/L	0.00137	1.748 mg/L	0.0027	0.16%
Zn 206.200†	6208.6	1.596 mg/L	0.0136	3.191 mg/L	0.0273	0.85%

Sequence No.: 45

Autosampler Location: 335

Sample ID: SN20 APOST SWC

Date Collected: 3/22/2011 2:22:53 PM

Dilution: 2X

Data Type: Original

*22222  
and 3.22*

Nebulizer Parameters: SN20 APOST SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN20 APOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2577994.2	106.2 %	0.27			0.25%
ScR 361.383	437263.2	109.2 %	0.25			0.23%
Ag 328.068†	91302.5	0.4781 mg/L	0.00326	0.9563 mg/L	0.00653	0.68%
Al 308.215†	206244.7	148.3 mg/L	0.43	296.6 mg/L	0.87	0.29%
As 188.979†	2921.0	2.123 mg/L	0.0099	4.246 mg/L	0.0198	0.47%
B 249.677†	883.2	0.1508 mg/L	0.00101	0.3015 mg/L	0.00201	0.67%
Ba 233.527†	17189.0	2.472 mg/L	0.0225	4.944 mg/L	0.0450	0.91%
Be 313.042†	437529.6	0.4825 mg/L	0.00050	0.9651 mg/L	0.00099	0.10%
Ca 317.933†	698507.2	61.54 mg/L	0.103	123.1 mg/L	0.21	0.17%
Cd 228.802†	14300.0	0.5099 mg/L	0.00318	1.020 mg/L	0.0064	0.62%
Co 228.616†	17902.2	0.5383 mg/L	0.00379	1.077 mg/L	0.0076	0.70%
Cr 267.716†	5348.0	0.6957 mg/L	0.00323	1.391 mg/L	0.0065	0.46%
Cu 324.752†	272877.7	1.186 mg/L	0.0034	2.373 mg/L	0.0068	0.29%
Fe 273.955†	242788.4	196.2 mg/L	0.24	392.5 mg/L	0.49	0.12%
K 766.490†	55155.7	29.82 mg/L	0.137	59.64 mg/L	0.275	0.46%
Mg 279.077†	66390.8	58.34 mg/L	0.058	116.7 mg/L	0.12	0.10%
Mn 257.610†	102981.3	2.154 mg/L	0.0028	4.307 mg/L	0.0056	0.13%
Mo 202.031†	183.1	0.01035 mg/L	0.000118	0.02070 mg/L	0.000237	1.14%
Na 589.592†	986645.2	75.67 mg/L	0.193	151.3 mg/L	0.39	0.26%
Na 330.237†	2005.7	79.28 mg/L	0.329	158.6 mg/L	0.66	0.42%
Ni 231.604†	2212.4	0.6207 mg/L	0.00693	1.241 mg/L	0.0139	1.12%
Pb 220.353†	17984.3	2.205 mg/L	0.0142	4.410 mg/L	0.0283	0.64%
Sb 206.836†	13.5	0.01257 mg/L	0.001099	0.02515 mg/L	0.002198	8.74%
Se 196.026†	2542.7	2.089 mg/L	0.0123	4.178 mg/L	0.0247	0.59%
Si 288.158†	10327.5	5.917 mg/L	0.0596	11.83 mg/L	0.119	1.01%
Sn 189.927†	73.6	0.03376 mg/L	0.000335	0.06751 mg/L	0.000671	0.99%
Sr 421.552†	979226.6	1.068 mg/L	0.0025	2.136 mg/L	0.0050	0.24%
Ti 334.903†	200592.5	7.134 mg/L	0.0064	14.27 mg/L	0.013	0.09%
Tl 190.801†	2978.1	1.829 mg/L	0.0132	3.657 mg/L	0.0263	0.72%
V 292.402†	144613.1	0.8721 mg/L	0.00343	1.744 mg/L	0.0069	0.39%
Zn 206.200†	5942.2	1.527 mg/L	0.0107	3.054 mg/L	0.0215	0.70%



Sequence No.: 46

Autosampler Location: 336

Sample ID: SN20 MB1SPK SWC

Date Collected: 3/22/2011 2:25:52 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 MB1SPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN20 MB1SPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2568898.0	105.8	%	0.91				0.86%
ScR 361.383	434973.8	108.6	%	0.68				0.63%
Ag 328.068†	100043.0	0.5241	mg/L	0.00289	1.048	mg/L	0.0058	0.55%
Al 308.215†	3019.4	2.161	mg/L	0.0080	4.322	mg/L	0.0161	0.37%
As 188.979†	2931.8	2.077	mg/L	0.0139	4.154	mg/L	0.0278	0.67%
B 249.677†	6.9	-0.00001	mg/L	0.001599	-0.00003	mg/L	0.003198	>999.9%
Ba 233.527†	14004.7	2.024	mg/L	0.0116	4.049	mg/L	0.0232	0.57%
Be 313.042†	448123.9	0.4944	mg/L	0.00143	0.9889	mg/L	0.00285	0.29%
Ca 317.933†	115734.4	10.20	mg/L	0.034	20.39	mg/L	0.067	0.33%
Cd 228.802†	14452.5	0.5153	mg/L	0.00639	1.031	mg/L	0.0128	1.24%
Co 228.616†	16403.6	0.5039	mg/L	0.00467	1.008	mg/L	0.0093	0.93%
Cr 267.716†	3963.1	0.5119	mg/L	0.00321	1.024	mg/L	0.0064	0.63%
Cu 324.752†	118719.1	0.5131	mg/L	0.00444	1.026	mg/L	0.0089	0.87%
Fe 273.955†	2699.4	2.179	mg/L	0.0117	4.359	mg/L	0.0235	0.54%
K 766.490†	19206.8	10.38	mg/L	0.032	20.77	mg/L	0.064	0.31%
Mg 279.077†	12051.0	10.61	mg/L	0.051	21.21	mg/L	0.101	0.48%
Mn 257.610†	23531.5	0.4924	mg/L	0.00234	0.9848	mg/L	0.00468	0.47%
Mo 202.031†	26.1	0.00145	mg/L	0.000208	0.00290	mg/L	0.000416	14.34%
Na 589.592†	130790.2	10.03	mg/L	0.046	20.06	mg/L	0.092	0.46%
Na 330.237†	274.9	10.46	mg/L	0.071	20.92	mg/L	0.142	0.68%
Ni 231.604†	1790.1	0.5022	mg/L	0.00218	1.004	mg/L	0.0044	0.43%
Pb 220.353†	16503.7	2.008	mg/L	0.0149	4.017	mg/L	0.0298	0.74%
Sb 206.836†	8.6	0.00012	mg/L	0.001270	0.00024	mg/L	0.002540	>999.9%
Se 196.026†	2578.2	2.130	mg/L	0.0240	4.260	mg/L	0.0481	1.13%
Si 288.158†	11.8	0.00998	mg/L	0.003873	0.01997	mg/L	0.007745	38.79%
Sn 189.927†	-30.7	-0.00353	mg/L	0.001003	-0.00706	mg/L	0.002006	28.43%
Sr 421.552†	466169.9	0.5084	mg/L	0.00107	1.017	mg/L	0.0021	0.21%
Ti 334.903†	266.2	0.00763	mg/L	0.000177	0.01526	mg/L	0.000353	2.31%
Tl 190.801†	3363.9	2.037	mg/L	0.0238	4.074	mg/L	0.0475	1.17%
V 292.402†	82966.2	0.5124	mg/L	0.00444	1.025	mg/L	0.0089	0.87%
Zn 206.200†	1974.6	0.5075	mg/L	0.00294	1.015	mg/L	0.0059	0.58%

SN54 : 00652

Sequence No.: 47

Autosampler Location: 7

Sample ID: CV *le*

Date Collected: 3/22/2011 2:29:48 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2564772.6	105.6 %	0.45			0.42%
ScR 361.383	430406.9	107.5 %	0.27			0.25%
Ag 328.068†	190956.8	1.000 mg/L	0.0063	1.000 mg/L	0.0063	0.63%
Al 308.215†	2840.8	2.009 mg/L	0.0254	2.009 mg/L	0.0254	1.26%
As 188.979†	2817.7	2.004 mg/L	0.0068	2.004 mg/L	0.0068	0.34%
B 249.677†	5838.6	1.004 mg/L	0.0074	1.004 mg/L	0.0074	0.74%
Ba 233.527†	6727.6	0.9721 mg/L	0.00304	0.9721 mg/L	0.00304	0.31%
Be 313.042†	881390.6	0.9725 mg/L	0.00321	0.9725 mg/L	0.00321	0.33%
Ca 317.933†	24222.6	2.134 mg/L	0.0170	2.134 mg/L	0.0170	0.80%
Cd 228.802†	28071.8	1.008 mg/L	0.0057	1.008 mg/L	0.0057	0.57%
Co 228.616†	31987.7	0.9821 mg/L	0.00533	0.9821 mg/L	0.00533	0.54%
Cr 267.716†	7777.0	1.006 mg/L	0.0107	1.006 mg/L	0.0107	1.06%
Cu 324.752†	233550.4	1.009 mg/L	0.0033	1.009 mg/L	0.0033	0.33%
Fe 273.955†	2479.7	1.999 mg/L	0.0046	1.999 mg/L	0.0046	0.23%
K 766.490†	38435.4	20.78 mg/L	0.113	20.78 mg/L	0.113	0.54%
Mg 279.077†	2268.2	2.000 mg/L	0.0087	2.000 mg/L	0.0087	0.44%
Mn 257.610†	46173.2	0.9657 mg/L	0.00646	0.9657 mg/L	0.00646	0.67%
Mo 202.031†	15746.9	0.9882 mg/L	0.00363	0.9882 mg/L	0.00363	0.37%
Na 589.592†	640230.5	49.10 mg/L	0.062	49.10 mg/L	0.062	0.13%
Na 330.237†	1313.1	50.65 mg/L	0.787	50.65 mg/L	0.787	1.55%
Ni 231.604†	3522.3	0.9894 mg/L	0.01324	0.9894 mg/L	0.01324	1.34%
Pb 220.353†	15987.9	1.946 mg/L	0.0099	1.946 mg/L	0.0099	0.51%
Sb 206.836†	5074.4	2.021 mg/L	0.0070	2.021 mg/L	0.0070	0.34%
Se 196.026†	2407.2	1.991 mg/L	0.0083	1.991 mg/L	0.0083	0.42%
Si 288.158†	3422.5	1.964 mg/L	0.0201	1.964 mg/L	0.0201	1.02%
Sn 189.927†	4772.4	0.9706 mg/L	0.00458	0.9706 mg/L	0.00458	0.47%
Sr 421.552†	918286.0	1.002 mg/L	0.0029	1.002 mg/L	0.0029	0.29%
Ti 334.903†	27184.0	0.9665 mg/L	0.00116	0.9665 mg/L	0.00116	0.12%
Tl 190.801†	3215.5	1.949 mg/L	0.0124	1.949 mg/L	0.0124	0.63%
V 292.402†	161974.6	1.001 mg/L	0.0065	1.001 mg/L	0.0065	0.65%
Zn 206.200†	3877.5	0.9962 mg/L	0.00727	0.9962 mg/L	0.00727	0.73%

Sequence No.: 48

Autosampler Location: 1

Sample ID: CB

Date Collected: 3/22/2011 2:33:01 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2596941.9	106.9	%	0.92			0.86%
ScR 361.383	436880.7	109.1	%	0.75			0.69%
Ag 328.068†	48.5	0.00025	mg/L	0.000099	0.00025	mg/L	0.000099 38.81%
Al 308.215†	-3.0	-0.00221	mg/L	0.002933	-0.00221	mg/L	0.002933 132.74%
As 188.979†	0.1	0.00010	mg/L	0.001114	0.00010	mg/L	0.001114 >999.9%
B 249.677†	6.6	0.00114	mg/L	0.001043	0.00114	mg/L	0.001043 91.80%
Ba 233.527†	-5.4	-0.00079	mg/L	0.000108	-0.00079	mg/L	0.000108 13.78%
Be 313.042†	15.0	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025 153.63%
Ca 317.933†	6.4	0.00056	mg/L	0.000570	0.00056	mg/L	0.000570 101.82%
Cd 228.802†	-3.2	-0.00012	mg/L	0.000143	-0.00012	mg/L	0.000143 123.09%
Co 228.616†	3.2	0.00010	mg/L	0.000178	0.00010	mg/L	0.000178 177.55%
Cr 267.716†	7.4	0.00096	mg/L	0.000914	0.00096	mg/L	0.000914 95.46%
Cu 324.752†	52.3	0.00023	mg/L	0.000066	0.00023	mg/L	0.000066 29.21%
Fe 273.955†	7.4	0.00596	mg/L	0.002737	0.00596	mg/L	0.002737 45.94%
K 766.490†	228.8	0.1237	mg/L	0.02261	0.1237	mg/L	0.02261 18.28%
Mg 279.077†	21.5	0.01896	mg/L	0.006159	0.01896	mg/L	0.006159 32.49%
Mn 257.610†	-0.4	-0.00001	mg/L	0.000030	-0.00001	mg/L	0.000030 400.82%
Mo 202.031†	22.8	0.00143	mg/L	0.000795	0.00143	mg/L	0.000795 55.57%
Na 589.592†	75.0	0.00575	mg/L	0.001191	0.00575	mg/L	0.001191 20.69%
Na 330.237†	-8.7	-0.3340	mg/L	0.20134	-0.3340	mg/L	0.20134 60.28%
Ni 231.604†	4.7	0.00133	mg/L	0.001262	0.00133	mg/L	0.001262 94.88%
Pb 220.353†	4.1	0.00049	mg/L	0.000772	0.00049	mg/L	0.000772 156.00%
Sb 206.836†	5.8	0.00230	mg/L	0.000737	0.00230	mg/L	0.000737 32.04%
Se 196.026†	8.7	0.00719	mg/L	0.000863	0.00719	mg/L	0.000863 12.01%
Si 288.158†	0.7	0.00043	mg/L	0.004207	0.00043	mg/L	0.004207 982.74%
Sn 189.927†	5.3	0.00108	mg/L	0.000419	0.00108	mg/L	0.000419 38.70%
Sr 421.552†	-19.1	-0.00002	mg/L	0.000003	-0.00002	mg/L	0.000003 16.67%
Ti 334.903†	-0.1	0.00000	mg/L	0.000087	0.00000	mg/L	0.000087 >999.9%
Tl 190.801†	1.8	0.00112	mg/L	0.001948	0.00112	mg/L	0.001948 173.53%
V 292.402†	24.2	0.00015	mg/L	0.000019	0.00015	mg/L	0.000019 12.46%
Zn 206.200†	0.8	0.00021	mg/L	0.000392	0.00021	mg/L	0.000392 182.59%

Sequence No.: 49  
Sample ID: SN04 B SWC

Autosampler Location: 337  
Date Collected: 3/22/2011 2:36:57 PM  
Data Type: Original

Dilution: 10X

Nebulizer Parameters: SN04 B SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2470570.5	101.7 %	0.27			0.27%
ScR 361.383	421798.2	105.3 %	2.69			2.55%
Ag 328.068†	914.1	0.00430 mg/L	0.000076	0.04299 mg/L	0.000758	1.76%
Al 308.215†	65568.8	47.14 mg/L	0.138	471.4 mg/L	1.38	0.29%
As 188.979†	1667.0	1.185 mg/L	0.0059	11.85 mg/L	0.059	0.50%
B 249.677†	223.2	0.03829 mg/L	0.000974	0.3829 mg/L	0.00974	2.54%
Ba 233.527†	3323.2	0.4698 mg/L	0.00550	4.698 mg/L	0.0550	1.17%
Be 313.042†	1197.0	0.00124 mg/L	0.000025	0.01239 mg/L	0.000252	2.04%
Ca 317.933†	1698882.7	149.7 mg/L	0.28	1497 mg/L	2.8	0.19%
Cd 228.802†	208.8	0.00331 mg/L	0.000018	0.03311 mg/L	0.000179	0.54%
Co 228.616†	2948.2	0.08717 mg/L	0.000479	0.8717 mg/L	0.00479	0.55%
Cr 267.716†	901.6	0.1199 mg/L	0.00185	1.199 mg/L	0.0185	1.54%
Cu 324.752†	714649.2	3.095 mg/L	0.0042	30.95 mg/L	0.042	0.14%
Fe 273.955†	200546.3	162.1 mg/L	0.15	1621 mg/L	1.5	0.09%
K 766.490†	11849.3	6.406 mg/L	0.0358	64.06 mg/L	0.358	0.56%
Mg 279.077†	29345.1	25.75 mg/L	0.112	257.5 mg/L	1.12	0.44%
Mn 257.610†	139107.2	2.909 mg/L	0.0062	29.09 mg/L	0.062	0.21%
Mo 202.031†	1302.3	0.07894 mg/L	0.000236	0.7894 mg/L	0.00236	0.30%
Na 589.592†	119316.1	9.151 mg/L	0.0188	91.51 mg/L	0.188	0.21%
Na 330.237†	267.3	10.12 mg/L	0.504	101.2 mg/L	5.04	4.98%
Ni 231.604†	212.3	0.05968 mg/L	0.000524	0.5968 mg/L	0.00524	0.88%
Pb 220.353†	7563.8	0.9164 mg/L	0.00476	9.164 mg/L	0.0476	0.52%
Sb 206.836†	430.0	0.1739 mg/L	0.00330	1.739 mg/L	0.0330	1.90%
Se 196.026†	67.5	0.03097 mg/L	0.004090	0.3097 mg/L	0.04090	13.21%
Si 288.158†	935.7	0.5385 mg/L	0.00643	5.385 mg/L	0.0643	1.19%
Sn 189.927†	269.0	0.09510 mg/L	0.000717	0.9510 mg/L	0.00717	0.75%
Sr 421.552†	277887.0	0.3031 mg/L	0.00062	3.031 mg/L	0.0062	0.20%
Ti 334.903†	59116.6	2.079 mg/L	0.0052	20.79 mg/L	0.052	0.25%
Tl 190.801†	-31.2	0.00278 mg/L	0.004146	0.02783 mg/L	0.041456	148.97%
V 292.402†	25012.3	0.1403 mg/L	0.00030	1.403 mg/L	0.0030	0.21%
Zn 206.200†	13197.2	3.391 mg/L	0.0347	33.91 mg/L	0.347	1.02%

Sequence No.: 50  
Sample ID: SN04 C SWC

Autosampler Location: 338  
Date Collected: 3/22/2011 2:40:42 PM  
Data Type: Original

Dilution: 5X

-----  
Nebulizer Parameters: SN04 C SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

-----  
Mean Data: SN04 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2508683.0	103.3	%	0.81				0.78%
ScR 361.383	420649.4	105.0	%	1.34				1.27%
Ag 328.068†	826.0	0.00379	mg/L	0.000109	0.01896	mg/L	0.000547	2.89%
Al 308.215†	106182.2	76.34	mg/L	0.224	381.7	mg/L	1.12	0.29%
As 188.979†	2223.8	1.588	mg/L	0.0044	7.941	mg/L	0.0219	0.28%
B 249.677†	222.9	0.03838	mg/L	0.001449	0.1919	mg/L	0.00725	3.78%
Ba 233.527†	6221.4	0.8857	mg/L	0.01089	4.428	mg/L	0.0545	1.23%
Be 313.042†	1575.3	0.00161	mg/L	0.000039	0.00806	mg/L	0.000196	2.44%
Ca 317.933†	1741545.6	153.4	mg/L	0.30	767.2	mg/L	1.52	0.20%
Cd 228.802†	313.5	0.00570	mg/L	0.000212	0.02848	mg/L	0.001060	3.72%
Co 228.616†	3751.3	0.1100	mg/L	0.00066	0.5501	mg/L	0.00332	0.60%
Cr 267.716†	1496.1	0.1981	mg/L	0.00231	0.9907	mg/L	0.01154	1.16%
Cu 324.752†	899490.8	3.895	mg/L	0.0020	19.48	mg/L	0.010	0.05%
Fe 273.955†	259948.8	210.1	mg/L	0.15	1051	mg/L	0.8	0.07%
K 766.490†	17947.4	9.703	mg/L	0.0424	48.51	mg/L	0.212	0.44%
Mg 279.077†	41749.4	36.64	mg/L	0.051	183.2	mg/L	0.26	0.14%
Mn 257.610†	148954.0	3.115	mg/L	0.0036	15.58	mg/L	0.018	0.11%
Mo 202.031†	5313.2	0.3306	mg/L	0.00232	1.653	mg/L	0.0116	0.70%
Na 589.592†	271567.6	20.83	mg/L	0.023	104.1	mg/L	0.11	0.11%
Na 330.237†	574.8	22.29	mg/L	0.220	111.5	mg/L	1.10	0.99%
Ni 231.604†	362.0	0.1017	mg/L	0.00179	0.5086	mg/L	0.00894	1.76%
Pb 220.353†	21065.8	2.561	mg/L	0.0162	12.81	mg/L	0.081	0.63%
Sb 206.836†	621.6	0.2524	mg/L	0.00106	1.262	mg/L	0.0053	0.42%
Se 196.026†	59.4	0.02273	mg/L	0.003972	0.1137	mg/L	0.01986	17.47%
Si 288.158†	1276.7	0.7354	mg/L	0.00916	3.677	mg/L	0.0458	1.25%
Sn 189.927†	760.4	0.1962	mg/L	0.00013	0.9812	mg/L	0.00065	0.07%
Sr 421.552†	354738.0	0.3869	mg/L	0.00039	1.934	mg/L	0.0020	0.10%
Ti 334.903†	90498.7	3.196	mg/L	0.0038	15.98	mg/L	0.019	0.12%
Tl 190.801†	-40.7	0.00425	mg/L	0.003630	0.02124	mg/L	0.018151	85.44%
V 292.402†	38436.4	0.2188	mg/L	0.00050	1.094	mg/L	0.0025	0.23%
Zn 206.200†	13887.7	3.569	mg/L	0.0472	17.84	mg/L	0.236	1.32%

Sequence No.: 51  
Sample ID: SN04 H SWC

Autosampler Location: 339  
Date Collected: 3/22/2011 2:44:26 PM  
Data Type: Original

Dilution: 5X

Nebulizer Parameters: SN04 H SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN04 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2477537.3	102.0 %		0.22			0.22%
ScR 361.383	426943.5	106.6 %		0.81			0.76%
Ag 328.068†	1162.9	0.00574 mg/L		0.000100	0.02869 mg/L	0.000500	1.74%
Al 308.215†	91161.7	65.53 mg/L		0.112	327.7 mg/L	0.56	0.17%
As 188.979†	4534.3	3.233 mg/L		0.0134	16.16 mg/L	0.067	0.42%
B 249.677†	291.7	0.05021 mg/L		0.000913	0.2511 mg/L	0.00457	1.82%
Ba 233.527†	3210.5	0.4511 mg/L		0.00487	2.255 mg/L	0.0244	1.08%
Be 313.042†	1333.9	0.00137 mg/L		0.000031	0.00686 mg/L	0.000154	2.25%
Ca 317.933†	633175.5	55.79 mg/L		0.190	278.9 mg/L	0.95	0.34%
Cd 228.802†	642.0	0.01179 mg/L		0.000105	0.05893 mg/L	0.000526	0.89%
Co 228.616†	6909.5	0.2075 mg/L		0.00067	1.038 mg/L	0.0034	0.33%
Cr 267.716†	4209.4	0.5505 mg/L		0.00582	2.753 mg/L	0.0291	1.06%
Cu 324.752†	984968.5	4.264 mg/L		0.0052	21.32 mg/L	0.026	0.12%
Fe 273.955†	247094.4	199.7 mg/L		0.23	998.6 mg/L	1.14	0.11%
K 766.490†	15602.7	8.435 mg/L		0.0160	42.18 mg/L	0.080	0.19%
Mg 279.077†	35954.1	31.55 mg/L		0.119	157.8 mg/L	0.60	0.38%
Mn 257.610†	89765.0	1.878 mg/L		0.0047	9.391 mg/L	0.0235	0.25%
Mo 202.031†	9507.6	0.5956 mg/L		0.00187	2.978 mg/L	0.0093	0.31%
Na 589.592†	284119.2	21.79 mg/L		0.013	109.0 mg/L	0.06	0.06%
Na 330.237†	618.4	23.04 mg/L		0.217	115.2 mg/L	1.09	0.94%
Ni 231.604†	1127.8	0.3167 mg/L		0.00442	1.583 mg/L	0.0221	1.40%
Pb 220.353†	22944.3	2.789 mg/L		0.0012	13.94 mg/L	0.006	0.04%
Sb 206.836†	1114.1	0.4444 mg/L		0.00057	2.222 mg/L	0.0029	0.13%
Se 196.026†	41.9	0.02346 mg/L		0.003237	0.1173 mg/L	0.01618	13.79%
Si 288.158†	983.8	0.5677 mg/L		0.00493	2.839 mg/L	0.0246	0.87%
Sn 189.927†	838.3	0.1863 mg/L		0.00140	0.9313 mg/L	0.00700	0.75%
Sr 421.552†	240159.1	0.2619 mg/L		0.00047	1.310 mg/L	0.0024	0.18%
Ti 334.903†	86504.8	3.071 mg/L		0.0063	15.35 mg/L	0.032	0.21%
Tl 190.801†	-40.5	0.00377 mg/L		0.002953	0.01883 mg/L	0.014763	78.39%
V 292.402†	30314.2	0.1715 mg/L		0.00106	0.8575 mg/L	0.00530	0.62%
Zn 206.200†	26999.7	6.938 mg/L		0.0673	34.69 mg/L	0.336	0.97%

Sequence No.: 52  
Sample ID: SN20 E SWC

Autosampler Location: 340  
Date Collected: 3/22/2011 2:48:24 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 E SWC

Analyte Back Pressure Flow  
All 210.0 kPa 0.75 L/min

*pen*

Mean Data: SN20 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2557724.9	105.3	%	0.87			0.82%
ScR 361.383	430578.2	107.5	%	1.18			1.10%
Ag 328.068†	419.9	0.00183	mg/L	0.000106	0.00366 mg/L	0.000212	5.79%
Al 308.215†	334390.9	240.4	mg/L	0.28	480.9 mg/L	0.55	0.12%
As 188.979†	718.2	0.5837	mg/L	0.00627	1.167 mg/L	0.0125	1.07%
B 249.677†	710.3	0.1221	mg/L	0.00343	0.2442 mg/L	0.00685	2.81%
Ba 233.527†	10041.7	1.434	mg/L	0.0082	2.869 mg/L	0.0165	0.58%
Be 313.042†	3270.3	0.00335	mg/L	0.000033	0.00669 mg/L	0.000065	0.97%
Ca 317.933†	601421.5	52.99	mg/L	0.064	106.0 mg/L	0.13	0.12%
Cd 228.802†	180.5	0.00475	mg/L	0.000061	0.00950 mg/L	0.000121	1.28%
Co 228.616†	3687.1	0.09726	mg/L	0.001425	0.1945 mg/L	0.00285	1.47%
Cr 267.716†	2024.7	0.2689	mg/L	0.00068	0.5378 mg/L	0.00135	0.25%
Cu 324.752†	286139.9	1.246	mg/L	0.0027	2.492 mg/L	0.0054	0.22%
Fe 273.955†	327327.4	264.6	mg/L	0.50	529.2 mg/L	1.01	0.19%
K 766.490†	57080.5	30.86	mg/L	0.095	61.72 mg/L	0.190	0.31%
Mg 279.077†	67738.4	59.49	mg/L	0.044	119.0 mg/L	0.09	0.07%
Mn 257.610†	127114.4	2.658	mg/L	0.0050	5.316 mg/L	0.0101	0.19%
Mo 202.031†	978.0	0.06039	mg/L	0.000354	0.1208 mg/L	0.00071	0.59%
Na 589.592†	902361.1	69.21	mg/L	0.201	138.4 mg/L	0.40	0.29%
Na 330.237†	1840.0	73.70	mg/L	0.476	147.4 mg/L	0.95	0.65%
Ni 231.604†	433.5	0.1217	mg/L	0.00217	0.2433 mg/L	0.00433	1.78%
Pb 220.353†	8193.8	1.027	mg/L	0.0135	2.054 mg/L	0.0271	1.32%
Sb 206.836†	129.9	0.06590	mg/L	0.001968	0.1318 mg/L	0.00394	2.99%
Se 196.026†	36.8	0.01728	mg/L	0.010574	0.03455 mg/L	0.021148	61.21%
Si 288.158†	8440.4	4.835	mg/L	0.0254	9.671 mg/L	0.0508	0.53%
Sn 189.927†	210.1	0.06014	mg/L	0.001159	0.1203 mg/L	0.00232	1.93%
Sr 421.552†	695200.2	0.7582	mg/L	0.00095	1.516 mg/L	0.0019	0.13%
Ti 334.903†	274259.5	9.759	mg/L	0.0133	19.52 mg/L	0.027	0.14%
Tl 190.801†	-66.0	-0.00518	mg/L	0.003221	-0.01036 mg/L	0.006441	62.19%
V 292.402†	79924.7	0.4653	mg/L	0.00265	0.9306 mg/L	0.00530	0.57%
Zn 206.200†	7076.7	1.819	mg/L	0.0089	3.637 mg/L	0.0178	0.49%

Sequence No.: 53  
Sample ID: SN20 F SWC

Autosampler Location: 341  
Date Collected: 3/22/2011 2:52:08 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 F SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN20 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2490289.1	102.6 %		0.23			0.23%
ScR 361.383	422496.5	105.5 %		1.04			0.98%
Ag 328.068†	499.1	0.00235 mg/L		0.000139	0.00470 mg/L	0.000278	5.91%
Al 308.215†	185872.5	133.6 mg/L		0.47	267.3 mg/L	0.94	0.35%
As 188.979†	318.7	0.2711 mg/L		0.00113	0.5422 mg/L	0.00227	0.42%
B 249.677†	986.1	0.1696 mg/L		0.00265	0.3393 mg/L	0.00531	1.56%
Ba 233.527†	4397.7	0.6220 mg/L		0.00694	1.244 mg/L	0.0139	1.12%
Be 313.042†	2060.8	0.00206 mg/L		0.000041	0.00412 mg/L	0.000083	2.01%
Ca 317.933†	1019502.8	89.82 mg/L		0.217	179.6 mg/L	0.43	0.24%
Cd 228.802†	151.4	0.00474 mg/L		0.000252	0.00947 mg/L	0.000505	5.33%
Co 228.616†	2536.5	0.06724 mg/L		0.000417	0.1345 mg/L	0.00083	0.62%
Cr 267.716†	1890.5	0.2493 mg/L		0.00256	0.4985 mg/L	0.00512	1.03%
Cu 324.752†	372542.4	1.618 mg/L		0.0020	3.235 mg/L	0.0040	0.12%
Fe 273.955†	259057.8	209.4 mg/L		0.76	418.8 mg/L	1.53	0.36%
K 766.490†	33568.5	18.15 mg/L		0.023	36.30 mg/L	0.045	0.12%
Mg 279.077†	55818.3	49.03 mg/L		0.121	98.05 mg/L	0.243	0.25%
Mn 257.610†	95108.9	1.989 mg/L		0.0068	3.978 mg/L	0.0136	0.34%
Mo 202.031†	341.2	0.01974 mg/L		0.000376	0.03948 mg/L	0.000753	1.91%
Na 589.592†	890145.4	68.27 mg/L		0.350	136.5 mg/L	0.70	0.51%
Na 330.237†	1833.5	72.41 mg/L		0.429	144.8 mg/L	0.86	0.59%
Ni 231.604†	514.3	0.1443 mg/L		0.00223	0.2886 mg/L	0.00447	1.55%
Pb 220.353†	3770.0	0.4710 mg/L		0.00261	0.9420 mg/L	0.00521	0.55%
Sb 206.836†	69.5	0.03678 mg/L		0.001426	0.07356 mg/L	0.002853	3.88%
Se 196.026†	54.3	0.02710 mg/L		0.001305	0.05419 mg/L	0.002611	4.82%
Si 288.158†	9820.7	5.624 mg/L		0.0567	11.25 mg/L	0.113	1.01%
Sn 189.927†	126.7	0.05184 mg/L		0.000225	0.1037 mg/L	0.00045	0.43%
Sr 421.552†	616858.7	0.6728 mg/L		0.00210	1.346 mg/L	0.0042	0.31%
Ti 334.903†	184235.3	6.546 mg/L		0.0231	13.09 mg/L	0.046	0.35%
Tl 190.801†	-41.4	0.00232 mg/L		0.002352	0.00464 mg/L	0.004703	101.32%
V 292.402†	65780.3	0.3846 mg/L		0.00077	0.7692 mg/L	0.00154	0.20%
Zn 206.200†	6461.5	1.660 mg/L		0.0166	3.321 mg/L	0.0332	1.00%



Sequence No.: 54  
Sample ID: SN20 G SWC

Autosampler Location: 342  
Date Collected: 3/22/2011 2:55:52 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN20 G SWC

Analyte Back Pressure Flow  
All 210.0 kPa 0.75 L/min

Mean Data: SN20 G SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2495174.5	102.8	%	0.80			0.78%
ScR 361.383	420379.7	105.0	%	0.54			0.52%
Ag 328.068†	2605.1	0.01258	mg/L	0.000064	0.02516 mg/L	0.000128	0.51%
Al 308.215†	202857.1	145.8	mg/L	0.07	291.7 mg/L	0.15	0.05%
As 188.979†	12751.8	9.073	mg/L	0.1565	18.15 mg/L	0.313	1.72%
B 249.677†	1106.0	0.1900	mg/L	0.00217	0.3799 mg/L	0.00434	1.14%
Ba 233.527†	19275.6	2.748	mg/L	0.0136	5.496 mg/L	0.0272	0.49%
Be 313.042†	3952.7	0.00410	mg/L	0.000030	0.00819 mg/L	0.000059	0.73%
Ca 317.933†	2704588.9	238.3	mg/L	0.39	476.6 mg/L	0.79	0.16%
Cd 228.802†	1554.6	0.02391	mg/L	0.000192	0.04781 mg/L	0.000384	0.80%
Co 228.616†	16221.4	0.4868	mg/L	0.00565	0.9737 mg/L	0.01131	1.16%
Cr 267.716†	13157.6	1.719	mg/L	0.0066	3.438 mg/L	0.0132	0.39%
Cu 324.752†	2307470.8	9.996	mg/L	0.0064	19.99 mg/L	0.013	0.06%
Fe 273.955†	736131.6	595.0	mg/L	1.16	1190 mg/L	2.3	0.20%
K 766.490†	38673.1	20.91	mg/L	0.039	41.82 mg/L	0.078	0.19%
Mg 279.077†	111165.4	97.56	mg/L	0.168	195.1 mg/L	0.34	0.17%
Mn 257.610†	292491.4	6.119	mg/L	0.0195	12.24 mg/L	0.039	0.32%
Mo 202.031†	13894.8	0.8675	mg/L	0.01189	1.735 mg/L	0.0238	1.37%
Na 589.592†	670753.3	51.45	mg/L	0.075	102.9 mg/L	0.15	0.15%
Na 330.237†	1516.7	55.39	mg/L	0.402	110.8 mg/L	0.80	0.73%
Ni 231.604†	2162.1	0.6075	mg/L	0.00521	1.215 mg/L	0.0104	0.86%
Pb 220.353†	51527.4	6.254	mg/L	0.0961	12.51 mg/L	0.192	1.54%
Sb 206.836†	3824.2	1.520	mg/L	0.0242	3.041 mg/L	0.0484	1.59%
Se 196.026†	61.4	0.00632	mg/L	0.003420	0.01264 mg/L	0.006839	54.10%
Si 288.158†	4620.5	2.657	mg/L	0.0148	5.313 mg/L	0.0295	0.56%
Sn 189.927†	2517.6	0.5775	mg/L	0.00804	1.155 mg/L	0.0161	1.39%
Sr 421.552†	700094.6	0.7635	mg/L	0.00080	1.527 mg/L	0.0016	0.11%
Ti 334.903†	200020.1	7.082	mg/L	0.0153	14.16 mg/L	0.031	0.22%
Tl 190.801†	-126.2	0.00461	mg/L	0.008216	0.00923 mg/L	0.016433	178.04%
V 292.402†	81224.2	0.4560	mg/L	0.00141	0.9119 mg/L	0.00282	0.31%
Zn 206.200†	80494.9	20.69	mg/L	0.014	41.37 mg/L	0.028	0.07%

Sequence No.: 55  
Sample ID: SN20 H SWC

Autosampler Location: 343  
Date Collected: 3/22/2011 2:58:10 PM  
Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN20 H SWC

Analyte Back Pressure Flow  
All 210.0 kPa 0.75 L/min

## Mean Data: SN20 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2527123.3	104.1	%	0.32			0.30%
ScR 361.383	429219.1	107.2	%	1.15			1.07%
Ag 328.068†	-95.3	-0.00055	mg/L	0.000022	-0.00110	mg/L	0.000044 4.03%
Al 308.215†	94577.7	67.99	mg/L	0.105	136.0	mg/L	0.21 0.15%
As 188.979†	102.3	0.1140	mg/L	0.00298	0.2281	mg/L	0.00596 2.61%
B 249.677†	154.9	0.02659	mg/L	0.001130	0.05318	mg/L	0.002259 4.25%
Ba 233.527†	1001.8	0.1387	mg/L	0.00056	0.2773	mg/L	0.00112 0.40%
Be 313.042†	898.6	0.00081	mg/L	0.000015	0.00163	mg/L	0.000030 1.87%
Ca 317.933†	406589.7	35.82	mg/L	0.074	71.65	mg/L	0.148 0.21%
Cd 228.802†	36.5	0.00109	mg/L	0.000034	0.00217	mg/L	0.000069 3.18%
Co 228.616†	1356.3	0.03279	mg/L	0.000310	0.06557	mg/L	0.000621 0.95%
Cr 267.716†	678.0	0.09000	mg/L	0.001117	0.1800	mg/L	0.00223 1.24%
Cu 324.752†	24632.6	0.1093	mg/L	0.000075	0.2186	mg/L	0.00150 0.68%
Fe 273.955†	114432.1	92.49	mg/L	0.252	185.0	mg/L	0.50 0.27%
K 766.490†	13399.0	7.244	mg/L	0.0180	14.49	mg/L	0.036 0.25%
Mg 279.077†	21235.9	18.65	mg/L	0.032	37.29	mg/L	0.064 0.17%
Mn 257.610†	32641.1	0.6826	mg/L	0.00209	1.365	mg/L	0.0042 0.31%
Mo 202.031†	318.9	0.01935	mg/L	0.000690	0.03869	mg/L	0.001381 3.57%
Na 589.592†	431199.9	33.07	mg/L	0.069	66.14	mg/L	0.138 0.21%
Na 330.237†	852.7	34.66	mg/L	0.417	69.32	mg/L	0.834 1.20%
Ni 231.604†	199.3	0.05591	mg/L	0.001385	0.1118	mg/L	0.00277 2.48%
Pb 220.353†	10.5	0.00916	mg/L	0.000859	0.01833	mg/L	0.001717 9.37%
Sb 206.836†	10.4	0.01247	mg/L	0.000660	0.02494	mg/L	0.001320 5.29%
Se 196.026†	31.7	0.01923	mg/L	0.006719	0.03846	mg/L	0.013439 34.94%
Si 288.158†	4335.7	2.482	mg/L	0.0334	4.965	mg/L	0.0668 1.35%
Sn 189.927†	-82.7	-0.00534	mg/L	0.000525	-0.01069	mg/L	0.001049 9.82%
Sr 421.552†	327424.3	0.3571	mg/L	0.00063	0.7142	mg/L	0.00127 0.18%
Ti 334.903†	154445.5	5.495	mg/L	0.0147	10.99	mg/L	0.029 0.27%
Tl 190.801†	-14.9	0.00287	mg/L	0.001500	0.00574	mg/L	0.003000 52.27%
V 292.402†	53678.9	0.3195	mg/L	0.00134	0.6391	mg/L	0.00268 0.42%
Zn 206.200†	659.8	0.1696	mg/L	0.00192	0.3391	mg/L	0.00383 1.13%

Sequence No.: 56

Autosampler Location: 344

Sample ID: SN54 A SWC

Date Collected: 3/22/2011 3:02:06 PM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: SN54 A SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN54 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2569494.9	105.8	%	0.74			0.70%
ScR 361.383	430924.1	107.6	%	0.39			0.36%
Ag 328.068†	61.9	0.00024	mg/L	0.000222	0.00048	mg/L	91.72%
Al 308.215†	56550.3	40.66	mg/L	0.146	81.32	mg/L	0.36%
As 188.979†	102.1	0.08753	mg/L	0.001758	0.1751	mg/L	2.01%
B 249.677†	43.8	0.00749	mg/L	0.000348	0.01497	mg/L	4.64%
Ba 233.527†	1519.4	0.2170	mg/L	0.00159	0.4339	mg/L	0.73%
Be 313.042†	602.5	0.00060	mg/L	0.000011	0.00121	mg/L	1.81%
Ca 317.933†	106180.8	9.355	mg/L	0.0379	18.71	mg/L	0.41%
Cd 228.802†	67.9	0.00226	mg/L	0.000044	0.00452	mg/L	1.94%
Co 228.616†	784.5	0.02088	mg/L	0.000204	0.04176	mg/L	0.98%
Cr 267.716†	619.2	0.08107	mg/L	0.000446	0.1621	mg/L	0.55%
Cu 324.752†	116384.8	0.5042	mg/L	0.00054	1.008	mg/L	0.11%
Fe 273.955†	50473.6	40.80	mg/L	0.148	81.59	mg/L	0.36%
K 766.490†	3472.3	1.877	mg/L	0.0137	3.754	mg/L	0.73%
Mg 279.077†	12053.4	10.59	mg/L	0.057	21.18	mg/L	0.54%
Mn 257.610†	29117.8	0.6088	mg/L	0.00402	1.218	mg/L	0.66%
Mo 202.031†	57.2	0.00342	mg/L	0.000442	0.00683	mg/L	12.93%
Na 589.592†	8732.1	0.6697	mg/L	0.00673	1.339	mg/L	1.01%
Na 330.237†	0.3	0.5684	mg/L	0.24753	1.137	mg/L	43.54%
Ni 231.604†	379.1	0.1064	mg/L	0.00171	0.2127	mg/L	1.61%
Pb 220.353†	4306.8	0.5290	mg/L	0.00207	1.058	mg/L	0.39%
Sb 206.836†	5.4	0.00472	mg/L	0.001840	0.00944	mg/L	38.98%
Se 196.026†	15.7	0.01067	mg/L	0.006707	0.02134	mg/L	62.84%
Si 288.158†	3508.9	2.008	mg/L	0.0124	4.017	mg/L	0.62%
Sn 189.927†	-13.2	0.00049	mg/L	0.000967	0.00098	mg/L	197.60%
Sr 421.552†	72648.8	0.07923	mg/L	0.000262	0.1585	mg/L	0.33%
Ti 334.903†	55226.3	1.965	mg/L	0.0055	3.931	mg/L	0.28%
Tl 190.801†	-12.0	-0.00200	mg/L	0.001446	-0.00399	mg/L	72.45%
V 292.402†	18663.9	0.1106	mg/L	0.00051	0.2213	mg/L	0.46%
Zn 206.200†	1609.6	0.4137	mg/L	0.00292	0.8273	mg/L	0.70%

SN54 : 00662

Sequence No.: 57

Autosampler Location: 345

Sample ID: SN54 B SWC

Date Collected: 3/22/2011 3:06:02 PM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: SN54 B SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN54 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2507071.8	103.2	%	0.59				0.57%
ScR 361.383	428481.2	107.0	%	1.17				1.10%
Ag 328.068†	89.7	0.00042	mg/L	0.000034	0.00084	mg/L	0.000069	8.20%
Al 308.215†	4746.3	3.410	mg/L	0.0130	6.820	mg/L	0.0261	0.38%
As 188.979†	67.0	0.04769	mg/L	0.003078	0.09537	mg/L	0.006156	6.45%
B 249.677†	58.1	0.00999	mg/L	0.000582	0.01999	mg/L	0.001163	5.82%
Ba 233.527†	155.8	0.02171	mg/L	0.001247	0.04341	mg/L	0.002493	5.74%
Be 313.042†	131.1	0.00009	mg/L	0.000027	0.00018	mg/L	0.000053	28.91%
Ca 317.933†	117357.6	10.34	mg/L	0.027	20.68	mg/L	0.055	0.26%
Cd 228.802†	12.0	0.00029	mg/L	0.000105	0.00059	mg/L	0.000210	35.53%
Co 228.616†	207.9	0.00615	mg/L	0.000109	0.01230	mg/L	0.000219	1.78%
Cr 267.716†	227.7	0.02962	mg/L	0.000530	0.05925	mg/L	0.001059	1.79%
Cu 324.752†	5541.9	0.02448	mg/L	0.000468	0.04896	mg/L	0.000936	1.91%
Fe 273.955†	14665.6	11.85	mg/L	0.061	23.71	mg/L	0.122	0.52%
K 766.490†	609.1	0.3293	mg/L	0.00219	0.6586	mg/L	0.00438	0.67%
Mg 279.077†	3236.0	2.842	mg/L	0.0409	5.685	mg/L	0.0817	1.44%
Mn 257.610†	19211.4	0.4016	mg/L	0.00199	0.8033	mg/L	0.00397	0.49%
Mo 202.031†	206.5	0.01277	mg/L	0.000032	0.02553	mg/L	0.000063	0.25%
Na 589.592†	2405.0	0.1845	mg/L	0.00257	0.3689	mg/L	0.00514	1.39%
Na 330.237†	-7.5	-0.2503	mg/L	0.00827	-0.5005	mg/L	0.01653	3.30%
Ni 231.604†	182.0	0.05106	mg/L	0.000378	0.1021	mg/L	0.00076	0.74%
Pb 220.353†	-1.7	-0.00021	mg/L	0.000202	-0.00042	mg/L	0.000405	97.19%
Sb 206.836†	2.5	0.00122	mg/L	0.002233	0.00243	mg/L	0.004466	183.73%
Se 196.026†	19.3	0.01419	mg/L	0.002347	0.02838	mg/L	0.004693	16.54%
Si 288.158†	7749.0	4.433	mg/L	0.0597	8.866	mg/L	0.1194	1.35%
Sn 189.927†	-24.4	-0.00216	mg/L	0.000337	-0.00431	mg/L	0.000673	15.61%
Sr 421.552†	47122.8	0.05139	mg/L	0.000193	0.1028	mg/L	0.00039	0.38%
Ti 334.903†	4077.2	0.1434	mg/L	0.00081	0.2868	mg/L	0.00162	0.56%
Tl 190.801†	-0.7	0.00107	mg/L	0.001840	0.00214	mg/L	0.003679	172.02%
V 292.402†	16002.0	0.09753	mg/L	0.000754	0.1951	mg/L	0.00151	0.77%
Zn 206.200†	131.3	0.03374	mg/L	0.000686	0.06748	mg/L	0.001373	2.03%

SN54 : 00663

Sequence No.: 58

Autosampler Location: 346

Sample ID: SN54 MBSFK SWC

Date Collected: 3/22/2011 3:09:58 PM

Dilution: 2X

Data Type: Original

*MW 3.23*

*MBSFK*

Nebulizer Parameters: SN54 MBSFK SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN54 MBSFK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2518167.8	103.7 %		0.77			0.74%
ScR 361.383	421485.8	105.2 %		1.19			1.13%
Ag 328.068†	98904.0	0.5182 mg/L		0.00105	1.036 mg/L	0.0021	0.20%
Al 308.215†	2857.6	2.045 mg/L		0.0216	4.090 mg/L	0.0433	1.06%
As 188.979†	2882.8	2.042 mg/L		0.0043	4.085 mg/L	0.0087	0.21%
B 249.677†	4.7	-0.00038 mg/L		0.000225	-0.00076 mg/L	0.000450	59.03%
Ba 233.527†	13831.2	1.999 mg/L		0.0230	3.999 mg/L	0.0461	1.15%
Be 313.042†	439407.0	0.4848 mg/L		0.00098	0.9696 mg/L	0.00196	0.20%
Ca 317.933†	113583.9	10.01 mg/L		0.027	20.01 mg/L	0.055	0.27%
Cd 228.802†	14286.0	0.5094 mg/L		0.00096	1.019 mg/L	0.0019	0.19%
Co 228.616†	16348.7	0.5022 mg/L		0.00134	1.004 mg/L	0.0027	0.27%
Cr 267.716†	3918.2	0.5061 mg/L		0.00613	1.012 mg/L	0.0123	1.21%
Cu 324.752†	117614.5	0.5083 mg/L		0.00255	1.017 mg/L	0.0051	0.50%
Fe 273.955†	2547.7	2.057 mg/L		0.0259	4.113 mg/L	0.0518	1.26%
K 766.490†	19002.2	10.27 mg/L		0.025	20.55 mg/L	0.049	0.24%
Mg 279.077†	11848.1	10.43 mg/L		0.112	20.85 mg/L	0.224	1.08%
Mn 257.610†	23194.4	0.4853 mg/L		0.00589	0.9707 mg/L	0.01178	1.21%
Mo 202.031†	28.3	0.00159 mg/L		0.000258	0.00318 mg/L	0.000516	16.20%
Na 589.592†	127282.5	9.762 mg/L		0.0402	19.52 mg/L	0.080	0.41%
Na 330.237†	260.6	9.908 mg/L		0.2799	19.82 mg/L	0.560	2.83%
Ni 231.604†	1770.7	0.4968 mg/L		0.00425	0.9936 mg/L	0.00850	0.86%
Pb 220.353†	16440.3	2.001 mg/L		0.0039	4.001 mg/L	0.0079	0.20%
Sb 206.836†	7.5	-0.00029 mg/L		0.002174	-0.00058 mg/L	0.004349	745.39%
Se 196.026†	2518.4	2.081 mg/L		0.0042	4.162 mg/L	0.0084	0.20%
Si 288.158†	0.7	0.00354 mg/L		0.001696	0.00708 mg/L	0.003392	47.92%
Sn 189.927†	-29.9	-0.00340 mg/L		0.000709	-0.00681 mg/L	0.001417	20.82%
Sr 421.552†	458105.5	0.4996 mg/L		0.00044	0.9993 mg/L	0.00088	0.09%
Ti 334.903†	91.2	0.00143 mg/L		0.000510	0.00287 mg/L	0.001019	35.57%
Tl 190.801†	3306.0	2.002 mg/L		0.0051	4.004 mg/L	0.0101	0.25%
V 292.402†	82499.0	0.5095 mg/L		0.00209	1.019 mg/L	0.0042	0.41%
Zn 206.200†	1944.3	0.4997 mg/L		0.00779	0.9995 mg/L	0.01559	1.56%

Sequence No.: 59

Sample ID: CV 7

Autosampler Location: 7

Date Collected: 3/22/2011 3:13:54 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	208.0 kPa	0.75 L/min

## Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2540996.5	104.6	%	0.82			0.78%
ScR 361.383	422288.5	105.4	%	1.23			1.16%
Ag 328.068†	190291.4	0.9968	mg/L	0.01321	0.9968 mg/L	0.01321	1.33%
Al 308.215†	2867.7	2.028	mg/L	0.0231	2.028 mg/L	0.0231	1.14%
As 188.979†	2827.4	2.010	mg/L	0.0238	2.010 mg/L	0.0238	1.19%
B 249.677†	5856.8	1.007	mg/L	0.0197	1.007 mg/L	0.0197	1.96%
Ba 233.527†	6804.5	0.9832	mg/L	0.02040	0.9832 mg/L	0.02040	2.07%
Be 313.042†	882677.4	0.9739	mg/L	0.00300	0.9739 mg/L	0.00300	0.31%
Ca 317.933†	24497.2	2.158	mg/L	0.0461	2.158 mg/L	0.0461	2.14%
Cd 228.802†	27953.8	1.004	mg/L	0.0082	1.004 mg/L	0.0082	0.82%
Co 228.616†	31866.5	0.9783	mg/L	0.00732	0.9783 mg/L	0.00732	0.75%
Cr 267.716†	7831.5	1.013	mg/L	0.0240	1.013 mg/L	0.0240	2.37%
Cu 324.752†	232088.3	1.003	mg/L	0.0079	1.003 mg/L	0.0079	0.79%
Fe 273.955†	2504.2	2.019	mg/L	0.0467	2.019 mg/L	0.0467	2.31%
K 766.490†	38453.4	20.79	mg/L	0.014	20.79 mg/L	0.014	0.07%
Mg 279.077†	2286.4	2.016	mg/L	0.0326	2.016 mg/L	0.0326	1.62%
Mn 257.610†	46541.7	0.9734	mg/L	0.02050	0.9734 mg/L	0.02050	2.11%
Mo 202.031†	15741.0	0.9878	mg/L	0.01080	0.9878 mg/L	0.01080	1.09%
Na 589.592†	637921.8	48.93	mg/L	0.316	48.93 mg/L	0.316	0.65%
Na 330.237†	1314.0	50.68	mg/L	1.337	50.68 mg/L	1.337	2.64%
Ni 231.604†	3578.1	1.005	mg/L	0.0190	1.005 mg/L	0.0190	1.89%
Pb 220.353†	15908.4	1.937	mg/L	0.0235	1.937 mg/L	0.0235	1.22%
Sb 206.836†	5061.4	2.016	mg/L	0.0200	2.016 mg/L	0.0200	0.99%
Se 196.026†	2394.8	1.981	mg/L	0.0240	1.981 mg/L	0.0240	1.21%
Si 288.158†	3455.5	1.982	mg/L	0.0295	1.982 mg/L	0.0295	1.49%
Sn 189.927†	4784.7	0.9731	mg/L	0.01039	0.9731 mg/L	0.01039	1.07%
Sr 421.552†	914923.3	0.9978	mg/L	0.00200	0.9978 mg/L	0.00200	0.20%
Ti 334.903†	27139.4	0.9649	mg/L	0.00313	0.9649 mg/L	0.00313	0.32%
Tl 190.801†	3210.9	1.946	mg/L	0.0249	1.946 mg/L	0.0249	1.28%
V 292.402†	161239.2	0.9963	mg/L	0.00825	0.9963 mg/L	0.00825	0.83%
Zn 206.200†	3913.4	1.005	mg/L	0.0212	1.005 mg/L	0.0212	2.11%

Sequence No.: 60

Sample ID: CB 7

Autosampler Location: 1

Date Collected: 3/22/2011 3:17:03 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	210.0 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	2517245.3	103.7	%	0.60			0.58%
ScR 361.383	422921.5	105.6	%	0.64			0.61%
Ag 328.068†	-12.2	-0.00006	mg/L	0.000076	-0.00006 mg/L	0.000076	119.14%
Al 308.215†	-16.9	-0.01219	mg/L	0.013340	-0.01219 mg/L	0.013340	109.46%
As 188.979†	-1.0	-0.00074	mg/L	0.001630	-0.00074 mg/L	0.001630	220.05%
B 249.677†	2.1	0.00037	mg/L	0.001053	0.00037 mg/L	0.001053	286.90%
Ba 233.527†	-4.0	-0.00058	mg/L	0.000657	-0.00058 mg/L	0.000657	114.19%
Be 313.042†	19.3	0.00002	mg/L	0.000016	0.00002 mg/L	0.000016	74.66%
Ca 317.933†	-9.1	-0.00081	mg/L	0.000698	-0.00081 mg/L	0.000698	86.63%
Cd 228.802†	2.5	0.00009	mg/L	0.000138	0.00009 mg/L	0.000138	145.60%
Co 228.616†	-1.9	-0.00006	mg/L	0.000088	-0.00006 mg/L	0.000088	151.11%
Cr 267.716†	4.7	0.00061	mg/L	0.000775	0.00061 mg/L	0.000775	127.15%
Cu 324.752†	96.8	0.00042	mg/L	0.000107	0.00042 mg/L	0.000107	25.51%
Fe 273.955†	2.0	0.00165	mg/L	0.000442	0.00165 mg/L	0.000442	26.85%
K 766.490†	0.0	0.00000	mg/L	0.018928	0.00000 mg/L	0.018928	>999.9%
Mg 279.077†	-2.6	-0.00227	mg/L	0.011892	-0.00227 mg/L	0.011892	524.32%
Mn 257.610†	-0.3	-0.00001	mg/L	0.000162	-0.00001 mg/L	0.000162	>999.9%
Mo 202.031†	31.1	0.00195	mg/L	0.000563	0.00195 mg/L	0.000563	28.83%
Na 589.592†	74.6	0.00572	mg/L	0.001560	0.00572 mg/L	0.001560	27.25%
Na 330.237†	-14.3	-0.5503	mg/L	0.61913	-0.5503 mg/L	0.61913	112.50%
Ni 231.604†	6.4	0.00180	mg/L	0.000170	0.00180 mg/L	0.000170	9.46%
Pb 220.353†	-3.1	-0.00038	mg/L	0.000752	-0.00038 mg/L	0.000752	199.40%
Sb 206.836†	7.7	0.00308	mg/L	0.000313	0.00308 mg/L	0.000313	10.17%
Se 196.026†	-0.1	-0.00012	mg/L	0.003530	-0.00012 mg/L	0.003530	>999.9%
Si 288.158†	-1.9	-0.00110	mg/L	0.003747	-0.00110 mg/L	0.003747	339.44%
Sn 189.927†	2.0	0.00042	mg/L	0.000522	0.00042 mg/L	0.000522	125.06%
Sr 421.552†	-6.2	-0.00001	mg/L	0.000005	-0.00001 mg/L	0.000005	66.68%
Ti 334.903†	16.3	0.00058	mg/L	0.001083	0.00058 mg/L	0.001083	187.23%
Tl 190.801†	1.7	0.00102	mg/L	0.000504	0.00102 mg/L	0.000504	49.65%
V 292.402†	-7.0	-0.00004	mg/L	0.000150	-0.00004 mg/L	0.000150	389.36%
Zn 206.200†	-2.8	-0.00073	mg/L	0.000354	-0.00073 mg/L	0.000354	48.36%

Sequence No.: 61  
 Sample ID: SN54 MB1 SWC

Autosampler Location: 347  
 Date Collected: 3/22/2011 3:21:13 PM  
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 MB1 SWC

Analyte Back Pressure Flow  
 All 208.0 kPa 0.75 L/min

Mean Data: SN54 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2501994.6	103.0	%	0.63			0.61%
ScR 361.383	418107.8	104.4	%	0.85			0.81%
Ag 328.068†	-16.6	-0.00009	mg/L	0.000088	-0.00017 mg/L	0.000176	101.31%
Al 308.215†	-7.0	-0.00507	mg/L	0.000842	-0.01014 mg/L	0.001685	16.62%
As 188.979†	0.2	0.00013	mg/L	0.001357	0.00025 mg/L	0.002713	>999.9%
B 249.677†	0.6	0.00010	mg/L	0.000508	0.00020 mg/L	0.001016	512.20%
Ba 233.527†	-3.1	-0.00044	mg/L	0.000864	-0.00089 mg/L	0.001729	195.10%
Be 313.042†	25.0	0.00003	mg/L	0.000024	0.00006 mg/L	0.000048	86.95%
Ca 317.933†	64.7	0.00570	mg/L	0.000856	0.01139 mg/L	0.001713	15.03%
Cd 228.802†	2.1	0.00008	mg/L	0.000074	0.00015 mg/L	0.000148	96.54%
Co 228.616†	-4.5	-0.00014	mg/L	0.000036	-0.00028 mg/L	0.000071	25.53%
Cr 267.716†	6.0	0.00078	mg/L	0.000358	0.00155 mg/L	0.000717	46.12%
Cu 324.752†	84.3	0.00036	mg/L	0.000066	0.00073 mg/L	0.000132	18.14%
Fe 273.955†	8.8	0.00709	mg/L	0.004207	0.01418 mg/L	0.008413	59.35%
K 766.490†	216.4	0.1170	mg/L	0.00901	0.2340 mg/L	0.01801	7.70%
Mg 279.077†	-1.7	-0.00147	mg/L	0.006549	-0.00295 mg/L	0.013099	444.05%
Mn 257.610†	4.6	0.00010	mg/L	0.000095	0.00019 mg/L	0.000190	99.68%
Mo 202.031†	-3.6	-0.00023	mg/L	0.000261	-0.00046 mg/L	0.000521	114.42%
Na 589.592†	16.6	0.00127	mg/L	0.001890	0.00255 mg/L	0.003779	148.42%
Na 330.237†	-18.0	-0.6925	mg/L	0.22687	-1.385 mg/L	0.4537	32.76%
Ni 231.604†	4.9	0.00137	mg/L	0.000990	0.00274 mg/L	0.001979	72.24%
Pb 220.353†	-9.6	-0.00117	mg/L	0.001028	-0.00233 mg/L	0.002056	88.19%
Sb 206.836†	-2.7	-0.00107	mg/L	0.000360	-0.00214 mg/L	0.000720	33.69%
Se 196.026†	3.2	0.00269	mg/L	0.005070	0.00537 mg/L	0.010139	188.79%
Si 288.158†	6.8	0.00387	mg/L	0.001166	0.00774 mg/L	0.002331	30.10%
Sn 189.927†	0.7	0.00014	mg/L	0.000242	0.00028 mg/L	0.000485	172.11%
Sr 421.552†	-38.3	-0.00004	mg/L	0.000004	-0.00008 mg/L	0.000008	9.69%
Ti 334.903†	15.4	0.00055	mg/L	0.000660	0.00110 mg/L	0.001320	120.39%
Tl 190.801†	-1.0	-0.00062	mg/L	0.001871	-0.00123 mg/L	0.003742	304.16%
V 292.402†	7.9	0.00005	mg/L	0.000055	0.00010 mg/L	0.000111	107.85%
Zn 206.200†	0.2	0.00004	mg/L	0.000545	0.00009 mg/L	0.001090	>999.9%



Sequence No.: 62  
Sample ID: SN54 C SWC

Autosampler Location: 348  
Date Collected: 3/22/2011 3:25:09 PM  
Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN54 C SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

## Mean Data: SN54 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2526073.5	104.0	%	0.19			0.18%
ScR 361.383	423299.1	105.7	%	0.47			0.44%
Ag 328.068†	55.5	0.00022	mg/L	0.000088	0.00044 mg/L	0.000176	39.74%
Al 308.215†	5514.5	3.963	mg/L	0.0077	7.925 mg/L	0.0155	0.20%
As 188.979†	83.2	0.05904	mg/L	0.002272	0.1181 mg/L	0.00454	3.85%
B 249.677†	62.3	0.01072	mg/L	0.001630	0.02145 mg/L	0.003261	15.20%
Ba 233.527†	172.2	0.02352	mg/L	0.000362	0.04704 mg/L	0.000725	1.54%
Be 313.042†	166.9	0.00014	mg/L	0.000041	0.00028 mg/L	0.000082	29.46%
Ca 317.933†	130339.8	11.48	mg/L	0.027	22.97 mg/L	0.055	0.24%
Cd 228.802†	12.9	0.00028	mg/L	0.000181	0.00057 mg/L	0.000363	63.91%
Co 228.616†	269.0	0.00804	mg/L	0.000106	0.01609 mg/L	0.000213	1.32%
Cr 267.716†	215.4	0.02838	mg/L	0.000819	0.05676 mg/L	0.001639	2.89%
Cu 324.752†	5641.7	0.02534	mg/L	0.000231	0.05067 mg/L	0.000461	0.91%
Fe 273.955†	25227.8	20.39	mg/L	0.083	40.78 mg/L	0.167	0.41%
K 766.490†	775.2	0.4191	mg/L	0.02609	0.8382 mg/L	0.05219	6.23%
Mg 279.077†	3652.5	3.205	mg/L	0.0264	6.410 mg/L	0.0528	0.82%
Mn 257.610†	23289.2	0.4870	mg/L	0.00244	0.9739 mg/L	0.00487	0.50%
Mo 202.031†	251.0	0.01554	mg/L	0.000316	0.03108 mg/L	0.000632	2.03%
Na 589.592†	2664.1	0.2043	mg/L	0.00160	0.4087 mg/L	0.00321	0.79%
Na 330.237†	-9.4	-0.3302	mg/L	0.19075	-0.6603 mg/L	0.38150	57.78%
Ni 231.604†	188.2	0.05279	mg/L	0.001380	0.1056 mg/L	0.00276	2.61%
Pb 220.353†	-0.5	-0.00045	mg/L	0.000277	-0.00091 mg/L	0.000555	61.08%
Sb 206.836†	8.3	0.00347	mg/L	0.001232	0.00693 mg/L	0.002464	35.53%
Se 196.026†	22.2	0.01632	mg/L	0.003576	0.03264 mg/L	0.007151	21.91%
Si 288.158†	1584.2	0.9066	mg/L	0.01098	1.813 mg/L	0.0220	1.21%
Sn 189.927†	-24.0	-0.00179	mg/L	0.000919	-0.00357 mg/L	0.001839	51.45%
Sr 421.552†	50143.6	0.05469	mg/L	0.000206	0.1094 mg/L	0.00041	0.38%
Ti 334.903†	3833.6	0.1345	mg/L	0.00182	0.2690 mg/L	0.00364	1.35%
Tl 190.801†	-4.1	0.00016	mg/L	0.002315	0.00032 mg/L	0.004629	>999.9%
V 292.402†	13795.2	0.08327	mg/L	0.000728	0.1665 mg/L	0.00146	0.87%
Zn 206.200†	194.9	0.05009	mg/L	0.000815	0.1002 mg/L	0.00163	1.63%

Sequence No.: 63  
Sample ID: SN54 D SWC

Autosampler Location: 349  
Date Collected: 3/22/2011 3:29:04 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 D SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN54 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2506534.8	103.2 %		0.48			0.47%
ScR 361.383	419768.6	104.8 %		1.27			1.21%
Ag 328.068†	54.6	0.00019 mg/L		0.000133	0.00037 mg/L	0.000265	71.42%
Al 308.215†	22699.2	16.32 mg/L		0.057	32.64 mg/L	0.113	0.35%
As 188.979†	83.7	0.06591 mg/L		0.002607	0.1318 mg/L	0.00521	3.96%
B 249.677†	37.4	0.00642 mg/L		0.001265	0.01283 mg/L	0.002530	19.72%
Ba 233.527†	712.4	0.1011 mg/L		0.00089	0.2022 mg/L	0.00179	0.88%
Be 313.042†	306.4	0.00030 mg/L		0.000012	0.00059 mg/L	0.000024	4.06%
Ca 317.933†	67543.3	5.951 mg/L		0.0173	11.90 mg/L	0.035	0.29%
Cd 228.802†	47.1	0.00152 mg/L		0.000279	0.00304 mg/L	0.000558	18.34%
Co 228.616†	378.3	0.01018 mg/L		0.000034	0.02036 mg/L	0.000068	0.34%
Cr 267.716†	325.3	0.04293 mg/L		0.000712	0.08586 mg/L	0.001423	1.66%
Cu 324.752†	61062.3	0.2649 mg/L		0.00125	0.5299 mg/L	0.00250	0.47%
Fe 273.955†	35442.5	28.65 mg/L		0.030	57.30 mg/L	0.059	0.10%
K 766.490†	1758.3	0.9506 mg/L		0.00961	1.901 mg/L	0.0192	1.01%
Mg 279.077†	5719.4	5.020 mg/L		0.0427	10.04 mg/L	0.085	0.85%
Mn 257.610†	31576.6	0.6603 mg/L		0.00103	1.321 mg/L	0.0021	0.16%
Mo 202.031†	102.2	0.00631 mg/L		0.000157	0.01261 mg/L	0.000315	2.50%
Na 589.592†	5869.0	0.4501 mg/L		0.00044	0.9003 mg/L	0.00089	0.10%
Na 330.237†	-4.4	0.06021 mg/L		0.369647	0.1204 mg/L	0.73929	613.97%
Ni 231.604†	202.7	0.05687 mg/L		0.001182	0.1137 mg/L	0.00236	2.08%
Pb 220.353†	2552.2	0.3118 mg/L		0.00338	0.6235 mg/L	0.00676	1.08%
Sb 206.836†	-1.4	0.00061 mg/L		0.000592	0.00122 mg/L	0.001185	96.90%
Se 196.026†	8.5	0.00566 mg/L		0.001373	0.01132 mg/L	0.002746	24.26%
Si 288.158†	5320.5	3.044 mg/L		0.0203	6.088 mg/L	0.0407	0.67%
Sn 189.927†	-10.7	-0.00028 mg/L		0.000915	-0.00056 mg/L	0.001830	327.01%
Sr 421.552†	38780.6	0.04230 mg/L		0.000047	0.08459 mg/L	0.000094	0.11%
Ti 334.903†	24742.8	0.8802 mg/L		0.00193	1.760 mg/L	0.0039	0.22%
Tl 190.801†	-5.2	0.00054 mg/L		0.003441	0.00108 mg/L	0.006882	636.11%
V 292.402†	12921.0	0.07684 mg/L		0.000470	0.1537 mg/L	0.00094	0.61%
Zn 206.200†	998.5	0.2566 mg/L		0.00230	0.5132 mg/L	0.00460	0.90%

Sequence No.: 64

Sample ID: SN54 F SWC

Autosampler Location: 350

Date Collected: 3/22/2011 3:33:00 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 F SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN54 F SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2514606.7	103.6	%	0.41			0.39%
ScR 361.383	422727.5	105.6	%	0.91			0.86%
Ag 328.068†	171.2	-0.00008	mg/L	0.000191	-0.00016 mg/L	0.000383	235.24%
Al 308.215†	7521.0	5.396	mg/L	0.0314	10.79 mg/L	0.063	0.58%
As 188.979†	142.3	0.1022	mg/L	0.00186	0.2045 mg/L	0.00372	1.82%
B 249.677†	47.1	0.00809	mg/L	0.000565	0.01618 mg/L	0.001129	6.98%
Ba 233.527†	380.0	0.04549	mg/L	0.000515	0.09099 mg/L	0.001030	1.13%
Be 313.042†	217.9	0.00020	mg/L	0.000018	0.00041 mg/L	0.000037	8.94%
Ca 317.933†	86350.6	7.608	mg/L	0.0157	15.22 mg/L	0.031	0.21%
Cd 228.802†	41.8	0.00119	mg/L	0.000226	0.00238 mg/L	0.000451	18.95%
Co 228.616†	453.2	0.01351	mg/L	0.000218	0.02702 mg/L	0.000437	1.62%
Cr 267.716†	202.5	0.03238	mg/L	0.000179	0.06477 mg/L	0.000357	0.55%
Cu 324.752†	6058.9	0.03332	mg/L	0.000078	0.06665 mg/L	0.000156	0.23%
Fe 273.955†	179237.5	144.9	mg/L	0.16	289.8 mg/L	0.33	0.11%
K 766.490†	1077.0	0.5823	mg/L	0.01698	1.165 mg/L	0.0340	2.92%
Mg 279.077†	3711.1	3.200	mg/L	0.0250	6.399 mg/L	0.0500	0.78%
Mn 257.610†	267591.6	5.595	mg/L	0.0156	11.19 mg/L	0.031	0.28%
Mo 202.031†	155.7	0.00963	mg/L	0.000150	0.01926 mg/L	0.000300	1.56%
Na 589.592†	2805.0	0.2151	mg/L	0.00524	0.4303 mg/L	0.01048	2.43%
Na 330.237†	-9.7	-0.3060	mg/L	0.23920	-0.6120 mg/L	0.47839	78.16%
Ni 231.604†	249.7	0.07006	mg/L	0.001696	0.1401 mg/L	0.00339	2.42%
Pb 220.353†	85.7	0.00297	mg/L	0.000639	0.00594 mg/L	0.001279	21.52%
Sb 206.836†	20.2	0.00834	mg/L	0.000844	0.01669 mg/L	0.001687	10.11%
Se 196.026†	-1.1	-0.00237	mg/L	0.002079	-0.00474 mg/L	0.004158	87.65%
Si 288.158†	2236.6	1.280	mg/L	0.0217	2.560 mg/L	0.0435	1.70%
Sn 189.927†	-23.6	-0.00268	mg/L	0.000332	-0.00536 mg/L	0.000664	12.37%
Sr 421.552†	34000.9	0.03708	mg/L	0.000094	0.07417 mg/L	0.000188	0.25%
Ti 334.903†	7070.2	0.2505	mg/L	0.00019	0.5010 mg/L	0.00038	0.08%
Tl 190.801†	-40.8	-0.00527	mg/L	0.001501	-0.01054 mg/L	0.003003	28.49%
V 292.402†	10799.2	0.05538	mg/L	0.000167	0.1108 mg/L	0.00033	0.30%
Zn 206.200†	282.6	0.07263	mg/L	0.001794	0.1453 mg/L	0.00359	2.47%

SN54 : 00670

Sequence No.: 65

Autosampler Location: 351

Sample ID: SN54 G SWC

Date Collected: 3/22/2011 3:36:55 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 G SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN54 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2521402.0	103.8 %		0.65			0.62%
ScR 361.383	425398.6	106.2 %		0.16			0.15%
Ag 328.068†	63.1	0.00020 mg/L		0.000111	0.00040 mg/L	0.000223	55.91%
Al 308.215†	29791.6	21.42 mg/L		0.097	42.83 mg/L	0.193	0.45%
As 188.979†	104.9	0.08265 mg/L		0.001604	0.1653 mg/L	0.00321	1.94%
B 249.677†	38.0	0.00651 mg/L		0.001395	0.01303 mg/L	0.002790	21.42%
Ba 233.527†	973.9	0.1382 mg/L		0.00095	0.2765 mg/L	0.00190	0.69%
Be 313.042†	372.2	0.00036 mg/L		0.000013	0.00071 mg/L	0.000026	3.65%
Ca 317.933†	85430.0	7.527 mg/L		0.0092	15.05 mg/L	0.018	0.12%
Cd 228.802†	60.9	0.00198 mg/L		0.000038	0.00396 mg/L	0.000077	1.94%
Co 228.616†	503.0	0.01363 mg/L		0.000064	0.02726 mg/L	0.000127	0.47%
Cr 267.716†	421.5	0.05569 mg/L		0.000859	0.1114 mg/L	0.00172	1.54%
Cu 324.752†	98369.1	0.4265 mg/L		0.00067	0.8531 mg/L	0.00134	0.16%
Fe 273.955†	47737.1	38.59 mg/L		0.174	77.17 mg/L	0.348	0.45%
K 766.490†	2256.3	1.220 mg/L		0.0165	2.440 mg/L	0.0330	1.35%
Mg 279.077†	7586.1	6.658 mg/L		0.0358	13.32 mg/L	0.072	0.54%
Mn 257.610†	41345.3	0.8645 mg/L		0.00342	1.729 mg/L	0.0068	0.40%
Mo 202.031†	113.3	0.00697 mg/L		0.000068	0.01394 mg/L	0.000136	0.97%
Na 589.592†	7343.4	0.5632 mg/L		0.00213	1.126 mg/L	0.0043	0.38%
Na 330.237†	-3.1	0.1585 mg/L		0.23907	0.3171 mg/L	0.47813	150.79%
Ni 231.604†	263.5	0.07392 mg/L		0.002263	0.1478 mg/L	0.00453	3.06%
Pb 220.353†	3366.3	0.4110 mg/L		0.00172	0.8221 mg/L	0.00345	0.42%
Sb 206.836†	3.2	0.00273 mg/L		0.000658	0.00545 mg/L	0.001317	24.15%
Se 196.026†	12.9	0.00892 mg/L		0.002794	0.01784 mg/L	0.005587	31.32%
Si 288.158†	6211.2	3.554 mg/L		0.0078	7.108 mg/L	0.0157	0.22%
Sn 189.927†	-10.8	0.00020 mg/L		0.001587	0.00040 mg/L	0.003173	783.65%
Sr 421.552†	50387.2	0.05495 mg/L		0.000212	0.1099 mg/L	0.00042	0.38%
Ti 334.903†	31210.2	1.110 mg/L		0.0044	2.221 mg/L	0.0089	0.40%
Tl 190.801†	-8.7	-0.00024 mg/L		0.002618	-0.00048 mg/L	0.005237	>999.9%
V 292.402†	16456.6	0.09771 mg/L		0.000653	0.1954 mg/L	0.00131	0.67%
Zn 206.200†	1428.7	0.3672 mg/L		0.00174	0.7344 mg/L	0.00348	0.47%

SN54 : 00671

Sequence No.: 66  
 Sample ID: SN54 EDUP SWC

Autosampler Location: 352  
 Date Collected: 3/22/2011 3:40:51 PM  
 Data Type: Original

Dilution: 2X

-----  
 Nebulizer Parameters: SN54 EDUP SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

-----  
 Mean Data: SN54 EDUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2520043.1	103.8	%	1.07			1.03%
ScR 361.383	427380.4	106.7	%	0.39			0.36%
Ag 328.068†	113.9	-0.00038	mg/L	0.000137	-0.00076 mg/L	0.000274	36.05%
Al 308.215†	5625.7	4.033	mg/L	0.0076	8.066 mg/L	0.0152	0.19%
As 188.979†	238.1	0.1692	mg/L	0.00161	0.3385 mg/L	0.00323	0.95%
B 249.677†	60.8	0.01045	mg/L	0.003525	0.02090 mg/L	0.007050	33.73%
Ba 233.527†	388.7	0.04565	mg/L	0.000854	0.09130 mg/L	0.001707	1.87%
Be 313.042†	200.5	0.00018	mg/L	0.000004	0.00036 mg/L	0.000009	2.42%
Ca 317.933†	90465.6	7.970	mg/L	0.0021	15.94 mg/L	0.004	0.03%
Cd 228.802†	52.6	0.00133	mg/L	0.000270	0.00267 mg/L	0.000540	20.25%
Co 228.616†	324.0	0.00970	mg/L	0.000100	0.01940 mg/L	0.000200	1.03%
Cr 267.716†	163.4	0.02810	mg/L	0.001095	0.05620 mg/L	0.002189	3.90%
Cu 324.752†	5858.9	0.03333	mg/L	0.000632	0.06667 mg/L	0.001264	1.90%
Fe 273.955†	200142.7	161.8	mg/L	0.28	323.6 mg/L	0.56	0.17%
K 766.490†	1013.6	0.5480	mg/L	0.03088	1.096 mg/L	0.0618	5.63%
Mg 279.077†	3461.9	2.972	mg/L	0.0089	5.945 mg/L	0.0178	0.30%
Mn 257.610†	267729.4	5.598	mg/L	0.0147	11.20 mg/L	0.029	0.26%
Mo 202.031†	194.0	0.01203	mg/L	0.000368	0.02405 mg/L	0.000735	3.06%
Na 589.592†	2348.9	0.1802	mg/L	0.00237	0.3603 mg/L	0.00475	1.32%
Na 330.237†	-9.5	-0.3318	mg/L	0.07960	-0.6636 mg/L	0.15921	23.99%
Ni 231.604†	231.4	0.06493	mg/L	0.000951	0.1299 mg/L	0.00190	1.46%
Pb 220.353†	111.1	0.00479	mg/L	0.000470	0.00958 mg/L	0.000939	9.80%
Sb 206.836†	20.3	0.00829	mg/L	0.001075	0.01657 mg/L	0.002150	12.97%
Se 196.026†	3.0	0.00097	mg/L	0.003769	0.00195 mg/L	0.007538	386.63%
Si 288.158†	2066.9	1.183	mg/L	0.0096	2.365 mg/L	0.0192	0.81%
Sn 189.927†	-26.3	-0.00317	mg/L	0.000760	-0.00635 mg/L	0.001520	23.95%
Sr 421.552†	34487.3	0.03761	mg/L	0.000043	0.07523 mg/L	0.000086	0.11%
Ti 334.903†	4232.0	0.1493	mg/L	0.00024	0.2987 mg/L	0.00047	0.16%
Tl 190.801†	-46.7	-0.00655	mg/L	0.002552	-0.01310 mg/L	0.005105	38.97%
V 292.402†	12001.7	0.06142	mg/L	0.001036	0.1228 mg/L	0.00207	1.69%
Zn 206.200†	241.6	0.06209	mg/L	0.001068	0.1242 mg/L	0.00214	1.72%

Sequence No.: 67  
Sample ID: SN54 E SWC

Autosampler Location: 353  
Date Collected: 3/22/2011 3:44:47 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 E SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN54 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2514443.1	103.6 %	%	0.62			0.60%
ScR 361.383	425603.1	106.3 %	%	0.84			0.79%
Ag 328.068†	96.0	-0.00022 mg/L	mg/L	0.000122	-0.00044 mg/L	0.000244	55.12%
Al 308.215†	5626.7	4.036 mg/L	mg/L	0.0126	8.073 mg/L	0.0253	0.31%
As 188.979†	146.2	0.1040 mg/L	mg/L	0.00114	0.2080 mg/L	0.00227	1.09%
B 249.677†	37.8	0.00649 mg/L	mg/L	0.001382	0.01298 mg/L	0.002765	21.29%
Ba 233.527†	362.6	0.04439 mg/L	mg/L	0.000674	0.08877 mg/L	0.001347	1.52%
Be 313.042†	179.7	0.00015 mg/L	mg/L	0.000027	0.00031 mg/L	0.000054	17.69%
Ca 317.933†	82062.2	7.230 mg/L	mg/L	0.0191	14.46 mg/L	0.038	0.26%
Cd 228.802†	43.8	0.00124 mg/L	mg/L	0.000155	0.00249 mg/L	0.000310	12.45%
Co 228.616†	271.0	0.00810 mg/L	mg/L	0.000137	0.01620 mg/L	0.000275	1.70%
Cr 267.716†	190.0	0.02983 mg/L	mg/L	0.000431	0.05966 mg/L	0.000863	1.45%
Cu 324.752†	5323.0	0.02908 mg/L	mg/L	0.000075	0.05817 mg/L	0.000150	0.26%
Fe 273.955†	152048.0	122.9 mg/L	mg/L	0.61	245.8 mg/L	1.22	0.50%
K 766.490†	888.2	0.4802 mg/L	mg/L	0.00267	0.9604 mg/L	0.00533	0.56%
Mg 279.077†	2842.0	2.445 mg/L	mg/L	0.0141	4.890 mg/L	0.0282	0.58%
Mn 257.610†	200145.2	4.185 mg/L	mg/L	0.0125	8.369 mg/L	0.0251	0.30%
Mo 202.031†	191.1	0.01186 mg/L	mg/L	0.000242	0.02371 mg/L	0.000484	2.04%
Na 589.592†	2267.4	0.1739 mg/L	mg/L	0.00381	0.3478 mg/L	0.00761	2.19%
Na 330.237†	-10.2	-0.3623 mg/L	mg/L	0.45203	-0.7247 mg/L	0.90405	124.75%
Ni 231.604†	193.6	0.05433 mg/L	mg/L	0.000828	0.1087 mg/L	0.00166	1.52%
Pb 220.353†	60.2	0.00090 mg/L	mg/L	0.000710	0.00181 mg/L	0.001419	78.64%
Sb 206.836†	12.8	0.00528 mg/L	mg/L	0.000915	0.01056 mg/L	0.001829	17.32%
Se 196.026†	11.4	0.00816 mg/L	mg/L	0.001079	0.01631 mg/L	0.002157	13.22%
Si 288.158†	21008.9	12.02 mg/L	mg/L	0.324	24.04 mg/L	0.649	2.70%
Sn 189.927†	-24.0	-0.00290 mg/L	mg/L	0.000888	-0.00580 mg/L	0.001775	30.63%
Sr 421.552†	33336.0	0.03636 mg/L	mg/L	0.000157	0.07271 mg/L	0.000314	0.43%
Ti 334.903†	3743.8	0.1321 mg/L	mg/L	0.00131	0.2641 mg/L	0.00261	0.99%
Tl 190.801†	-37.5	-0.00625 mg/L	mg/L	0.001142	-0.01249 mg/L	0.002283	18.28%
V 292.402†	13806.3	0.07551 mg/L	mg/L	0.000510	0.1510 mg/L	0.00102	0.68%
Zn 206.200†	219.9	0.05652 mg/L	mg/L	0.000803	0.1130 mg/L	0.00161	1.42%

SN54 : 00673

Sequence No.: 68

Autosampler Location: 354

Sample ID: SN54 ESPK SWC

Date Collected: 3/22/2011 3:48:43 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 ESPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN54 ESPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2406442.1	99.10 %		3.267			3.30%
ScR 361.383	419971.0	104.9 %		3.98			3.80%
Ag 328.068†	100932.4	0.5283 mg/L		0.01164	1.057 mg/L	0.0233	2.20%
Al 308.215†	8642.7	6.197 mg/L		0.2087	12.39 mg/L	0.417	3.37%
As 188.979†	3168.8	2.246 mg/L		0.0646	4.491 mg/L	0.1292	2.88%
B 249.677†	59.9	0.00909 mg/L		0.000813	0.01818 mg/L	0.001626	8.95%
Ba 233.527†	14314.0	2.063 mg/L		0.0701	4.126 mg/L	0.1401	3.40%
Be 313.042†	447876.0	0.4941 mg/L		0.03096	0.9882 mg/L	0.06193	6.27%
Ca 317.933†	206031.1	18.15 mg/L		1.160	36.30 mg/L	2.320	6.39%
Cd 228.802†	14586.5	0.5196 mg/L		0.01172	1.039 mg/L	0.0234	2.26%
Co 228.616†	16852.3	0.5174 mg/L		0.01072	1.035 mg/L	0.0214	2.07%
Cr 267.716†	4149.1	0.5397 mg/L		0.01814	1.079 mg/L	0.0363	3.36%
Cu 324.752†	130836.3	0.5698 mg/L		0.01325	1.140 mg/L	0.0265	2.33%
Fe 273.955†	113646.2	91.86 mg/L		5.622	183.7 mg/L	11.24	6.12%
K 766.490†	20185.2	10.91 mg/L		0.650	21.83 mg/L	1.300	5.96%
Mg 279.077†	15058.0	13.21 mg/L		0.462	26.42 mg/L	0.924	3.50%
Mn 257.610†	174136.1	3.641 mg/L		0.2224	7.282 mg/L	0.4448	6.11%
Mo 202.031†	298.1	0.01837 mg/L		0.000777	0.03674 mg/L	0.001554	4.23%
Na 589.592†	133513.8	10.24 mg/L		0.616	20.48 mg/L	1.232	6.02%
Na 330.237†	274.2	10.47 mg/L		0.506	20.94 mg/L	1.012	4.83%
Ni 231.604†	2031.0	0.5698 mg/L		0.01822	1.140 mg/L	0.0364	3.20%
Pb 220.353†	16673.2	2.025 mg/L		0.0481	4.049 mg/L	0.0963	2.38%
Sb 206.836†	25.4	0.00707 mg/L		0.001476	0.01414 mg/L	0.002952	20.87%
Se 196.026†	2576.8	2.128 mg/L		0.0612	4.255 mg/L	0.1224	2.88%
Si 288.158†	14131.6	8.087 mg/L		0.2919	16.17 mg/L	0.584	3.61%
Sn 189.927†	-51.2	-0.00551 mg/L		0.000005	-0.01103 mg/L	0.000010	0.09%
Sr 421.552†	505794.7	0.5516 mg/L		0.03422	1.103 mg/L	0.0684	6.20%
Ti 334.903†	4642.1	0.1621 mg/L		0.00570	0.3242 mg/L	0.01141	3.52%
Tl 190.801†	3366.8	2.051 mg/L		0.0593	4.102 mg/L	0.1185	2.89%
V 292.402†	99514.1	0.6073 mg/L		0.01503	1.215 mg/L	0.0301	2.48%
Zn 206.200†	2188.6	0.5625 mg/L		0.01986	1.125 mg/L	0.0397	3.53%

SN54 : 00674

Sequence No.: 69

Sample ID: SN54 EPOST SWC

Autosampler Location: 355

Date Collected: 3/22/2011 3:52:39 PM

Data Type: Original

Dilution: 2X

*zzzzz  
aw3.22*

Nebulizer Parameters: SN54 EPOST SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN54 EPOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2548639.7	105.0 %		0.07			0.06%
ScR 361.383	422417.7	105.5 %		1.47			1.39%
Ag 328.068†	93532.1	0.4893 mg/L		0.00274	0.9786 mg/L	0.00548	0.56%
Al 308.215†	8689.7	6.229 mg/L		0.1463	12.46 mg/L	0.293	2.35%
As 188.979†	2923.6	2.072 mg/L		0.0057	4.144 mg/L	0.0115	0.28%
B 249.677†	38.1	0.00539 mg/L		0.001045	0.01077 mg/L	0.002091	19.40%
Ba 233.527†	13970.0	2.011 mg/L		0.0430	4.023 mg/L	0.0860	2.14%
Be 313.042†	435809.4	0.4808 mg/L		0.00541	0.9616 mg/L	0.01082	1.12%
Ca 317.933†	195471.0	17.22 mg/L		0.142	34.44 mg/L	0.284	0.82%
Cd 228.802†	13813.3	0.4923 mg/L		0.00266	0.9845 mg/L	0.00532	0.54%
Co 228.616†	16012.5	0.4917 mg/L		0.00221	0.9833 mg/L	0.00441	0.45%
Cr 267.716†	4041.1	0.5272 mg/L		0.01172	1.054 mg/L	0.0234	2.22%
Cu 324.752†	122426.5	0.5351 mg/L		0.00304	1.070 mg/L	0.0061	0.57%
Fe 273.955†	153089.3	123.7 mg/L		1.19	247.5 mg/L	2.39	0.96%
K 766.490†	19711.7	10.66 mg/L		0.086	21.31 mg/L	0.172	0.81%
Mg 279.077†	14540.0	12.74 mg/L		0.294	25.48 mg/L	0.588	2.31%
Mn 257.610†	221011.2	4.621 mg/L		0.0456	9.243 mg/L	0.0913	0.99%
Mo 202.031†	201.9	0.01235 mg/L		0.000341	0.02470 mg/L	0.000682	2.76%
Na 589.592†	129887.8	9.962 mg/L		0.0856	19.92 mg/L	0.171	0.86%
Na 330.237†	258.0	9.840 mg/L		0.2278	19.68 mg/L	0.456	2.32%
Ni 231.604†	1938.4	0.5439 mg/L		0.00975	1.088 mg/L	0.0195	1.79%
Pb 220.353†	15780.0	1.914 mg/L		0.0097	3.828 mg/L	0.0194	0.51%
Sb 206.836†	32.3	0.00980 mg/L		0.000469	0.01961 mg/L	0.000939	4.79%
Se 196.026†	2463.2	2.034 mg/L		0.0036	4.068 mg/L	0.0071	0.18%
Si 288.158†	22217.6	12.71 mg/L		0.280	25.43 mg/L	0.560	2.20%
Sn 189.927†	-49.9	-0.00550 mg/L		0.000649	-0.01100 mg/L	0.001299	11.80%
Sr 421.552†	489008.4	0.5333 mg/L		0.00489	1.067 mg/L	0.0098	0.92%
Ti 334.903†	3968.6	0.1383 mg/L		0.00305	0.2765 mg/L	0.00611	2.21%
Tl 190.801†	3128.1	1.911 mg/L		0.0089	3.821 mg/L	0.0178	0.47%
V 292.402†	93981.7	0.5707 mg/L		0.00425	1.141 mg/L	0.0085	0.75%
Zn 206.200†	2141.0	0.5503 mg/L		0.01242	1.101 mg/L	0.0248	2.26%



Sequence No.: 70

Sample ID: SN63 MB1SPK SWC

Autosampler Location: 356

Date Collected: 3/22/2011 3:56:35 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 MB1SPK SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN63 MB1SPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2490432.7	102.6 %	0.65			0.64%
ScR 361.383	422759.3	105.6 %	0.48			0.46%
Ag 328.068†	98705.0	0.5171 mg/L	0.00164	1.034 mg/L	0.0033	0.32%
Al 308.215†	2809.5	2.010 mg/L	0.0101	4.021 mg/L	0.0203	0.50%
As 188.979†	2851.4	2.020 mg/L	0.0095	4.040 mg/L	0.0190	0.47%
B 249.677†	1.9	-0.00086 mg/L	0.000949	-0.00171 mg/L	0.001898	110.97%
Ba 233.527†	13657.0	1.974 mg/L	0.0135	3.948 mg/L	0.0271	0.69%
Be 313.042†	438200.0	0.4835 mg/L	0.00307	0.9670 mg/L	0.00614	0.64%
Ca 317.933†	113725.8	10.02 mg/L	0.062	20.04 mg/L	0.125	0.62%
Cd 228.802†	14160.3	0.5050 mg/L	0.00394	1.010 mg/L	0.0079	0.78%
Co 228.616†	16170.2	0.4968 mg/L	0.00379	0.9935 mg/L	0.00759	0.76%
Cr 267.716†	3863.6	0.4990 mg/L	0.00238	0.9981 mg/L	0.00476	0.48%
Cu 324.752†	116463.8	0.5033 mg/L	0.00258	1.007 mg/L	0.0052	0.51%
Fe 273.955†	2506.0	2.023 mg/L	0.0146	4.046 mg/L	0.0293	0.72%
K 766.490†	18985.8	10.26 mg/L	0.032	20.53 mg/L	0.064	0.31%
Mg 279.077†	11690.3	10.29 mg/L	0.067	20.58 mg/L	0.135	0.65%
Mn 257.610†	22867.4	0.4785 mg/L	0.00338	0.9570 mg/L	0.00676	0.71%
Mo 202.031†	27.9	0.00157 mg/L	0.000081	0.00313 mg/L	0.000162	5.17%
Na 589.592†	127086.4	9.747 mg/L	0.0548	19.49 mg/L	0.110	0.56%
Na 330.237†	249.4	9.476 mg/L	0.1893	18.95 mg/L	0.379	2.00%
Ni 231.604†	1743.9	0.4893 mg/L	0.00395	0.9786 mg/L	0.00789	0.81%
Pb 220.353†	16235.6	1.976 mg/L	0.0061	3.951 mg/L	0.0121	0.31%
Sb 206.836†	6.9	-0.00046 mg/L	0.001062	-0.00093 mg/L	0.002123	229.27%
Se 196.026†	2482.1	2.051 mg/L	0.0125	4.102 mg/L	0.0250	0.61%
Si 288.158†	18.3	0.01362 mg/L	0.009895	0.02724 mg/L	0.019790	72.66%
Sn 189.927†	-29.7	-0.00336 mg/L	0.001206	-0.00672 mg/L	0.002411	35.87%
Sr 421.552†	457454.2	0.4989 mg/L	0.00207	0.9978 mg/L	0.00415	0.42%
Ti 334.903†	64.7	0.00049 mg/L	0.000596	0.00097 mg/L	0.001191	122.21%
Tl 190.801†	3275.6	1.984 mg/L	0.0137	3.967 mg/L	0.0274	0.69%
V 292.402†	81738.6	0.5048 mg/L	0.00364	1.010 mg/L	0.0073	0.72%
Zn 206.200†	1926.9	0.4953 mg/L	0.00156	0.9906 mg/L	0.00312	0.32%

SN54 : 00676

Sequence No.: 71

Sample ID: CV 8

Autosampler Location: 7

Date Collected: 3/22/2011 4:00:31 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	210.0 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	2528941.8	104.1 %	0.81			0.78%
ScR 361.383	421540.1	105.3 %	1.22			1.15%
Ag 328.068†	188346.0	0.9866 mg/L	0.01420	0.9866 mg/L	0.01420	1.44%
Al 308.215†	2794.2	1.976 mg/L	0.0208	1.976 mg/L	0.0208	1.05%
As 188.979†	2808.2	1.997 mg/L	0.0153	1.997 mg/L	0.0153	0.77%
B 249.677†	5757.6	0.9899 mg/L	0.01441	0.9899 mg/L	0.01441	1.46%
Ba 233.527†	6675.3	0.9645 mg/L	0.01542	0.9645 mg/L	0.01542	1.60%
Be 313.042†	872555.4	0.9627 mg/L	0.00469	0.9627 mg/L	0.00469	0.49%
Ca 317.933†	24021.9	2.116 mg/L	0.0311	2.116 mg/L	0.0311	1.47%
Cd 228.802†	27745.4	0.9965 mg/L	0.01427	0.9965 mg/L	0.01427	1.43%
Co 228.616†	31657.7	0.9719 mg/L	0.01378	0.9719 mg/L	0.01378	1.42%
Cr 267.716†	7692.4	0.9948 mg/L	0.01561	0.9948 mg/L	0.01561	1.57%
Cu 324.752†	230319.4	0.9949 mg/L	0.01167	0.9949 mg/L	0.01167	1.17%
Fe 273.955†	2443.9	1.970 mg/L	0.0331	1.970 mg/L	0.0331	1.68%
K 766.490†	38069.2	20.58 mg/L	0.099	20.58 mg/L	0.099	0.48%
Mg 279.077†	2217.2	1.955 mg/L	0.0061	1.955 mg/L	0.0061	0.31%
Mn 257.610†	45621.0	0.9542 mg/L	0.01222	0.9542 mg/L	0.01222	1.28%
Mo 202.031†	15624.4	0.9805 mg/L	0.00608	0.9805 mg/L	0.00608	0.62%
Na 589.592†	631213.2	48.41 mg/L	0.236	48.41 mg/L	0.236	0.49%
Na 330.237†	1288.7	49.71 mg/L	0.504	49.71 mg/L	0.504	1.01%
Ni 231.604†	3477.9	0.9770 mg/L	0.00941	0.9770 mg/L	0.00941	0.96%
Pb 220.353†	15813.6	1.925 mg/L	0.0305	1.925 mg/L	0.0305	1.58%
Sb 206.836†	5033.4	2.005 mg/L	0.0133	2.005 mg/L	0.0133	0.66%
Se 196.026†	2374.6	1.964 mg/L	0.0139	1.964 mg/L	0.0139	0.71%
Si 288.158†	3376.8	1.937 mg/L	0.0335	1.937 mg/L	0.0335	1.73%
Sn 189.927†	4742.4	0.9645 mg/L	0.00476	0.9645 mg/L	0.00476	0.49%
Sr 421.552†	907882.8	0.9902 mg/L	0.00375	0.9902 mg/L	0.00375	0.38%
Ti 334.903†	26876.5	0.9555 mg/L	0.00418	0.9555 mg/L	0.00418	0.44%
Tl 190.801†	3186.0	1.931 mg/L	0.0081	1.931 mg/L	0.0081	0.42%
V 292.402†	160280.6	0.9904 mg/L	0.01062	0.9904 mg/L	0.01062	1.07%
Zn 206.200†	3854.0	0.9902 mg/L	0.01293	0.9902 mg/L	0.01293	1.31%

Sequence No.: 72

Autosampler Location: 1

Sample ID: CB 8

Date Collected: 3/22/2011 4:03:43 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	209.0 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	2503580.8	103.1 %		0.16			0.15%
ScR 361.383	415780.8	103.8 %		0.43			0.41%
Ag 328.068†	-24.1	-0.00013 mg/L		0.000080	-0.00013 mg/L	0.000080	62.93%
Al 308.215†	-17.2	-0.01238 mg/L		0.007394	-0.01238 mg/L	0.007394	59.73%
As 188.979†	-1.3	-0.00091 mg/L		0.001241	-0.00091 mg/L	0.001241	136.12%
B 249.677†	-1.7	-0.00030 mg/L		0.000696	-0.00030 mg/L	0.000696	234.18%
Ba 233.527†	-2.9	-0.00042 mg/L		0.000280	-0.00042 mg/L	0.000280	67.20%
Be 313.042†	34.0	0.00004 mg/L		0.000031	0.00004 mg/L	0.000031	84.02%
Ca 317.933†	1.4	0.00012 mg/L		0.000681	0.00012 mg/L	0.000681	562.66%
Cd 228.802†	0.2	0.00001 mg/L		0.000082	0.00001 mg/L	0.000082	730.93%
Co 228.616†	-2.6	-0.00008 mg/L		0.000124	-0.00008 mg/L	0.000124	153.77%
Cr 267.716†	3.1	0.00040 mg/L		0.001534	0.00040 mg/L	0.001534	385.35%
Cu 324.752†	110.5	0.00048 mg/L		0.000130	0.00048 mg/L	0.000130	27.18%
Fe 273.955†	3.8	0.00307 mg/L		0.001328	0.00307 mg/L	0.001328	43.29%
K 766.490†	192.9	0.1043 mg/L		0.01964	0.1043 mg/L	0.01964	18.83%
Mg 279.077†	-10.7	-0.00941 mg/L		0.004841	-0.00941 mg/L	0.004841	51.46%
Mn 257.610†	-0.5	-0.00001 mg/L		0.000101	-0.00001 mg/L	0.000101	977.32%
Mo 202.031†	23.6	0.00148 mg/L		0.000650	0.00148 mg/L	0.000650	43.84%
Na 589.592†	-13.2	-0.00101 mg/L		0.002641	-0.00101 mg/L	0.002641	261.87%
Na 330.237†	-21.6	-0.8332 mg/L		0.08892	-0.8332 mg/L	0.08892	10.67%
Ni 231.604†	2.2	0.00061 mg/L		0.000831	0.00061 mg/L	0.000831	135.80%
Pb 220.353†	-9.0	-0.00110 mg/L		0.000203	-0.00110 mg/L	0.000203	18.44%
Sb 206.836†	7.9	0.00313 mg/L		0.002050	0.00313 mg/L	0.002050	65.58%
Se 196.026†	-2.3	-0.00191 mg/L		0.002385	-0.00191 mg/L	0.002385	124.60%
Si 288.158†	7.8	0.00444 mg/L		0.003709	0.00444 mg/L	0.003709	83.46%
Sn 189.927†	0.9	0.00018 mg/L		0.000422	0.00018 mg/L	0.000422	228.68%
Sr 421.552†	-16.2	-0.00002 mg/L		0.000030	-0.00002 mg/L	0.000030	171.40%
Ti 334.903†	1.8	0.00006 mg/L		0.000313	0.00006 mg/L	0.000313	490.10%
Tl 190.801†	2.3	0.00140 mg/L		0.001991	0.00140 mg/L	0.001991	142.72%
V 292.402†	9.2	0.00006 mg/L		0.000117	0.00006 mg/L	0.000117	196.97%
Zn 206.200†	0.6	0.00015 mg/L		0.000249	0.00015 mg/L	0.000249	165.74%

Sequence No.: 73

Autosampler Location: 357

Sample ID: SN63 MB1 SWC

Date Collected: 3/22/2011 4:07:39 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 MB1 SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN63 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2498328.3	102.9 %		1.42			1.38%
ScR 361.383	423002.9	105.6 %		1.24			1.18%
Ag 328.068†	-13.3	-0.00007 mg/L		0.000116	-0.00014 mg/L	0.000232	166.83%
Al 308.215†	2.3	0.00168 mg/L		0.008401	0.00336 mg/L	0.016803	499.43%
As 188.979†	2.9	0.00208 mg/L		0.001271	0.00416 mg/L	0.002543	61.19%
B 249.677†	-2.7	-0.00047 mg/L		0.000825	-0.00094 mg/L	0.001651	176.51%
Ba 233.527†	-0.3	-0.00005 mg/L		0.001008	-0.00009 mg/L	0.002016	>999.9%
Be 313.042†	2.5	0.00000 mg/L		0.000011	0.00001 mg/L	0.000022	389.91%
Ca 317.933†	36.5	0.00321 mg/L		0.000367	0.00642 mg/L	0.000733	11.41%
Cd 228.802†	0.3	0.00001 mg/L		0.000225	0.00001 mg/L	0.000450	>999.9%
Co 228.616†	-2.0	-0.00006 mg/L		0.000070	-0.00013 mg/L	0.000140	111.60%
Cr 267.716†	2.3	0.00030 mg/L		0.000231	0.00059 mg/L	0.000462	77.65%
Cu 324.752†	141.1	0.00061 mg/L		0.000045	0.00122 mg/L	0.000090	7.37%
Fe 273.955†	5.5	0.00447 mg/L		0.001219	0.00895 mg/L	0.002438	27.25%
K 766.490†	186.1	0.1006 mg/L		0.01872	0.2012 mg/L	0.03745	18.61%
Mg 279.077†	0.8	0.00074 mg/L		0.001271	0.00147 mg/L	0.002542	172.45%
Mn 257.610†	1.3	0.00003 mg/L		0.000060	0.00005 mg/L	0.000119	229.80%
Mo 202.031†	1.3	0.00008 mg/L		0.000056	0.00017 mg/L	0.000112	66.80%
Na 589.592†	53.4	0.00410 mg/L		0.005740	0.00819 mg/L	0.011479	140.11%
Na 330.237†	-20.5	-0.7903 mg/L		0.18954	-1.581 mg/L	0.3791	23.98%
Ni 231.604†	1.4	0.00039 mg/L		0.000625	0.00078 mg/L	0.001249	159.24%
Pb 220.353†	-7.6	-0.00092 mg/L		0.000727	-0.00184 mg/L	0.001454	78.89%
Sb 206.836†	-3.2	-0.00126 mg/L		0.002311	-0.00253 mg/L	0.004623	182.76%
Se 196.026†	2.6	0.00214 mg/L		0.002857	0.00427 mg/L	0.005714	133.69%
Si 288.158†	5.1	0.00289 mg/L		0.004139	0.00578 mg/L	0.008279	143.21%
Sn 189.927†	-0.1	-0.00002 mg/L		0.000594	-0.00004 mg/L	0.001187	>999.9%
Sr 421.552†	-22.4	-0.00002 mg/L		0.000035	-0.00005 mg/L	0.000070	142.44%
Ti 334.903†	1.7	0.00006 mg/L		0.000809	0.00012 mg/L	0.001617	>999.9%
Tl 190.801†	0.8	0.00048 mg/L		0.000782	0.00097 mg/L	0.001564	161.36%
V 292.402†	6.2	0.00004 mg/L		0.000049	0.00008 mg/L	0.000099	124.85%
Zn 206.200†	1.0	0.00027 mg/L		0.000213	0.00053 mg/L	0.000425	79.93%

SN54 : 00679

Sequence No.: 74  
Sample ID: SN20 D SWC

Autosampler Location: 358  
Date Collected: 3/22/2011 4:11:35 PM  
Data Type: Original

Dilution: 5X

## Nebulizer Parameters: SN20 D SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

## Mean Data: SN20 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2480160.2	102.1 %	1.15			1.13%
ScR 361.383	413848.4	103.3 %	1.66			1.61%
Ag 328.068†	724.1	0.00348 mg/L	0.000133	0.01741 mg/L	0.000665	3.82%
Al 308.215†	79165.7	56.91 mg/L	0.234	284.6 mg/L	1.17	0.41%
As 188.979†	2534.9	1.812 mg/L	0.0246	9.062 mg/L	0.1231	1.36%
B 249.677†	634.3	0.1089 mg/L	0.00186	0.5447 mg/L	0.00930	1.71%
Ba 233.527†	8321.3	1.189 mg/L	0.0226	5.943 mg/L	0.1128	1.90%
Be 313.042†	1887.7	0.00198 mg/L	0.000056	0.00988 mg/L	0.000278	2.82%
Ca 317.933†	893549.7	78.73 mg/L	0.182	393.6 mg/L	0.91	0.23%
Cd 228.802†	377.6	0.00720 mg/L	0.000190	0.03601 mg/L	0.000951	2.64%
Co 228.616†	4960.6	0.1477 mg/L	0.00210	0.7387 mg/L	0.01052	1.42%
Cr 267.716†	1682.8	0.2243 mg/L	0.00513	1.121 mg/L	0.0256	2.29%
Cu 324.752†	741677.0	3.214 mg/L	0.0144	16.07 mg/L	0.072	0.45%
Fe 273.955†	272294.7	220.1 mg/L	0.84	1100 mg/L	4.2	0.38%
K 766.490†	14353.4	7.760 mg/L	0.0196	38.80 mg/L	0.098	0.25%
Mg 279.077†	36232.8	31.79 mg/L	0.115	158.9 mg/L	0.57	0.36%
Mn 257.610†	92893.5	1.944 mg/L	0.0100	9.718 mg/L	0.0499	0.51%
Mo 202.031†	1625.1	0.1005 mg/L	0.00151	0.5026 mg/L	0.00755	1.50%
Na 589.592†	303863.0	23.31 mg/L	0.090	116.5 mg/L	0.45	0.38%
Na 330.237†	674.5	24.69 mg/L	0.161	123.4 mg/L	0.80	0.65%
Ni 231.604†	314.9	0.08852 mg/L	0.002423	0.4426 mg/L	0.01211	2.74%
Pb 220.353†	15644.9	1.898 mg/L	0.0274	9.490 mg/L	0.1372	1.45%
Sb 206.836†	680.8	0.2751 mg/L	0.00495	1.375 mg/L	0.0248	1.80%
Se 196.026†	40.4	0.01875 mg/L	0.002264	0.09375 mg/L	0.011320	12.07%
Si 288.158†	1727.0	0.9919 mg/L	0.01880	4.960 mg/L	0.0940	1.90%
Sn 189.927†	815.8	0.1876 mg/L	0.00342	0.9379 mg/L	0.01711	1.82%
Sr 421.552†	278995.4	0.3043 mg/L	0.00080	1.521 mg/L	0.0040	0.26%
Ti 334.903†	79153.3	2.805 mg/L	0.0099	14.03 mg/L	0.050	0.35%
Tl 190.801†	-41.8	0.00404 mg/L	0.002096	0.02020 mg/L	0.010478	51.88%
V 292.402†	32553.0	0.1817 mg/L	0.00161	0.9087 mg/L	0.00807	0.89%
Zn 206.200†	33275.4	8.551 mg/L	0.1635	42.76 mg/L	0.817	1.91%

Sequence No.: 75  
Sample ID: SN54 H SWC

Autosampler Location: 359  
Date Collected: 3/22/2011 4:15:17 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN54 H SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN54 H SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2501696.5	103.0	%	0.49			0.48%
ScR 361.383	426778.8	106.6	%	0.42			0.39%
Ag 328.068†	39.8	0.00003	mg/L	0.000208	0.00005 mg/L	0.000416	784.18%
Al 308.215†	99473.1	71.51	mg/L	0.263	143.0 mg/L	0.53	0.37%
As 188.979†	29.0	0.05830	mg/L	0.002794	0.1166 mg/L	0.00559	4.79%
B 249.677†	48.8	0.00826	mg/L	0.001041	0.01651 mg/L	0.002083	12.61%
Ba 233.527†	2314.6	0.3286	mg/L	0.00463	0.6572 mg/L	0.00925	1.41%
Be 313.042†	1010.2	0.00098	mg/L	0.000015	0.00197 mg/L	0.000029	1.47%
Ca 317.933†	348671.7	30.72	mg/L	0.066	61.44 mg/L	0.133	0.22%
Cd 228.802†	41.1	0.00157	mg/L	0.000114	0.00314 mg/L	0.000228	7.25%
Co 228.616†	1985.0	0.05287	mg/L	0.000365	0.1057 mg/L	0.00073	0.69%
Cr 267.716†	1380.1	0.1797	mg/L	0.00159	0.3594 mg/L	0.00318	0.89%
Cu 324.752†	56744.7	0.2480	mg/L	0.00086	0.4961 mg/L	0.00171	0.35%
Fe 273.955†	112568.2	90.99	mg/L	0.289	182.0 mg/L	0.58	0.32%
K 766.490†	7699.1	4.162	mg/L	0.0221	8.325 mg/L	0.0442	0.53%
Mg 279.077†	40779.2	35.84	mg/L	0.105	71.69 mg/L	0.210	0.29%
Mn 257.610†	63581.0	1.329	mg/L	0.0025	2.659 mg/L	0.0051	0.19%
Mo 202.031†	77.3	0.00428	mg/L	0.000309	0.00856 mg/L	0.000617	7.21%
Na 589.592†	21568.3	1.654	mg/L	0.0043	3.309 mg/L	0.0086	0.26%
Na 330.237†	3.6	1.740	mg/L	0.2960	3.479 mg/L	0.5920	17.01%
Ni 231.604†	958.9	0.2690	mg/L	0.00559	0.5381 mg/L	0.01119	2.08%
Pb 220.353†	1556.0	0.1980	mg/L	0.00027	0.3959 mg/L	0.00053	0.13%
Sb 206.836†	0.4	0.00665	mg/L	0.001604	0.01331 mg/L	0.003209	24.11%
Se 196.026†	36.4	0.02241	mg/L	0.006160	0.04482 mg/L	0.012320	27.49%
Si 288.158†	2120.0	1.217	mg/L	0.0153	2.434 mg/L	0.0307	1.26%
Sn 189.927†	-76.0	-0.00553	mg/L	0.000733	-0.01106 mg/L	0.001466	13.26%
Sr 421.552†	156410.8	0.1706	mg/L	0.00027	0.3412 mg/L	0.00055	0.16%
Ti 334.903†	139988.5	4.981	mg/L	0.0090	9.961 mg/L	0.0180	0.18%
Tl 190.801†	-20.9	-0.00097	mg/L	0.003133	-0.00195 mg/L	0.006265	322.04%
V 292.402†	39485.9	0.2332	mg/L	0.00080	0.4665 mg/L	0.00160	0.34%
Zn 206.200†	1225.8	0.3150	mg/L	0.00319	0.6300 mg/L	0.00639	1.01%

SN54 : 00681

Sequence No.: 76

Sample ID: SN63 B SWC

Autosampler Location: 360

Date Collected: 3/22/2011 4:19:12 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 B SWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN63 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2490322.0	102.6	%	0.50				0.49%
ScR 361.383	418003.8	104.4	%	0.82				0.78%
Ag 328.068†	346.1	0.00156	mg/L	0.000102	0.00311	mg/L	0.000204	6.54%
Al 308.215†	96470.1	69.35	mg/L	0.114	138.7	mg/L	0.23	0.16%
As 188.979†	566.1	0.4429	mg/L	0.00059	0.8859	mg/L	0.00118	0.13%
B 249.677†	335.9	0.05779	mg/L	0.001411	0.1156	mg/L	0.00282	2.44%
Ba 233.527†	2410.5	0.3367	mg/L	0.00339	0.6734	mg/L	0.00678	1.01%
Be 313.042†	998.5	0.00095	mg/L	0.000027	0.00190	mg/L	0.000054	2.86%
Ca 317.933†	406544.7	35.82	mg/L	0.052	71.64	mg/L	0.104	0.15%
Cd 228.802†	138.3	0.00365	mg/L	0.000160	0.00731	mg/L	0.000320	4.37%
Co 228.616†	1842.4	0.04759	mg/L	0.000120	0.09518	mg/L	0.000241	0.25%
Cr 267.716†	2196.9	0.2894	mg/L	0.00345	0.5788	mg/L	0.00689	1.19%
Cu 324.752†	348888.6	1.514	mg/L	0.0042	3.029	mg/L	0.0085	0.28%
Fe 273.955†	221845.7	179.3	mg/L	0.56	358.6	mg/L	1.12	0.31%
K 766.490†	14751.1	7.975	mg/L	0.0276	15.95	mg/L	0.055	0.35%
Mg 279.077†	38937.2	34.18	mg/L	0.050	68.37	mg/L	0.101	0.15%
Mn 257.610†	83202.0	1.741	mg/L	0.0026	3.481	mg/L	0.0052	0.15%
Mo 202.031†	1662.7	0.1037	mg/L	0.00066	0.2074	mg/L	0.00131	0.63%
Na 589.592†	343133.5	26.32	mg/L	0.093	52.64	mg/L	0.186	0.35%
Na 330.237†	689.9	27.83	mg/L	0.223	55.65	mg/L	0.447	0.80%
Ni 231.604†	617.5	0.1733	mg/L	0.00214	0.3467	mg/L	0.00428	1.24%
Pb 220.353†	17917.6	2.182	mg/L	0.0077	4.363	mg/L	0.0154	0.35%
Sb 206.836†	282.2	0.1212	mg/L	0.00047	0.2425	mg/L	0.00094	0.39%
Se 196.026†	29.1	0.01571	mg/L	0.007539	0.03142	mg/L	0.015079	47.99%
Si 288.158†	3245.6	1.861	mg/L	0.0158	3.722	mg/L	0.0316	0.85%
Sn 189.927†	1101.6	0.2350	mg/L	0.00132	0.4701	mg/L	0.00265	0.56%
Sr 421.552†	259547.0	0.2831	mg/L	0.00043	0.5661	mg/L	0.00086	0.15%
Ti 334.903†	156136.1	5.555	mg/L	0.0086	11.11	mg/L	0.017	0.16%
Tl 190.801†	-41.2	-0.00105	mg/L	0.002092	-0.00210	mg/L	0.004183	199.67%
V 292.402†	46550.1	0.2697	mg/L	0.00079	0.5394	mg/L	0.00158	0.29%
Zn 206.200†	9288.6	2.387	mg/L	0.0244	4.774	mg/L	0.0488	1.02%

SN54 : 00682

Sequence No.: 77  
 Sample ID: SN63 C SWC

Autosampler Location: 361  
 Date Collected: 3/22/2011 4:22:54 PM  
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 C SWC

Analyte Back Pressure Flow  
 All 209.0 kPa 0.75 L/min

Mean Data: SN63 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2513139.6	103.5	%	0.16				0.16%
ScR 361.383	421548.5	105.3	%	1.39				1.32%
Ag 328.068†	136.5	0.00065	mg/L	0.000011	0.00130	mg/L	0.000022	1.67%
Al 308.215†	101064.4	72.66	mg/L	1.172	145.3	mg/L	2.34	1.61%
As 188.979†	172.7	0.1629	mg/L	0.00472	0.3258	mg/L	0.00944	2.90%
B 249.677†	776.6	0.1337	mg/L	0.00183	0.2673	mg/L	0.00366	1.37%
Ba 233.527†	1639.6	0.2303	mg/L	0.00378	0.4607	mg/L	0.00757	1.64%
Be 313.042†	1060.7	0.00098	mg/L	0.000045	0.00196	mg/L	0.000090	4.60%
Ca 317.933†	366118.6	32.26	mg/L	0.613	64.51	mg/L	1.226	1.90%
Cd 228.802†	62.5	0.00186	mg/L	0.000149	0.00372	mg/L	0.000298	8.01%
Co 228.616†	1465.0	0.03637	mg/L	0.000435	0.07274	mg/L	0.000871	1.20%
Cr 267.716†	1014.2	0.1336	mg/L	0.00181	0.2672	mg/L	0.00362	1.36%
Cu 324.752†	70386.8	0.3074	mg/L	0.00264	0.6148	mg/L	0.00527	0.86%
Fe 273.955†	124263.4	100.4	mg/L	1.81	200.9	mg/L	3.61	1.80%
K 766.490†	15825.8	8.556	mg/L	0.1137	17.11	mg/L	0.227	1.33%
Mg 279.077†	26568.9	23.34	mg/L	0.455	46.67	mg/L	0.909	1.95%
Mn 257.610†	37287.3	0.7798	mg/L	0.01451	1.560	mg/L	0.0290	1.86%
Mo 202.031†	621.5	0.03841	mg/L	0.000195	0.07681	mg/L	0.000390	0.51%
Na 589.592†	404178.4	31.00	mg/L	0.562	62.00	mg/L	1.124	1.81%
Na 330.237†	801.8	32.59	mg/L	0.601	65.18	mg/L	1.201	1.84%
Ni 231.604†	269.7	0.07567	mg/L	0.001582	0.1513	mg/L	0.00316	2.09%
Pb 220.353†	2340.0	0.2929	mg/L	0.00115	0.5857	mg/L	0.00230	0.39%
Sb 206.836†	-3.6	0.00644	mg/L	0.001995	0.01288	mg/L	0.003990	30.96%
Se 196.026†	27.3	0.01572	mg/L	0.002005	0.03143	mg/L	0.004010	12.76%
Si 288.158†	4085.4	2.340	mg/L	0.0606	4.680	mg/L	0.1213	2.59%
Sn 189.927†	-39.4	0.00242	mg/L	0.000142	0.00484	mg/L	0.000284	5.86%
Sr 421.552†	330564.9	0.3605	mg/L	0.00611	0.7211	mg/L	0.01223	1.70%
Ti 334.903†	149928.3	5.334	mg/L	0.0985	10.67	mg/L	0.197	1.85%
Tl 190.801†	-23.8	-0.00147	mg/L	0.003140	-0.00293	mg/L	0.006279	214.13%
V 292.402†	57512.4	0.3428	mg/L	0.00359	0.6856	mg/L	0.00718	1.05%
Zn 206.200†	1478.6	0.3800	mg/L	0.00844	0.7600	mg/L	0.01689	2.22%



Sequence No.: 78  
Sample ID: SN63 ADUP SWC

Autosampler Location: 362  
Date Collected: 3/22/2011 4:26:50 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 ADUP SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SN63 ADUP SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2556462.4	105.3	%	0.19			0.18%
ScR 361.383	427481.0	106.7	%	1.09			1.02%
Ag 328.068†	1172.5	0.00573	mg/L	0.000287	0.01145	0.000573	5.00%
Al 308.215†	154422.3	111.0	mg/L	1.89	222.0	3.78	1.70%
As 188.979†	2409.7	1.753	mg/L	0.0071	3.506	0.0142	0.41%
B 249.677†	844.0	0.1451	mg/L	0.00261	0.2902	0.00521	1.80%
Ba 233.527†	24737.1	3.553	mg/L	0.0436	7.106	0.0871	1.23%
Be 313.042†	1650.4	0.00161	mg/L	0.000018	0.00321	0.000037	1.15%
Ca 317.933†	1088887.8	95.94	mg/L	1.504	191.9	3.01	1.57%
Cd 228.802†	464.9	0.01078	mg/L	0.000229	0.02156	0.000457	2.12%
Co 228.616†	4583.1	0.1294	mg/L	0.00071	0.2588	0.00142	0.55%
Cr 267.716†	4366.4	0.5756	mg/L	0.00747	1.151	0.0149	1.30%
Cu 324.752†	1137866.6	4.931	mg/L	0.0207	9.862	0.0414	0.42%
Fe 273.955†	438409.7	354.4	mg/L	6.02	708.7	12.05	1.70%
K 766.490†	21756.0	11.76	mg/L	0.153	23.52	0.306	1.30%
Mg 279.077†	63356.8	55.59	mg/L	0.869	111.2	1.74	1.56%
Mn 257.610†	131755.0	2.757	mg/L	0.0417	5.514	0.0835	1.51%
Mo 202.031†	2664.5	0.1654	mg/L	0.00056	0.3309	0.00111	0.34%
Na 589.592†	449696.4	34.49	mg/L	0.536	68.98	1.072	1.55%
Na 330.237†	943.0	36.81	mg/L	0.384	73.62	0.767	1.04%
Ni 231.604†	868.9	0.2440	mg/L	0.00293	0.4880	0.00587	1.20%
Pb 220.353†	24313.5	2.954	mg/L	0.0124	5.908	0.0249	0.42%
Sb 206.836†	918.1	0.3775	mg/L	0.00438	0.7550	0.00877	1.16%
Se 196.026†	42.6	0.01591	mg/L	0.010749	0.03181	0.021499	67.58%
Si 288.158†	2637.0	1.515	mg/L	0.0135	3.031	0.0270	0.89%
Sn 189.927†	2997.1	0.6362	mg/L	0.00273	1.272	0.0055	0.43%
Sr 421.552†	453817.4	0.4949	mg/L	0.00781	0.9899	0.01563	1.58%
Ti 334.903†	186335.3	6.620	mg/L	0.1024	13.24	0.205	1.55%
Tl 190.801†	-79.9	-0.00113	mg/L	0.004528	-0.00227	0.009056	399.21%
V 292.402†	65344.7	0.3718	mg/L	0.00190	0.7436	0.00379	0.51%
Zn 206.200†	25988.8	6.679	mg/L	0.0798	13.36	0.160	1.19%

28  
29

58  
46

27

Sequence No.: 79  
Sample ID: SN63 A SWC

Autosampler Location: 363  
Date Collected: 3/22/2011 4:30:34 PM  
Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SN63 A SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

## Mean Data: SN63 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2474815.8	101.9 %		1.01			0.99%
ScR 361.383	430634.9	107.5 %		1.53			1.43%
Ag 328.068†	1367.7	0.00671 mg/L		0.000245	0.01342 mg/L	0.000490	3.65%
Al 308.215†	149351.1	107.4 mg/L		1.06	214.7 mg/L	2.11	0.98%
As 188.979†	3356.5	2.419 mg/L		0.0336	4.838 mg/L	0.0673	1.39%
B 249.677†	868.1	0.1492 mg/L		0.00180	0.2985 mg/L	0.00359	1.20%
Ba 233.527†	30313.0	4.358 mg/L		0.0192	8.716 mg/L	0.0385	0.44%
Be 313.042†	1763.3	0.00173 mg/L		0.000022	0.00346 mg/L	0.000045	1.29%
Ca 317.933†	1120585.6	98.73 mg/L		1.051	197.5 mg/L	2.10	1.06%
Cd 228.802†	573.3	0.01240 mg/L		0.000119	0.02479 mg/L	0.000238	0.96%
Co 228.616†	5914.2	0.1710 mg/L		0.00312	0.3420 mg/L	0.00624	1.82%
Cr 267.716†	5785.6	0.7599 mg/L		0.00316	1.520 mg/L	0.0063	0.42%
Cu 324.752†	2337072.3	10.11 mg/L		0.081	20.23 mg/L	0.162	0.80%
Fe 273.955†	465111.2	375.9 mg/L		3.68	751.9 mg/L	7.36	0.98%
K 766.490†	22405.0	12.11 mg/L		0.147	24.23 mg/L	0.293	1.21%
Mg 279.077†	67128.1	58.90 mg/L		0.655	117.8 mg/L	1.31	1.11%
Mn 257.610†	139802.9	2.926 mg/L		0.0317	5.852 mg/L	0.0634	1.08%
Mo 202.031†	3992.0	0.2487 mg/L		0.00549	0.4974 mg/L	0.01098	2.21%
Na 589.592†	442935.1	33.97 mg/L		0.322	67.94 mg/L	0.644	0.95%
Na 330.237†	950.6	36.38 mg/L		0.347	72.76 mg/L	0.694	0.95%
Ni 231.604†	1574.3	0.4420 mg/L		0.00206	0.8840 mg/L	0.00412	0.47%
Pb 220.353†	38807.4	4.709 mg/L		0.0652	9.419 mg/L	0.1305	1.39%
Sb 206.836†	1194.7	0.4853 mg/L		0.00455	0.9707 mg/L	0.00910	0.94%
Se 196.026†	42.7	0.01527 mg/L		0.015220	0.03055 mg/L	0.030440	99.65%
Si 288.158†	2424.6	1.395 mg/L		0.0110	2.789 mg/L	0.0219	0.79%
Sn 189.927†	3246.9	0.6875 mg/L		0.01159	1.375 mg/L	0.0232	1.69%
Sr 421.552†	458833.9	0.5004 mg/L		0.00491	1.001 mg/L	0.0098	0.98%
Ti 334.903†	171151.1	6.078 mg/L		0.0590	12.16 mg/L	0.118	0.97%
Tl 190.801†	-79.9	0.00195 mg/L		0.005583	0.00390 mg/L	0.011165	286.28%
V 292.402†	65267.2	0.3708 mg/L		0.00295	0.7417 mg/L	0.00589	0.79%
Zn 206.200†	33995.4	8.736 mg/L		0.0334	17.47 mg/L	0.067	0.38%

SN54 : 00685

Sequence No.: 80  
 Sample ID: SN63 ASPK SWC

Autosampler Location: 364  
 Date Collected: 3/22/2011 4:33:34 PM  
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: SN63 ASPK SWC

Analyte Back Pressure Flow  
 All 209.0 kPa 0.75 L/min

*rem*

Mean Data: SN63 ASPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2507758.9	103.3 %	0.38			0.37%
ScR 361.383	421384.5	105.2 %	0.98			0.93%
Ag 328.068†	93093.9	0.4873 mg/L	0.00127	0.9746 mg/L	0.00253	0.26%
Al 308.215†	151468.7	108.9 mg/L	0.91	217.8 mg/L	1.81	0.83%
As 188.979†	5132.9	3.679 mg/L	0.0227	7.358 mg/L	0.0453	0.62%
B 249.677†	768.0	0.1309 mg/L	0.00138	0.2619 mg/L	0.00275	1.05%
Ba 233.527†	29369.9	4.223 mg/L	0.0519	8.446 mg/L	0.1038	1.23%
Be 313.042†	433614.0	0.4782 mg/L	0.00356	0.9565 mg/L	0.00712	0.74%
Ca 317.933†	1416371.9	124.8 mg/L	1.13	249.6 mg/L	2.26	0.91%
Cd 228.802†	14410.5	0.5083 mg/L	0.00376	1.017 mg/L	0.0075	0.74%
Co 228.616†	19679.5	0.5937 mg/L	0.00428	1.187 mg/L	0.0086	0.72%
Cr 267.716†	7363.4	0.9622 mg/L	0.01091	1.924 mg/L	0.0218	1.13%
Cu 324.752†	1185455.0	5.137 mg/L	0.0152	10.27 mg/L	0.030	0.30%
Fe 273.955†	437502.1	353.6 mg/L	3.16	707.3 mg/L	6.32	0.89%
K 766.490†	41911.4	22.66 mg/L	0.132	45.32 mg/L	0.264	0.58%
Mg 279.077†	73700.0	64.70 mg/L	0.526	129.4 mg/L	1.05	0.81%
Mn 257.610†	152371.6	3.188 mg/L	0.0295	6.377 mg/L	0.0590	0.92%
Mo 202.031†	2690.3	0.1665 mg/L	0.00117	0.3330 mg/L	0.00235	0.70%
Na 589.592†	597178.7	45.80 mg/L	0.406	91.61 mg/L	0.813	0.89%
Na 330.237†	1248.3	48.51 mg/L	0.751	97.02 mg/L	1.502	1.55%
Ni 231.604†	2579.5	0.7239 mg/L	0.00454	1.448 mg/L	0.0091	0.63%
Pb 220.353†	38709.6	4.705 mg/L	0.0367	9.411 mg/L	0.0734	0.78%
Sb 206.836†	720.9	0.2970 mg/L	0.00948	0.5940 mg/L	0.01896	3.19%
Se 196.026†	2433.3	1.988 mg/L	0.0302	3.977 mg/L	0.0604	1.52%
Si 288.158†	2910.0	1.675 mg/L	0.0357	3.349 mg/L	0.0713	2.13%
Sn 189.927†	3102.8	0.6652 mg/L	0.00656	1.330 mg/L	0.0131	0.99%
Sr 421.552†	1035239.4	1.129 mg/L	0.0086	2.258 mg/L	0.0172	0.76%
Ti 334.903†	181938.5	6.458 mg/L	0.0572	12.92 mg/L	0.114	0.89%
Tl 190.801†	2856.1	1.776 mg/L	0.0148	3.553 mg/L	0.0296	0.83%
V 292.402†	139601.9	0.8303 mg/L	0.00250	1.661 mg/L	0.0050	0.30%
Zn 206.200†	26099.6	6.707 mg/L	0.0935	13.41 mg/L	0.187	1.39%

41  
0.5%

57  
0

0  
5%

Sequence No.: 81

Sample ID: SN63 APOST SWC

Autosampler Location: 365

Date Collected: 3/22/2011 4:35:48 PM

Data Type: Original

Dilution: 2X

*222222  
3.22*

Nebulizer Parameters: SN63 APOST SWC

Analyte	Back Pressure	Flow
All	210.0 kPa	0.75 L/min

Mean Data: SN63 APOST SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2474545.2	101.9 %	0.59			0.58%
ScR 361.383	417543.4	104.3 %	0.40			0.38%
Ag 328.068†	93015.3	0.4868 mg/L	0.00349	0.9737 mg/L	0.00698	0.72%
Al 308.215†	154402.8	111.0 mg/L	0.36	222.0 mg/L	0.71	0.32%
As 188.979†	6191.5	4.428 mg/L	0.0468	8.856 mg/L	0.0936	1.06%
B 249.677†	874.9	0.1493 mg/L	0.00099	0.2986 mg/L	0.00198	0.66%
Ba 233.527†	44263.0	6.374 mg/L	0.0647	12.75 mg/L	0.129	1.01%
Be 313.042†	440097.3	0.4854 mg/L	0.00111	0.9708 mg/L	0.00223	0.23%
Ca 317.933†	1255280.4	110.6 mg/L	0.07	221.2 mg/L	0.15	0.07%
Cd 228.802†	14788.2	0.5194 mg/L	0.00555	1.039 mg/L	0.0111	1.07%
Co 228.616†	21424.2	0.6473 mg/L	0.00677	1.295 mg/L	0.0135	1.05%
Cr 267.716†	9655.2	1.260 mg/L	0.0154	2.520 mg/L	0.0308	1.22%
Cu 324.752†	2463742.3	10.66 mg/L	0.023	21.32 mg/L	0.045	0.21%
Fe 273.955†	474635.1	383.6 mg/L	0.93	767.3 mg/L	1.87	0.24%
K 766.490†	42014.4	22.71 mg/L	0.041	45.43 mg/L	0.082	0.18%
Mg 279.077†	79668.4	69.94 mg/L	0.162	139.9 mg/L	0.32	0.23%
Mn 257.610†	164119.7	3.435 mg/L	0.0089	6.869 mg/L	0.0177	0.26%
Mo 202.031†	3998.2	0.2489 mg/L	0.00278	0.4977 mg/L	0.00557	1.12%
Na 589.592†	579635.3	44.46 mg/L	0.141	88.91 mg/L	0.282	0.32%
Na 330.237†	1215.4	46.46 mg/L	0.455	92.92 mg/L	0.911	0.98%
Ni 231.604†	3267.1	0.9169 mg/L	0.00939	1.834 mg/L	0.0188	1.02%
Pb 220.353†	54272.4	6.591 mg/L	0.0456	13.18 mg/L	0.091	0.69%
Sb 206.836†	1214.6	0.4901 mg/L	0.00598	0.9802 mg/L	0.01196	1.22%
Se 196.026†	2524.2	2.065 mg/L	0.0168	4.131 mg/L	0.0336	0.81%
Si 288.158†	2421.5	1.396 mg/L	0.0178	2.792 mg/L	0.0357	1.28%
Sn 189.927†	3243.8	0.6900 mg/L	0.00140	1.380 mg/L	0.0028	0.20%
Sr 421.552†	928035.7	1.012 mg/L	0.0027	2.024 mg/L	0.0055	0.27%
Ti 334.903†	173682.4	6.166 mg/L	0.0142	12.33 mg/L	0.028	0.23%
Tl 190.801†	2917.0	1.817 mg/L	0.0210	3.635 mg/L	0.0420	1.16%
V 292.402†	142940.8	0.8501 mg/L	0.00481	1.700 mg/L	0.0096	0.57%
Zn 206.200†	36211.1	9.306 mg/L	0.1009	18.61 mg/L	0.202	1.08%

Sequence No.: 82

Autosampler Location: 366

Sample ID: SN63 MB2SPK TWC

Date Collected: 3/22/2011 4:38:04 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: SN63 MB2SPK TWC

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

Mean Data: SN63 MB2SPK TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2535846.7	104.4	%	0.57			0.55%
ScR 361.383	420362.3	105.0	%	0.54			0.51%
Ag 328.068†	98379.5	0.5154	mg/L	0.00219	0.5154 mg/L	0.00219	0.43%
Al 308.215†	2890.6	2.069	mg/L	0.0100	2.069 mg/L	0.0100	0.49%
As 188.979†	2869.6	2.033	mg/L	0.0174	2.033 mg/L	0.0174	0.85%
B 249.677†	3.7	-0.00054	mg/L	0.000411	-0.00054 mg/L	0.000411	75.43%
Ba 233.527†	14064.2	2.033	mg/L	0.0152	2.033 mg/L	0.0152	0.75%
Be 313.042†	446762.9	0.4929	mg/L	0.00679	0.4929 mg/L	0.00679	1.38%
Ca 317.933†	115903.4	10.21	mg/L	0.061	10.21 mg/L	0.061	0.59%
Cd 228.802†	14192.7	0.5061	mg/L	0.00221	0.5061 mg/L	0.00221	0.44%
Co 228.616†	16150.4	0.4961	mg/L	0.00140	0.4961 mg/L	0.00140	0.28%
Cr 267.716†	3993.8	0.5159	mg/L	0.00250	0.5159 mg/L	0.00250	0.49%
Cu 324.752†	116783.3	0.5047	mg/L	0.00237	0.5047 mg/L	0.00237	0.47%
Fe 273.955†	2582.5	2.085	mg/L	0.0133	2.085 mg/L	0.0133	0.64%
K 766.490†	19316.6	10.44	mg/L	0.020	10.44 mg/L	0.020	0.19%
Mg 279.077†	12073.9	10.63	mg/L	0.065	10.63 mg/L	0.065	0.61%
Mn 257.610†	23546.9	0.4927	mg/L	0.00403	0.4927 mg/L	0.00403	0.82%
Mo 202.031†	34.9	0.00200	mg/L	0.000183	0.00200 mg/L	0.000183	9.16%
Na 589.592†	129345.1	9.921	mg/L	0.0899	9.921 mg/L	0.0899	0.91%
Na 330.237†	265.9	10.11	mg/L	0.167	10.11 mg/L	0.167	1.65%
Ni 231.604†	1798.7	0.5047	mg/L	0.00455	0.5047 mg/L	0.00455	0.90%
Pb 220.353†	16332.2	1.988	mg/L	0.0074	1.988 mg/L	0.0074	0.37%
Sb 206.836†	12.8	0.00173	mg/L	0.001631	0.00173 mg/L	0.001631	94.32%
Se 196.026†	2498.2	2.064	mg/L	0.0168	2.064 mg/L	0.0168	0.81%
Si 288.158†	-1.0	0.00261	mg/L	0.005937	0.00261 mg/L	0.005937	227.29%
Sn 189.927†	-28.1	-0.00298	mg/L	0.000838	-0.00298 mg/L	0.000838	28.12%
Sr 421.552†	465222.4	0.5074	mg/L	0.00409	0.5074 mg/L	0.00409	0.81%
Ti 334.903†	107.2	0.00196	mg/L	0.000694	0.00196 mg/L	0.000694	35.35%
Tl 190.801†	3295.5	1.996	mg/L	0.0146	1.996 mg/L	0.0146	0.73%
V 292.402†	82308.5	0.5083	mg/L	0.00276	0.5083 mg/L	0.00276	0.54%
Zn 206.200†	1992.5	0.5121	mg/L	0.00336	0.5121 mg/L	0.00336	0.66%

Sequence No.: 83

Sample ID: CV

Autosampler Location: 7

Date Collected: 3/22/2011 4:42:00 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.75 L/min

## Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2560068.3	105.4	%	4.80				4.56%
ScR 361.383	434639.0	108.5	%	1.41				1.30%
Ag 328.068†	189358.3	0.9920	mg/L	0.03981	0.9920	mg/L	0.03981	4.01%
Al 308.215†	2745.6	1.941	mg/L	0.0028	1.941	mg/L	0.0028	0.15%
As 188.979†	2784.6	1.980	mg/L	0.0958	1.980	mg/L	0.0958	4.84%
B 249.677†	5698.8	0.9797	mg/L	0.00309	0.9797	mg/L	0.00309	0.32%
Ba 233.527†	6569.0	0.9492	mg/L	0.00411	0.9492	mg/L	0.00411	0.43%
Be 313.042†	836526.0	0.9230	mg/L	0.01776	0.9230	mg/L	0.01776	1.92%
Ca 317.933†	23782.7	2.095	mg/L	0.0049	2.095	mg/L	0.0049	0.23%
Cd 228.802†	27962.4	1.004	mg/L	0.0371	1.004	mg/L	0.0371	3.70%
Co 228.616†	31902.6	0.9795	mg/L	0.03505	0.9795	mg/L	0.03505	3.58%
Cr 267.716†	7610.1	0.9842	mg/L	0.00195	0.9842	mg/L	0.00195	0.20%
Cu 324.752†	232204.3	1.003	mg/L	0.0388	1.003	mg/L	0.0388	3.87%
Fe 273.955†	2408.5	1.942	mg/L	0.0113	1.942	mg/L	0.0113	0.58%
K 766.490†	36842.8	19.92	mg/L	0.264	19.92	mg/L	0.264	1.32%
Mg 279.077†	2228.9	1.965	mg/L	0.0041	1.965	mg/L	0.0041	0.21%
Mn 257.610†	44847.2	0.9380	mg/L	0.00429	0.9380	mg/L	0.00429	0.46%
Mo 202.031†	15407.2	0.9668	mg/L	0.04864	0.9668	mg/L	0.04864	5.03%
Na 589.592†	604707.7	46.38	mg/L	0.986	46.38	mg/L	0.986	2.13%
Na 330.237†	1267.5	48.88	mg/L	0.026	48.88	mg/L	0.026	0.05%
Ni 231.604†	3443.9	0.9674	mg/L	0.00233	0.9674	mg/L	0.00233	0.24%
Pb 220.353†	16010.6	1.949	mg/L	0.0970	1.949	mg/L	0.0970	4.97%
Sb 206.836†	4981.9	1.985	mg/L	0.1021	1.985	mg/L	0.1021	5.14%
Se 196.026†	2354.7	1.947	mg/L	0.0978	1.947	mg/L	0.0978	5.02%
Si 288.158†	3323.8	1.907	mg/L	0.0212	1.907	mg/L	0.0212	1.11%
Sn 189.927†	4696.9	0.9552	mg/L	0.04495	0.9552	mg/L	0.04495	4.71%
Sr 421.552†	871091.8	0.9500	mg/L	0.01842	0.9500	mg/L	0.01842	1.94%
Ti 334.903†	25733.9	0.9149	mg/L	0.01703	0.9149	mg/L	0.01703	1.86%
Tl 190.801†	3166.5	1.919	mg/L	0.1009	1.919	mg/L	0.1009	5.26%
V 292.402†	160617.6	0.9924	mg/L	0.04043	0.9924	mg/L	0.04043	4.07%
Zn 206.200†	3805.8	0.9778	mg/L	0.00191	0.9778	mg/L	0.00191	0.20%

Sequence No.: 84  
 Sample ID: CB

Autosampler Location: 1  
 Date Collected: 3/22/2011 4:45:14 PM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow  
 All 209.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2538899.0	104.6	%	0.28			0.27%
ScR 361.383	423975.9	105.9	%	0.18			0.17%
Ag 328.068†	18.8	0.00010	mg/L	0.000033	0.00010 mg/L	0.000033	33.74%
Al 308.215†	-0.5	-0.00035	mg/L	0.002363	-0.00035 mg/L	0.002363	666.52%
As 188.979†	-1.0	-0.00074	mg/L	0.001750	-0.00074 mg/L	0.001750	237.88%
B 249.677†	2.6	0.00044	mg/L	0.000726	0.00044 mg/L	0.000726	164.41%
Ba 233.527†	-4.0	-0.00058	mg/L	0.000486	-0.00058 mg/L	0.000486	84.11%
Be 313.042†	17.2	0.00002	mg/L	0.000013	0.00002 mg/L	0.000013	67.92%
Ca 317.933†	7.5	0.00066	mg/L	0.000691	0.00066 mg/L	0.000691	105.07%
Cd 228.802†	1.1	0.00004	mg/L	0.000126	0.00004 mg/L	0.000126	287.75%
Co 228.616†	-1.5	-0.00005	mg/L	0.000109	-0.00005 mg/L	0.000109	238.47%
Cr 267.716†	1.5	0.00020	mg/L	0.000205	0.00020 mg/L	0.000205	102.85%
Cu 324.752†	117.3	0.00051	mg/L	0.000090	0.00051 mg/L	0.000090	17.87%
Fe 273.955†	2.1	0.00172	mg/L	0.001310	0.00172 mg/L	0.001310	76.26%
K 766.490†	207.0	0.1119	mg/L	0.00704	0.1119 mg/L	0.00704	6.29%
Mg 279.077†	-2.0	-0.00171	mg/L	0.001541	-0.00171 mg/L	0.001541	89.94%
Mn 257.610†	3.1	0.00007	mg/L	0.000060	0.00007 mg/L	0.000060	92.71%
Mo 202.031†	24.2	0.00152	mg/L	0.000745	0.00152 mg/L	0.000745	49.09%
Na 589.592†	53.7	0.00412	mg/L	0.001672	0.00412 mg/L	0.001672	40.59%
Na 330.237†	-17.9	-0.6889	mg/L	0.22404	-0.6889 mg/L	0.22404	32.52%
Ni 231.604†	2.8	0.00078	mg/L	0.000902	0.00078 mg/L	0.000902	116.05%
Pb 220.353†	2.6	0.00031	mg/L	0.000090	0.00031 mg/L	0.000090	28.97%
Sb 206.836†	3.8	0.00152	mg/L	0.000594	0.00152 mg/L	0.000594	39.02%
Se 196.026†	3.0	0.00252	mg/L	0.004107	0.00252 mg/L	0.004107	163.22%
Si 288.158†	-4.4	-0.00251	mg/L	0.001531	-0.00251 mg/L	0.001531	61.11%
Sn 189.927†	-0.2	-0.00003	mg/L	0.000198	-0.00003 mg/L	0.000198	620.33%
Sr 421.552†	-13.7	-0.00001	mg/L	0.000027	-0.00001 mg/L	0.000027	183.51%
Ti 334.903†	-10.7	-0.00038	mg/L	0.000191	-0.00038 mg/L	0.000191	49.77%
Tl 190.801†	1.3	0.00080	mg/L	0.000566	0.00080 mg/L	0.000566	70.37%
V 292.402†	9.4	0.00006	mg/L	0.000094	0.00006 mg/L	0.000094	155.20%
Zn 206.200†	-0.3	-0.00007	mg/L	0.000495	-0.00007 mg/L	0.000495	726.11%

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

**ARI Job ID: SN54**



3-18-11

**TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET**

DATE: 3/17/2011  
 ANALYST: CDE 18:44

**SOLIDS**  
 (dry at 104 (12-24 hr) then combust at 550 (30 min))

**Instrumentation**  
 Drying Ovens: 12 Analytical Balance: 1123230597  
 Muffle Furnace: NA

Batch drying time		TS (%) calculated as:		TVS (mg/kg dry wt) calculated as:	
record times as mm/dd/yy hh:mm	Final dry wt (g) = (Dry Wt - Tare Wt)	Final ash wt (g) = (min ash wt - tare wt)	Final ash wt (g) = (min ash wt - tare wt)	TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000	TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
3/17/2011 18:44	CDE	if ash wt > dry wt, "Chk for Err"	if ash wt > dry wt, "Chk for Err"		
3/18/2011 10:15	CDE	if dry wt-ash wt < 0.001 g, "< (1/dry wt) *1,000,000"	if dry wt-ash wt < 0.001 g, "< (1/dry wt) *1,000,000"		
elapsed hrs = 15.5	<b>ZnOAc Preserved</b>				
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02
Date & Time	3/17/11 18:34	3/17/11 18:30	3/18/11 10:32		
Cal Wt (g)	10.0000	10.0000	10.0000		
record weights to 4 places	Cal OK!	Cal OK!	Cal OK!		
SAMPLE ID	DISH #	TARE WT (grams)	DRY WT 104C (grams)	dry Wt (g)	TS (%)
Blank	0.0000	1.0673	1.0674	0.00	
SN54 B1	5.8708	1.0683	1.6613	0.59	12.3%
SN54 B1 dup	6.0274	1.0782	1.6919	0.61	12.4%
RPD = 0.42%					RPD = NA
RPD = 0.62					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027					RPD = 12.3%
RPD = 1.0799					RPD = 12.3%
RPD = 6.1343					RPD = 12.3%
RPD = 1.7027</					



**TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET**

**SOLIDS** (dry at 104 (12-24 hr) then combust at 550 (30 min))

**DATE:** 3/22/2011 **ANALYST:** CDE/KET **Analytical Balance:** 1123230597

**Drying Ovens:** 1 **Muffle Furnace:** NA

**Batch drying time**  
 record times as mm/dd/yy hh:mm  
 3/22/2011 20:03 date/time in oven  
 3/23/2011 10:07 date/time out  
 elapsed hrs = 14.1

CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02	CV-02
3/22/11 18:47	3/23/11 10:22	10.0000	Cal OK!				
9.9997	10.0000	Cal OK!					

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 Eir"  
 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)		TVS (mg/kg) (%)
							1	2	
Blank		0.0000	1.0945	1.0945	0.00				
SN04 A3		6.2198	1.1044	3.8674	2.76	54.0%			
SN04 A3 dup		6.6574	1.1011	4.1158	3.01	54.3%			
RPD = 0.45%									
SN04 A3 tp		6.2865	1.0728	3.9061	2.83	54.3%			NA
RSD = 0.32%									
SN04 B3		6.4980	1.0716	5.0433	3.97	73.2%			NA
SN04 C3		6.4502	1.0858	4.6893	3.60	67.2%			
SN04 D3		6.2252	1.0560	3.5681	2.51	48.6%			
SN04 E3		6.5233	1.0719	4.3319	3.26	59.8%			
SN04 F3		6.7530	1.0805	5.5114	4.43	78.1%			
SN04 G3		6.4808	1.0649	3.8456	2.78	51.3%			
SN04 H3		6.6611	1.0897	4.7090	3.62	65.0%			
SN04 I3		6.1614	1.0769	4.6675	3.59	70.6%			
SN04 J2		6.6081	1.0915	5.0420	3.95	71.6%			
SN04 K3		7.0244	1.1133	4.6006	3.49	59.0%			
SN04 L3		6.6353	1.0659	5.3315	4.27	76.6%			
SN54 A2		12.0209	1.0850	2.4806	1.40	12.8%			
SN54 B2		6.5205	1.0653	1.7252	0.66	12.1%			
SN54 C2		6.0824	1.0837	1.7161	0.63	12.7%			
SN54 D1		10.2228	1.0968	1.7376	0.84	7.0%			
SN54 E1		5.0637	1.0635	1.6168	0.55	13.8%			
SN54 E1 dup		5.9300	1.0907	1.7602	0.67	13.8%			
RPD = 0.02%									
SN54 E1 tp		5.0673	1.0694	1.6233	0.55	13.9%			NA
RSD = 0.18%									
SN54 F1		6.0828	1.0766	1.6732	0.60	11.9%			NA
SN54 G1		11.4597	1.0927	1.6857	0.59	5.7%			
SN54 H1		14.4276	1.0854	6.5941	5.51	41.3%			



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analyst: <i>APZ/KET</i>		Date: 3-22-11	Oven ID: 00	Balance ID: 1123230597	
Time-in Oven: 20.03		Time Out of Oven: 3/23/11 10:07		Elapsed Time (> 12 Hrs):	
Sample ID	Dish #	Sample	TVS (mg/kg dry weight) calculated as:		
			Dry Weight 104°C	Dry Weight 550°C	Ash Weight 550°C
TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight)	CV-02	CV-02	CV-02	CV-02	CV-02
BLANK	24	Ø	1.09345	1.0945	
SNO4 B	25	6.2198	1.1044	3.8674	
A <sup>1</sup> A	26	6.6574	1.1011	4.1158	
A <sup>2</sup> A	27	6.2865	1.0728	3.9061	
B <sup>3</sup>	28	6.4980	1.0716	5.0433	
C <sup>3</sup>	29	6.4502	1.0858	4.6893	
D <sup>3</sup>	30	6.2252	1.0560	3.5881	
E <sup>3</sup>	31	6.5233	1.0719	4.3319	
F <sup>3</sup>	32	6.7530	1.0805	5.5114	
G <sup>3</sup>	33	6.4808	1.0649	3.8456	
H <sup>3</sup>	34	6.6611	1.0897	4.7090	
I <sup>3</sup>	35	6.1614	1.0769	4.6675	
J <sup>2</sup>	36	6.6081	1.0915	5.0420	
K <sup>3</sup>	37	7.0244	1.1133	4.6006	
L <sup>3</sup>	38	6.6353	1.0659	5.3315	
SNS4 A <sup>2</sup>	39	12.0209	1.0880	2.4806	
B <sup>2</sup>	40	6.5205	1.0653	1.7252	
C <sup>2</sup>	41	6.0824	1.0837	1.7161	
D <sup>1</sup>	42	4.74810	1.0968	1.7376	
E <sup>1</sup>	43	5.0637	1.0635	1.6168	
E <sup>1</sup> A	44	5.9300	1.0907	1.7602	
E <sup>1</sup> A	45	5.0673	1.0684	1.6233	

Revision 002  
12/28/09

Page 00609

Page 1 of 2

① 10.22.28  
3-22-11 *AKC*

6053F

0254 00609



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

# TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analyst: <i>[Signature]</i>		Oven ID: <i>[Signature]</i>		Balance ID: 1123230597	
Time in Oven:		Time Out of Oven:		Elapsed Time (> 12 Hrs):	
<p>Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places</p>		<p>TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight)</p>		<p>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 &gt; Dry Weight then "Check for Error" If Dry Weight - Ash Weight &lt; 0.001 &lt; (1/Dry Weight) * 1,000,000</p>	
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02
Date & Time:	<i>[Signature]</i>				
Cal Weight (10.0000):	<i>[Signature]</i>				
Sample ID	Dish #	Sample	Dry Weight 104°C	Dry Weight	Ash Weight 550°C
<del>BLANK</del>		Tare	1	grams	1
			2		2
			3		3
SN54 F1	46	6.0828	1.0766	1.6732	
G'	47	11.4597	1.0927	1.6857	
H'	49	14.4276	1.0854	1.6594	

6053F

SN54 : 00696

W  
3-25-11

TOC Solids Prep Log						DATE:	3/22/2011
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:	CDE / KET 20:03
						<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			12.9573	0.0000	12.9567	-0.6 mg	
SN04 A3		-	12.8939	18.0242	16.2328	65.08%	
SN04 A3 DUP		-	12.9214	18.5669	17.2572	76.80%	
SN04 A3 TRIP		-	12.8597	18.5823	17.3031	77.65%	
SN04 B3		+-	13.0747	19.6213	18.3084	79.95%	
SN04 C3		-	12.9723	18.4933	17.4234	80.62%	
SN04 D3		-	12.9833	18.9006	16.3145	56.30%	
SN04 E3		-	12.9980	18.6825	17.2429	74.67%	
SN04 F3		-	12.9318	18.3358	17.3996	82.68%	
SN04 G3		-	13.0059	19.4404	17.6683	72.46%	
SN04 H3		-	12.8370	19.4642	18.9152	91.72%	
SN04 I3		-	12.8996	19.3573	18.2623	83.04%	
SN04 J3		-	12.8853	18.5034	17.1465	75.85%	
SN04 K3		-	12.8698	18.2060	16.9227	75.95%	
SN04 L3		-	12.9545	18.5280	17.4951	81.47%	
SN54 A2		-	12.8768	23.7779	14.3735	13.73%	
SN54 B2		-	12.8300	18.3047	13.5215	12.63%	
SN54 C2		-	12.9075	19.2463	13.7527	13.33%	
SN54 D1		-	12.8335	23.4520	13.6525	7.71%	
SN54 E1		-	12.8934	16.8118	13.4922	15.28%	
SN54 E1 DUP		-	12.9228	17.7495	13.6613	15.30%	
SN54 E1 TRIP		-	12.9449	17.7432	13.6824	15.37%	
SN54 F1		-	12.9610	18.3816	13.6897	13.44%	
SN54 G1		-	12.8614	23.4366	13.5906	6.90%	
SN54 H1		-	13.0805	25.6102	17.2964	33.65%	



### TOC Solids Preparation Log

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

Analyst AC/KBT

Date 3-22-11

20:03

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			12.9573	∅	12.9567		
SN04 A <sup>3</sup>		-	12.8939	18.0242	16.2328		Sed. organic
A <sup>3</sup> <sub>II</sub>		-	12.9214	18.5669	17.2572		↓
A <sup>3</sup> <sub>II</sub>		-	12.8597	18.5823	17.3031		↓
B <sup>3</sup>		+ -	13.0747	19.6213	18.3084		Rockes and sand
C <sup>3</sup>		-	12.9723	18.4953	17.4234		org. sed & silt
D <sup>3</sup>		-	12.9833	18.9006	16.3145		↓
E <sup>3</sup>		-	12.9980	18.6825	17.2429		↓
F <sup>3</sup>		-	12.9318	18.3358	17.3996		Sand
G <sup>3</sup>		-	13.0059	19.4404	17.6683		org sed.
H <sup>3</sup>		-	12.8370	19.4642	18.9152		↓ +silt
I <sup>3</sup>		-	12.8996	19.3573	18.2623		↓
J <sup>3</sup>		-	12.8853	18.5034	17.1465		↓
K <sup>3</sup>		-	12.8698	18.2060	16.9227		↓
L <sup>3</sup>		-	12.9545	18.5280	17.4951	ket *st <sup>u</sup>	↓ +samel
SNS4 A <sup>2</sup>		-	12.8768	23.7779	16.1652	14.3735	Very aquatic mud
B <sup>2</sup>		-	12.8300	18.3047	16.1652	13.5215	moss (like wood pulp?)
C <sup>2</sup>		-	12.9075	19.2463	15.9251	13.7527	Sed.
D <sup>1</sup>		-	12.8335	23.4520	13.6525		Very aquatic mud
E <sup>1</sup>		-	12.8934	16.8118	13.4922		Sed.
E <sup>1</sup> <sub>II</sub>		-	12.9228	17.7495	13.6613		↓
E <sup>1</sup> <sub>II</sub>		-	12.9449	17.7432	13.6824		↓
F <sup>1</sup>		-	12.9610	18.3816	13.6897	ket *st <sup>u</sup>	↓
G <sup>1</sup>		-	12.8614	23.4366	15.9251	13.5906	Very aquatic mud
H <sup>1</sup>		-	13.0805	25.6102	17.2964		↓ & sand
3-22-11 OK							





<b>SULFIDE BENCHSHEET (Spectrophotometric, EPA 376.2)</b>		Date Time	Analyst					
Soils, sediments and solid phase samples		Distillation	3-21-11 7:55					
		Finish	3-21-11 15:01					
If distilled, specify Procedure. <u>PSEP</u>								
<b>1. Standardization of sodium thiosulfate titrant</b>		Buret used for titrations: #2						
Thiosulfate ID: <u>8134C</u>								
Bi-iodate ID: <u>560-9</u>		Titration of bi-iodate with thiosulfate						
Stock bi-iodate = <u>0.8124</u> grams to <u>1000</u> mL	mL bi-iodate =	3.000	3.000	3.000				
Normality = <u>0.025</u>	mL thiosulfate =	3.05	3.05	3.05				
Normality thiosulfate = (mL bi-iodate * normbio) / mL thiosulfate =		0.025	0.025	0.025				
		n <sub>thio</sub> = <b>0.025</b>						
<b>2. Normality of Iodine</b>		Titration of Iodine with thiosulfate						
Iodine ID: <u>8085C</u>								
		mL iodine =	3.000	3.000				
		mL thiosulfate =	3.05	3.05				
Normality iodine = (mL thiosulfate * n <sub>thio</sub> ) / mL iodine =		0.025	0.025	0.025				
		ni = <b>0.025</b>						
<b>3. Standardization of Sodium Sulfide Stock</b>		Titration of standard with thiosulfate						
Stock ID = <u>00114-12</u>								
Approx conc in 100ml		mL Standard =	1.00	1.00				
g Na <sub>2</sub> S = <u>0.6002</u> mg/mL = <u>0.801</u>		mL iodine =	3.00	3.00				
Sulfide (mg/mL) = (((mL iodine * ni) - (mL thio * n <sub>thio</sub> )) * 16) / mL standard =		mL thiosulfate =	1.20	1.20				
		0.728	0.728	0.728				
		stkconc (mg/mL) = <b>0.728</b>						
<b>Intermediate Standard</b>		mL required for for 0.025 mg/mL 8.6						
Add <u>8.6</u> mL stk to <u>250</u>	mL 0.01M NaOH = <u>0.025</u>	mg/mL						
<b>4. Calibration Standard Curve</b> spectrophotometer used:								
Inter Std Volume (mL)	Final Volume (mL)	Calc Conc (mg S/L)	Absorbance @650 nm		AVG ABS	mg/L	Regression Data	
			1	2			intercept =	
0.00	50	0.000	0.000				slope =	
0.10	50	0.050	0.032				r =	
0.25	50	0.125	0.091				Comment:	
0.50	50	0.250	0.166					
1.00	50	0.501	0.586					
2.00	50	1.002	0.736				maxabs =	
Calib Verif Std = 1.0 ml INT to 50 ml ZnOAc = 0.501 mg/l								
Distillation Std = 1.0 ml stk to 100 = 7.28 mg/l								

**SAMPLE DATA**

enter dilution as mL final/mL sample

SAMPLE ID	Distillation Data			Spectrophotometric Data			SAMPLE DATA	
	SAMPLE SIZE	% Solids	TRAP VOLUME (ml)	Dilution Factor	Abs @ 650 nm		regressed Conc (mg S/L)	CORR CONC (ppm)
					Sample	Bkg		
ICB		na	na	1.00	0.000			
ICV		na	na	1.00	0.158			
<b>Distilled samples</b>								
Dist Blk	100.0	100%	100	1.00	0.001			
Dist Chk	100.0	100%	100	10.00	0.531			
<b>Soil Samples (grams) % Solids (mL)</b>								
SN54 bl	5.175	12.1%	100	1.00	0.000			
↓ c1	5.138	↓	100	1.00	0.020			
↓ c1 dup	5.106	↓	100	1.00	0.006			
↓ c1 ms	5.104	↓	100	10.00	0.330			
Spike at 1.00 ml stock to g dry wt = mg/kg								
SN42 H	5.001	76.1%	100	1.00	-0.004			
↓ bl	5.029	75.2%	100	1.00	-0.005			
↓ c1	5.068	79.2%	100	1.00	-0.006			
↓ dl	5.178	69.6%	100	1.00	-0.003			
Cal Blk		na	na	1.00	0.000			
CCV		na	na	1.00	0.333			
SN54c1 ms	5.104	72.2%	100	10.00	0.305			
Spike at 1.00 ml stock to g dry wt = mg/kg								
Cal Blk		na	na	1.00	0.000			
CCV		na	na	1.00	0.352			

# Sulfide Digestion Log

Analytical Chemists and Consultants

Sample ID	Pretreatment Data				Sample Extraction Data									
	% Solids	% Water	Date	Sample Weight	Extract Method*	Acid	Required pH	mL DI Water	Observed mL acid	Date	Sample Weight	mL Acid Required	mL DI Water Required	Trap Volume (mL)
PB	NA	NA	3-21-11	NA	PCSP	HCL (1+1)AL	< 2	NA	NA	3-21-11	100ML	NA	100ML	100ML
LCS														
SNS4131														
↓ CI														
↓ CI DWP														
↓ CI MS														
SNL A1														
B1														
CI														
↓ CI														
HS 2														

\* Extract Methods: PSEP = PSEP; 9030A = 9030A Acid Soluble; 9030AI = 9030A acid insoluble; AVS = Acid Volatile; Reactive ≠ SW-846 reactive

Analyst Name:          Date: 3-21-11 Time: 9:55

SN54 : 00701



<b>Criteria Flagged:</b>		ARI Job No.:	<u>SN54 C1</u>
Unacceptable Blank:	<input type="checkbox"/>	Date of Event:	<u>3-21-11</u>
Unacceptable Duplicate:	<input type="checkbox"/>	Client ID:	
Unacceptable Spike:	<input checked="" type="checkbox"/>	Method/Element:	<u>S2 SOIL</u>
Unacceptable Reference:	<input type="checkbox"/>	Prep Code:	

**Details of Problem/Recommended Corrective Action:**

SN54C1 WAS CHOSEN FOR SPIKING 1 ML OF S2 STOCK SOLUTION WAS PUT IN THE SAMPLE BUT ONLY HAD A 62-99% RECOVERY WHICH IS BELOW CONTROL LIMITS A SECOND TIME IT WAS COLLECTED WITH EVEN LOWER RECOVERY THE LOW RECOVERY COULD BE DUE TO MATRIX INTERFERENCE.

**Samples Affected:** SN54 C1

**Corrective Action Taken:**

**Analyst Initials:** all

**Date:** 3-21-11

**Supervisor:** [Signature]

**Date:** 3/21/11

6 0.020

7 0.006

8 0.330

9 -0.004

10 -0.005

11 -0.006

12 -0.003

13 0.000

14 0.333

15 0.305

16 ~~0.001~~ *or*

17 ~~0.001~~ *or*

18 ~~0.149~~ *or*

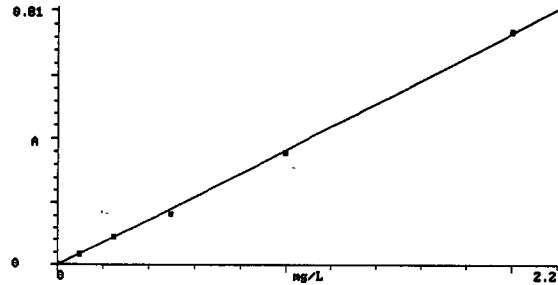
19 ~~0.024~~ *or*

3-21-11

20 0.000

21 0.357

Standard Curve 13:01 21Mar11  
 Test Name SULFIDE  
 Date Standards Measured 21Mar11  
 Wavelength 650nm  
 Ref. Wavelength Correction Off  
 Curve Fit Linear  
 Number of Standards 6  
 Units mg/L  
 ID# (0=OFF) Off  
 Low/High Limits 0.050/1.000  
 Statistics Off  
 Auto Print On



Curve Fit Linear  
 Slope 0.368  
 Intercept -0.00625  
 Std Dev 0.008  
 Corr Coeff 1.000

Conc. mg/L	Abs 650nm
0.000	0.000
0.100	0.032
0.250	0.091
0.500	0.166
1.000	0.356
2.000	0.736

*or*  
 3-21-11

TEST SETUP  
 GENESYS 10 v2.021 2G2G048006

Advanced A-%T-C 13:03 21Mar11  
 Test Name SULFIDE[Saved]  
 Measurement Mode Absorbance  
 Wavelength 650nm  
 Ref. Wavelength Correction Off  
 Delay Time (min:sec) 0:00  
 ID# (0=OFF) 1  
 Low/High Limits 0.000/1.000  
 Statistics Off  
 Auto Print On

ID#	Abs 650nm
1	0.000
2	0.358
3	0.001
4	0.531