Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
$ 137 d8-1,4-Dioxane	0.56856	0.53848	0.55643	0.58008	0.57549	0.56934	0.56922	0.56537	2.462
$ 2 Phenol-d5	1.69382	1.55249	1.59277	1.52515	1.45467	1.38972	+++++	1.53477	6.928
$ 5 2-Chlorophenol-d4	1.47973	1.30309	1.34183	1.27103	1.21380	1.16836	+++++	1.29631	8.421
$ 10 1,2-Dichlorobenzene-d4	0.96853	0.89668	0.93034	0.89435	0.87040	0.83604	+++++	0.89939	5.125
$ 18 Nitrobenzene-d5	0.42483	0.37416	0.39663	0.39082	0.38152	0.36335	+++++	0.38855	5.494
$ 36 2-Fluorobiphenyl	1.65520	1.41789	1.44387	1.37047	1.29517	1.21808	+++++	1.40011	10.705
$ 55 2,4,6-Tribromophenol	0.16694	0.16130	0.18415	0.19150	0.19308	0.19643	+++++	0.18223	8.067
$ 66 Terphenyl-d14	0.84857	0.61959	0.66571	0.76006	0.67516	0.68193	+++++	0.70850	11.610
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RG72-0057

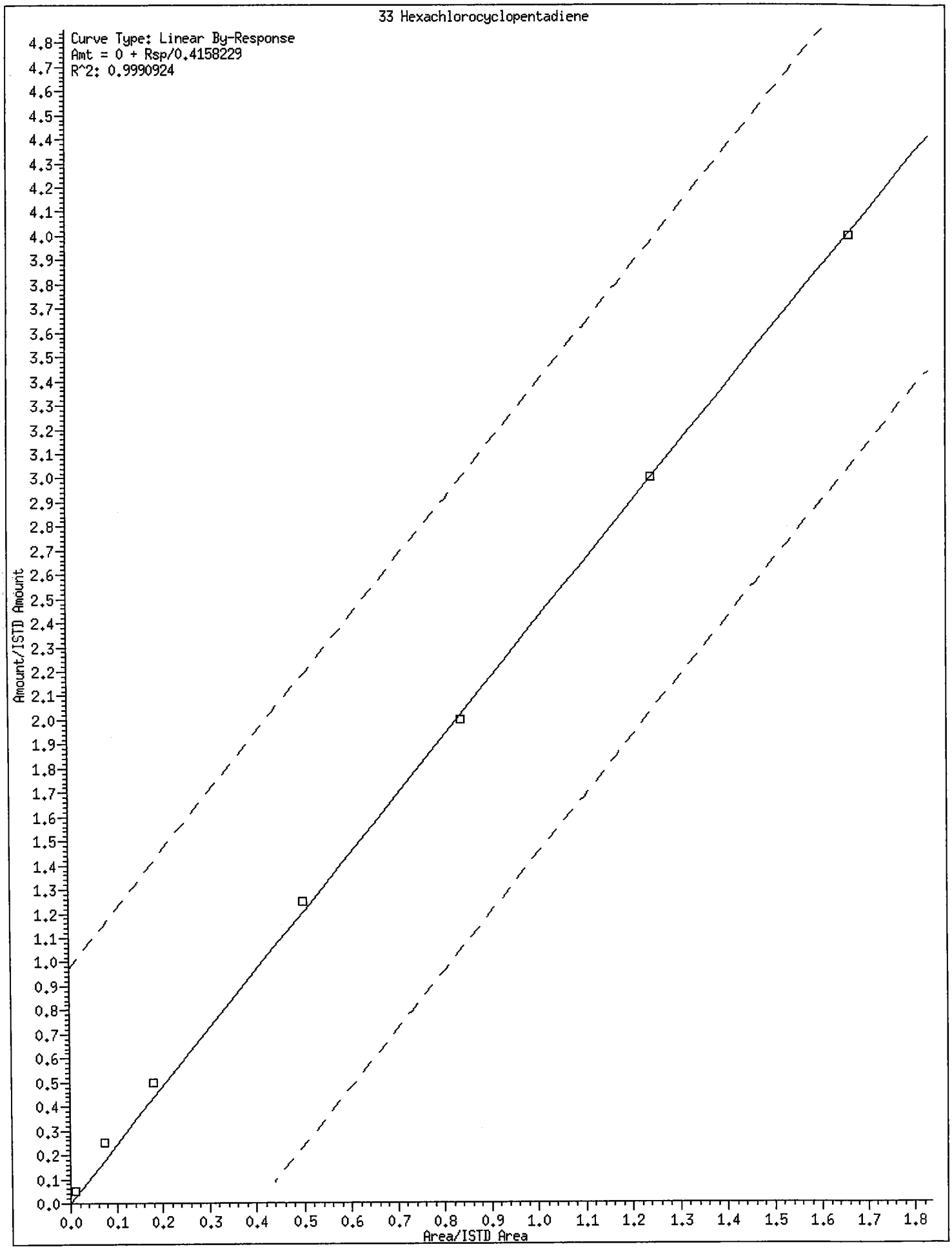
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing

07/26/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	80 Level 7										
31 4-Chloro-3-methylphenol	0.36042	0.36903	0.36214	0.35815	0.34753	0.33596					
	0.32412						AVRG		0.35105		4.57798
32 2-Methylnaphthalene	0.72760	0.63815	0.66651	0.61721	0.59789	0.55861					
	0.53653						AVRG		0.62036		10.46774
33 Hexachlorocyclopentadiene	3366	24140	58996	160807	275445	425348					
	562487						LINR	0.000e+00	0.41582		0.99909
34 2,4,6-Trichlorophenol	0.43015	0.47052	0.46116	0.47882	0.45477	0.45554					
	0.45431						AVRG		0.45790		3.34343
35 2,4,5-Trichlorophenol	0.47628	0.47205	0.46476	0.48592	0.46888	0.47285					
	0.46652						AVRG		0.47246		1.50508
37 2-Chloronaphthalene	1.54535	1.40750	1.43034	1.34606	1.26852	1.17397					
	1.13390						AVRG		1.32938		11.04215
38 2-Nitroaniline	0.31929	0.32596	0.34177	0.33767	0.33711	0.32812					
	0.32675						AVRG		0.33095		2.42548


33 Hexachlorocyclopentadiene
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.4158229
R^2: 0.9990924
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8

RG78:00572

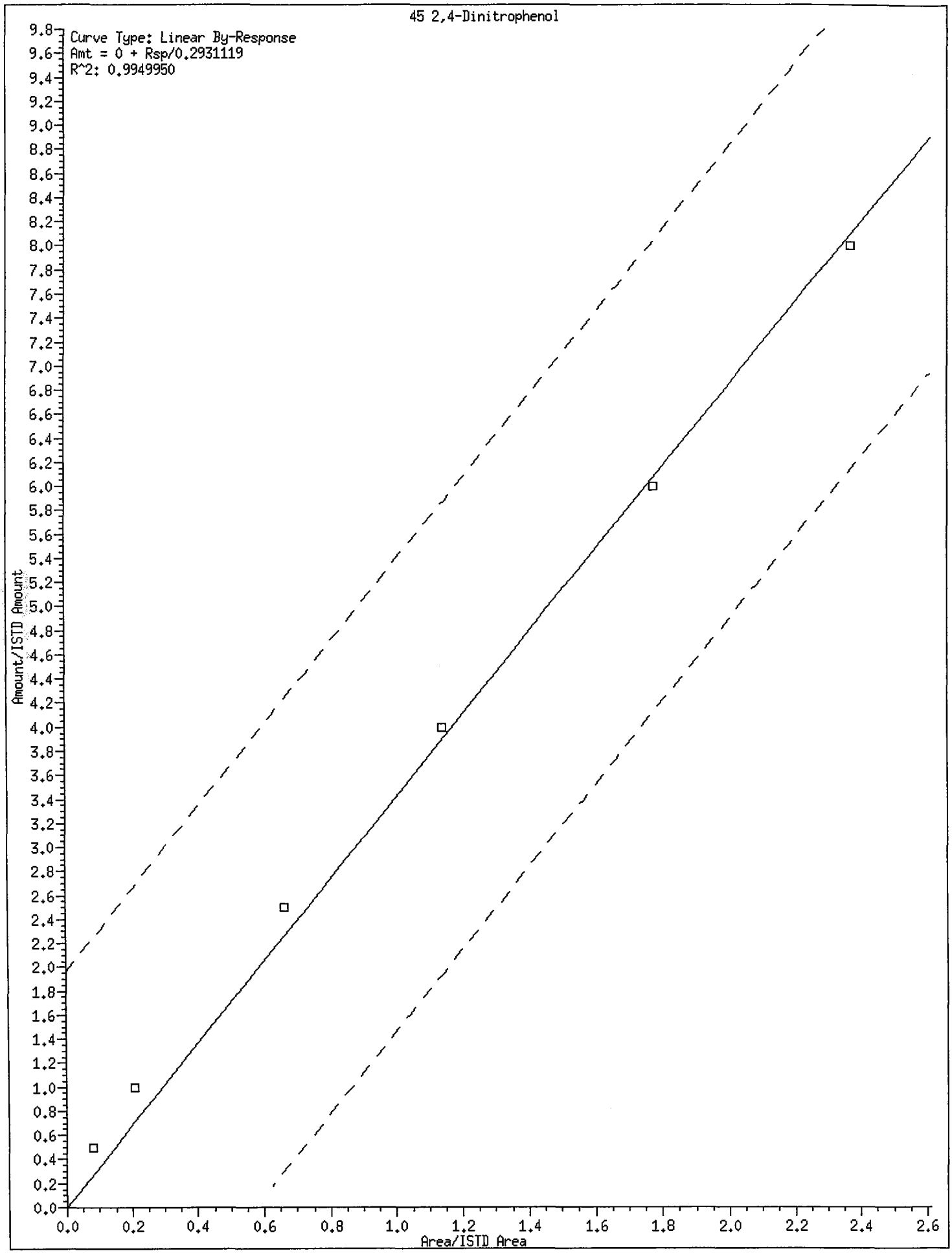
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing

JZ 07/26/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	80 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Dimethylphthalate	1.63732	1.49856	1.57686	1.53153	1.48535	1.40593	1.37278	AVRG		1.50119		6.14147
40 Acenaphthylene	2.38812	2.20629	2.26228	2.11737	1.97889	1.77863	1.67677	AVRG		2.05833		12.63575
41 2,6-Dinitrotoluene	0.32513	0.34390	0.36822	0.36347	0.36531	0.36325	0.36762	AVRG		0.35670		4.54287
43 3-Nitroaniline	0.32531	0.33792	0.35741	0.33779	0.31058	0.26898	0.24663	AVRG		0.31209		12.88590
44 Acenaphthene	1.44933	1.31145	1.35758	1.30569	1.26041	1.17354	1.13988	AVRG		1.28541		8.25094
45 2,4-Dinitrophenol	+++++	26211	67900	212676	374074	605790	800753	LINR	0.000e+00	0.29311		0.99500
46 Dibenzofuran	1.97073	1.74217	1.82392	1.71558	1.65479	1.55243	1.49208	AVRG		1.70738		9.48459


45 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.2931119
R^2: 0.9949950
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	07231001	07231002	07231003	07231004	07231005	07231006	07231007
INJ.DATE:	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010
INJ.TIME:	15:01	15:38	16:16	16:52	17:29	18:01	18:38

AB 07/26/10

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	5.605	5.602	5.601	5.605	5.605	5.610	+++++	5.605	2.605-8.605	5.605	0.003
186 Carbaryl	15.689	15.686	15.680	15.684	15.689	15.694	15.702	15.689	12.689-18.689	15.689	0.007
179 n-Decane	7.448	7.440	7.444	7.443	7.448	7.453	7.450	7.448	4.448-10.448	7.447	0.005
180 n-Octadecane	14.829	14.826	14.825	14.824	14.829	14.829	14.832	14.829	11.829-17.829	14.828	0.003
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.531	15.531-21.531	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.634	13.634-19.634	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	13.863-19.863	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.605	17.605-23.605	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.015	14.015-20.015	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.562	14.562-20.562	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.781	3.781-9.781	+++++	+++++
168 Pentachlorobenzene	12.853	12.850	12.849	12.853	12.858	12.863	12.866	12.853	9.853-15.853	12.856	0.007
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: 7/26/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.269	36.269-42.269	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	2.107	2.109	2.103	2.107	2.112	2.122	2.125	2.107	0.000-5.107	2.112	0.008
* 134 Di-n-octylphthalate-d4	20.346	20.344	20.343	20.347	20.347	20.346	20.354	20.346	17.346-23.346	20.347	0.004
133 Butylatedhydroxytoluen	12.698	12.695	12.694	12.698	12.698	12.703	12.706	12.698	9.698-15.698	12.699	0.004
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	9.718	9.715	9.714	9.718	9.723	9.728	9.731	9.718	6.718-12.718	9.721	0.007
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	8.302	8.300	8.299	8.303	8.308	8.313	8.316	8.302	5.302-11.302	8.306	0.007
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	2.149	2.152	2.146	2.150	2.155	2.165	2.168	2.149	0.000-5.149	2.155	0.008
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	13.104	13.107	13.100	13.104	13.110	13.109	13.112	13.104	10.104-16.104	13.107	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.128	13.128-19.128	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	18.723	18.720	18.714	18.718	18.723	18.722	18.731	18.723	15.723-21.723	18.721	0.005
117 Butyl Diphenyl Phospha	17.126	17.123	17.122	17.126	17.126	17.131	17.134	17.126	14.126-20.126	17.127	0.004
116 Dibutyl Phenyl Phospha	15.449	15.446	15.445	15.449	15.454	15.454	15.457	15.449	12.449-18.449	15.450	0.004
115 Tributyl Phosphate	13.734	13.726	13.731	13.729	13.745	13.755	13.763	13.734	10.734-16.734	13.741	0.014
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	11.779	11.777	11.776	11.774	11.780	11.779	11.782	11.779	8.779-14.779	11.778	0.003
112 Biphenyl	11.582	11.579	11.578	11.577	11.582	11.587	11.590	11.582	8.582-14.582	11.582	0.005
111 Azobenzene (1,2-DP-Hyd	13.654	13.646	13.650	13.649	13.654	13.659	13.667	13.654	10.654-16.654	13.654	0.007
110 Tetrachloroguaiacol	14.824	14.821	14.820	14.824	14.829	14.834	14.842	14.824	11.824-17.824	14.828	0.008
109 3,4,5-Trichloroguaiaco	13.205	13.203	13.202	13.206	13.211	13.210	13.219	13.205	10.205-16.205	13.208	0.006
181 3,4,6-Trichloroguaiaco	13.323	13.320	13.314	13.318	13.323	13.328	13.331	13.323	10.323-16.323	13.322	0.006
108 4,5,6-Trichloroguaiaco	14.242	14.239	14.238	14.237	14.242	14.247	14.250	14.242	11.242-17.242	14.242	0.005
184 3,4-Dichloroguaiacol	11.667	11.670	11.669	11.667	11.673	11.672	11.675	11.667	8.667-14.667	11.671	0.003
107 4,5-Dichloroguaiacol	12.463	12.460	12.459	12.458	12.469	12.468	12.476	12.463	9.463-15.463	12.465	0.007
182 4,6-Dichloroguaiacol	12.463	12.460	12.459	12.458	12.469	12.468	12.476	12.463	9.463-15.463	12.465	0.007
185 4-Chloroguaiacol	10.594	10.586	10.590	10.594	10.594	10.593	10.596	10.594	7.594-13.594	10.592	0.003

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106	Guaiacol	8.575	8.572	8.571	8.575	8.580	8.585	8.588	8.575	5.575-11.575	8.578	0.007
105	1-methylnaphthalene	10.968	10.965	10.964	10.968	10.968	10.973	10.975	10.968	7.968-13.968	10.969	0.004
151	1,2,4,5-Tetrachloroben	11.138	11.136	11.135	11.133	11.139	11.138	11.141	11.138	8.138-14.138	11.137	0.003
152	Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153	Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.442	20.442-26.442	+++++	+++++
154	Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.968	18.968-24.968	+++++	+++++
155	Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.466	20.466-26.466	+++++	+++++
156	Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.866	19.866-25.866	+++++	+++++
157	Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.413	20.413-26.413	+++++	+++++
158	Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.952	21.952-27.952	+++++	+++++
159	4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.721	18.721-24.721	+++++	+++++
160	Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.159	15.159-21.159	+++++	+++++
161	1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162	1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163	1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164	1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165	1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166	Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167	2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2	Phenol-d5	7.207	7.205	7.204	7.202	7.213	7.218	0.000	7.207	4.207-10.207	6.178	2.724
3	Phenol	7.229	7.221	7.220	7.224	7.229	7.239	7.237	7.229	4.229-10.229	7.228	0.008
4	Bis(2-Chloroethyl)ethe	7.282	7.274	7.273	7.277	7.282	7.287	7.290	7.282	4.282-10.282	7.281	0.006
$ 5	2-Chlorophenol-d4	7.293	7.296	7.295	7.293	7.298	7.303	+++++	7.293	4.293-10.293	7.296	0.004

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	7.320	7.317	7.316	7.320	7.320	7.325	7.327	7.320	4.320-10.320	7.321	0.004
	7 1,3-Dichlorobenzene	7.523	7.525	7.524	7.523	7.528	7.533	7.530	7.523	4.523-10.523	7.527	0.004
*	8 1,4-Dichlorobenzene-d4	7.592	7.589	7.588	7.592	7.592	7.597	7.595	7.592	4.592-10.592	7.592	0.003
	9 1,4-Dichlorobenzene	7.619	7.616	7.615	7.614	7.619	7.624	7.621	7.619	4.619-10.619	7.618	0.004
$	10 1,2-Dichlorobenzene-d4	7.891	7.888	7.887	7.891	7.891	7.896	0.000	7.891	4.891-10.891	6.764	2.983
	11 Benzyl alcohol	7.896	7.894	7.893	7.897	7.902	7.907	7.910	7.896	4.896-10.896	7.900	0.007
	12 1,2-Dichlorobenzene	7.912	7.910	7.909	7.913	7.913	7.918	7.915	7.912	4.912-10.912	7.913	0.003
	13 2-Methylphenol	8.158	8.150	8.155	8.153	8.158	8.163	8.166	8.158	5.158-11.158	8.158	0.006
	14 2,2'-oxybis(1-Chloropr	8.158	8.155	8.160	8.158	8.158	8.163	8.161	8.158	5.158-11.158	8.159	0.002
	15 4-Methylphenol	8.393	8.385	8.389	8.388	8.399	8.404	8.406	8.393	5.393-11.393	8.395	0.008
	16 N-Nitroso-di-n-propyla	8.377	8.369	8.368	8.367	8.383	8.388	8.390	8.377	5.377-11.377	8.377	0.010
	17 Hexachloroethane	8.398	8.396	8.400	8.399	8.399	8.404	8.406	8.398	5.398-11.398	8.400	0.004
$	18 Nitrobenzene-d5	8.537	8.529	8.528	8.532	8.538	8.542	+++++	8.537	5.537-11.537	8.535	0.005
	19 Nitrobenzene	8.564	8.556	8.560	8.559	8.570	8.574	8.572	8.564	5.564-11.564	8.565	0.007
	20 Isophorone	8.949	8.941	8.945	8.944	8.954	8.959	8.967	8.949	5.949-11.949	8.951	0.010
	21 2-Nitrophenol	9.082	9.079	9.079	9.082	9.082	9.087	9.090	9.082	6.082-12.082	9.083	0.004
	22 2,4-Dimethylphenol	9.226	9.218	9.217	9.221	9.227	9.231	9.234	9.226	6.226-12.226	9.225	0.006
	23 Bis(2-Chloroethoxy)met	9.360	9.357	9.356	9.360	9.365	9.370	9.373	9.360	6.360-12.360	9.363	0.007
	24 Benzoic acid	9.477	9.347	9.383	9.419	9.520	9.568	9.603	9.477	6.477-12.477	9.474	0.096
	25 2,4-Dichlorophenol	9.477	9.475	9.474	9.472	9.478	9.482	9.485	9.477	6.477-12.477	9.478	0.005
	26 1,2,4-Trichlorobenzene	9.590	9.587	9.591	9.590	9.595	9.595	9.597	9.590	6.590-12.590	9.592	0.004
*	27 Naphthalene-d8	9.643	9.640	9.639	9.643	9.649	9.648	9.651	9.643	6.643-12.643	9.645	0.004
	28 Naphthalene	9.675	9.672	9.671	9.670	9.675	9.680	9.683	9.675	6.675-12.675	9.675	0.005
	29 4-Chloroaniline	9.835	9.838	9.837	9.835	9.841	9.840	9.843	9.835	6.835-12.835	9.839	0.003

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	10.006	10.003	10.003	10.001	10.006	10.006	10.009	10.006	7.006-13.006	10.005	0.003
	31 4-Chloro-3-methylpheno	10.674	10.671	10.670	10.669	10.674	10.679	10.682	10.674	7.674-13.674	10.674	0.005
	32 2-Methylnaphthalene	10.797	10.794	10.798	10.797	10.797	10.802	10.805	10.797	7.797-13.797	10.798	0.004
	33 Hexachlorocyclopentadi	11.181	11.179	11.183	11.181	11.181	11.181	11.184	11.181	8.181-14.181	11.181	0.002
	34 2,4,6-Trichlorophenol	11.325	11.323	11.322	11.320	11.326	11.330	11.333	11.325	8.325-14.325	11.326	0.005
	35 2,4,5-Trichlorophenol	11.384	11.387	11.380	11.379	11.384	11.389	11.392	11.384	8.384-14.384	11.385	0.005
$	36 2-Fluorobiphenyl	11.454	11.446	11.450	11.448	11.454	11.453	0.000	11.454	8.454-14.454	9.815	4.328
	37 2-Chloronaphthalene	11.571	11.568	11.567	11.571	11.577	11.576	11.579	11.571	8.571-14.571	11.573	0.004
	38 2-Nitroaniline	11.822	11.819	11.818	11.817	11.828	11.832	11.835	11.822	8.822-14.822	11.825	0.007
	39 Dimethylphthalate	12.207	12.199	12.198	12.202	12.207	12.217	12.220	12.207	9.207-15.207	12.207	0.009
	40 Acenaphthylene	12.244	12.241	12.246	12.244	12.250	12.249	12.252	12.244	9.244-15.244	12.247	0.004
	41 2,6-Dinitrotoluene	12.292	12.289	12.288	12.287	12.298	12.303	12.305	12.292	9.292-15.292	12.295	0.007
*	42 Acenaphthene-d10	12.500	12.498	12.497	12.495	12.501	12.500	12.503	12.500	9.500-15.500	12.499	0.003
	43 3-Nitroaniline	12.500	12.498	12.497	12.495	12.506	12.516	12.519	12.500	9.500-15.500	12.504	0.010
	44 Acenaphthene	12.548	12.546	12.545	12.549	12.554	12.559	12.562	12.548	9.548-15.548	12.552	0.007
	45 2,4-Dinitrophenol	12.666	12.663	12.662	12.661	12.672	12.682	12.690	12.666	9.666-15.666	12.671	0.011
	46 Dibenzofuran	12.810	12.808	12.807	12.810	12.816	12.821	12.823	12.810	9.810-15.810	12.814	0.007
	47 4-Nitrophenol	12.842	12.845	12.839	12.837	12.842	12.853	12.861	12.842	9.842-15.842	12.846	0.008
	48 2,4-Dinitrotoluene	12.917	12.909	12.908	12.912	12.917	12.927	12.930	12.917	9.917-15.917	12.917	0.009
	49 Fluorene	13.366	13.363	13.362	13.366	13.371	13.376	13.379	13.366	10.366-16.366	13.369	0.007
	50 Diethylphthalate	13.360	13.347	13.351	13.355	13.366	13.371	13.368	13.360	10.360-16.360	13.360	0.009
	51 4-Chlorophenyl-phenyle	13.403	13.400	13.399	13.403	13.409	13.408	13.411	13.403	10.403-16.403	13.405	0.004
	52 4-Nitroaniline	13.494	13.486	13.485	13.489	13.505	13.515	13.523	13.494	10.494-16.494	13.499	0.015
	53 4,6-Dinitro-2-methylph	13.563	13.555	13.554	13.558	13.574	13.584	13.593	13.563	10.563-16.563	13.569	0.015

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	13.611	13.609	13.608	13.612	13.617	13.622	13.630	13.611	10.611-16.611	13.615	0.008
$	55 2,4,6-Tribromophenol	13.793	13.785	13.784	13.788	13.793	13.798	+++++	13.793	10.793-16.793	13.790	0.005
	56 4-Bromophenyl-phenylet	14.183	14.175	14.179	14.178	14.183	14.183	14.185	14.183	11.183-17.183	14.181	0.004
	57 Hexachlorobenzene	14.386	14.389	14.382	14.386	14.391	14.391	14.399	14.386	11.386-17.386	14.389	0.005
	58 Pentachlorophenol	14.696	14.693	14.692	14.691	14.696	14.701	14.704	14.696	11.696-17.696	14.696	0.005
*	59 Phenanthrene-d10	14.861	14.859	14.858	14.861	14.867	14.866	14.869	14.861	11.861-17.861	14.863	0.004
	60 Phenanthrene	14.899	14.896	14.895	14.893	14.904	14.909	14.912	14.899	11.899-17.899	14.901	0.007
	61 Anthracene	14.973	14.965	14.964	14.968	14.974	14.978	14.987	14.973	11.973-17.973	14.973	0.008
	62 Carbazole	15.267	15.264	15.263	15.267	15.273	15.272	15.280	15.267	12.267-18.267	15.270	0.006
	63 Di-n-butylphthalate	16.004	16.002	16.001	16.004	16.004	16.009	16.012	16.004	13.004-19.004	16.005	0.004
	64 Fluoranthene	16.827	16.824	16.823	16.822	16.827	16.832	16.835	16.827	13.827-19.827	16.827	0.005
	65 Pyrene	17.179	17.171	17.176	17.174	17.179	17.184	17.187	17.179	14.179-20.179	17.179	0.006
$	66 Terphenyl-d14	17.510	17.508	17.512	17.511	17.516	17.515	0.000	17.510	14.510-20.510	15.010	6.619
	67 Butylbenzylphthalate	18.413	18.410	18.404	18.408	18.413	18.413	18.421	18.413	15.413-21.413	18.412	0.005
	68 Benzo(a)anthracene	19.134	19.131	19.130	19.134	19.140	19.144	19.147	19.134	16.134-22.134	19.137	0.007
*	69 Chrysene-d12	19.161	19.153	19.157	19.156	19.166	19.166	19.169	19.161	16.161-22.161	19.161	0.006
	70 3,3'-Dichlorobenzidine	19.166	19.158	19.162	19.161	19.166	19.166	19.174	19.166	16.166-22.166	19.165	0.005
	71 Chrysene	19.198	19.190	19.194	19.198	19.204	19.209	19.217	19.198	16.198-22.198	19.201	0.009
	72 bis(2-Ethylhexyl)phtha	19.417	19.414	19.413	19.417	19.417	19.417	19.420	19.417	16.417-22.417	19.417	0.002
	73 Di-n-octylphthalate	20.357	20.354	20.354	20.357	20.357	20.362	20.360	20.357	17.357-23.357	20.357	0.003
	74 Benzo(b)fluoranthene	20.784	20.776	20.781	20.779	20.790	20.795	20.803	20.784	17.784-23.784	20.787	0.010
	75 Benzo(k)fluoranthene	20.816	20.808	20.813	20.811	20.822	20.832	20.840	20.816	17.816-23.816	20.821	0.012
	76 Benzo(a)pyrene	21.228	21.220	21.224	21.223	21.233	21.238	21.246	21.228	18.228-24.228	21.230	0.010
*	77 Perylene-d12	21.308	21.305	21.304	21.303	21.308	21.308	21.316	21.308	18.308-24.308	21.307	0.004

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	78 Indeno(1,2,3-cd)pyrene	22.697	22.689	22.688	22.686	22.707	22.712	22.720	22.697	19.697-25.697	22.700	0.014
	79 Dibenzo(a,h)anthracene	22.723	22.710	22.714	22.718	22.729	22.739	22.747	22.723	19.723-25.723	22.726	0.013
	80 Benzo(g,h,i)perylene	23.054	23.036	23.040	23.044	23.065	23.075	23.089	23.054	20.054-26.054	23.058	0.020
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	2.721	2.718	2.717	2.716	2.732	2.742	2.750	2.721	0.000-5.721	2.728	0.014
	91 Aniline	7.154	7.151	7.150	7.149	7.154	7.159	7.157	7.154	4.154-10.154	7.154	0.004
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	17.099	17.102	17.095	17.099	17.099	17.104	17.107	17.099	14.099-20.099	17.101	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	17.751	17.753	17.747	17.751	17.751	17.756	17.759	17.751	14.751-20.751	17.752	0.004
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.125	28.125-34.125	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.717	15.717-21.717	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.964	19.964-25.964	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	2.689	2.713	2.696	2.694	2.694	2.705	2.702	2.689	0.000-5.689	2.699	0.008
	187 Total Benzofluoranthen	20.816	20.808	20.813	20.811	20.822	20.832	20.840	20.816	17.816-23.816	20.821	0.012

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 7/23/10 Analysis: 8270 Analyst: KB

GC Program: ABN_1.M Column No: 172127 Column Type: ZB-5MS;

Instrument Tune (.U or .CT.): 100629 EM Voltage: 1688

Calibration File: 0723l001 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	~~1747-3~~, ~~1733-1~~	~~1751-3~~, 1713-1
	~~1736-1~~, ~~1736-1~~	~~1721-2~~, 1720-1
	I6019 1753-1	I6019 1721-1
	~~1754-1~~ (carbaryl)	~~1754-1~~

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt6.1/20100723.b

	Time	Filename	LabID	ClientId	DF													
1	1501	07231001.D	IC250723	IC250723	1	7.59	182786	9.64	584137	12.50	320442	14.86	503793	19.16	532343	21.31	517269	20.35	719428
2	1538	07231002.D	IC010723	IC010723	1	7.59	195617	9.64	619162	12.50	335561	14.86	502252	19.15	533625	21.31	501426	20.34	671548
3	1616	07231003.D	IC050723	IC050723	1	7.59	188843	9.64	605649	12.50	328204	14.86	492773	19.16	623042	21.30	509773	20.34	685489
4	1652	07231004.D	IC100723	IC100723	1	7.59	185943	9.64	593293	12.50	323613	14.86	496900	19.16	608888	21.30	502175	20.35	694500
5	1729	07231005.D	IC400723	IC400723	1	7.59	179813	9.65	584978	12.50	327933	14.87	525448	19.17	593530	21.31	534102	20.35	734023
6	1801	07231006.D	IC600723	IC600723	1	7.60	184946	9.65	607475	12.50	340603	14.87	548107	19.17	578965	21.31	572566	20.35	744081
7	1838	07231007.D	IC800723	IC800723	1	7.59	184081	9.65	604045	12.50	337280	14.87	549184	19.17	574045	21.32	593718	20.35	737424
8	2017	07231008.D	ICV0723	ICV0723	1	7.59	176582	9.65	582262	12.50	323945	14.86	516976	19.16	544051	21.30	522945	20.35	731609
9	2053	07231009.D	RE80MBW1	RE80MBW1	1	7.59	191409	9.64	626705	12.49	340804	14.86	511015	19.16	542517	20.35	680199	21.30	530348
10	2129	07231010.D	RE80LCSW1	RE80LCSW1	1	7.59	186065	9.64	600768	12.50	336459	14.86	542160	19.16	543756	20.34	743452	21.31	536707
11	2206	07231011.D	RE80LCSDW1	RE80LCSDW1	1	7.59	193224	9.64	618733	12.50	346038	14.86	562142	19.16	552203	20.35	754902	21.31	547020
12	2242	07231012.D	RE80A	EB-01-0710	1	7.59	202174	9.64	668869	12.50	358572	14.86	537356	19.16	568871	20.34	711184	21.30	552466

KB 07/26/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt6.i/20100723.b

ARI Job No.: IC25 Method: SW846072310.m Instrument: nt6.i Date: 23-JUL-2010

7/26/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1501	07231001.D	IC250723	IC250723	1	4-Nitrophenol,
1538	07231002.D	IC010723	IC010723	1	Benzoic acid, 4-Chloro-3-methylphenol, 4-Nitrophenol, Pyridine, Total Benzofluoranthenes, 1,2-Dichlorobenzene-d4,
1616	07231003.D	IC050723	IC050723	1	4-Nitrophenol, Total Benzofluoranthenes,
1652	07231004.D	IC100723	IC100723	1	4-Nitrophenol, Total Benzofluoranthenes,
1729	07231005.D	IC400723	IC400723	1	NO MANUAL INTEGRATION
1801	07231006.D	IC600723	IC600723	1	Benzoic acid, 4-Nitrophenol,
1838	07231007.D	IC800723	IC800723	1	Benzoic acid, 4-Nitrophenol,

Data File: /chem1/nt6.i/20100723.b/tune.b/07231001.D

Date : 23-JUL-2010 15:01

Client ID: DFTPP0723

Instrument: nt6.i

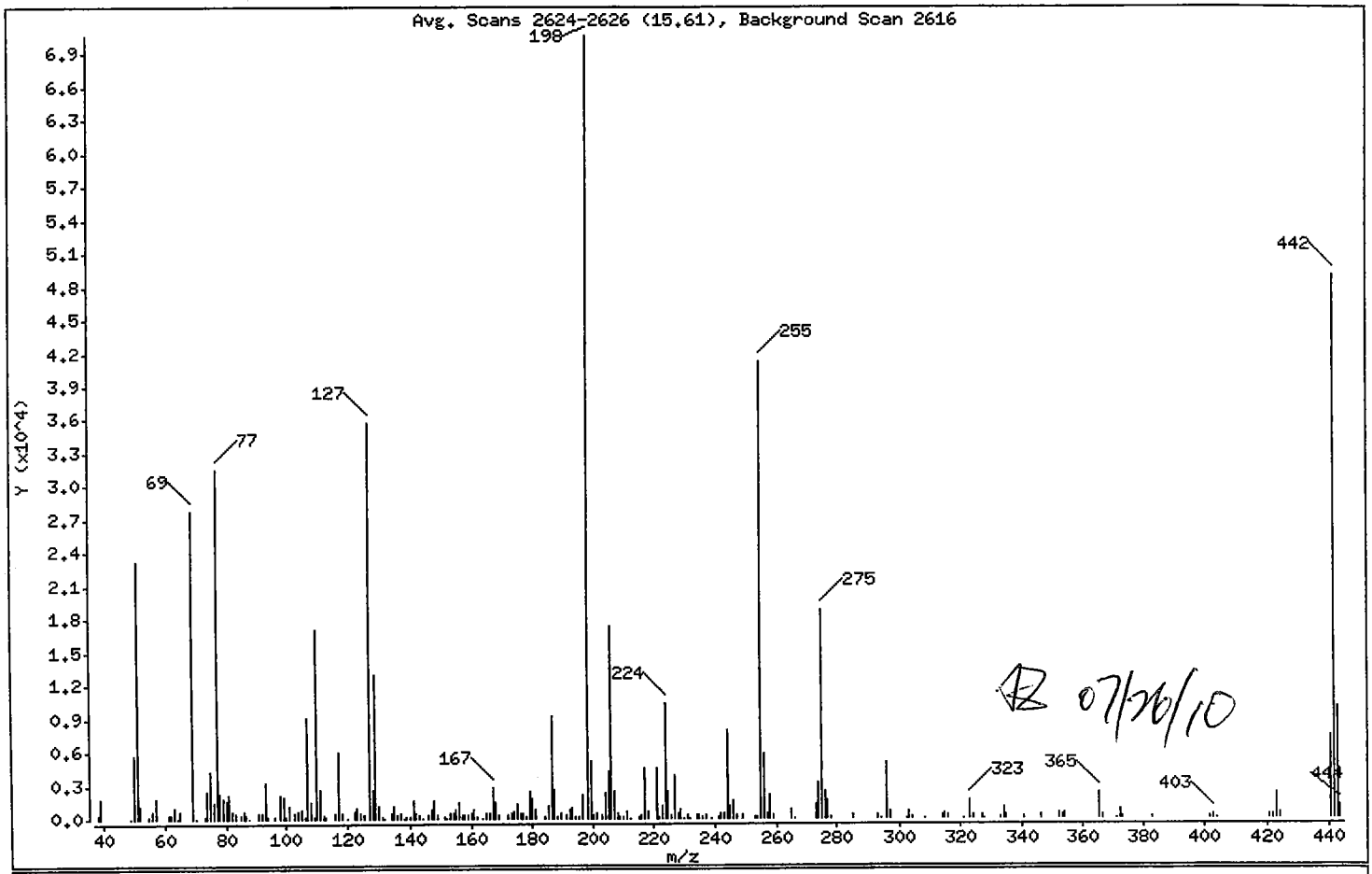
Sample Info: DFTPP0723

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



B 07/30/10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.79
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.43
70	Less than 2.00% of mass 69	0.11 (0.27)
127	10.00 - 80.00% of mass 198	50.48
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.37
275	10.00 - 60.00% of mass 198	26.75
365	Greater than 1.00% of mass 198	3.26
441	0.01 - 24.00% of mass 442	10.46 (15.05)
442	50.00 - 200.00% of mass 198	69.53
443	15.00 - 24.00% of mass 442	14.36 (20.66)

Data File: /chem1/nt6.i/20100723.b/tune.b/07231001.D

Date : 23-JUL-2010 15:01

Client ID: DFTPP0723

Instrument: nt6.i

Sample Info: DFTPP0723

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07231001.D
Spectrum: Avg. Scans 2624-2626 (15.61), Background Scan 2616
Location of Maximum: 198.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	387	123.00	922	188.00	228	258.00	2047
39.00	1825	124.00	480	189.00	470	259.00	339
49.00	65	125.00	365	191.00	272	265.00	871
50.00	5640	127.00	35688	192.00	768	266.00	70
51.00	23184	128.00	2664	193.00	910	273.00	1286
52.00	1188	129.00	13060	194.00	205	274.00	3278
55.00	117	130.00	1185	195.00	108	275.00	18912
56.00	724	131.00	199	196.00	2168	276.00	2417
57.00	1783	132.00	53	198.00	70696	277.00	1549
61.00	268	134.00	417	199.00	5207	278.00	225
62.00	303	135.00	1057	200.00	352	285.00	281
63.00	1001	136.00	403	201.00	473	293.00	310
64.00	57	137.00	530	203.00	399	294.00	55
65.00	603	138.00	53	204.00	2330	296.00	5042
69.00	27872	139.00	133	205.00	4267	297.00	617
70.00	76	140.00	157	206.00	17352	302.00	51
73.00	239	141.00	1557	207.00	2460	303.00	684
74.00	2447	142.00	527	208.00	547	304.00	121
75.00	4272	143.00	334	209.00	224	308.00	56
76.00	1504	144.00	51	210.00	220	314.00	246
77.00	31608	146.00	256	211.00	719	315.00	557
78.00	2353	147.00	794	212.00	72	316.00	334
79.00	1859	148.00	1619	215.00	138	321.00	61
80.00	1551	149.00	391	216.00	402	323.00	1624
81.00	2087	151.00	243	217.00	4593	324.00	284
82.00	569	152.00	55	218.00	656	327.00	303
83.00	501	153.00	556	221.00	4555	328.00	54
85.00	371	154.00	413	222.00	212	333.00	133
86.00	612	155.00	876	223.00	1131	334.00	1046
87.00	283	156.00	1402	224.00	10419	335.00	247
88.00	58	157.00	248	225.00	2454	341.00	195
91.00	565	158.00	315	226.00	302	346.00	381
92.00	460	159.00	248	227.00	3948	352.00	507
93.00	3213	160.00	524	228.00	566	353.00	296
94.00	196	161.00	761	229.00	863	354.00	512

Data File: /chem1/nt6.i/20100723.b/tune.b/07231001.D

Date : 23-JUL-2010 15:01

Client ID: DFTPP0723

Instrument: nt6.i

Sample Info: DFTPP0723

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07231001.D

Spectrum: Avg. Scans 2624-2626 (15.61), Background Scan 2616

Location of Maximum: 198.00

Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
96.00	222	162.00	236	230.00	56	365.00	2305
98.00	2141	164.00	52	231.00	395	366.00	343
99.00	1893	165.00	557	232.00	58	371.00	53
100.00	125	166.00	524	234.00	262	372.00	781
101.00	1206	167.00	2749	235.00	263	373.00	223
103.00	429	168.00	1464	236.00	143	383.00	219
104.00	718	169.00	273	237.00	373	402.00	207
105.00	891	172.00	270	239.00	65	403.00	390
106.00	85	173.00	422	241.00	228	404.00	51
107.00	9053	174.00	680	242.00	541	421.00	350
108.00	1452	175.00	1231	243.00	516	422.00	291
109.00	101	176.00	512	244.00	7897	423.00	2348
110.00	17112	177.00	488	245.00	1132	424.00	560
111.00	2583	178.00	162	246.00	1556	441.00	7398
112.00	346	179.00	2424	247.00	296	442.00	49152
113.00	127	180.00	1708	249.00	252	443.00	10155
116.00	407	181.00	748	253.00	143	444.00	1103
117.00	6032	184.00	213	254.00	104		
118.00	485	185.00	1151	255.00	41248		
120.00	62	186.00	9244	256.00	5893		
122.00	623	187.00	2603	257.00	528		

Data File: /chem1/nt6.i/20100723.b/tune.b/07231001.D

Date : 23-JUL-2010 15:01

Client ID: DFTPP0723

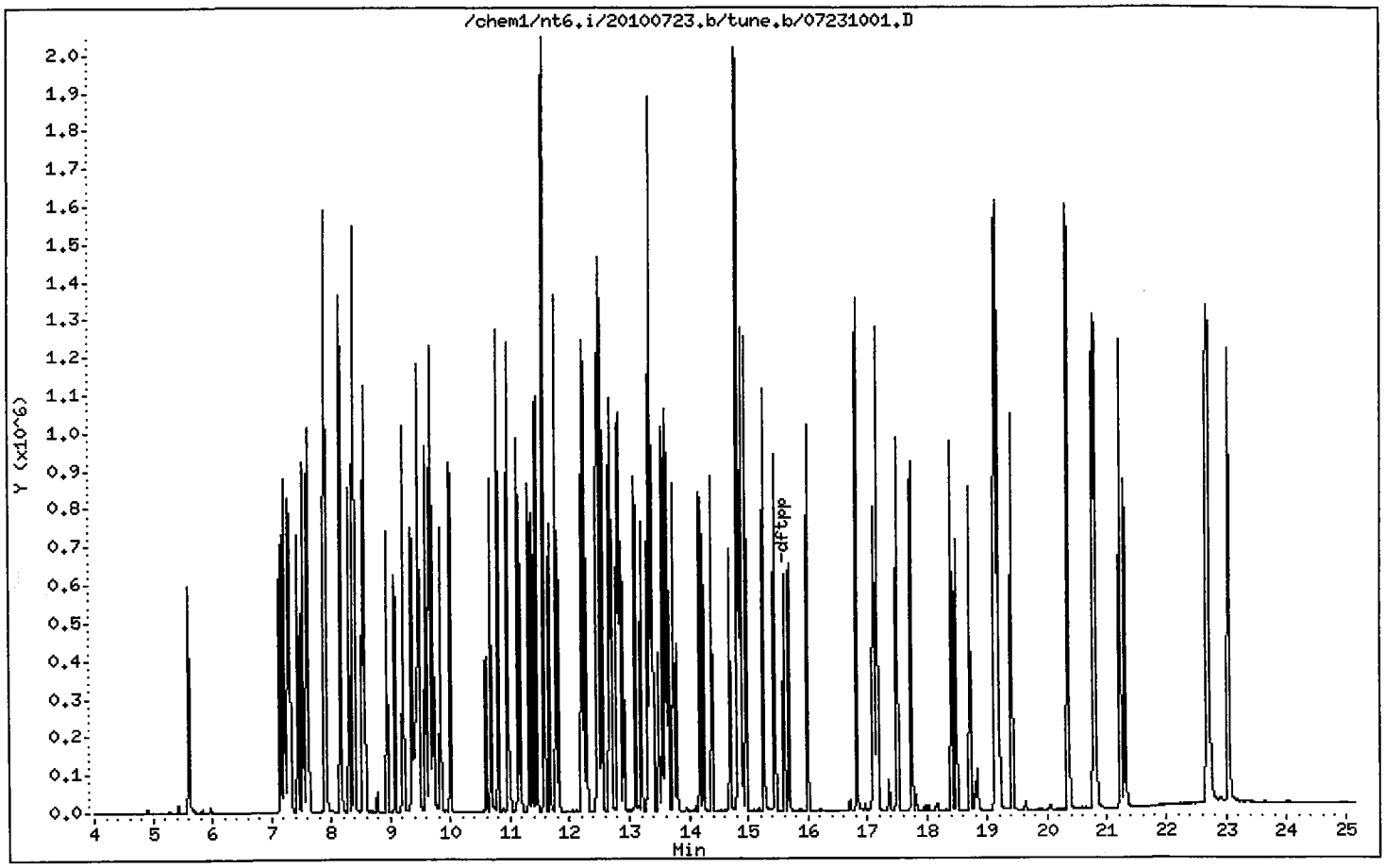
Instrument: nt6.i

Sample Info: DFTPP0723

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20100723.b/ddt.b/07231001.D ARI ID: IC250723
Method: /chem1/nt6.i/20100723.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 23-JUL-2010 15:01 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	14.696	127003
Benzidine	17.099	261375
4,4'-DDE	----	----
4,4'-DDD	18.023	5204
4,4'-DDT	18.493	237032

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 5204) * 100}{(0 + 5204 + 237032)}$$

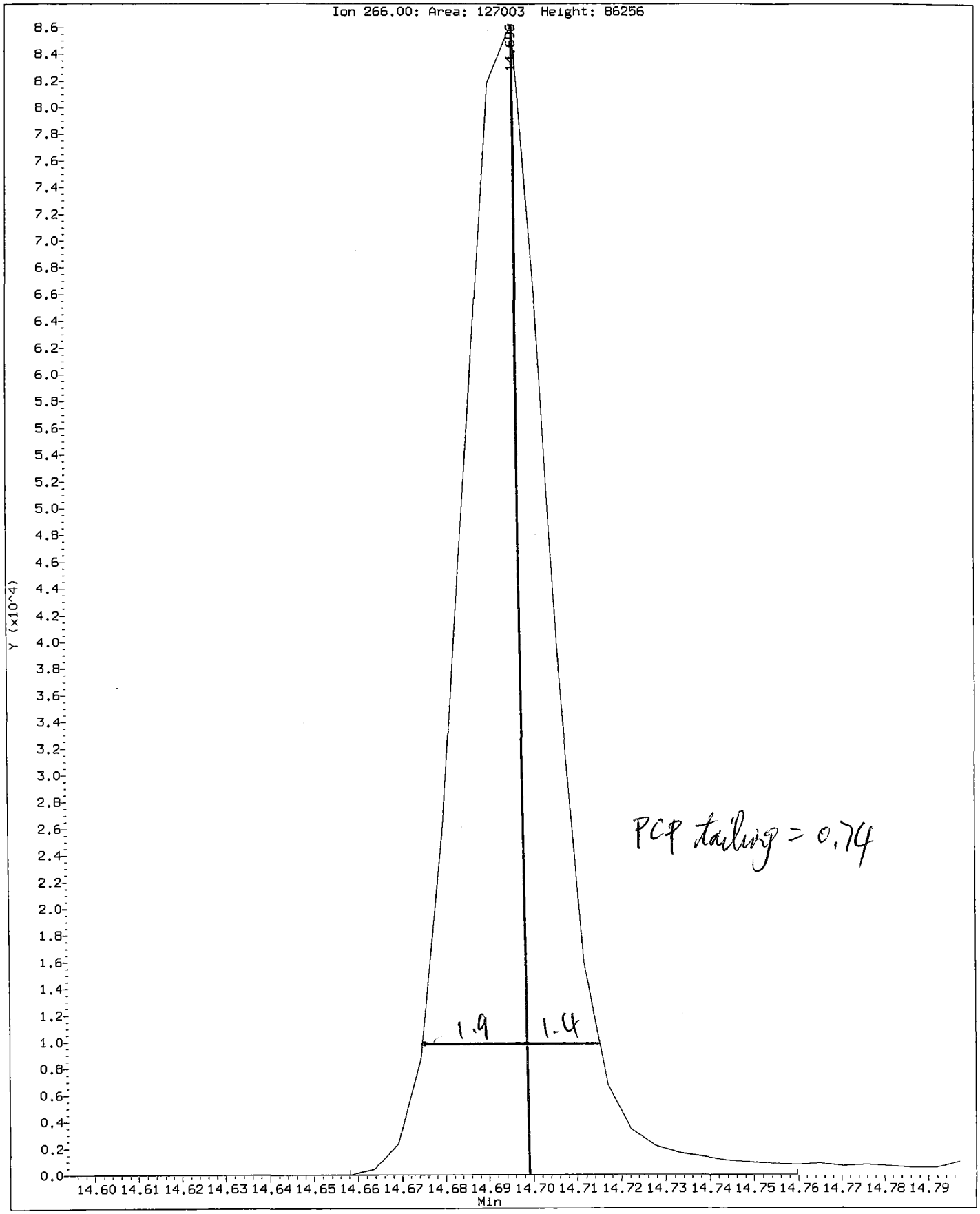
DDT Percent Breakdown = 2.1 %

0/2

AB 07/26/10

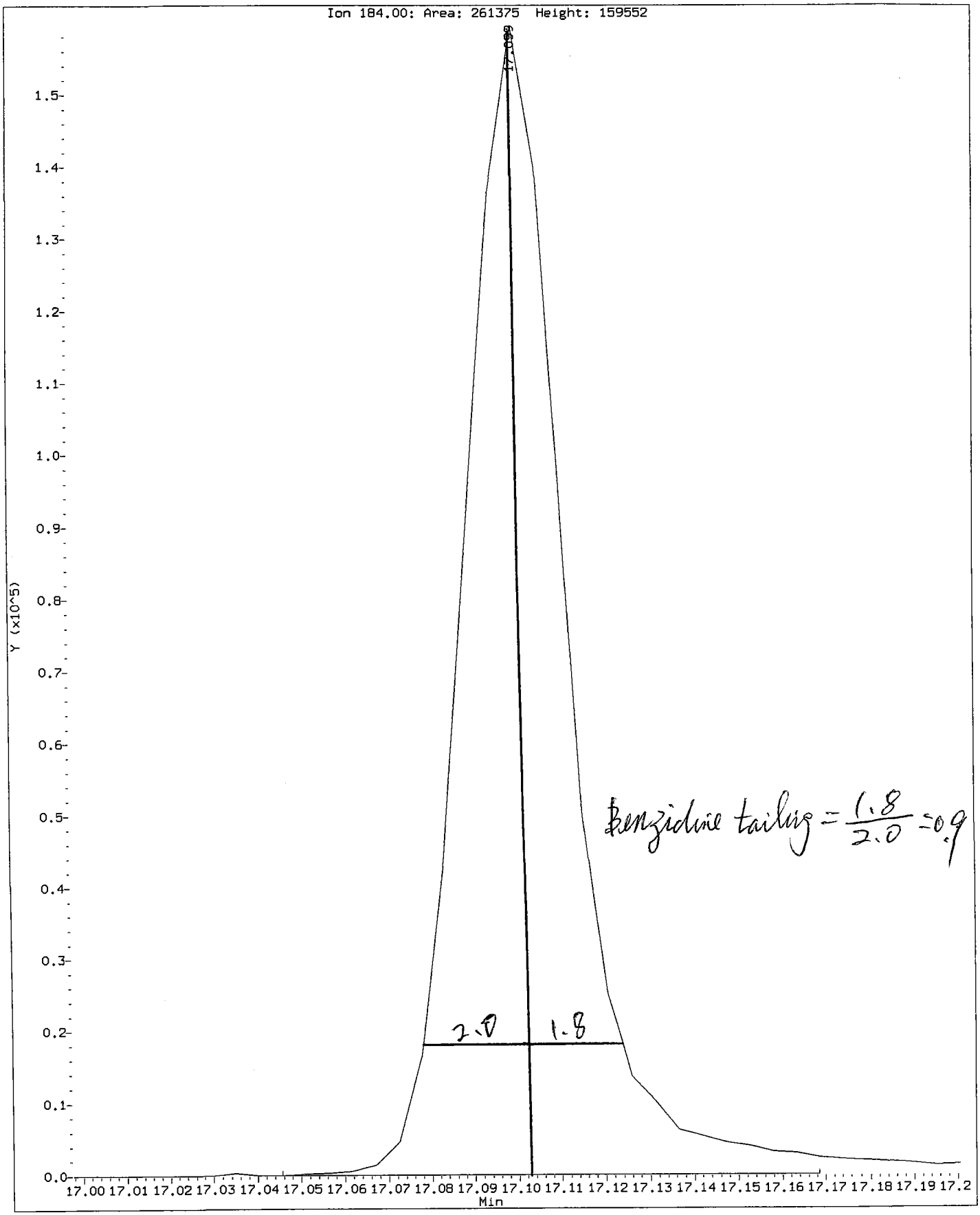
Data File: /chem1/nt6.i/20100723.b/ddt.b/07231001.D
Injection Date: 23-JUL-2010 15:01
Instrument: nt6.i
Client Sample ID: IC250723

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20100723.b/ddt.b/07231001.D
Injection Date: 23-JUL-2010 15:01
Instrument: nt6.i
Client Sample ID: IC250723

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231002.D
Lab Smp Id: IC010723 Client Smp ID: IC010723
Inj Date : 23-JUL-2010 15:38
Operator : JZ Inst ID: nt6.i
Smp Info : IC010723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 15:38 Cal File: 07231002.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/26/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.602	5.610	(0.738)	12960	1.00000	1.000
$	2 Phenol-d5	99	7.205	7.218	(0.949)	16567	1.00000	1.000
	3 Phenol	94	7.221	7.237	(0.951)	18572	1.00000	1.000
$	5 2-Chlorophenol-d4	132	7.296	7.303	(0.961)	14473	1.00000	1.000
	4 Bis(2-Chloroethyl)ether	93	7.274	7.290	(0.958)	14758	1.00000	1.000
	6 2-Chlorophenol	128	7.317	7.327	(0.964)	16158	1.00000	1.000
	7 1,3-Dichlorobenzene	146	7.525	7.530	(0.992)	19042	1.00000	1.000
*	8 1,4-Dichlorobenzene-d4	152	7.589	7.595	(1.000)	195617	20.0000	
	9 1,4-Dichlorobenzene	146	7.616	7.621	(1.004)	18283	1.00000	1.000
$	10 1,2-Dichlorobenzene-d4	152	7.888	7.896	(1.039)	9473	1.00000	1.000(M)
	12 1,2-Dichlorobenzene	146	7.910	7.915	(1.042)	17717	1.00000	1.000
	11 Benzyl alcohol	108	7.894	7.910	(1.040)	7581	1.00000	1.000
	14 2,2'-oxybis(1-Chloropropane)	45	8.155	8.161	(1.075)	15269	1.00000	1.000
	13 2-Methylphenol	108	8.150	8.166	(1.074)	13513	1.00000	1.000
	17 Hexachloroethane	117	8.396	8.406	(1.106)	6764	1.00000	1.000
	16 N-Nitroso-di-n-propylamine	70	8.369	8.390	(1.103)	9485	1.00000	1.000
	15 4-Methylphenol	108	8.385	8.406	(1.105)	13086	1.00000	1.000
$	18 Nitrobenzene-d5	82	8.529	8.542	(0.885)	13152	1.00000	1.000
	19 Nitrobenzene	77	8.556	8.572	(0.888)	15308	1.00000	1.000
	20 Isophorone	82	8.941	8.967	(0.927)	23101	1.00000	1.000
	21 2-Nitrophenol	139	9.079	9.090	(0.942)	7500	1.00000	1.000
	22 2,4-Dimethylphenol	107	9.218	9.234	(0.956)	13985	1.00000	1.000
	23 Bis(2-Chloroethoxy)methane	93	9.357	9.373	(0.971)	16110	1.00000	1.000
	25 2,4-Dichlorophenol	162	9.475	9.485	(0.983)	11462	1.00000	1.000
	26 1,2,4-Trichlorobenzene	180	9.587	9.597	(0.994)	13993	1.00000	1.000
*	27 Naphthalene-d8	136	9.640	9.651	(1.000)	619162	20.0000	
	28 Naphthalene	128	9.672	9.683	(1.003)	41597	1.00000	1.000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	29 4-Chloroaniline	127	9.838	9.843	(1.020)	15650	1.00000	1.000
	30 Hexachlorobutadiene	225	10.003	10.009	(1.038)	7937	1.00000	1.000
	31 4-Chloro-3-methylphenol	107	10.671	10.682	(1.107)	11158	1.00000	1.000(M)
	32 2-Methylnaphthalene	141	10.794	10.805	(1.120)	22525	1.00000	1.000
	33 Hexachlorocyclopentadiene	237	11.179	11.184	(0.894)	3366	1.00000	1.000
	34 2,4,6-Trichlorophenol	196	11.323	11.333	(0.906)	7217	1.00000	1.000
	35 2,4,5-Trichlorophenol	196	11.387	11.392	(0.911)	7991	1.00000	1.000
$	36 2-Fluorobiphenyl	172	11.446	11.453	(0.916)	27771	1.00000	1.000
	37 2-Chloronaphthalene	162	11.568	11.579	(0.926)	25928	1.00000	1.000
	38 2-Nitroaniline	65	11.819	11.835	(0.946)	5357	1.00000	1.000
	39 Dimethylphthalate	163	12.199	12.220	(0.976)	27471	1.00000	1.000
	40 Acenaphthylene	152	12.241	12.252	(0.979)	40068	1.00000	1.000
	41 2,6-Dinitrotoluene	165	12.289	12.305	(0.983)	5455	1.00000	1.000
*	42 Acenaphthene-d10	164	12.498	12.503	(1.000)	335561	20.0000	
	43 3-Nitroaniline	138	12.498	12.519	(1.000)	5458	1.00000	1.000
	44 Acenaphthene	153	12.546	12.562	(1.004)	24317	1.00000	1.000
	46 Dibenzofuran	168	12.808	12.823	(1.025)	33065	1.00000	1.000
	47 4-Nitrophenol	109	12.845	12.861	(1.028)	2427	1.00000	1.000(M)
	48 2,4-Dinitrotoluene	165	12.909	12.930	(1.033)	6962	1.00000	1.000
	50 Diethylphthalate	149	13.347	13.368	(1.068)	27786	1.00000	1.000
	49 Fluorene	166	13.363	13.379	(1.069)	28942	1.00000	1.000
	51 4-Chlorophenyl-phenylether	204	13.400	13.411	(1.072)	13051	1.00000	1.000
	52 4-Nitroaniline	138	13.486	13.523	(1.079)	5361	1.00000	1.000
	54 N-Nitrosodiphenylamine	169	13.609	13.630	(0.916)	19100	1.00000	1.000
$	55 2,4,6-Tribromophenol	330	13.785	13.798	(1.103)	2801	1.00000	1.000
	56 4-Bromophenyl-phenylether	248	14.175	14.185	(0.954)	7664	1.00000	1.000
	57 Hexachlorobenzene	284	14.389	14.399	(0.968)	8254	1.00000	1.000
	58 Pentachlorophenol	266	14.693	14.704	(0.989)	2935	1.00000	1.000
*	59 Phenanthrene-d10	188	14.859	14.869	(1.000)	502252	20.0000	
	60 Phenanthrene	178	14.896	14.912	(1.002)	36558	1.00000	1.000
	61 Anthracene	178	14.965	14.987	(1.007)	37076	1.00000	1.000
	62 Carbazole	167	15.264	15.280	(1.027)	34327	1.00000	1.000
	63 Di-n-butylphthalate	149	16.002	16.012	(1.077)	39082	1.00000	1.000
	64 Fluoranthene	202	16.824	16.835	(1.132)	36900	1.00000	1.000
	65 Pyrene	202	17.171	17.187	(0.897)	39792	1.00000	1.000
$	66 Terphenyl-d14	244	17.508	17.515	(0.914)	22641	1.00000	1.000
	67 Butylbenzylphthalate	149	18.410	18.421	(0.961)	15872	1.00000	1.000
	68 Benzo(a)anthracene	228	19.131	19.147	(0.999)	37113	1.00000	1.000
*	69 Chrysene-d12	240	19.153	19.169	(1.000)	533625	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.158	19.174	(1.000)	11847	1.00000	1.000
	71 Chrysene	228	19.190	19.217	(1.002)	35744	1.00000	1.000
	72 bis(2-Ethylhexyl)phthalate	149	19.414	19.420	(0.954)	20881	1.00000	1.000
*	134 Di-n-octylphthalate-d4	153	20.344	20.354	(1.000)	671548	20.0000	
	73 Di-n-octylphthalate	149	20.354	20.360	(1.001)	42955	1.00000	1.000
	74 Benzo(b)fluoranthene	252	20.776	20.803	(0.975)	37421	1.00000	1.000
	75 Benzo(k)fluoranthene	252	20.808	20.840	(0.977)	42406	1.00000	1.000
	187 Total Benzofluoranthenes	252	20.808	20.840	(0.977)	77462	2.00000	2.000(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
76	Benzo(a)pyrene	252	21.220	21.246	(0.996)	35052	1.00000	1.000
* 77	Perylene-d12	264	21.305	21.316	(1.000)	501426	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.689	22.720	(1.065)	46606	1.00000	1.000
79	Dibenzo(a,h)anthracene	278	22.710	22.747	(1.066)	34366	1.00000	1.000
80	Benzo(g,h,i)perylene	276	23.036	23.089	(1.081)	43155	1.00000	1.000
90	N-Nitrosodimethylamine	74	2.718	2.750	(0.358)	8653	1.00000	1.000
103	Pyridine	79	2.713	2.702	(0.357)	13072	1.00000	1.000(M)
91	Aniline	93	7.151	7.157	(0.942)	20217	1.00000	1.000
105	1-methylnaphthalene	141	10.965	10.975	(1.137)	22955	1.00000	1.000
93	Benzidine	184	17.102	17.107	(0.893)	12076	1.00000	1.000
111	Azobenzene (1,2-DP-Hydrazine)	77	13.646	13.667	(1.092)	26415	1.00000	1.000
143	1,4-Dioxane	88	2.152	2.168	(0.284)	5821	1.00000	1.000
$ 137	d8-1,4-Dioxane	96	2.109	2.125	(0.278)	5561	1.00000	1.000
144	alpha-Terpineol	59	9.715	9.731	(1.008)	7796	1.00000	1.000
98	Retene	219	17.753	17.759	(0.927)	11931	1.00000	1.000
133	Butylatedhydroxytoluene	205	12.695	12.706	(1.016)	21964	1.00000	1.000
115	Tributyl Phosphate	99	13.726	13.763	(0.924)	28341	1.00000	1.000
116	Dibutyl Phenyl Phosphate	175	15.446	15.457	(1.040)	17234	1.00000	1.000
117	Butyl Diphenyl Phosphate	94	17.123	17.134	(0.894)	6172	1.00000	1.000
118	Triphenyl Phosphate	326	18.720	18.731	(0.977)	5942	1.00000	1.000
123	Acetophenone	105	8.300	8.316	(1.094)	18028	1.00000	1.000
179	n-Decane	57	7.440	7.450	(0.980)	12744	1.00000	1.000
180	n-Octadecane	57	14.826	14.832	(0.998)	11732	1.00000	1.000
168	Pentachlorobenzene	250	12.850	12.866	(1.028)	10098	1.00000	1.000
113	Diphenyl Oxide	170	11.777	11.782	(0.942)	25762	1.00000	1.000
112	Biphenyl	154	11.579	11.590	(0.926)	31556	1.00000	
120	2,3,4,6-Tetrachlorophenol	232	13.107	13.112	(1.049)	6165	1.00000	1.000
151	1,2,4,5-Tetrachlorobenzene	216	11.136	11.141	(0.891)	13502	1.00000	1.000
110	Tetrachloroguaiacol	247	14.821	14.842	(0.997)	3748	2.00000	
109	3,4,5-Trichloroguaiacol	213	13.203	13.219	(0.889)	2088	1.00000	
181	3,4,6-Trichloroguaiacol	211	13.320	13.331	(1.755)	2419	1.00000	
108	4,5,6-Trichloroguaiacol	213	14.239	14.250	(1.139)	1998	1.00000	
184	3,4-Dichloroguaiacol	192	11.670	11.675	(1.538)	2055	1.00000	
107	4,5-Dichloroguaiacol	192	12.460	12.476	(0.997)	5561	2.00000	
182	4,6-Dichloroguaiacol	192	12.460	12.476	(1.642)	5561	2.00000	
185	4-Chloroguaiacol	115	10.586	10.596	(1.395)	1238	0.50000	
186	Carbaryl	144	15.686	15.702	(1.056)	13304	1.00000	1.000
106	Guaiacol	124	8.572	8.588	(1.129)	12877	1.00000	1.000

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231002.D
Lab Smp Id: IC010723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC010723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	195617	7.02
27 Naphthalene-d8	584137	292068	1168274	619162	6.00
42 Acenaphthene-d10	320442	160221	640884	335561	4.72
59 Phenanthrene-d10	503793	251896	1007586	502252	-0.31
69 Chrysene-d12	532343	266172	1064686	533625	0.24
134 Di-n-octylphthala	719428	359714	1438856	671548	-6.66
77 Perylene-d12	517269	258634	1034538	501426	-3.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	-0.03
27 Naphthalene-d8	9.64	9.14	10.14	9.64	-0.03
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.02
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	-0.02
69 Chrysene-d12	19.16	18.66	19.66	19.15	-0.04
134 Di-n-octylphthala	20.35	19.85	20.85	20.34	-0.01
77 Perylene-d12	21.31	20.81	21.81	21.31	-0.01

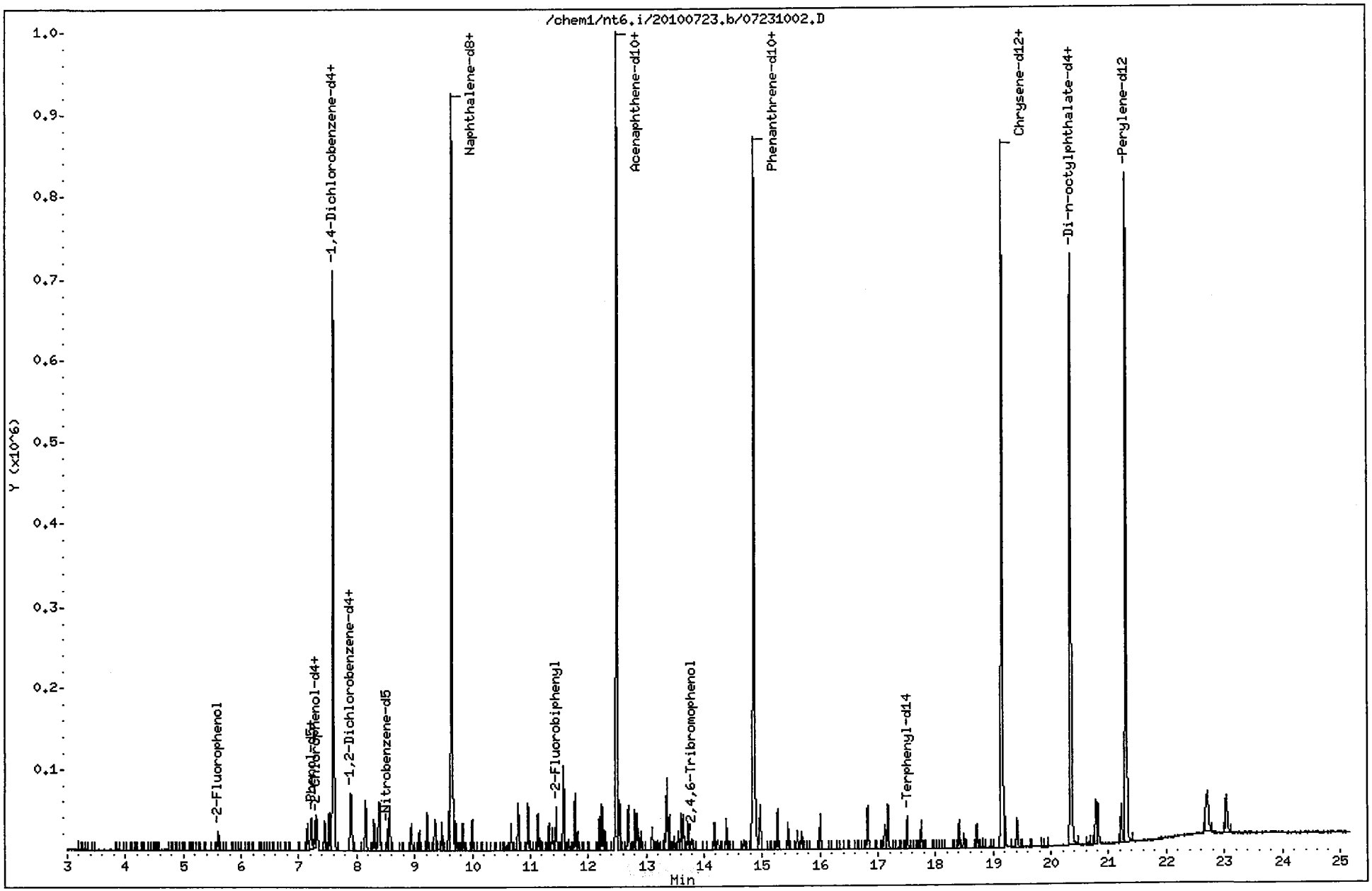
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231002.D
Date : 23-JUL-2010 15:38
Client ID: IC010723
Sample Info: IC010723,

Instrument: nt6.i

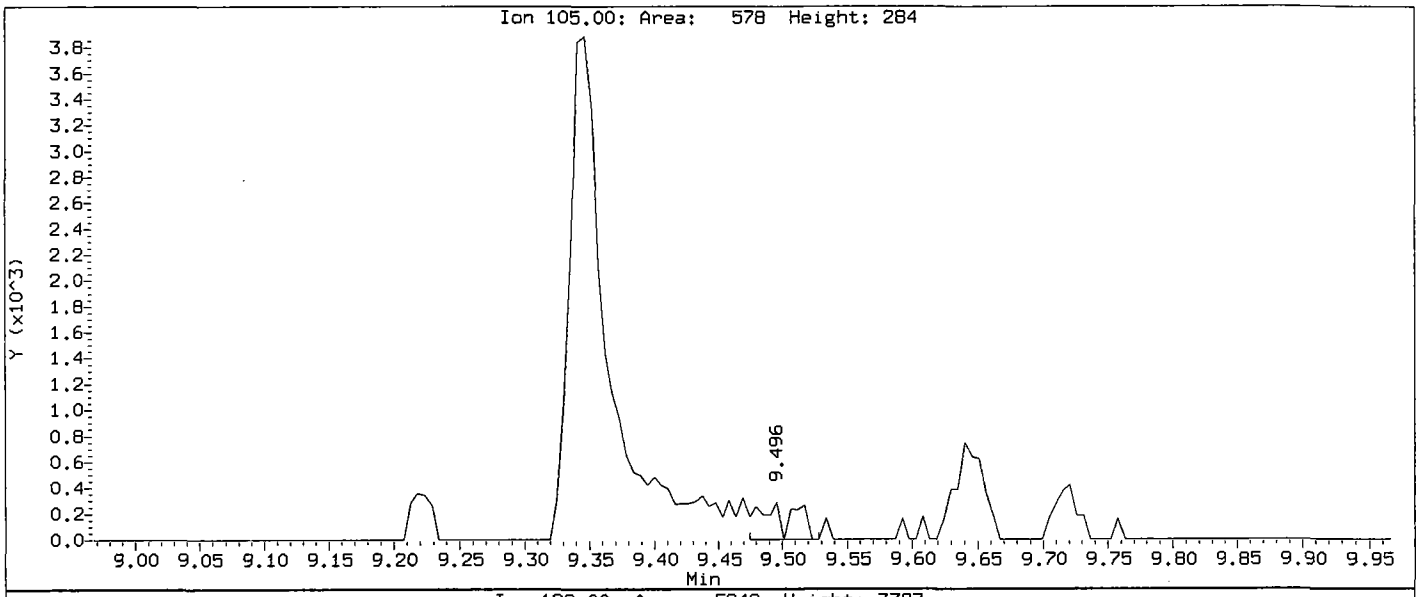
Operator: JZ
Column diameter: 0.32

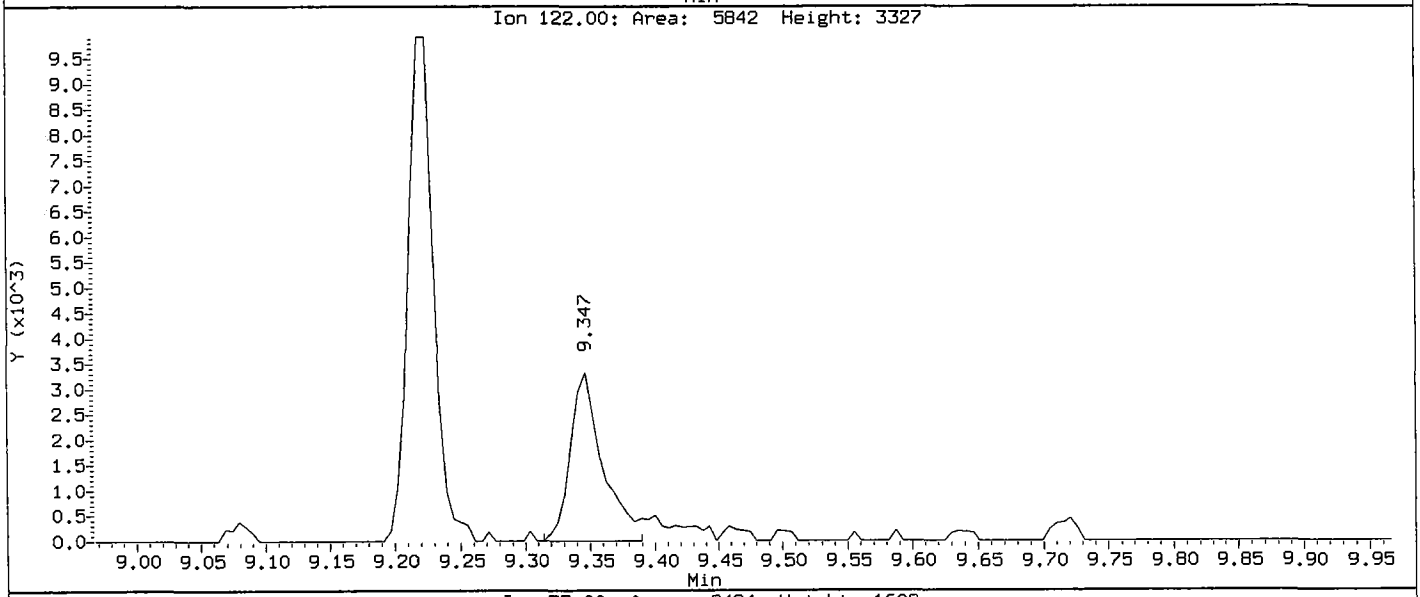
Column phase: ZB-5msi

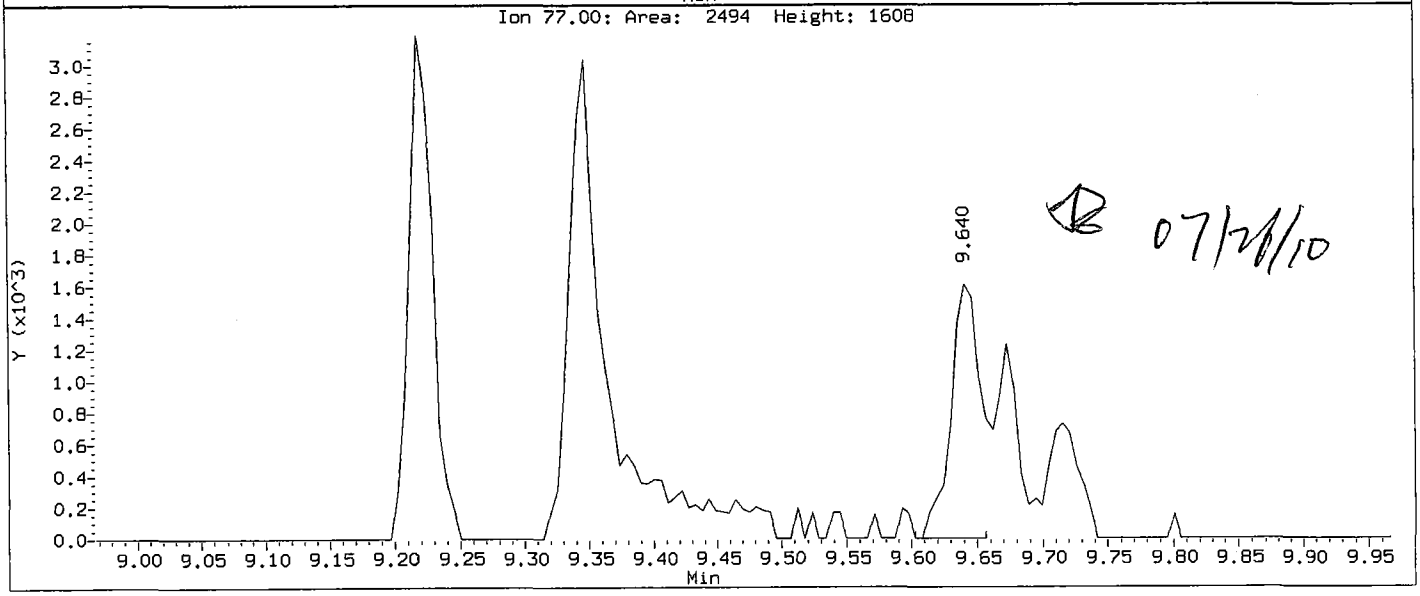


Data File: /chem1/nt6.i/20100723.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

Compound: Benzoic acid
CAS Number: 65-85-0



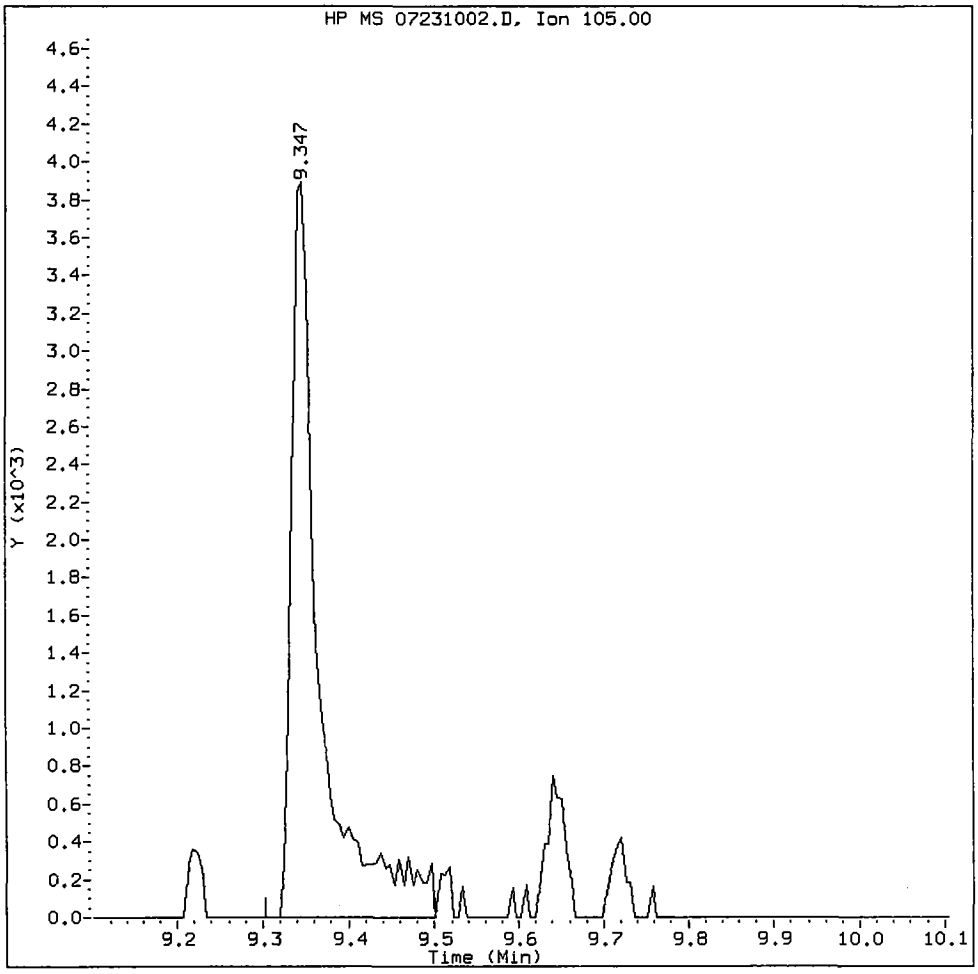




07/26/10

IC010723, /chem1/nt6.i/20100723.b/07231002.D

Benzoic acid Amount: 0.00 Area: 8860



MANUAL INTEGRATION for Benzoic acid

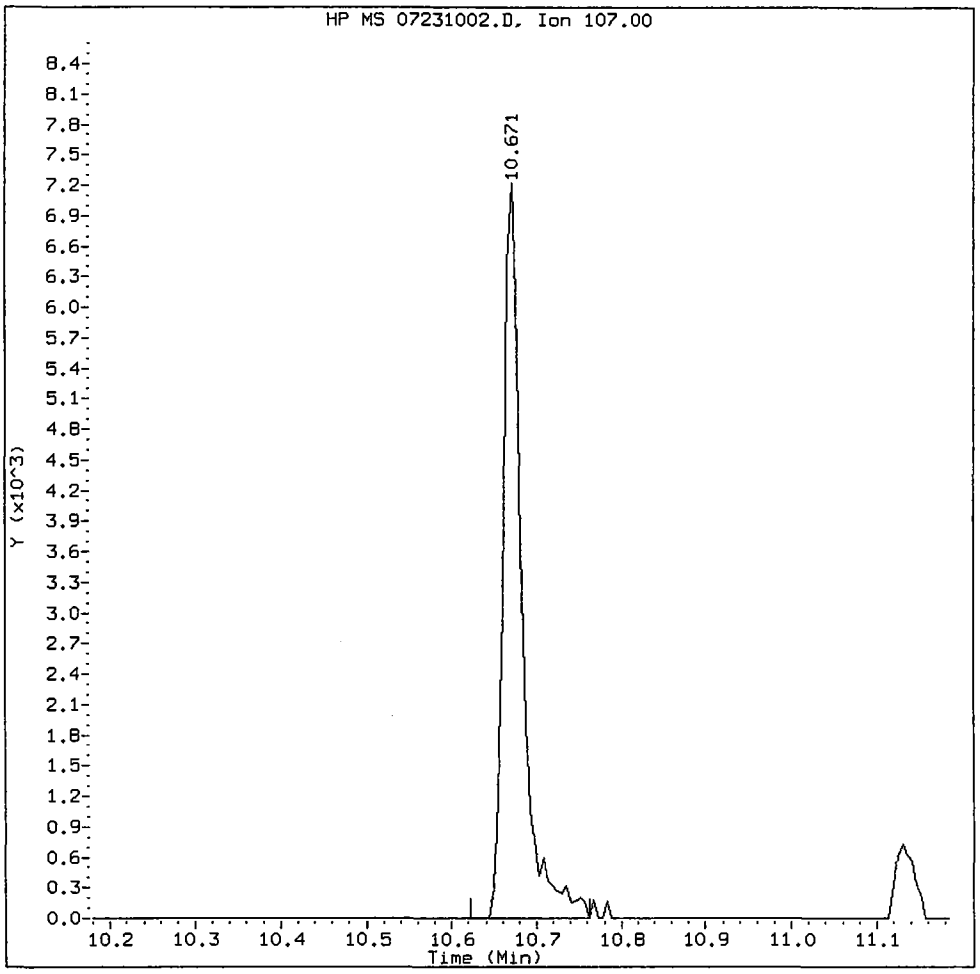
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date 07/26/10

IC010723, /chem1/nt6.i/20100723.b/07231002.D

4-Chloro-3-methylphenol Amount: 1.00 Area: 11158



MANUAL INTEGRATION for 4-Chloro-3-methylphenol

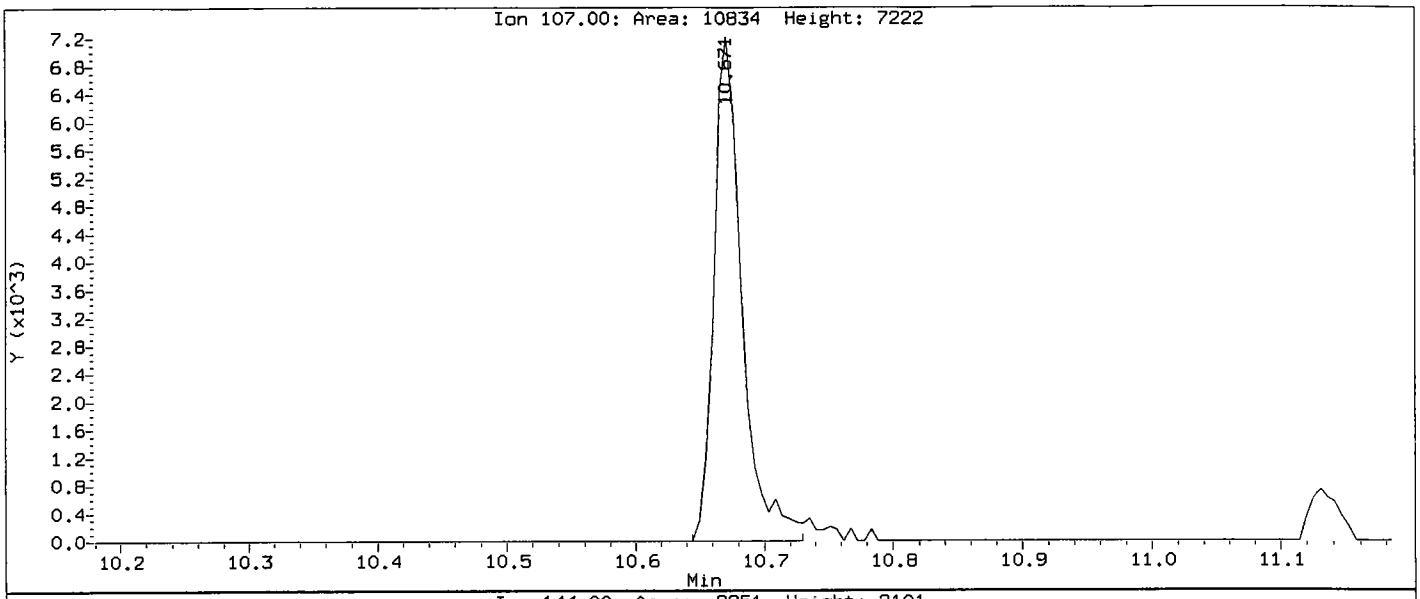
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

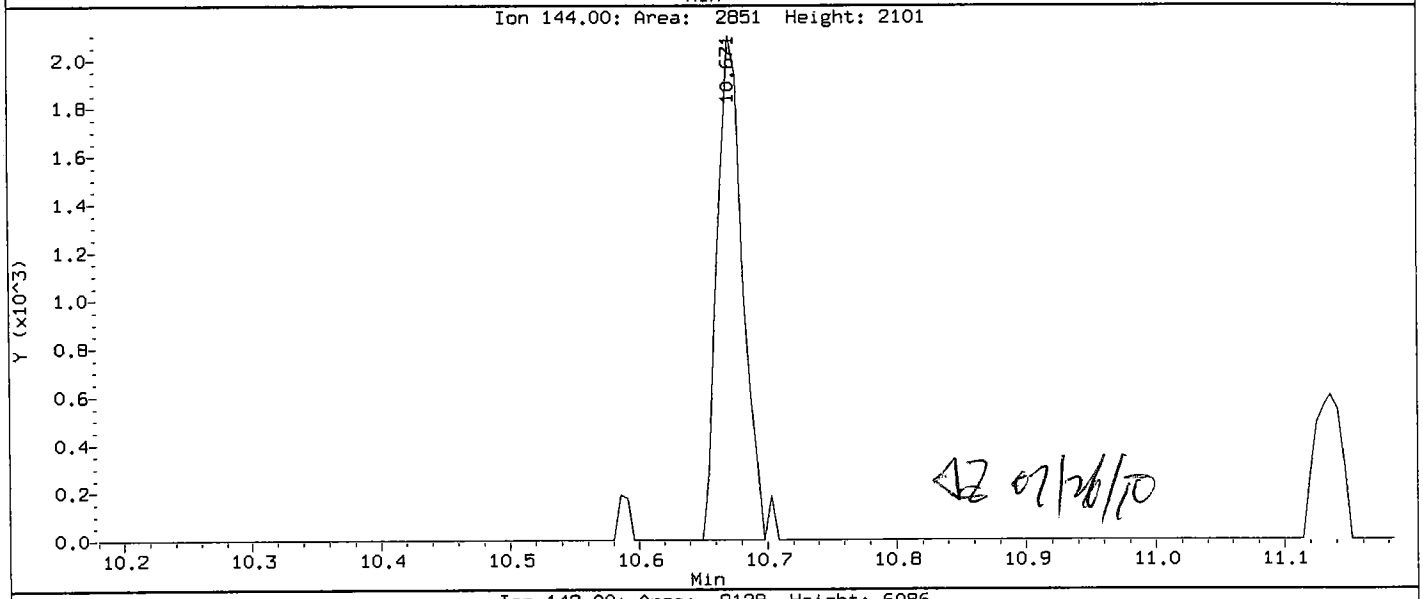
5. Other _____

Analyst: _____ Date: 07/26/10

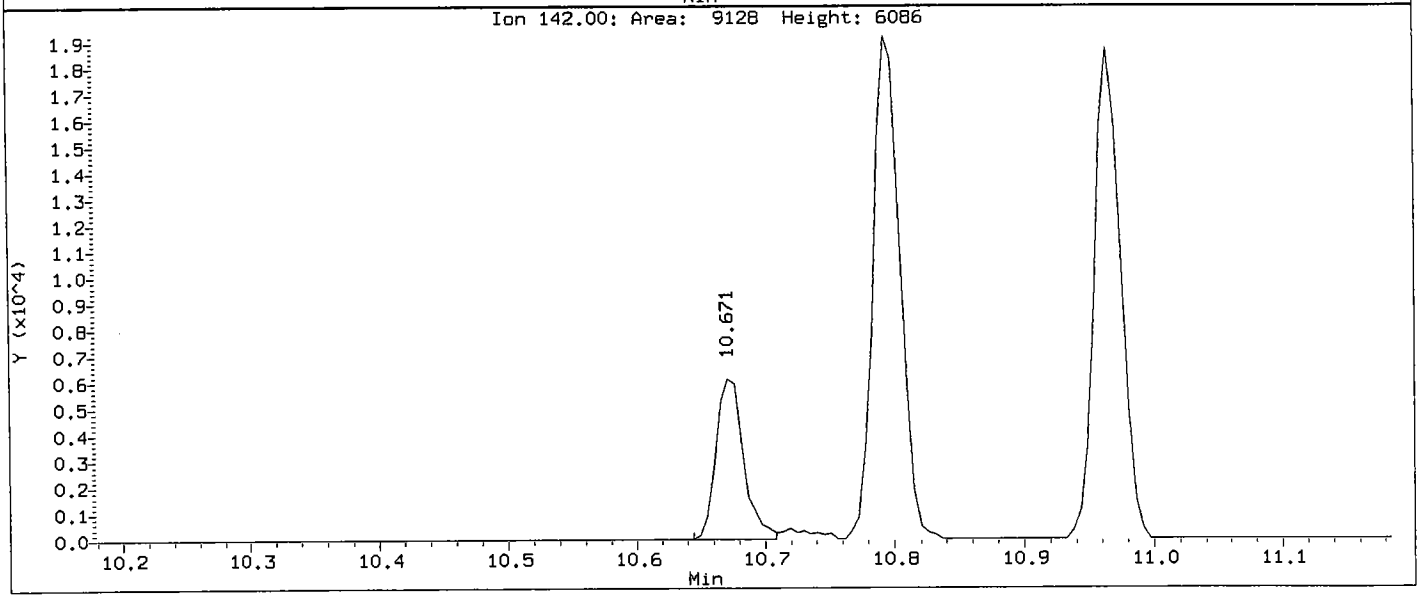
Data File: /chem1/nt6.i/20100723A.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

Compound: 4-Chloro-3-methylphenol
CAS Number: 59-50-7



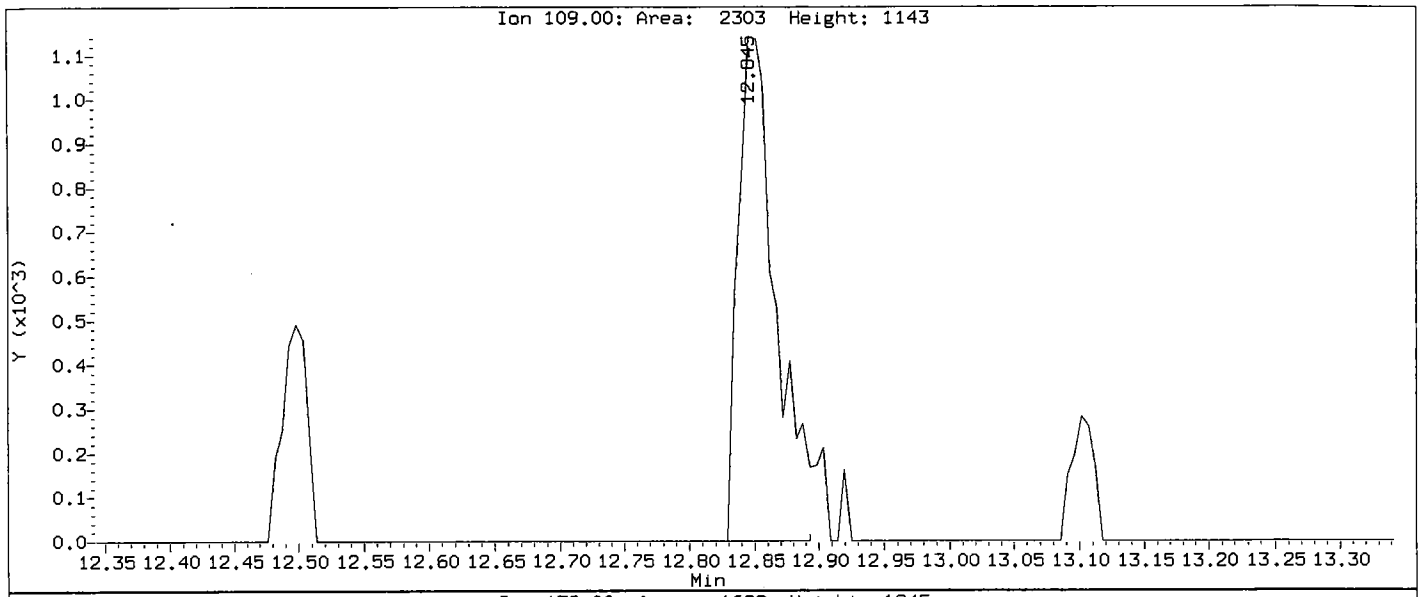


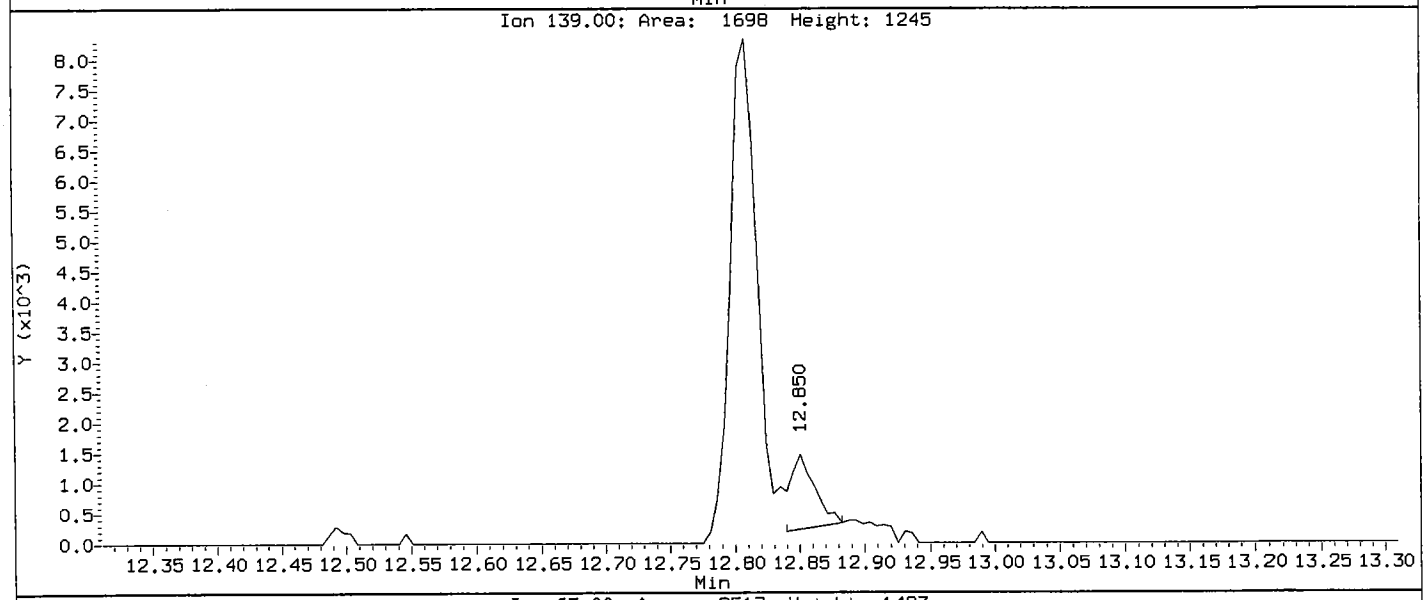
AZ 07/26/10

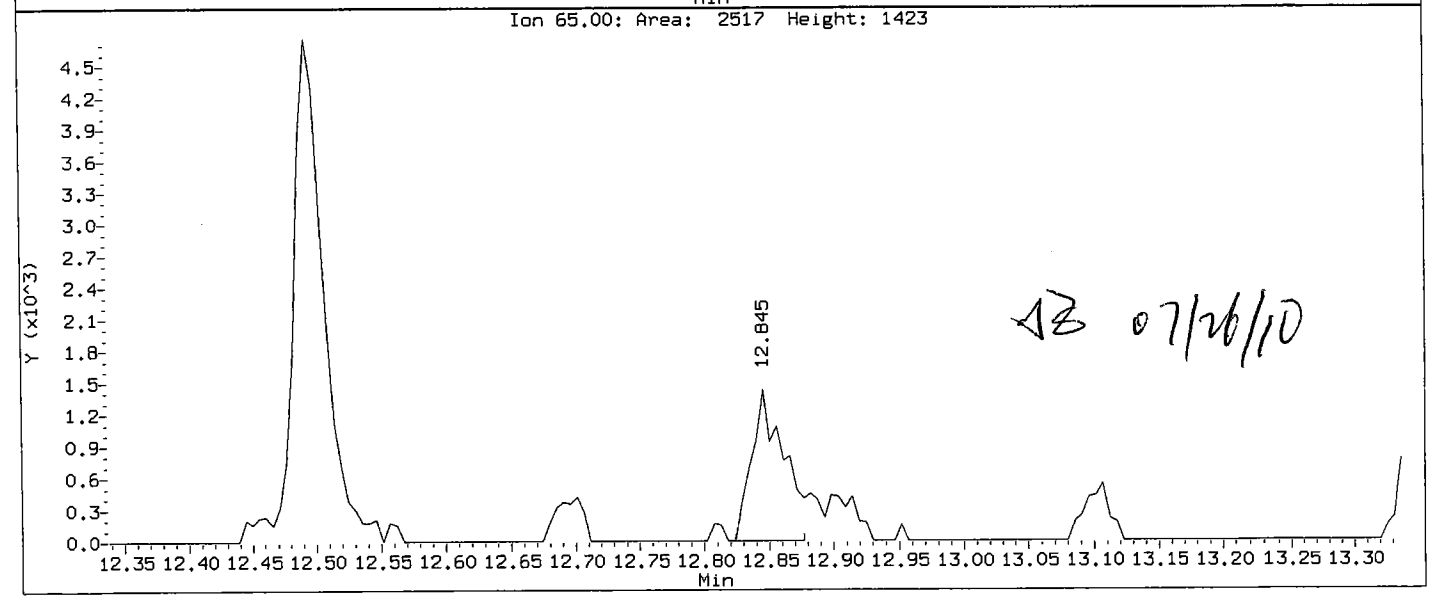


Data File: /chem1/nt6.i/20100723.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

Compound: 4-Nitrophenol
CAS Number: 100-02-7





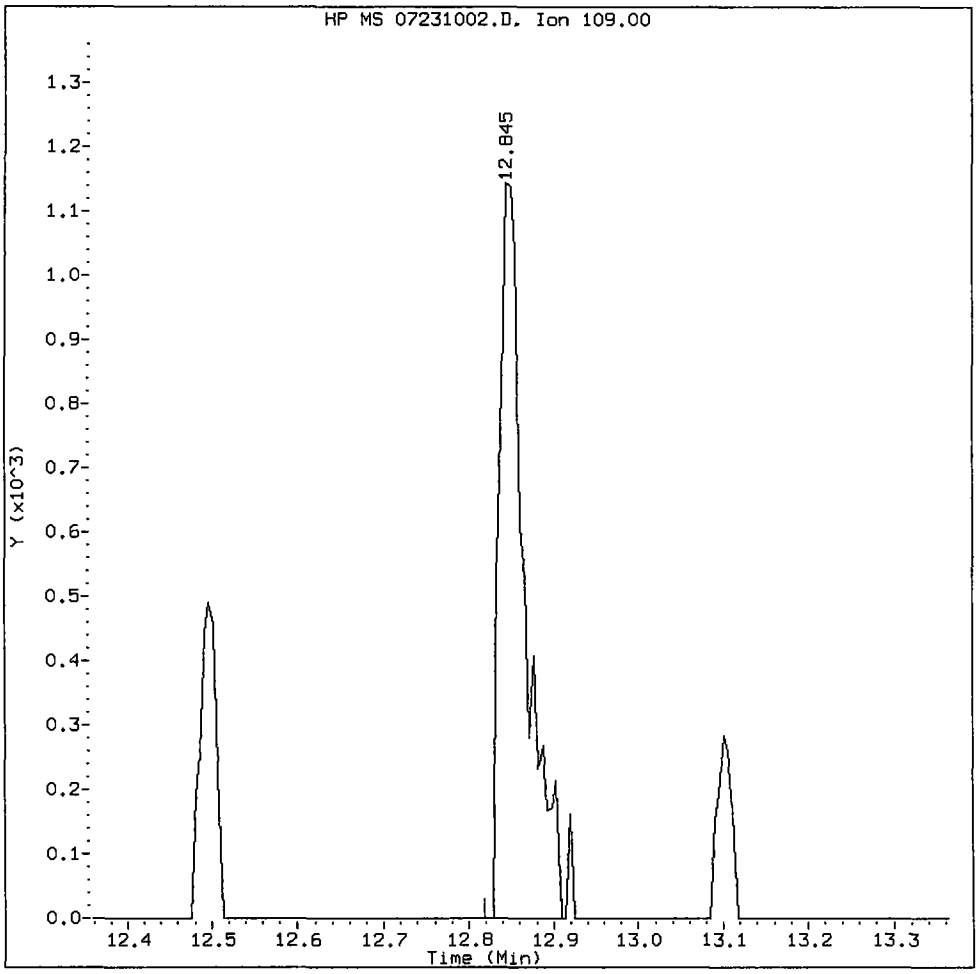


AB 07/26/10

RG78 : 00602

IC010723, /chem1/nt6.i/20100723.b/07231002.D

4-Nitrophenol Amount: 1.00 Area: 2427



MANUAL INTEGRATION for 4-Nitrophenol

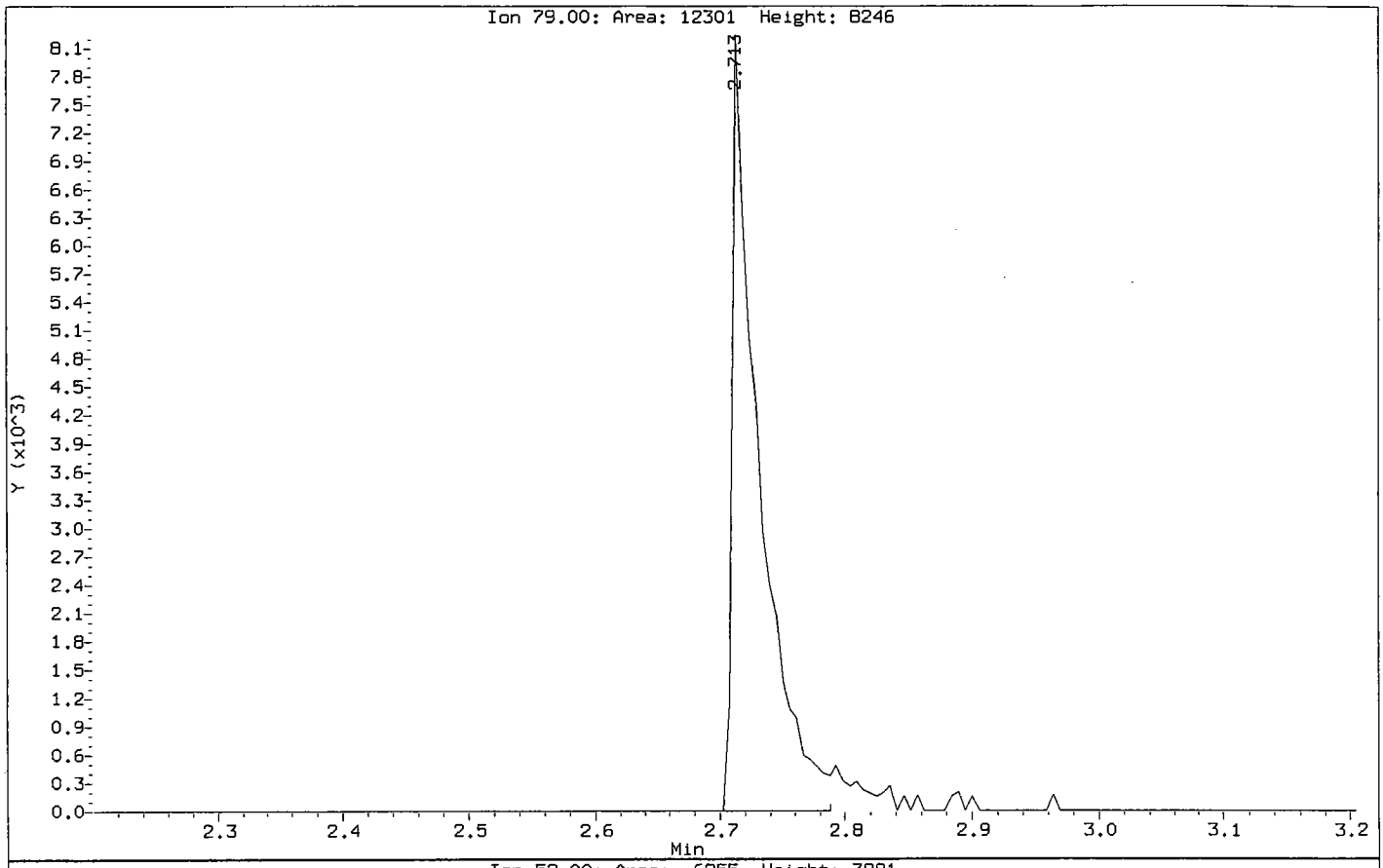
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

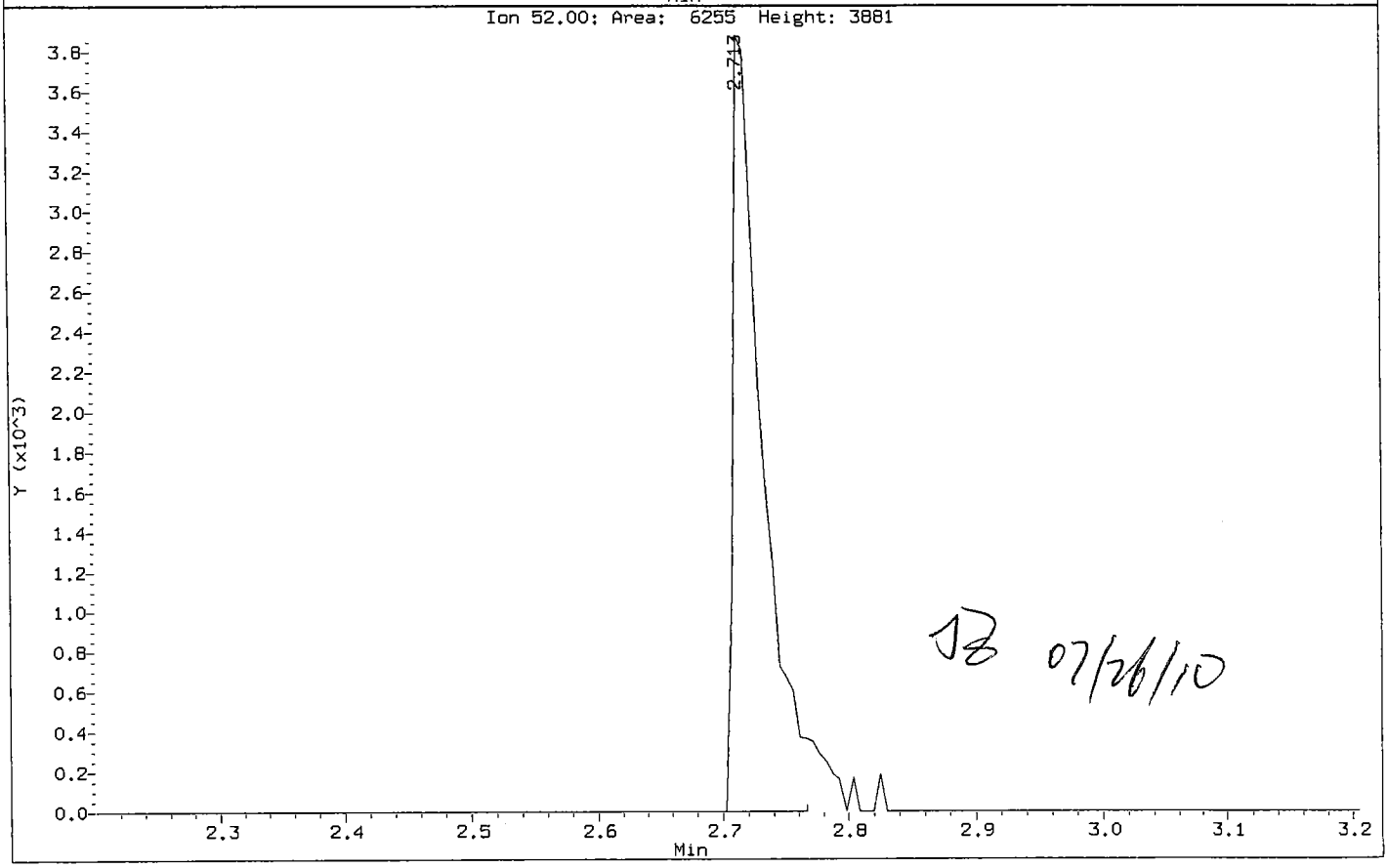
5. Other _____

Analyst: _____ Date: 07/26/10

Data File: /chem1/nt6.i/20100723.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

Compound: Pyridine
CAS Number:

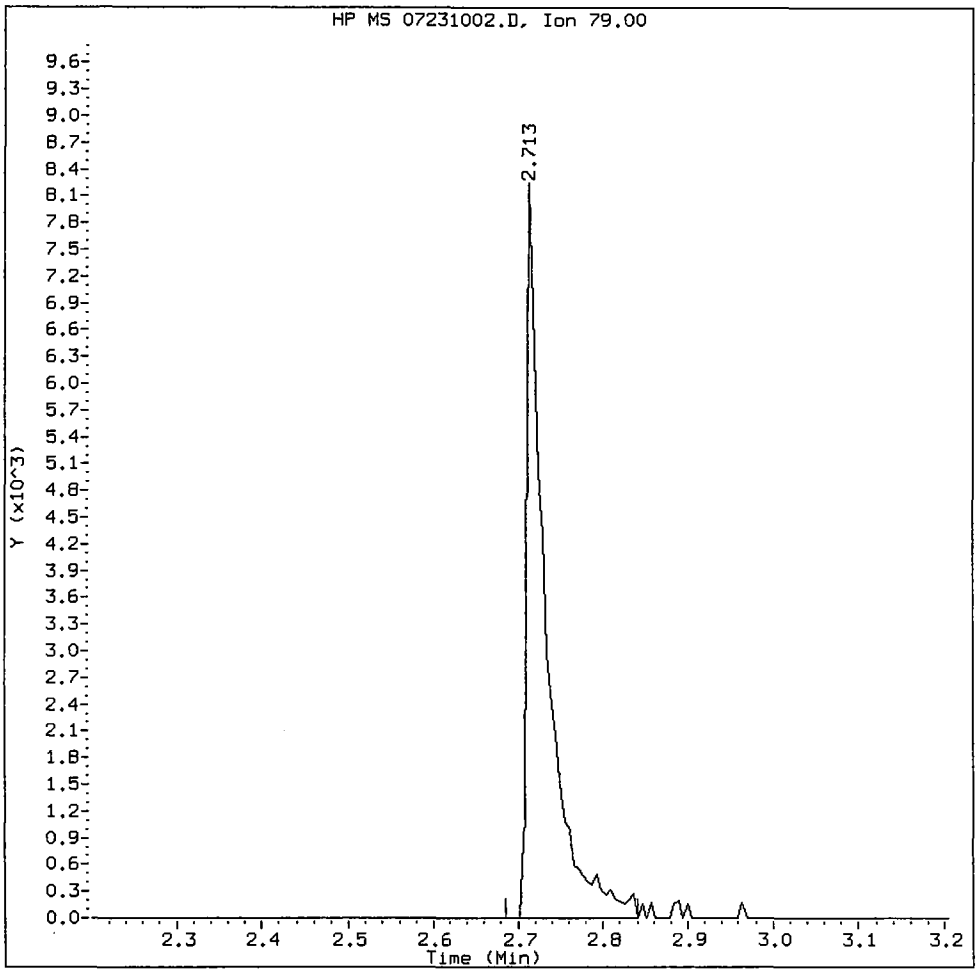




JB 07/26/10

IC010723, /chem1/nt6.i/20100723.b/07231002.D

Pyridine Amount: 1.00 Area: 13072



MANUAL INTEGRATION for Pyridine

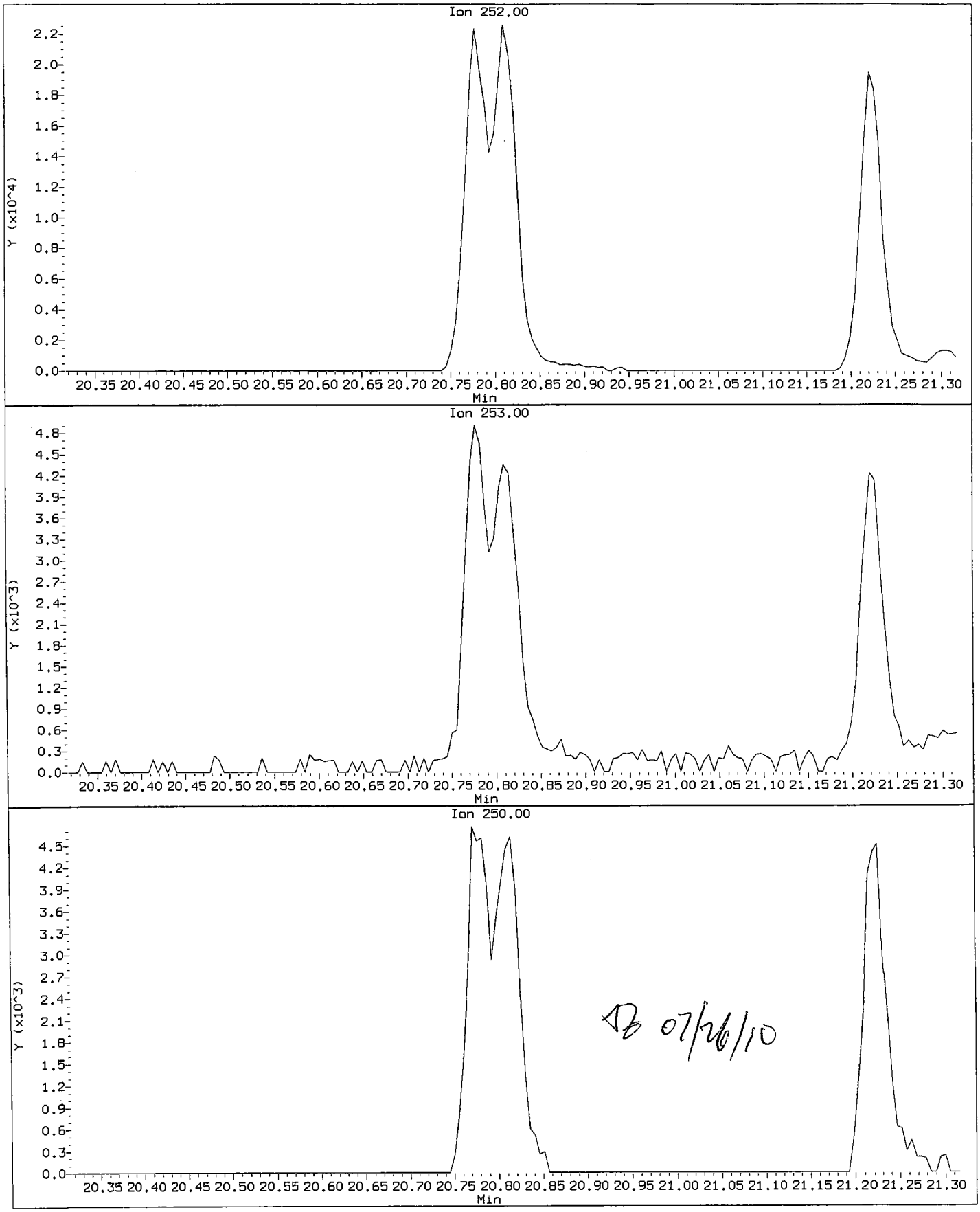
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Data File: /chem1/nt6.i/20100723.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

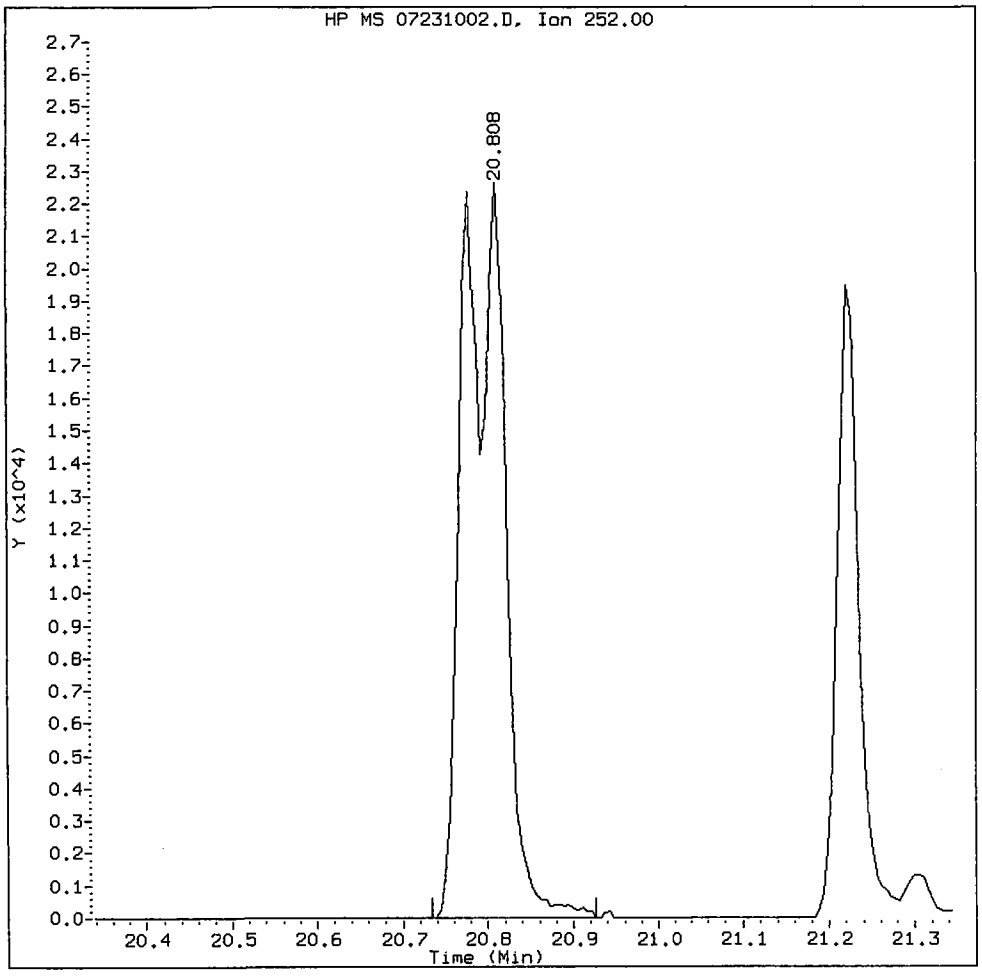
Compound: Total Benzofluoranthenes
CAS Number:



DB 07/26/10

IC010723, /chem1/nt6.i/20100723.b/07231002.D

Total Benzofluoranthenes Amount: 2.00 Area: 77462



MANUAL INTEGRATION for Total Benzofluoranthenes

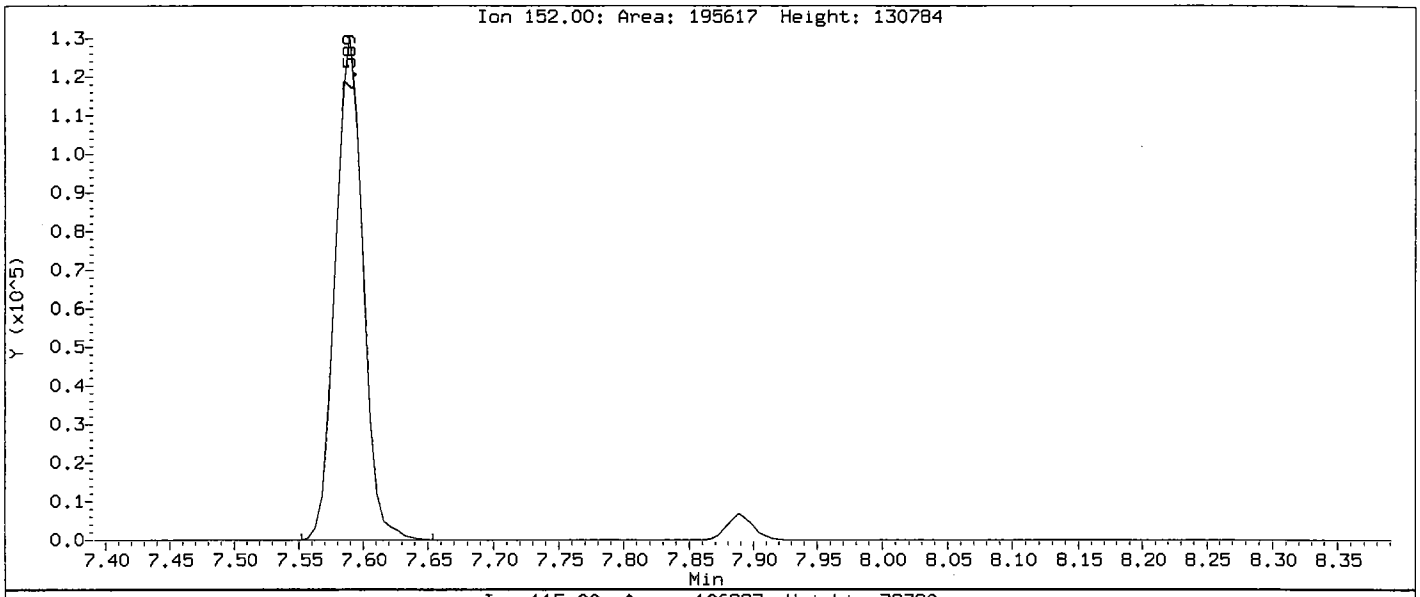
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

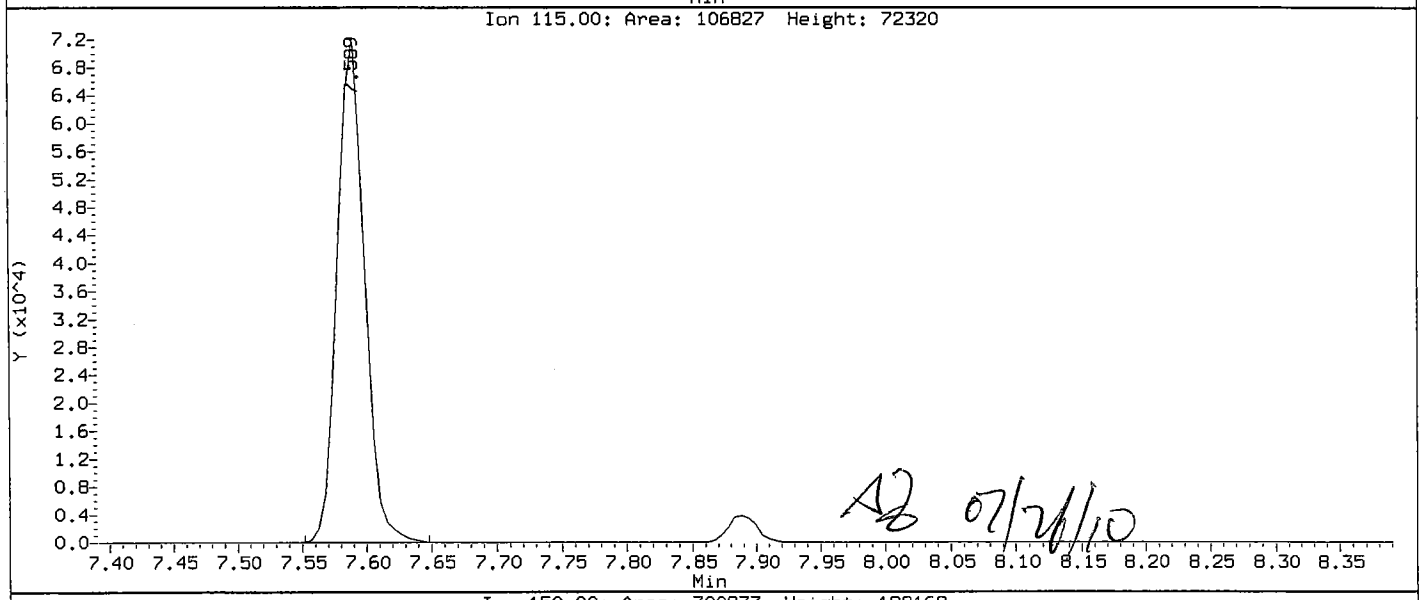
5. Other _____

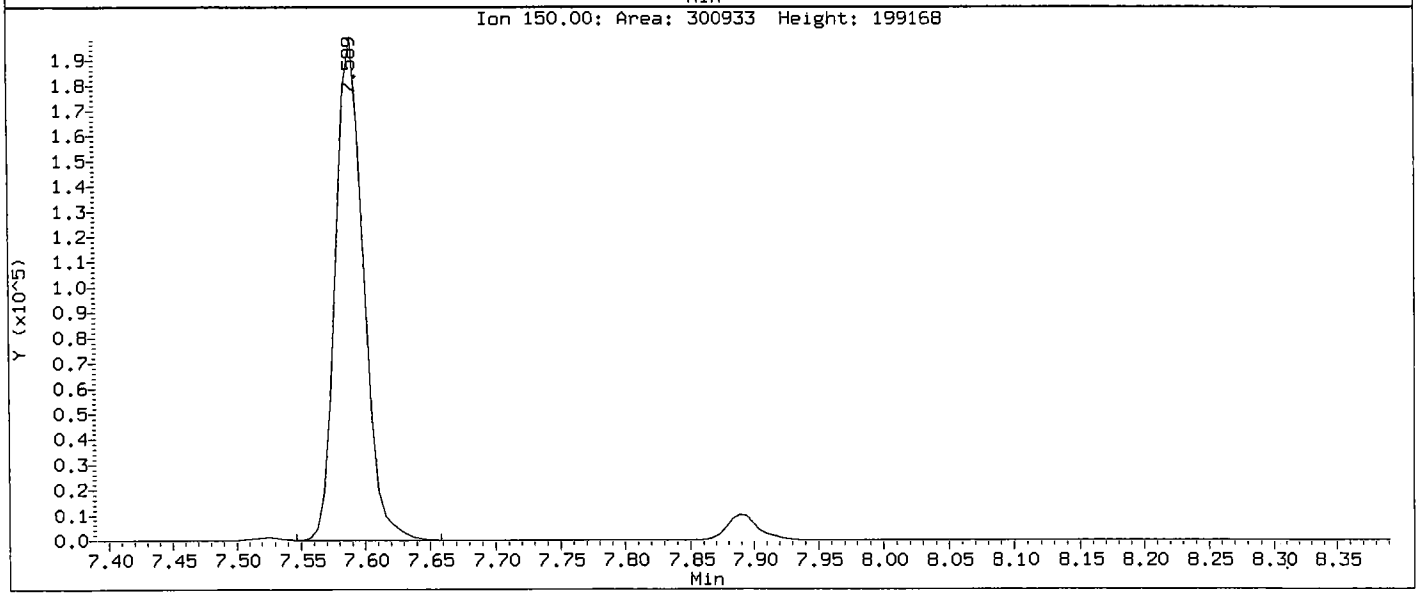
Analyst: _____ Date: 07/16/10

Data File: /chem1/nt6.i/20100723.b/07231002.D
Injection Date: 23-JUL-2010 15:38
Instrument: nt6.i
Client Sample ID: IC010723

Compound: 1,2-Dichlorobenzene-d4
CAS Number: 2199-69-1

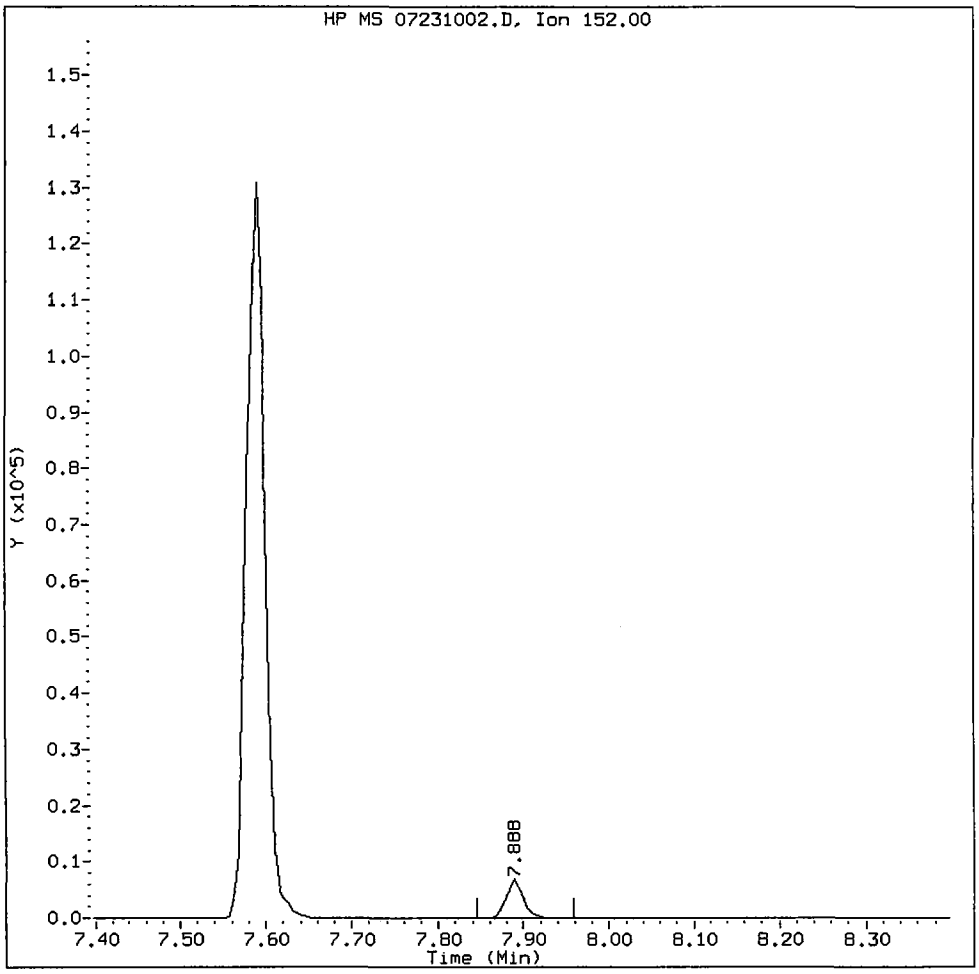






IC010723, /chem1/nt6.i/20100723.b/07231002.D

1,2-Dichlorobenzene-d4 Amount: 1.00 Area: 9473



MANUAL INTEGRATION for 1,2-Dichlorobenzene-d4

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT confirmation

Analyst: [signature] Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231003.D
Lab Smp Id: IC050723 Client Smp ID: IC050723
Inj Date : 23-JUL-2010 16:16
Operator : JZ Inst ID: nt6.i
Smp Info : IC050723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 16:16 Cal File: 07231003.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/26/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1	2-Fluorophenol	112	5.601	5.610	(0.738)	62073	5.00000	4.981
$	2	Phenol-d5	99	7.204	7.218	(0.949)	73294	5.00000	4.782
	3	Phenol	94	7.220	7.237	(0.951)	91025	5.00000	5.038
$	5	2-Chlorophenol-d4	132	7.295	7.303	(0.961)	61520	5.00000	4.683
	4	Bis(2-Chloroethyl)ether	93	7.273	7.290	(0.958)	64256	5.00000	4.742
	6	2-Chlorophenol	128	7.316	7.327	(0.964)	76417	5.00000	4.949
	7	1,3-Dichlorobenzene	146	7.524	7.530	(0.992)	84066	5.00000	4.777
*	8	1,4-Dichlorobenzene-d4	152	7.588	7.595	(1.000)	188843	20.0000	
	9	1,4-Dichlorobenzene	146	7.615	7.621	(1.004)	80512	5.00000	4.771
$	10	1,2-Dichlorobenzene-d4	152	7.887	7.896	(1.039)	42333	5.00000	4.807
	12	1,2-Dichlorobenzene	146	7.909	7.915	(1.042)	77428	5.00000	4.752
	11	Benzyl alcohol	108	7.893	7.910	(1.040)	37693	5.00000	5.074
	14	2,2'-oxybis(1-Chloropropane)	45	8.160	8.161	(1.075)	68852	5.00000	4.830
	13	2-Methylphenol	108	8.155	8.166	(1.075)	65950	5.00000	5.028
	17	Hexachloroethane	117	8.400	8.406	(1.107)	29693	5.00000	4.763
	16	N-Nitroso-di-n-propylamine	70	8.368	8.390	(1.103)	42945	5.00000	4.840
	15	4-Methylphenol	108	8.389	8.406	(1.106)	67797	5.00000	5.177
$	18	Nitrobenzene-d5	82	8.528	8.542	(0.885)	56653	5.00000	4.683
	19	Nitrobenzene	77	8.560	8.572	(0.888)	67842	5.00000	4.754
	20	Isophorone	82	8.945	8.967	(0.928)	104816	5.00000	4.812
	21	2-Nitrophenol	139	9.079	9.090	(0.942)	39084	5.00000	5.159
	22	2,4-Dimethylphenol	107	9.217	9.234	(0.956)	68790	5.00000	5.014
	23	Bis(2-Chloroethoxy)methane	93	9.356	9.373	(0.971)	72352	5.00000	4.787
	24	Benzoic acid	105	9.383	9.603	(0.973)	76776	10.0000	10.00
	25	2,4-Dichlorophenol	162	9.474	9.485	(0.983)	59625	5.00000	5.154
	26	1,2,4-Trichlorobenzene	180	9.591	9.597	(0.995)	61064	5.00000	4.715
*	27	Naphthalene-d8	136	9.639	9.651	(1.000)	605649	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.671	9.683	(1.003)	181764	5.00000	4.719
	29 4-Chloroaniline	127	9.837	9.843	(1.020)	72237	5.00000	4.855
	30 Hexachlorobutadiene	225	10.003	10.009	(1.038)	34322	5.00000	4.693
	31 4-Chloro-3-methylphenol	107	10.670	10.682	(1.107)	55875	5.00000	5.059
	32 2-Methylnaphthalene	141	10.798	10.805	(1.120)	96623	5.00000	4.673
	33 Hexachlorocyclopentadiene	237	11.183	11.184	(0.895)	24140	5.00000	5.946
	34 2,4,6-Trichlorophenol	196	11.322	11.333	(0.906)	38607	5.00000	5.224
	35 2,4,5-Trichlorophenol	196	11.380	11.392	(0.911)	38732	5.00000	4.978
$	36 2-Fluorobiphenyl	172	11.450	11.453	(0.916)	116339	5.00000	4.614
	37 2-Chloronaphthalene	162	11.567	11.579	(0.926)	115487	5.00000	4.767
	38 2-Nitroaniline	65	11.818	11.835	(0.946)	26745	5.00000	5.052
	39 Dimethylphthalate	163	12.198	12.220	(0.976)	122958	5.00000	4.779
	40 Acenaphthylene	152	12.246	12.252	(0.980)	181028	5.00000	4.802
	41 2,6-Dinitrotoluene	165	12.288	12.305	(0.983)	28217	5.00000	5.140
*	42 Acenaphthene-d10	164	12.497	12.503	(1.000)	328204	20.0000	
	43 3-Nitroaniline	138	12.497	12.519	(1.000)	27727	5.00000	5.095
	44 Acenaphthene	153	12.545	12.562	(1.004)	107606	5.00000	4.750
	45 2,4-Dinitrophenol	184	12.662	12.690	(1.013)	26211	10.0000	10.00
	46 Dibenzofuran	168	12.807	12.823	(1.025)	142947	5.00000	4.692
	47 4-Nitrophenol	109	12.839	12.861	(1.027)	15729	5.00000	5.699 (M)
	48 2,4-Dinitrotoluene	165	12.908	12.930	(1.033)	35468	5.00000	5.102
	50 Diethylphthalate	149	13.351	13.368	(1.068)	118248	5.00000	4.653
	49 Fluorene	166	13.362	13.379	(1.069)	123844	5.00000	4.667
	51 4-Chlorophenyl-phenylether	204	13.399	13.411	(1.072)	58261	5.00000	4.772
	52 4-Nitroaniline	138	13.485	13.523	(1.079)	28297	5.00000	5.191
	53 4,6-Dinitro-2-methylphenol	198	13.554	13.593	(0.912)	43858	10.0000	10.00
	54 N-Nitrosodiphenylamine	169	13.608	13.630	(0.916)	87899	5.00000	4.840
$	55 2,4,6-Tribromophenol	330	13.784	13.798	(1.103)	13235	5.00000	4.914
	56 4-Bromophenyl-phenylether	248	14.179	14.185	(0.954)	35138	5.00000	4.831
	57 Hexachlorobenzene	284	14.382	14.399	(0.968)	37907	5.00000	4.835
	58 Pentachlorophenol	266	14.692	14.704	(0.989)	19791	5.00000	5.789
*	59 Phenanthrene-d10	188	14.858	14.869	(1.000)	492773	20.0000	
	60 Phenanthrene	178	14.895	14.912	(1.003)	159461	5.00000	4.707
	61 Anthracene	178	14.964	14.987	(1.007)	166219	5.00000	4.775
	62 Carbazole	167	15.263	15.280	(1.027)	158046	5.00000	4.841
	63 Di-n-butylphthalate	149	16.001	16.012	(1.077)	192052	5.00000	5.004
	64 Fluoranthene	202	16.823	16.835	(1.132)	177338	5.00000	4.949
	65 Pyrene	202	17.176	17.187	(0.897)	178662	5.00000	4.347
$	66 Terphenyl-d14	244	17.512	17.515	(0.914)	96507	5.00000	4.220
	67 Butylbenzylphthalate	149	18.404	18.421	(0.961)	80552	5.00000	4.651
	68 Benzo(a)anthracene	228	19.130	19.147	(0.999)	166136	5.00000	4.340
*	69 Chrysene-d12	240	19.157	19.169	(1.000)	623042	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.162	19.174	(1.000)	55077	5.00000	4.433
	71 Chrysene	228	19.194	19.217	(1.002)	155906	5.00000	4.276
	72 bis(2-Ethylhexyl)phthalate	149	19.413	19.420	(0.954)	108145	5.00000	5.037
*	134 Di-n-octylphthalate-d4	153	20.343	20.354	(1.000)	685489	20.0000	
	73 Di-n-octylphthalate	149	20.354	20.360	(1.001)	194029	5.00000	4.695

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.781	20.803	(0.975)	166719	5.00000	4.671
75	Benzo(k)fluoranthene	252	20.813	20.840	(0.977)	198908	5.00000	4.799
187	Total Benzofluoranthenes	252	20.813	20.840	(0.977)	344081	10.0000	9.327(M)
76	Benzo(a)pyrene	252	21.224	21.246	(0.996)	164015	5.00000	4.793
* 77	Perylene-d12	264	21.304	21.316	(1.000)	509773	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.688	22.720	(1.065)	216702	5.00000	4.777
79	Dibenzo(a,h)anthracene	278	22.714	22.747	(1.066)	169511	5.00000	4.925
80	Benzo(g,h,i)perylene	276	23.040	23.089	(1.081)	196333	5.00000	4.723
90	N-Nitrosodimethylamine	74	2.717	2.750	(0.358)	39738	5.00000	4.876
103	Pyridine	79	2.696	2.702	(0.355)	71561	5.00000	5.314
91	Aniline	93	7.150	7.157	(0.942)	95044	5.00000	4.934
105	1-methylnaphthalene	141	10.964	10.975	(1.137)	100691	5.00000	4.728
93	Benzidine	184	17.095	17.107	(0.892)	68739	5.00000	4.937
111	Azobenzene (1,2-DP-Hydrazine)	77	13.650	13.667	(1.092)	117681	5.00000	4.767
143	1,4-Dioxane	88	2.146	2.168	(0.283)	26093	5.00000	4.815
$ 137	d8-1,4-Dioxane	96	2.103	2.125	(0.277)	25422	5.00000	4.864
144	alpha-Terpineol	59	9.714	9.731	(1.008)	36496	5.00000	4.891
98	Retene	219	17.747	17.759	(0.926)	57705	5.00000	4.531
133	Butylatedhydroxytoluene	205	12.694	12.706	(1.016)	99782	5.00000	4.816
115	Tributyl Phosphate	99	13.731	13.763	(0.924)	140283	5.00000	5.022
116	Dibutyl Phenyl Phosphate	175	15.445	15.457	(1.040)	93863	5.00000	5.261
117	Butyl Diphenyl Phosphate	94	17.122	17.134	(0.894)	31549	5.00000	4.668
118	Triphenyl Phosphate	326	18.714	18.731	(0.977)	28800	5.00000	4.536
123	Acetophenone	105	8.299	8.316	(1.094)	81853	5.00000	4.847
179	n-Decane	57	7.444	7.450	(0.981)	53416	5.00000	4.648
180	n-Octadecane	57	14.825	14.832	(0.998)	52425	5.00000	4.767
168	Pentachlorobenzene	250	12.849	12.866	(1.028)	43692	5.00000	4.694
113	Diphenyl Oxide	170	11.776	11.782	(0.942)	108267	5.00000	4.622
112	Biphenyl	154	11.578	11.590	(0.926)	131006	5.00000	5.000
120	2,3,4,6-Tetrachlorophenol	232	13.100	13.112	(1.048)	32722	5.00000	5.205
151	1,2,4,5-Tetrachlorobenzene	216	11.135	11.141	(0.891)	60230	5.00000	4.770
110	Tetrachloroguaiacol	247	14.820	14.842	(0.997)	36086	10.0000	10.00
109	3,4,5-Trichloroguaiacol	213	13.202	13.219	(0.889)	18448	5.00000	5.000
181	3,4,6-Trichloroguaiacol	211	13.314	13.331	(1.755)	21749	5.00000	5.000
108	4,5,6-Trichloroguaiacol	213	14.238	14.250	(1.139)	18514	5.00000	5.000
184	3,4-Dichloroguaiacol	192	11.669	11.675	(1.538)	19386	5.00000	5.000
107	4,5-Dichloroguaiacol	192	12.459	12.476	(0.997)	48672	10.0000	10.00
182	4,6-Dichloroguaiacol	192	12.459	12.476	(1.642)	48672	10.0000	10.00
185	4-Chloroguaiacol	115	10.590	10.596	(1.396)	12618	2.50000	2.500
186	Carbaryl	144	15.680	15.702	(1.055)	58301	5.00000	4.718
106	Guaiacol	124	8.571	8.588	(1.129)	58543	5.00000	4.850

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231003.D
Lab Smp Id: IC050723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC050723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	188843	3.31
27 Naphthalene-d8	584137	292068	1168274	605649	3.68
42 Acenaphthene-d10	320442	160221	640884	328204	2.42
59 Phenanthrene-d10	503793	251896	1007586	492773	-2.19
69 Chrysene-d12	532343	266172	1064686	623042	17.04
134 Di-n-octylphthala	719428	359714	1438856	685489	-4.72
77 Perylene-d12	517269	258634	1034538	509773	-1.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	-0.05
27 Naphthalene-d8	9.64	9.14	10.14	9.64	-0.04
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.03
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	-0.02
69 Chrysene-d12	19.16	18.66	19.66	19.16	-0.02
134 Di-n-octylphthala	20.35	19.85	20.85	20.34	-0.02
77 Perylene-d12	21.31	20.81	21.81	21.30	-0.02

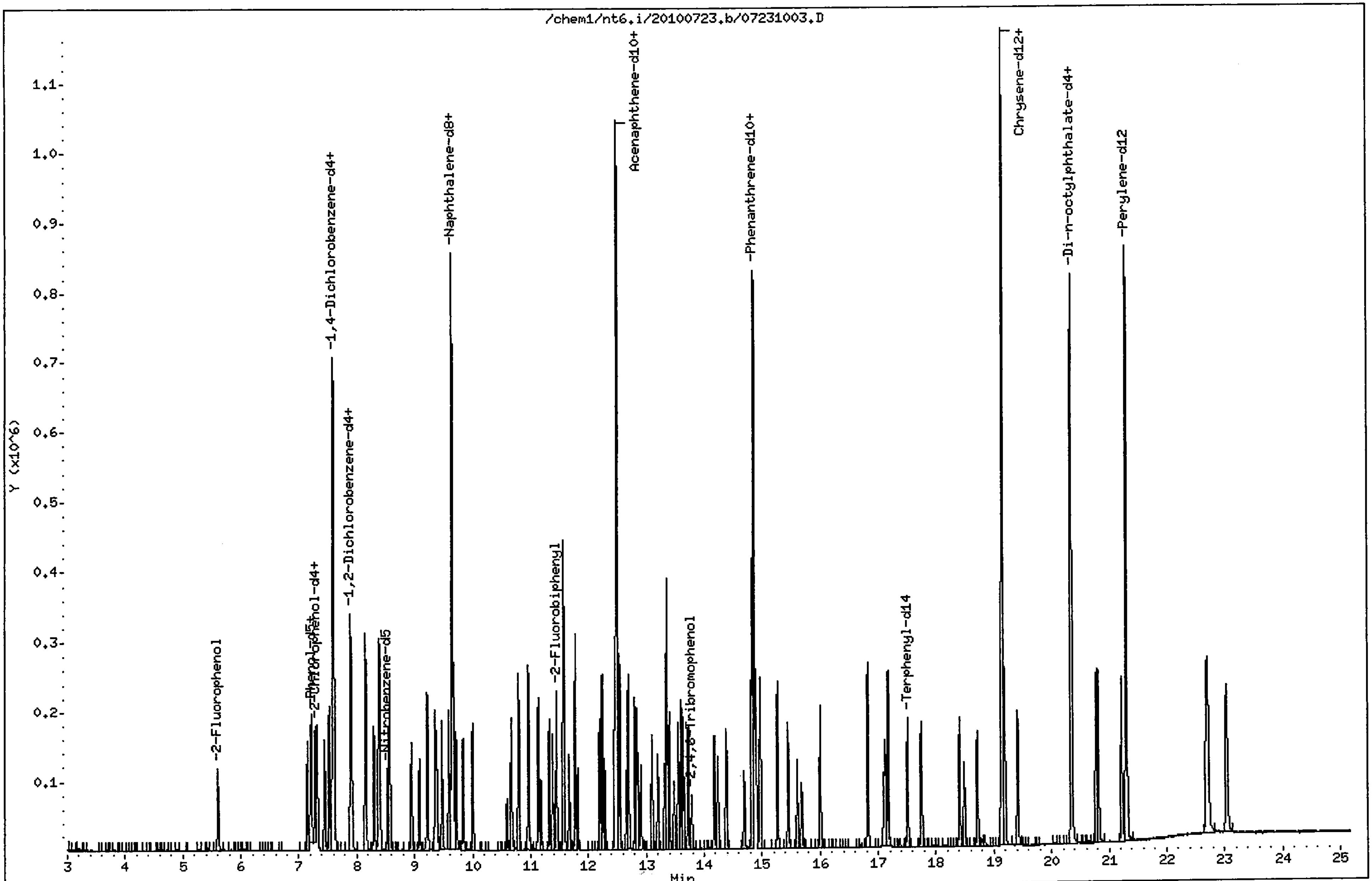
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231003.D
Date : 23-JUL-2010 16:16
Client ID: IC050723
Sample Info: IC050723,

Column phase: ZB-5msi

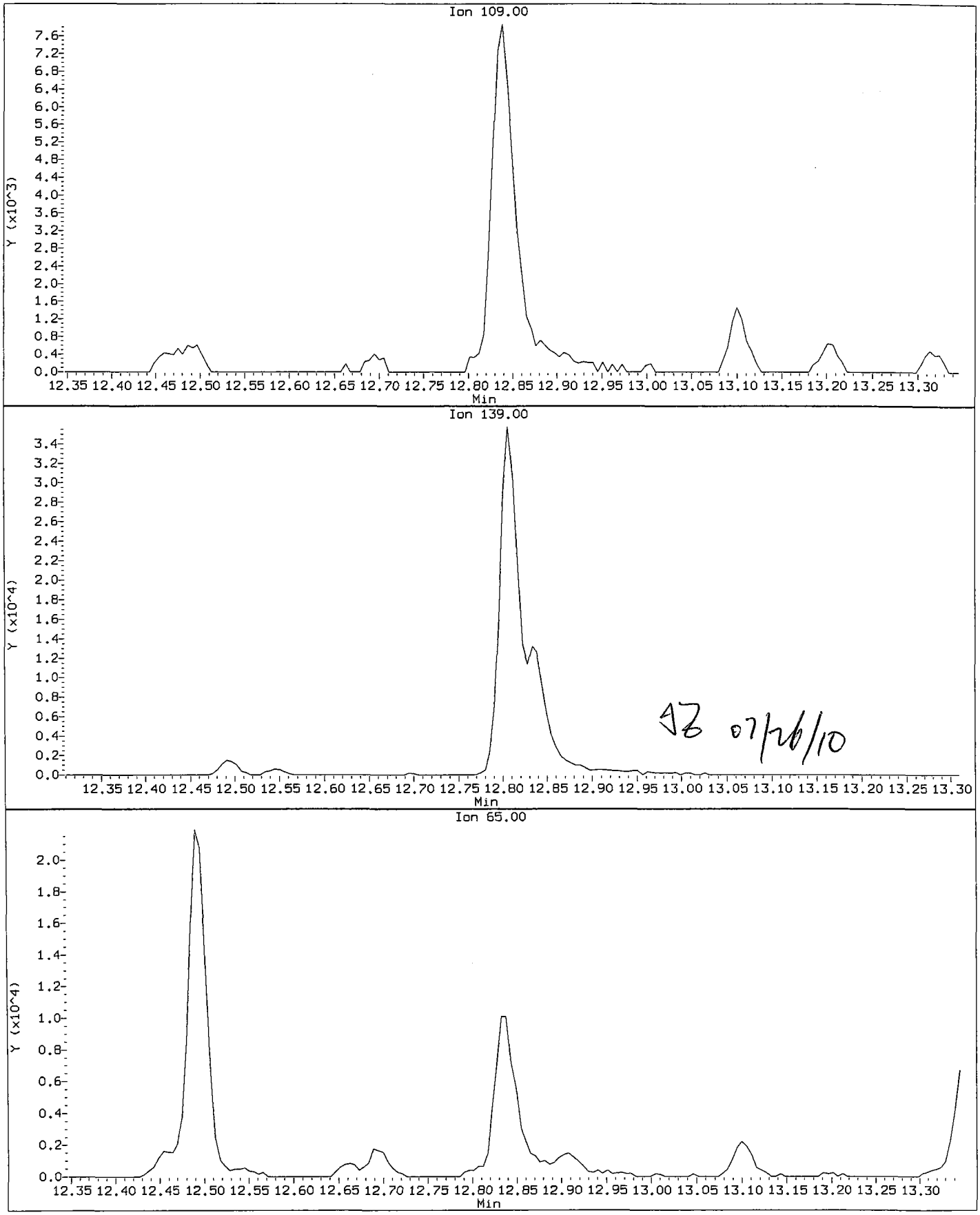
Instrument: nt6.i

Operator: JZ
Column diameter: 0.32



Data File: /chem1/nt6.i/20100723.b/07231003.D
Injection Date: 23-JUL-2010 16:16
Instrument: nt6.i
Client Sample ID: IC050723

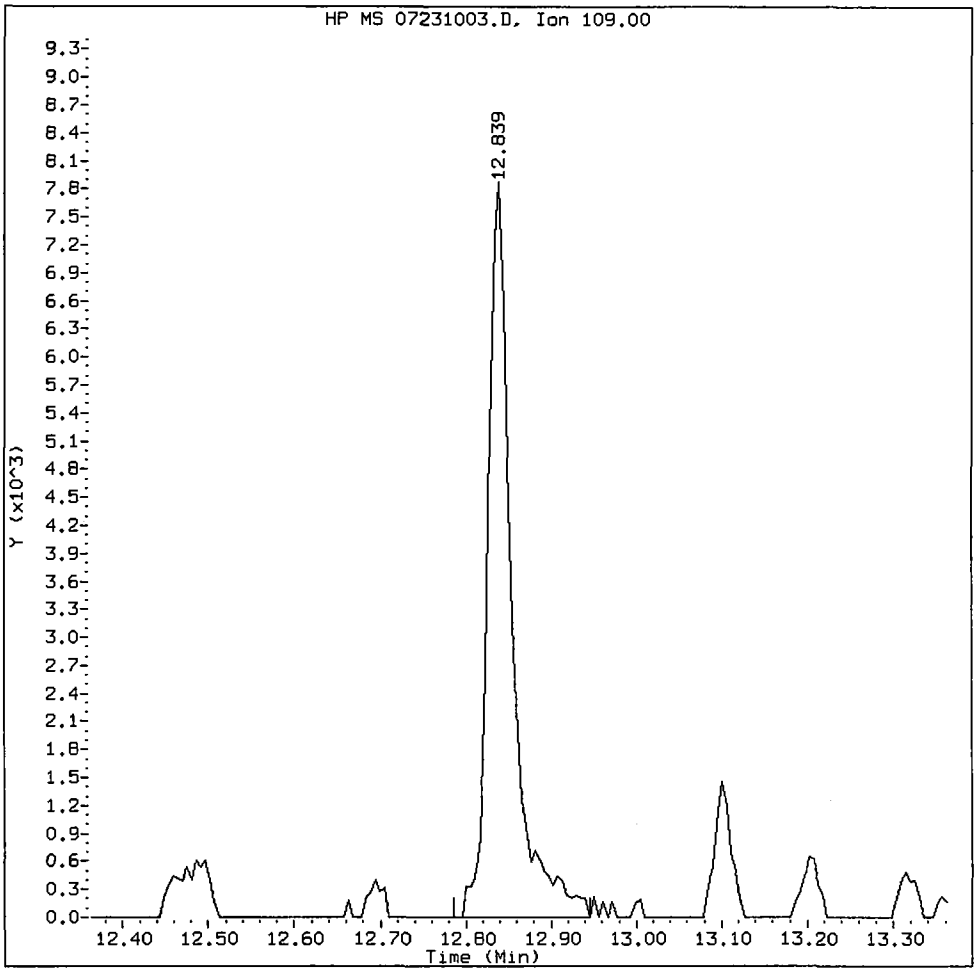
Compound: 4-Nitrophenol
CAS Number: 100-02-7



AZ 07/26/10

IC050723, /chem1/nt6.i/20100723.b/07231003.D

4-Nitrophenol Amount: 5.70 Area: 15729



MANUAL INTEGRATION for 4-Nitrophenol

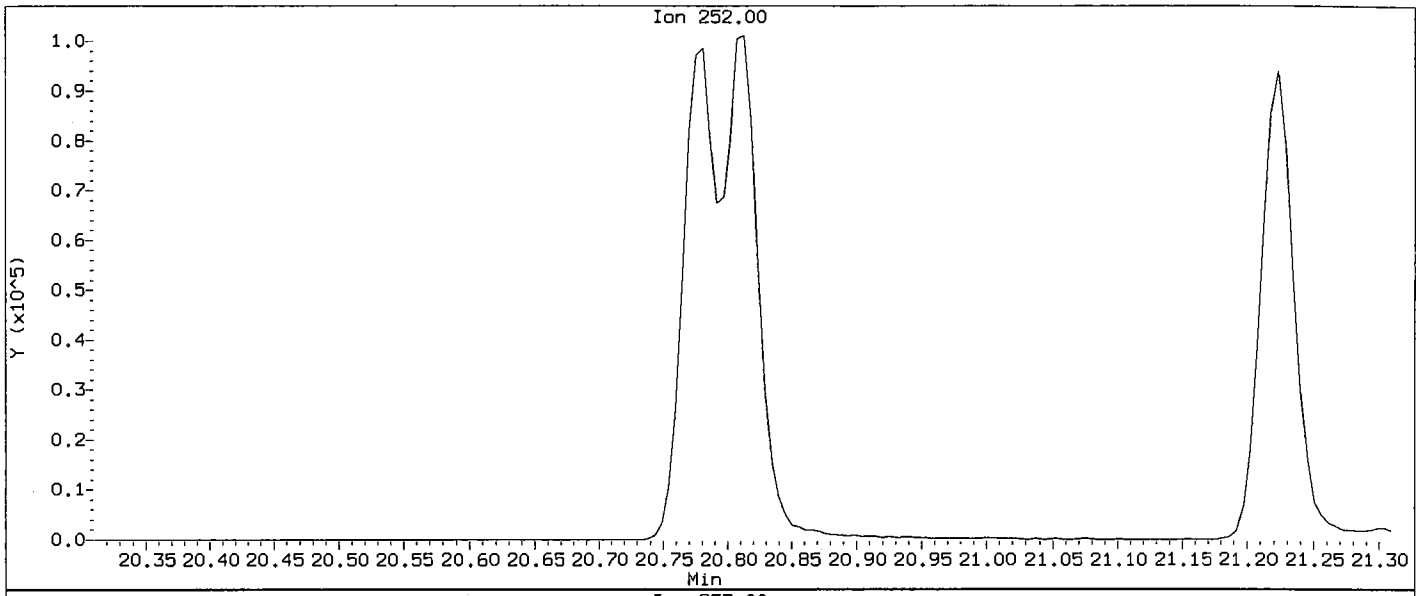
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

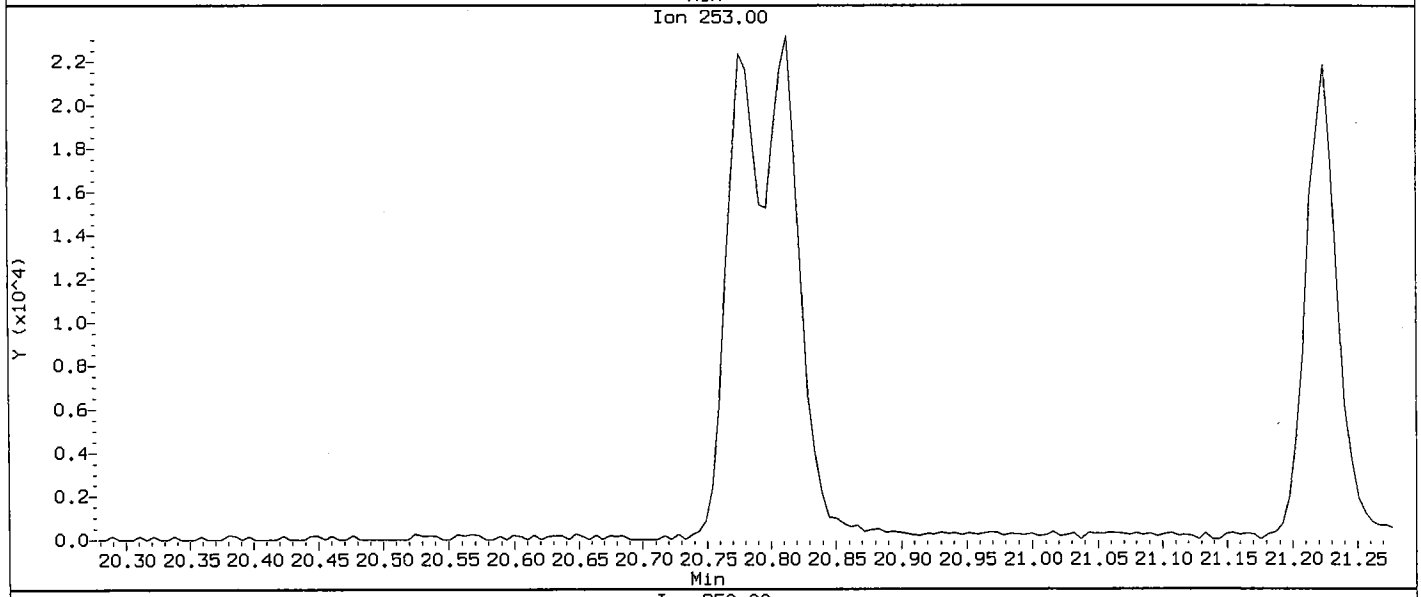
5. Other _____

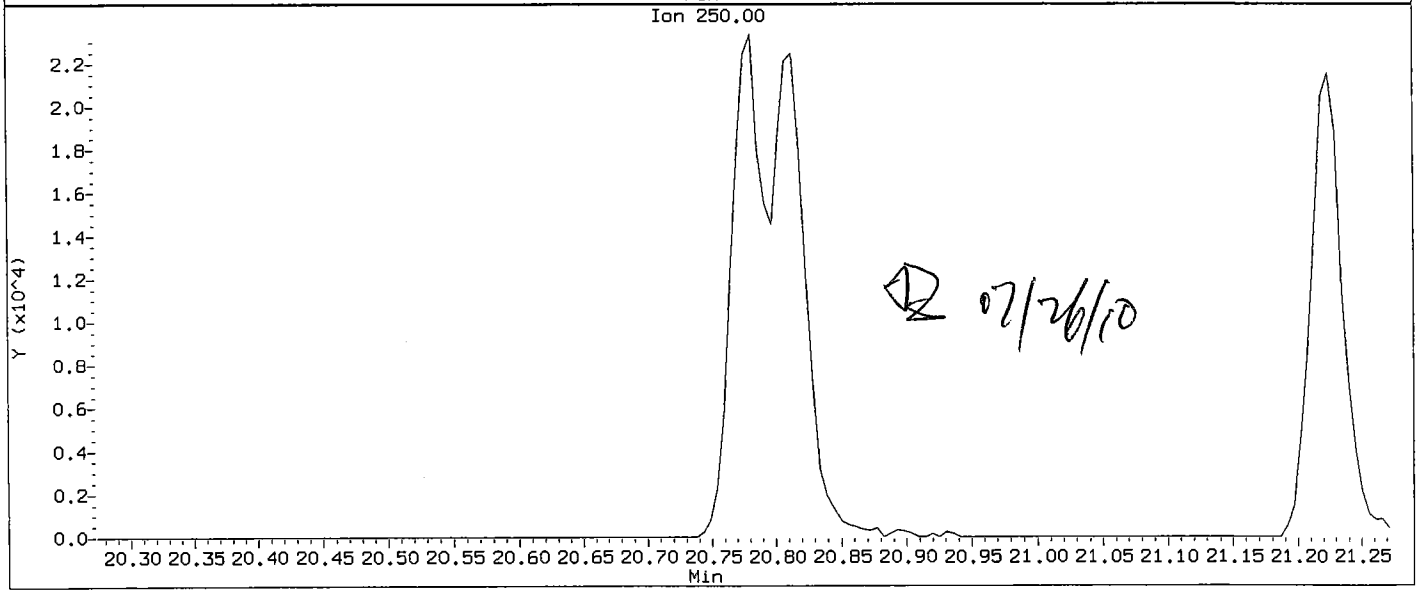
Analyst: _____ Date: 07/28/10

Data File: /chem1/nt6.i/20100723.b/07231003.D
Injection Date: 23-JUL-2010 16:16
Instrument: nt6.i
Client Sample ID: IC050723

Compound: Total Benzofluoranthenes
CAS Number:



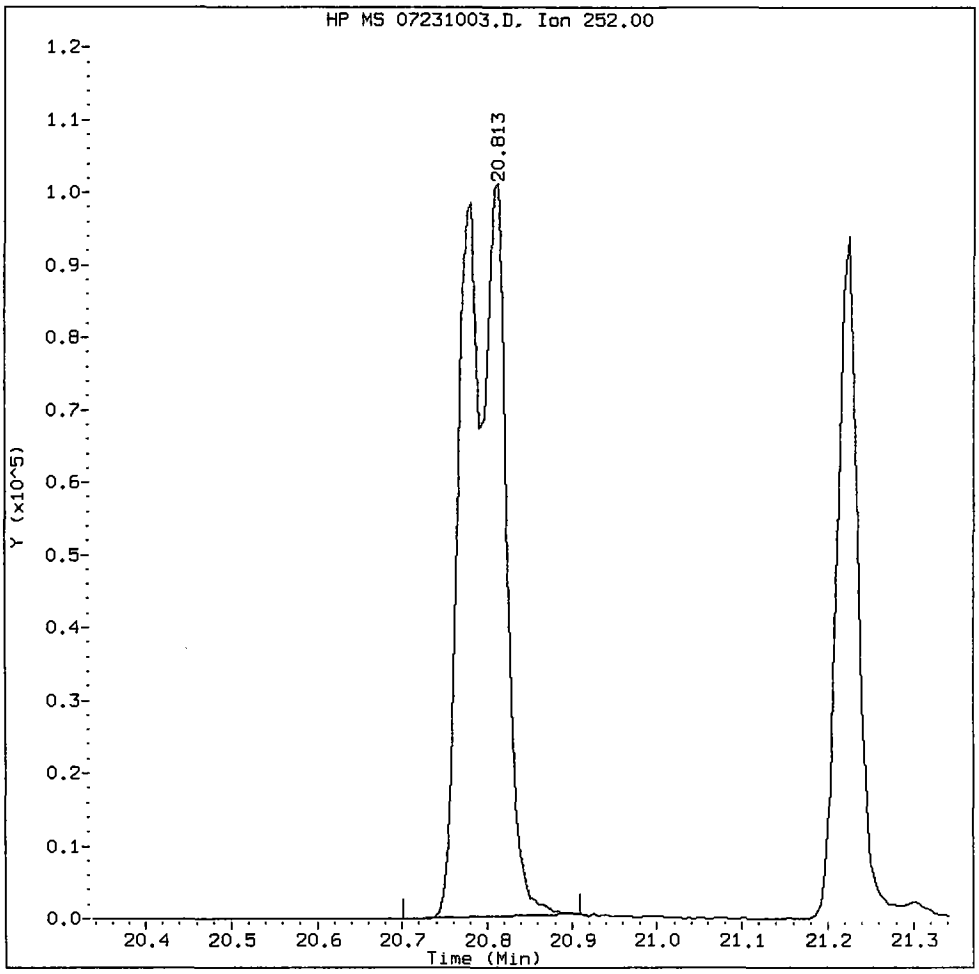




07/26/10

IC050723, /chem1/nt6.i/20100723.b/07231003.D

Total Benzofluoranthenes Amount: 9.33 Area: 344081



MANUAL INTEGRATION for Total Benzofluoranthenes

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231004.D
Lab Smp Id: IC100723 Client Smp ID: IC100723
Inj Date : 23-JUL-2010 16:52
Operator : JZ Inst ID: nt6.i
Smp Info : IC100723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 16:52 Cal File: 07231004.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/28/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.605	5.610	(0.738)	126872	10.0000	10.22
$	2 Phenol-d5	99	7.202	7.218	(0.949)	148082	10.0000	9.874
	3 Phenol	94	7.224	7.237	(0.951)	163142	10.0000	9.431
$	5 2-Chlorophenol-d4	132	7.293	7.303	(0.961)	124752	10.0000	9.760
	4 Bis(2-Chloroethyl)ether	93	7.277	7.290	(0.958)	121813	10.0000	9.403
	6 2-Chlorophenol	128	7.320	7.327	(0.964)	140635	10.0000	9.487
	7 1,3-Dichlorobenzene	146	7.523	7.530	(0.991)	165746	10.0000	9.706
*	8 1,4-Dichlorobenzene-d4	152	7.592	7.595	(1.000)	185943	20.0000	
	9 1,4-Dichlorobenzene	146	7.614	7.621	(1.003)	162647	10.0000	9.858
$	10 1,2-Dichlorobenzene-d4	152	7.891	7.896	(1.039)	86495	10.0000	9.984
	12 1,2-Dichlorobenzene	146	7.913	7.915	(1.042)	152136	10.0000	9.649
	11 Benzyl alcohol	108	7.897	7.910	(1.040)	79223	10.0000	10.54
	14 2,2'-oxybis(1-Chloropropane)	45	8.158	8.161	(1.075)	135515	10.0000	9.767
	13 2-Methylphenol	108	8.153	8.166	(1.074)	120955	10.0000	9.567
	17 Hexachloroethane	117	8.399	8.406	(1.106)	58544	10.0000	9.687
	16 N-Nitroso-di-n-propylamine	70	8.367	8.390	(1.102)	86011	10.0000	9.896
	15 4-Methylphenol	108	8.388	8.406	(1.105)	122953	10.0000	9.685
$	18 Nitrobenzene-d5	82	8.532	8.542	(0.885)	117660	10.0000	9.952
	19 Nitrobenzene	77	8.559	8.572	(0.888)	134857	10.0000	9.761
	20 Isophorone	82	8.944	8.967	(0.927)	212825	10.0000	9.983
	21 2-Nitrophenol	139	9.082	9.090	(0.942)	76116	10.0000	10.17
	22 2,4-Dimethylphenol	107	9.221	9.234	(0.956)	128445	10.0000	9.701
	23 Bis(2-Chloroethoxy)methane	93	9.360	9.373	(0.971)	149711	10.0000	10.07
	24 Benzoic acid	105	9.419	9.603	(0.977)	163463	20.0000	20.83
	25 2,4-Dichlorophenol	162	9.472	9.485	(0.982)	111444	10.0000	9.889
	26 1,2,4-Trichlorobenzene	180	9.590	9.597	(0.994)	123035	10.0000	9.797
*	27 Naphthalene-d8	136	9.643	9.651	(1.000)	593293	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.670	9.683	(1.003)	365998	10.0000	9.797
	29 4-Chloroaniline	127	9.835	9.843	(1.020)	147238	10.0000	10.07
	30 Hexachlorobutadiene	225	10.001	10.009	(1.037)	69541	10.0000	9.802
	31 4-Chloro-3-methylphenol	107	10.669	10.682	(1.106)	107429	10.0000	9.953
	32 2-Methylnaphthalene	141	10.797	10.805	(1.120)	197718	10.0000	9.839
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.895)	58996	10.0000	12.73
	34 2,4,6-Trichlorophenol	196	11.320	11.333	(0.906)	74618	10.0000	10.16
	35 2,4,5-Trichlorophenol	196	11.379	11.392	(0.911)	75201	10.0000	9.867
$	36 2-Fluorobiphenyl	172	11.448	11.453	(0.916)	233627	10.0000	9.590
	37 2-Chloronaphthalene	162	11.571	11.579	(0.926)	231438	10.0000	9.790
	38 2-Nitroaniline	65	11.817	11.835	(0.946)	55300	10.0000	10.39
	39 Dimethylphthalate	163	12.202	12.220	(0.976)	255146	10.0000	10.04
	40 Acenaphthylene	152	12.244	12.252	(0.980)	366052	10.0000	9.898
	41 2,6-Dinitrotoluene	165	12.287	12.305	(0.983)	59580	10.0000	10.65
*	42 Acenaphthene-d10	164	12.495	12.503	(1.000)	323613	20.0000	
	43 3-Nitroaniline	138	12.495	12.519	(1.000)	57832	10.0000	10.51
	44 Acenaphthene	153	12.549	12.562	(1.004)	219666	10.0000	9.889
	45 2,4-Dinitrophenol	184	12.661	12.690	(1.013)	67900	20.0000	22.71
	46 Dibenzofuran	168	12.810	12.823	(1.025)	295122	10.0000	9.882
	47 4-Nitrophenol	109	12.837	12.861	(1.027)	31555	10.0000	11.01(M)
	48 2,4-Dinitrotoluene	165	12.912	12.930	(1.033)	75601	10.0000	10.66
	50 Diethylphthalate	149	13.355	13.368	(1.069)	237651	10.0000	9.650
	49 Fluorene	166	13.366	13.379	(1.070)	251059	10.0000	9.726
	51 4-Chlorophenyl-phenylether	204	13.403	13.411	(1.073)	118001	10.0000	9.868
	52 4-Nitroaniline	138	13.489	13.523	(1.079)	58433	10.0000	10.56
	53 4,6-Dinitro-2-methylphenol	198	13.558	13.593	(0.912)	93942	20.0000	20.60
	54 N-Nitrosodiphenylamine	169	13.612	13.630	(0.916)	179875	10.0000	9.881
$	55 2,4,6-Tribromophenol	330	13.788	13.798	(1.103)	29796	10.0000	10.78
	56 4-Bromophenyl-phenylether	248	14.178	14.185	(0.954)	74043	10.0000	10.06
	57 Hexachlorobenzene	284	14.386	14.399	(0.968)	78922	10.0000	9.989
	58 Pentachlorophenol	266	14.691	14.704	(0.988)	44473	10.0000	11.76
*	59 Phenanthrene-d10	188	14.861	14.869	(1.000)	496900	20.0000	
	60 Phenanthrene	178	14.893	14.912	(1.002)	333776	10.0000	9.845
	61 Anthracene	178	14.968	14.987	(1.007)	346010	10.0000	9.904
	62 Carbazole	167	15.267	15.280	(1.027)	323370	10.0000	9.882
	63 Di-n-butylphthalate	149	16.004	16.012	(1.077)	402360	10.0000	10.26
	64 Fluoranthene	202	16.822	16.835	(1.132)	366262	10.0000	10.09
	65 Pyrene	202	17.174	17.187	(0.897)	365007	10.0000	9.373
$	66 Terphenyl-d14	244	17.511	17.515	(0.914)	202672	10.0000	9.359
	67 Butylbenzylphthalate	149	18.408	18.421	(0.961)	172956	10.0000	10.14
	68 Benzo(a)anthracene	228	19.134	19.147	(0.999)	337172	10.0000	9.320
*	69 Chrysene-d12	240	19.156	19.169	(1.000)	608888	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.161	19.174	(1.000)	111890	10.0000	9.463
	71 Chrysene	228	19.198	19.217	(1.002)	317375	10.0000	9.244
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	234792	10.0000	10.52
*	134 Di-n-octylphthalate-d4	153	20.347	20.354	(1.000)	694500	20.0000	
	73 Di-n-octylphthalate	149	20.357	20.360	(1.001)	395465	10.0000	9.623

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.779	20.803	(0.975)	358007	10.0000	10.12
75	Benzo(k)fluoranthene	252	20.811	20.840	(0.977)	375520	10.0000	9.450
187	Total Benzofluoranthenes	252	20.811	20.840	(0.977)	687719	20.0000	19.27(M)
76	Benzo(a)pyrene	252	21.223	21.246	(0.996)	342186	10.0000	10.10
* 77	Perylene-d12	264	21.303	21.316	(1.000)	502175	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.686	22.720	(1.065)	442073	10.0000	9.928
79	Dibenzo(a,h)anthracene	278	22.718	22.747	(1.066)	346747	10.0000	10.15
80	Benzo(g,h,i)perylene	276	23.044	23.089	(1.082)	396501	10.0000	9.786
90	N-Nitrosodimethylamine	74	2.716	2.750	(0.358)	82848	10.0000	10.21
103	Pyridine	79	2.694	2.702	(0.355)	150658	10.0000	10.87
91	Aniline	93	7.149	7.157	(0.942)	193137	10.0000	10.12
105	1-methylnaphthalene	141	10.968	10.975	(1.137)	201404	10.0000	9.767
93	Benzidine	184	17.099	17.107	(0.893)	125128	10.0000	9.449
111	Azobenzene (1,2-DP-Hydrazine)	77	13.649	13.667	(1.092)	242420	10.0000	9.973
143	1,4-Dioxane	88	2.150	2.168	(0.283)	53699	10.0000	10.04
$ 137	d8-1,4-Dioxane	96	2.107	2.125	(0.278)	51732	10.0000	10.03
144	alpha-Terpineol	59	9.718	9.731	(1.008)	72894	10.0000	9.981
98	Retene	219	17.751	17.759	(0.927)	118903	10.0000	9.698
133	Butylatedhydroxytoluene	205	12.698	12.706	(1.016)	192083	10.0000	9.593
115	Tributyl Phosphate	99	13.729	13.763	(0.924)	281983	10.0000	10.01
116	Dibutyl Phenyl Phosphate	175	15.449	15.457	(1.040)	191183	10.0000	10.41
117	Butyl Diphenyl Phosphate	94	17.126	17.134	(0.894)	63332	10.0000	9.722
118	Triphenyl Phosphate	326	18.718	18.731	(0.977)	60209	10.0000	9.801
123	Acetophenone	105	8.303	8.316	(1.094)	165015	10.0000	9.949
179	n-Decane	57	7.443	7.450	(0.980)	109312	10.0000	9.770
180	n-Octadecane	57	14.824	14.832	(0.997)	108426	10.0000	9.850
168	Pentachlorobenzene	250	12.853	12.866	(1.029)	90440	10.0000	9.903
113	Diphenyl Oxide	170	11.774	11.782	(0.942)	221103	10.0000	9.711
112	Biphenyl	154	11.577	11.590	(0.926)	263995	10.0000	10.11
120	2,3,4,6-Tetrachlorophenol	232	13.104	13.112	(1.049)	67353	10.0000	10.56
151	1,2,4,5-Tetrachlorobenzene	216	11.133	11.141	(0.891)	116394	10.0000	9.557
110	Tetrachloroguaiacol	247	14.824	14.842	(0.997)	80353	20.0000	20.99
109	3,4,5-Trichloroguaiacol	213	13.206	13.219	(0.889)	40031	10.0000	10.37
181	3,4,6-Trichloroguaiacol	211	13.318	13.331	(1.754)	47470	10.0000	10.51
108	4,5,6-Trichloroguaiacol	213	14.237	14.250	(1.139)	41107	10.0000	10.59
184	3,4-Dichloroguaiacol	192	11.667	11.675	(1.537)	42471	10.0000	10.53
107	4,5-Dichloroguaiacol	192	12.458	12.476	(0.997)	106396	20.0000	21.03
182	4,6-Dichloroguaiacol	192	12.458	12.476	(1.641)	106071	20.0000	21.01
185	4-Chloroguaiacol	115	10.594	10.596	(1.395)	26123	5.00000	5.125
186	Carbaryl	144	15.684	15.702	(1.055)	153576	10.0000	11.44
106	Guaiacol	124	8.575	8.588	(1.129)	114633	10.0000	9.761

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231004.D
Lab Smp Id: IC100723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC100723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

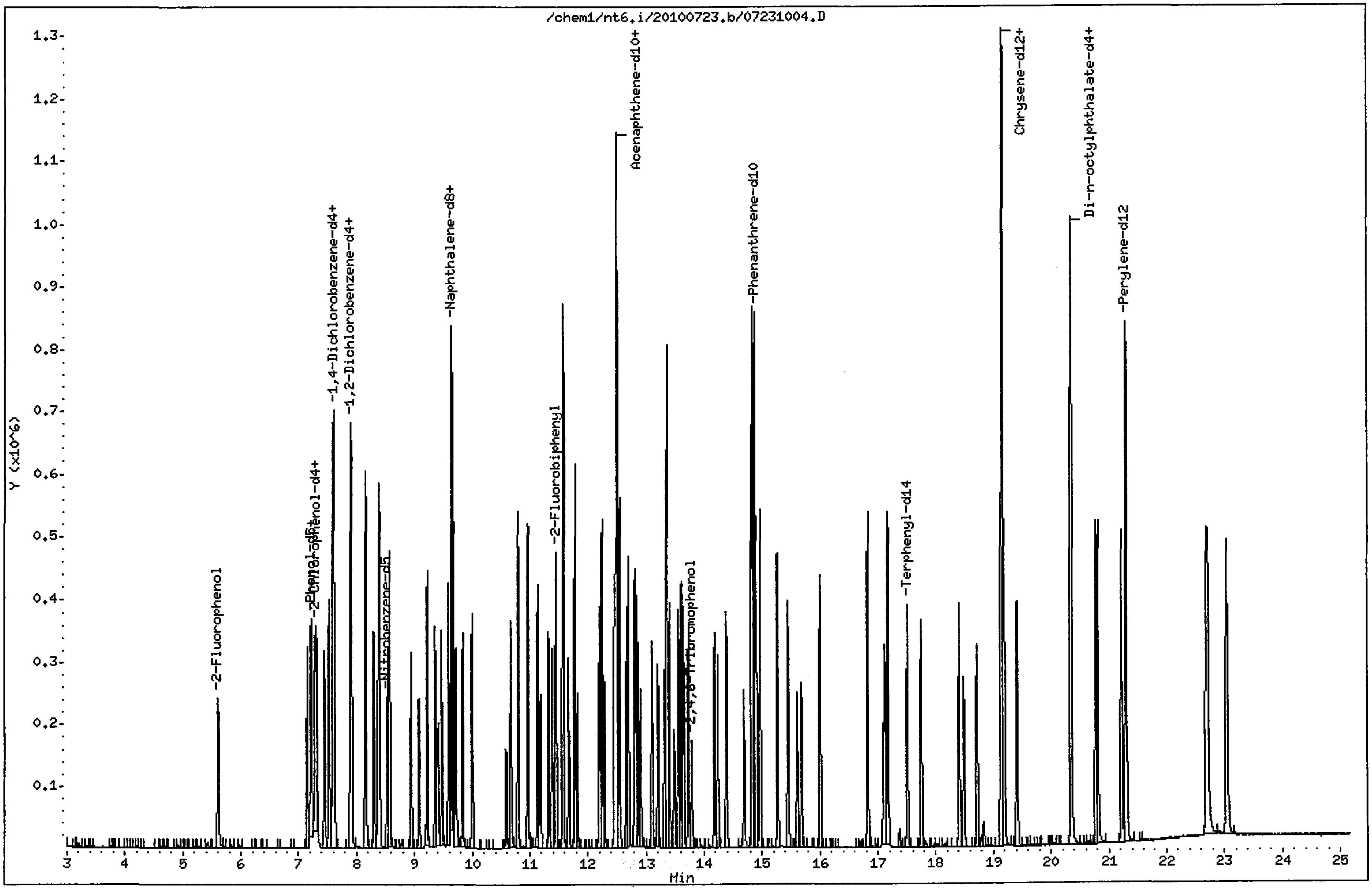
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	185943	1.73
27 Naphthalene-d8	584137	292068	1168274	593293	1.57
42 Acenaphthene-d10	320442	160221	640884	323613	0.99
59 Phenanthrene-d10	503793	251896	1007586	496900	-1.37
69 Chrysene-d12	532343	266172	1064686	608888	14.38
134 Di-n-octylphthala	719428	359714	1438856	694500	-3.46
77 Perylene-d12	517269	258634	1034538	502175	-2.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.00
27 Naphthalene-d8	9.64	9.14	10.14	9.64	0.00
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.04
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	0.00
69 Chrysene-d12	19.16	18.66	19.66	19.16	-0.03
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.30	-0.02

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

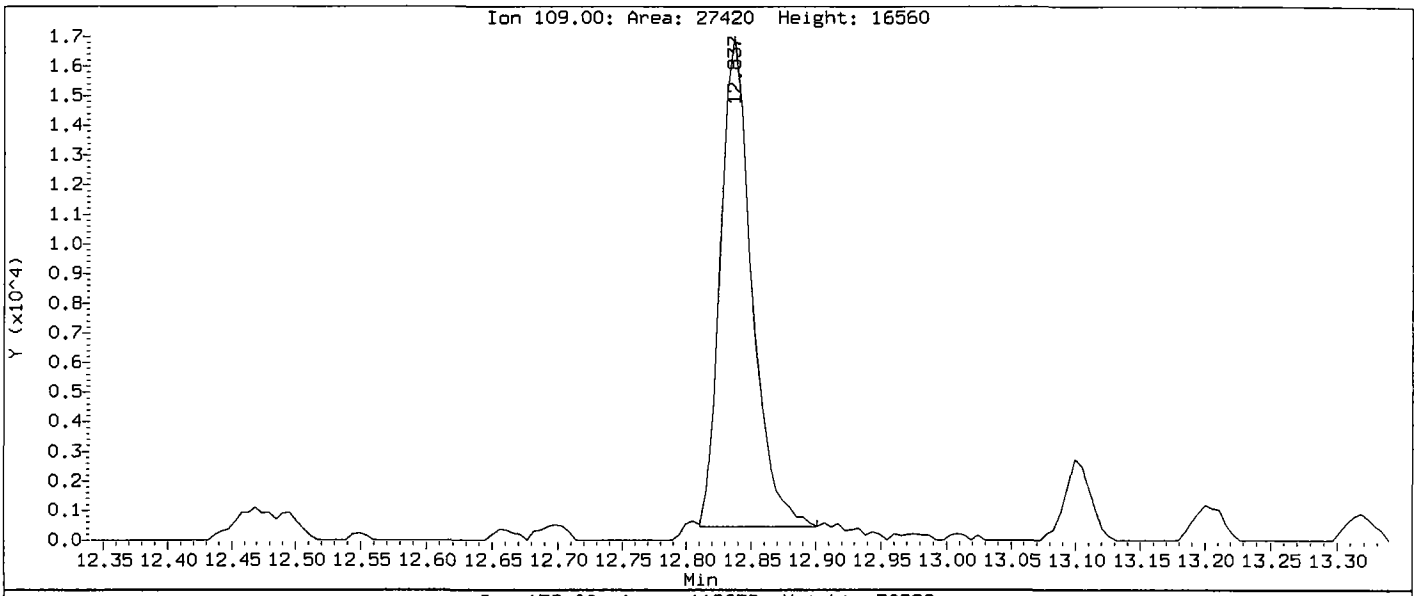
Data File: /chem1/nt6.i/20100723.b/07231004.D
Date : 23-JUL-2010 16:52
Client ID: IC100723
Sample Info: IC100723,
Column phase: ZB-5msi

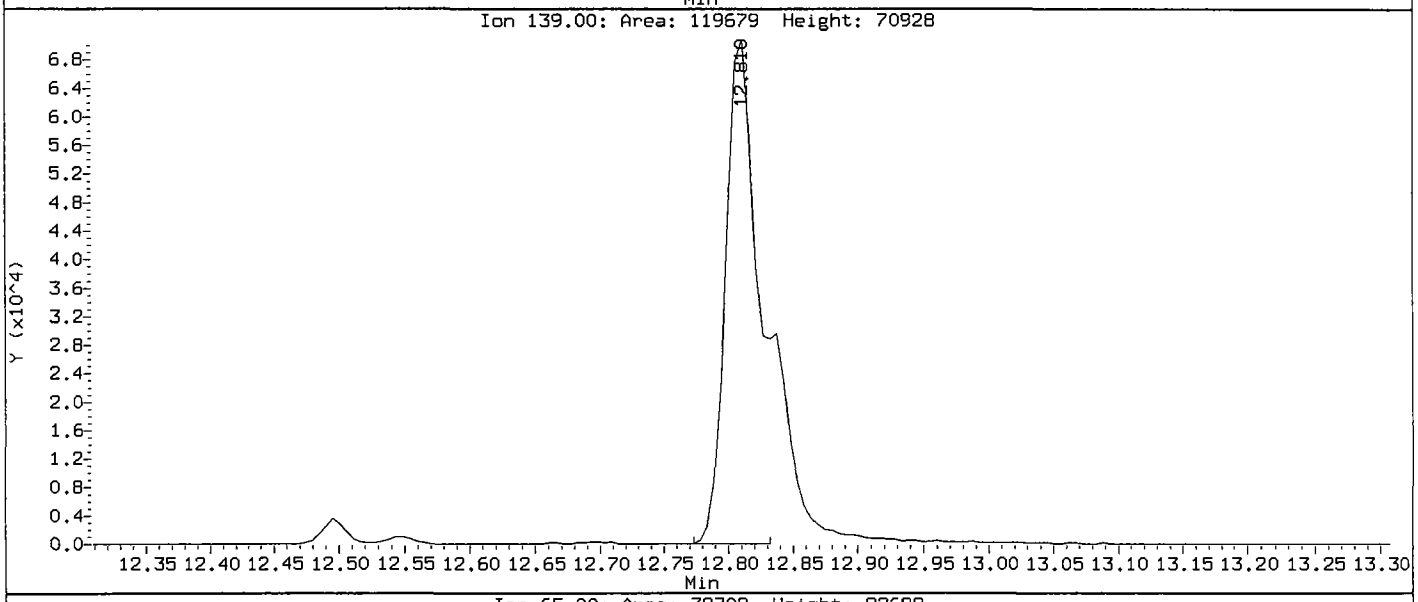
Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

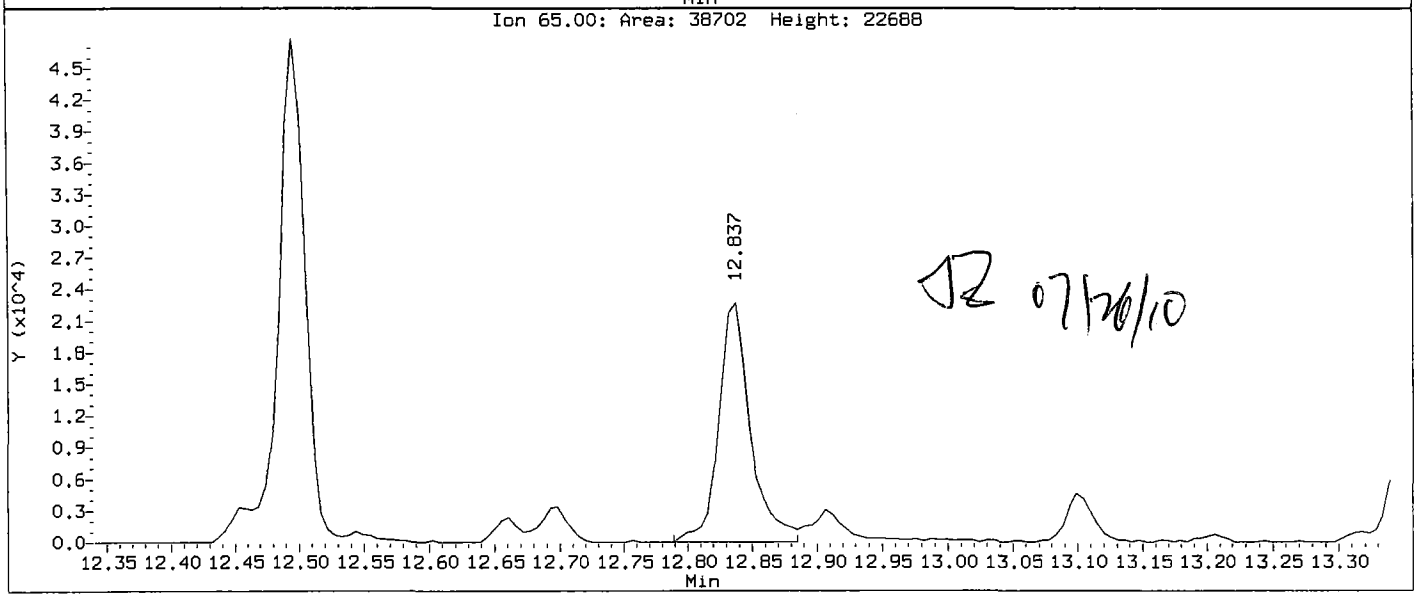


Data File: /chem1/nt6.i/20100723.b/07231004.D
Injection Date: 23-JUL-2010 16:52
Instrument: nt6.i
Client Sample ID: IC100723

Compound: 4-Nitrophenol
CAS Number: 100-02-7



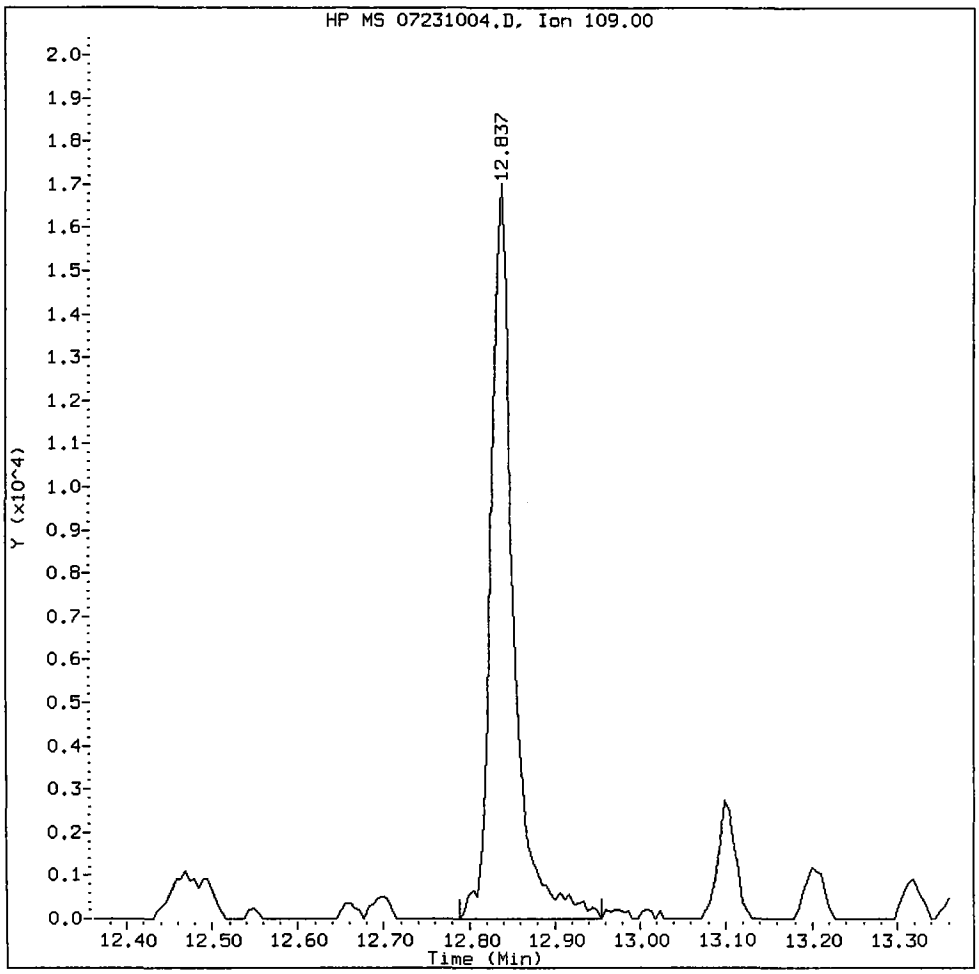




JR 07/26/10

IC100723, /chem1/nt6.i/20100723.b/07231004.D

4-Nitrophenol Amount: 11.01 Area: 31555



MANUAL INTEGRATION for 4-Nitrophenol

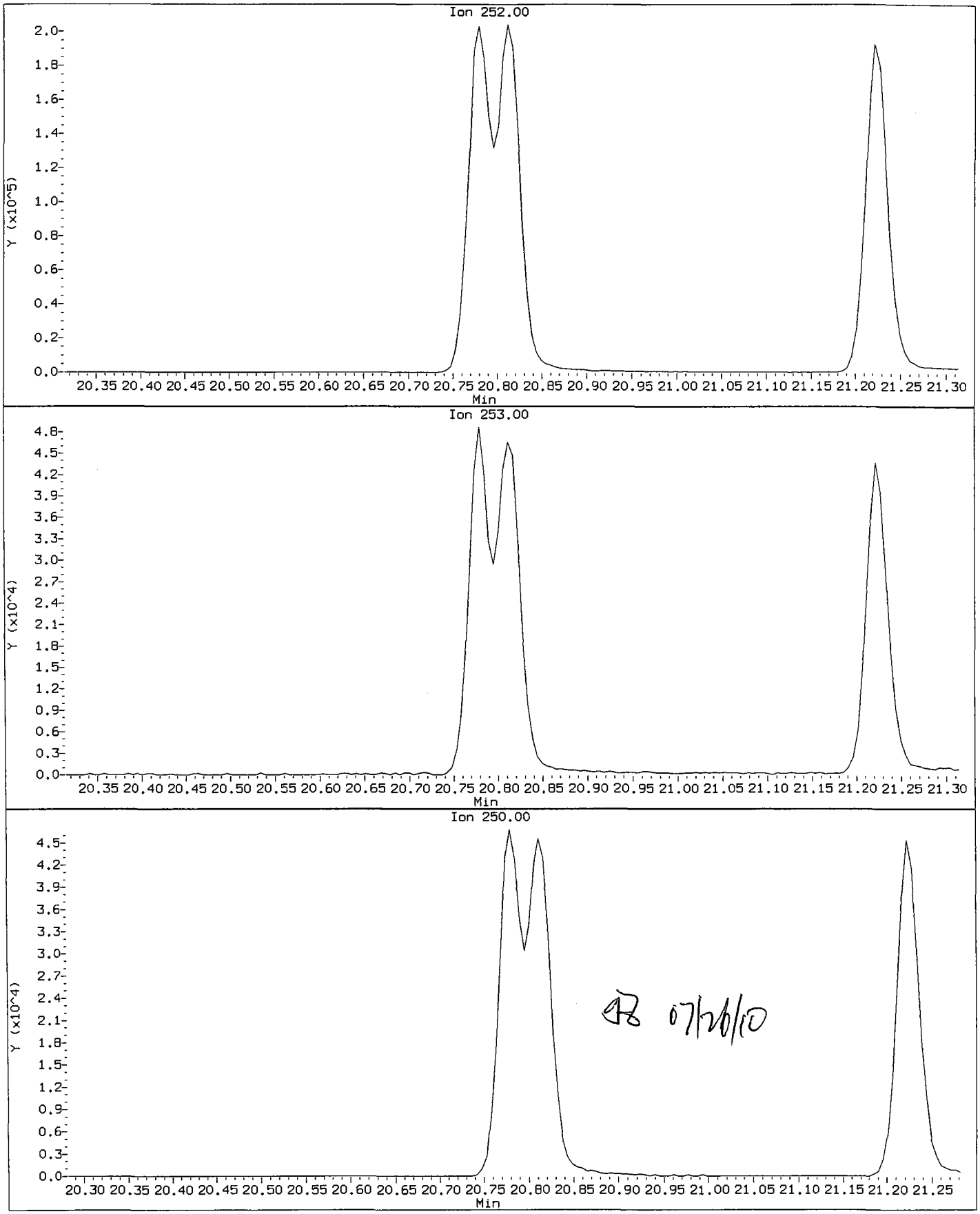
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date: 07/26/10

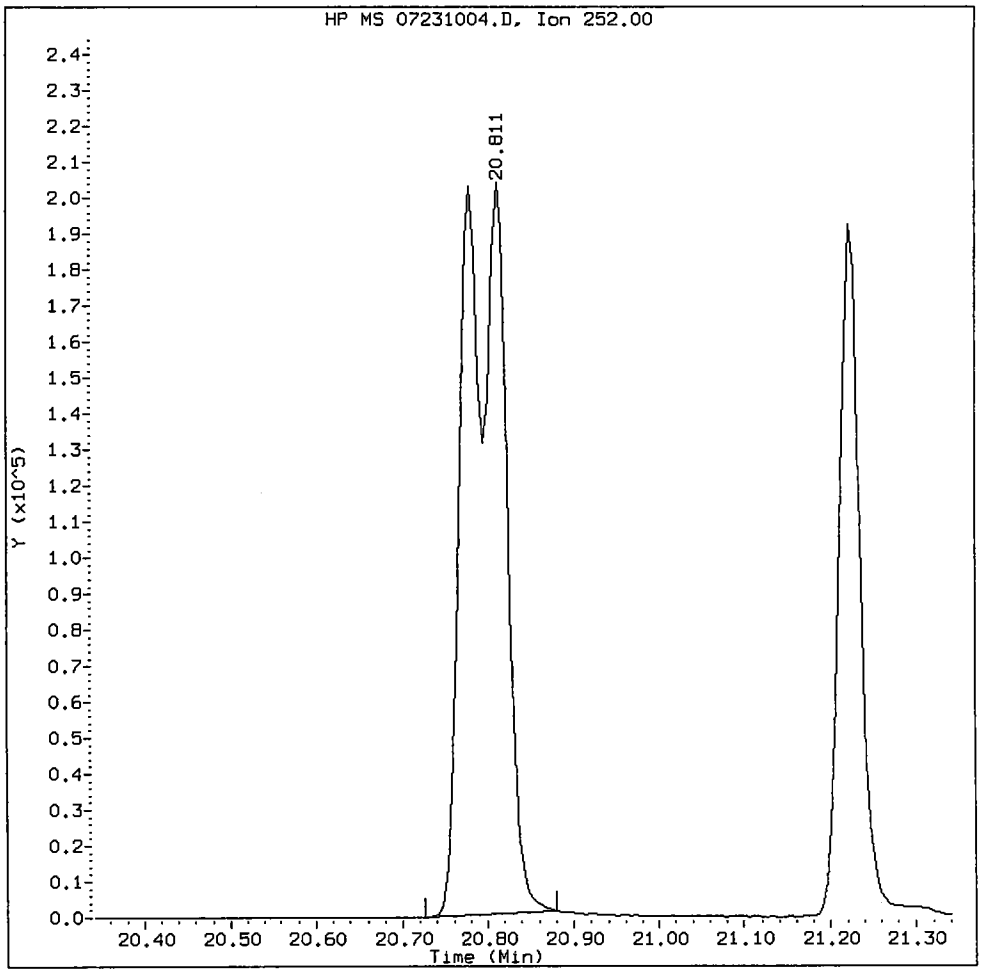
Data File: /chem1/nt6.i/20100723.b/07231004.D
Injection Date: 23-JUL-2010 16:52
Instrument: nt6.i
Client Sample ID: IC100723

Compound: Total Benzofluoranthenes
CAS Number:



IC100723, /chem1/nt6.i/20100723.b/07231004.D

Total Benzofluoranthenes Amount: 19.27 Area: 687719



MANUAL INTEGRATION for Total Benzofluoranthenes

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231001.D
Lab Smp Id: IC250723 Client Smp ID: IC250723
Inj Date : 23-JUL-2010 15:01
Operator : JZ Inst ID: nt6.i
Smp Info : IC250723
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 15:01 Cal File: 07231001.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/26/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	5.605	5.610	(0.738)	311522	25.0000	25.40
$ 2	Phenol-d5	99	7.207	7.218	(0.949)	348471	25.0000	23.96
3	Phenol	94	7.229	7.237	(0.952)	387771	25.0000	23.32
$ 5	2-Chlorophenol-d4	132	7.293	7.303	(0.961)	290409	25.0000	23.56
4	Bis(2-Chloroethyl)ether	93	7.282	7.290	(0.959)	299463	25.0000	23.87
6	2-Chlorophenol	128	7.320	7.327	(0.964)	336281	25.0000	23.53
7	1,3-Dichlorobenzene	146	7.523	7.530	(0.991)	393980	25.0000	23.83
* 8	1,4-Dichlorobenzene-d4	152	7.592	7.595	(1.000)	182786	20.0000	
9	1,4-Dichlorobenzene	146	7.619	7.621	(1.004)	390510	25.0000	24.30
$ 10	1,2-Dichlorobenzene-d4	152	7.891	7.896	(1.039)	204344	25.0000	24.24
12	1,2-Dichlorobenzene	146	7.912	7.915	(1.042)	353813	25.0000	23.33
11	Benzyl alcohol	108	7.896	7.910	(1.040)	189620	25.0000	25.49
14	2,2'-oxybis(1-Chloropropane)	45	8.158	8.161	(1.075)	319647	25.0000	23.81
13	2-Methylphenol	108	8.158	8.166	(1.075)	293058	25.0000	23.92
17	Hexachloroethane	117	8.398	8.406	(1.106)	141205	25.0000	24.06
16	N-Nitroso-di-n-propylamine	70	8.377	8.390	(1.103)	203786	25.0000	24.13
15	4-Methylphenol	108	8.393	8.406	(1.106)	289738	25.0000	23.64
$ 18	Nitrobenzene-d5	82	8.537	8.542	(0.885)	285365	25.0000	24.63
19	Nitrobenzene	77	8.564	8.572	(0.888)	315680	25.0000	23.63
20	Isophorone	82	8.949	8.967	(0.928)	506209	25.0000	24.33
21	2-Nitrophenol	139	9.082	9.090	(0.942)	191103	25.0000	25.69
22	2,4-Dimethylphenol	107	9.226	9.234	(0.957)	306864	25.0000	23.89
23	Bis(2-Chloroethoxy)methane	93	9.360	9.373	(0.971)	350199	25.0000	24.19
24	Benzoic acid	105	9.477	9.603	(0.983)	467782	50.0000	56.57
25	2,4-Dichlorophenol	162	9.477	9.485	(0.983)	267155	25.0000	24.30
26	1,2,4-Trichlorobenzene	180	9.590	9.597	(0.994)	295139	25.0000	24.14
* 27	Naphthalene-d8	136	9.643	9.651	(1.000)	584137	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	28 Naphthalene	128	9.675	9.683	(1.003)	839339	25.0000	23.33
	29 4-Chloroaniline	127	9.835	9.843	(1.020)	335598	25.0000	23.71
	30 Hexachlorobutadiene	225	10.006	10.009	(1.038)	170886	25.0000	24.60
	31 4-Chloro-3-methylphenol	107	10.674	10.682	(1.107)	261511	25.0000	24.70
	32 2-Methylnaphthalene	141	10.797	10.805	(1.120)	450667	25.0000	23.30
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.894)	160807	25.0000	31.84
	34 2,4,6-Trichlorophenol	196	11.325	11.333	(0.906)	191794	25.0000	26.01
	35 2,4,5-Trichlorophenol	196	11.384	11.392	(0.911)	194635	25.0000	25.59
$	36 2-Fluorobiphenyl	172	11.454	11.453	(0.916)	548947	25.0000	23.28
	37 2-Chloronaphthalene	162	11.571	11.579	(0.926)	539169	25.0000	23.49
	38 2-Nitroaniline	65	11.822	11.835	(0.946)	135253	25.0000	25.49
	39 Dimethylphthalate	163	12.207	12.220	(0.976)	613460	25.0000	24.53
	40 Acenaphthylene	152	12.244	12.252	(0.979)	848116	25.0000	23.59
	41 2,6-Dinitrotoluene	165	12.292	12.305	(0.983)	145587	25.0000	25.95
*	42 Acenaphthene-d10	164	12.500	12.503	(1.000)	320442	20.0000	
	43 3-Nitroaniline	138	12.500	12.519	(1.000)	135304	25.0000	24.87
	44 Acenaphthene	153	12.548	12.562	(1.004)	522996	25.0000	24.07
	45 2,4-Dinitrophenol	184	12.666	12.690	(1.013)	212676	50.0000	62.71
	46 Dibenzofuran	168	12.810	12.823	(1.025)	687180	25.0000	23.66
	47 4-Nitrophenol	109	12.842	12.861	(1.027)	78303	25.0000	26.89 (M)
	48 2,4-Dinitrotoluene	165	12.917	12.930	(1.033)	189836	25.0000	26.50
	50 Diethylphthalate	149	13.360	13.368	(1.069)	543562	25.0000	22.91
	49 Fluorene	166	13.366	13.379	(1.069)	586873	25.0000	23.44
	51 4-Chlorophenyl-phenylether	204	13.403	13.411	(1.072)	290075	25.0000	24.62
	52 4-Nitroaniline	138	13.494	13.523	(1.079)	138704	25.0000	25.24
	53 4,6-Dinitro-2-methylphenol	198	13.563	13.593	(0.913)	260085	50.0000	54.00
	54 N-Nitrosodiphenylamine	169	13.611	13.630	(0.916)	432780	25.0000	23.82
$	55 2,4,6-Tribromophenol	330	13.793	13.798	(1.103)	76705	25.0000	27.21
	56 4-Bromophenyl-phenylether	248	14.183	14.185	(0.954)	188502	25.0000	25.20
	57 Hexachlorobenzene	284	14.386	14.399	(0.968)	196721	25.0000	24.67
	58 Pentachlorophenol	266	14.696	14.704	(0.989)	127003	25.0000	30.64
*	59 Phenanthrene-d10	188	14.861	14.869	(1.000)	503793	20.0000	
	60 Phenanthrene	178	14.899	14.912	(1.002)	790845	25.0000	23.48
	61 Anthracene	178	14.973	14.987	(1.008)	833467	25.0000	23.88
	62 Carbazole	167	15.267	15.280	(1.027)	756153	25.0000	23.31
	63 Di-n-butylphthalate	149	16.004	16.012	(1.077)	971559	25.0000	24.58
	64 Fluoranthene	202	16.827	16.835	(1.132)	886233	25.0000	24.30
	65 Pyrene	202	17.179	17.187	(0.897)	864054	25.0000	25.28
$	66 Terphenyl-d14	244	17.510	17.515	(0.914)	505765	25.0000	26.26
	67 Butylbenzylphthalate	149	18.413	18.421	(0.961)	435577	25.0000	28.04
	68 Benzo(a)anthracene	228	19.134	19.147	(0.999)	837394	25.0000	26.09
*	69 Chrysene-d12	240	19.161	19.169	(1.000)	532343	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.166	19.174	(1.000)	267484	25.0000	25.65
	71 Chrysene	228	19.198	19.217	(1.002)	772165	25.0000	25.54
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	593672	25.0000	25.50
*	134 Di-n-octylphthalate-d4	153	20.346	20.354	(1.000)	719428	20.0000	
	73 Di-n-octylphthalate	149	20.357	20.360	(1.001)	983658	25.0000	23.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.784	20.803	(0.975)	881261	25.0000	24.38
75	Benzo(k)fluoranthene	252	20.816	20.840	(0.977)	927133	25.0000	23.20
187	Total Benzofluoranthenes	252	20.816	20.840	(0.977)	1705649	50.0000	47.25
76	Benzo(a)pyrene	252	21.228	21.246	(0.996)	829054	25.0000	24.06
* 77	Perylene-d12	264	21.308	21.316	(1.000)	517269	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.697	22.720	(1.065)	1104393	25.0000	24.30
79	Dibenzo(a,h)anthracene	278	22.723	22.747	(1.066)	862084	25.0000	24.62
80	Benzo(g,h,i)perylene	276	23.054	23.089	(1.082)	992366	25.0000	24.07
90	N-Nitrosodimethylamine	74	2.721	2.750	(0.358)	200935	25.0000	25.15
103	Pyridine	79	2.689	2.702	(0.354)	370004	25.0000	26.58
91	Aniline	93	7.154	7.157	(0.942)	455640	25.0000	24.46
105	1-methylnaphthalene	141	10.968	10.975	(1.137)	469146	25.0000	23.55
93	Benzidine	184	17.099	17.107	(0.892)	265510	25.0000	23.42
111	Azobenzene (1,2-DP-Hydrazine)	77	13.654	13.667	(1.092)	570301	25.0000	24.01
143	1,4-Dioxane	88	2.149	2.168	(0.283)	130956	25.0000	24.94
$ 137	d8-1,4-Dioxane	96	2.107	2.125	(0.277)	132537	25.0000	25.86
144	alpha-Terpineol	59	9.718	9.731	(1.008)	173991	25.0000	24.39
98	Retene	219	17.751	17.759	(0.926)	297518	25.0000	27.01
133	Butylatedhydroxytoluene	205	12.698	12.706	(1.016)	448163	25.0000	23.16
115	Tributyl Phosphate	99	13.734	13.763	(0.924)	674856	25.0000	23.95
116	Dibutyl Phenyl Phosphate	175	15.449	15.457	(1.040)	473853	25.0000	25.33
117	Butyl Diphenyl Phosphate	94	17.126	17.134	(0.894)	155996	25.0000	26.75
118	Triphenyl Phosphate	326	18.723	18.731	(0.977)	156116	25.0000	27.93
123	Acetophenone	105	8.302	8.316	(1.094)	397677	25.0000	24.54
179	n-Decane	57	7.448	7.450	(0.981)	257349	25.0000	23.78
180	n-Octadecane	57	14.829	14.832	(0.998)	250246	25.0000	23.02
168	Pentachlorobenzene	250	12.853	12.866	(1.028)	219604	25.0000	24.46
113	Diphenyl Oxide	170	11.779	11.782	(0.942)	516503	25.0000	23.40
112	Biphenyl	154	11.582	11.590	(0.926)	598381	25.0000	23.73
120	2,3,4,6-Tetrachlorophenol	232	13.104	13.112	(1.048)	172859	25.0000	26.74
151	1,2,4,5-Tetrachlorobenzene	216	11.138	11.141	(0.891)	281398	25.0000	23.73
110	Tetrachloroguaiacol	247	14.824	14.842	(0.997)	202210	50.0000	51.38
109	3,4,5-Trichloroguaiacol	213	13.205	13.219	(0.889)	100748	25.0000	25.48
181	3,4,6-Trichloroguaiacol	211	13.323	13.331	(1.755)	121741	25.0000	26.57
108	4,5,6-Trichloroguaiacol	213	14.242	14.250	(1.139)	102033	25.0000	26.01
184	3,4-Dichloroguaiacol	192	11.667	11.675	(1.537)	106034	25.0000	26.14
107	4,5-Dichloroguaiacol	192	12.463	12.476	(0.997)	258682	50.0000	51.08
182	4,6-Dichloroguaiacol	192	12.463	12.476	(1.642)	258682	50.0000	51.40
185	4-Chloroguaiacol	115	10.594	10.596	(1.395)	67852	12.5000	13.18
186	Carbaryl	144	15.689	15.702	(1.056)	378522	25.0000	27.05
106	Guaiacol	124	8.575	8.588	(1.129)	270369	25.0000	23.80

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231001.D
Lab Smp Id: IC250723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC250723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	182786	0.00
27 Naphthalene-d8	584137	292068	1168274	584137	0.00
42 Acenaphthene-d10	320442	160221	640884	320442	0.00
59 Phenanthrene-d10	503793	251896	1007586	503793	0.00
69 Chrysene-d12	532343	266172	1064686	532343	0.00
134 Di-n-octylphthala	719428	359714	1438856	719428	0.00
77 Perylene-d12	517269	258634	1034538	517269	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.00
27 Naphthalene-d8	9.64	9.14	10.14	9.64	0.00
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	0.00
69 Chrysene-d12	19.16	18.66	19.66	19.16	0.00
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.31	0.00

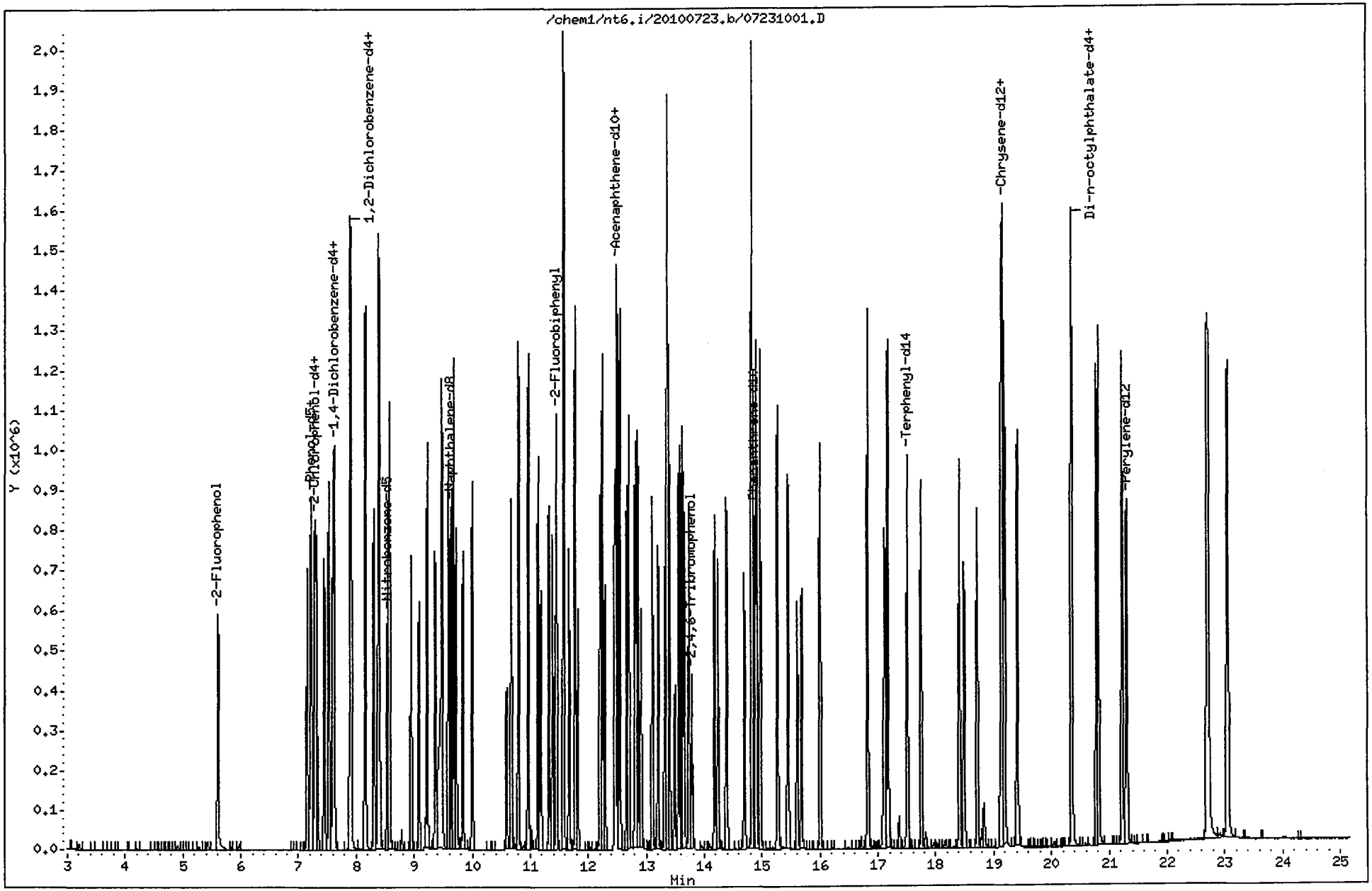
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231001.D
Date : 23-JUL-2010 15:01
Client ID: IC250723
Sample Info: IC250723

Instrument: nt6.i

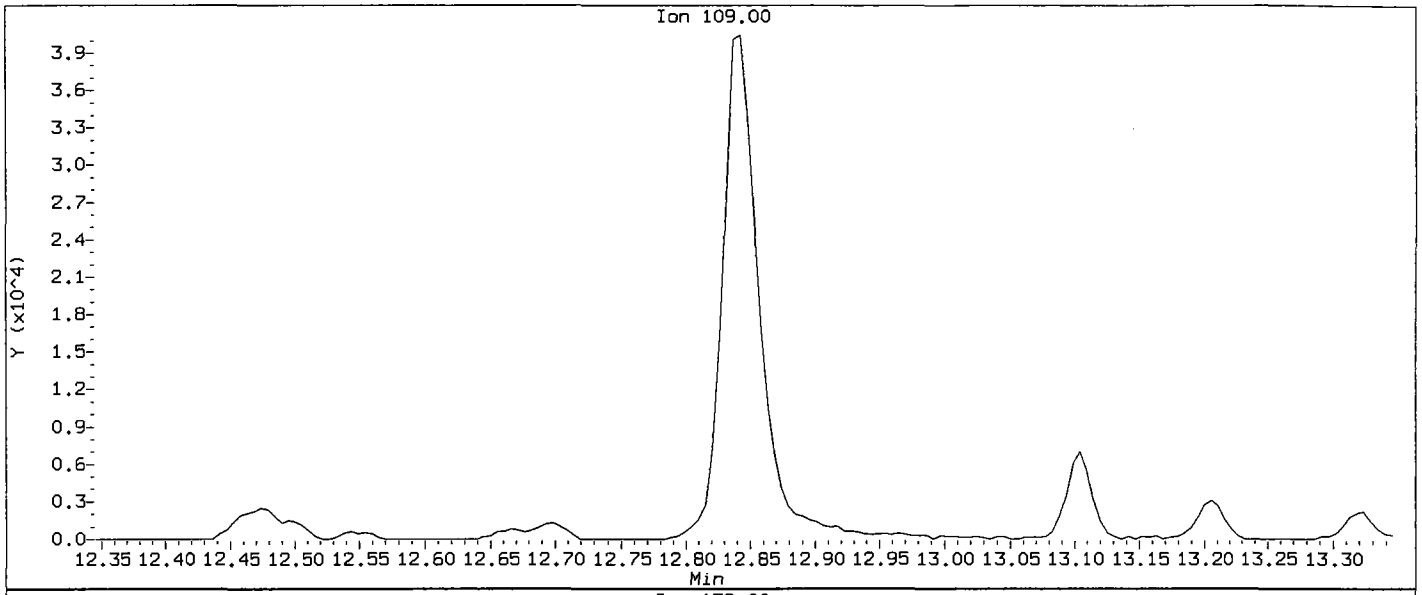
Operator: JZ
Column diameter: 0.32

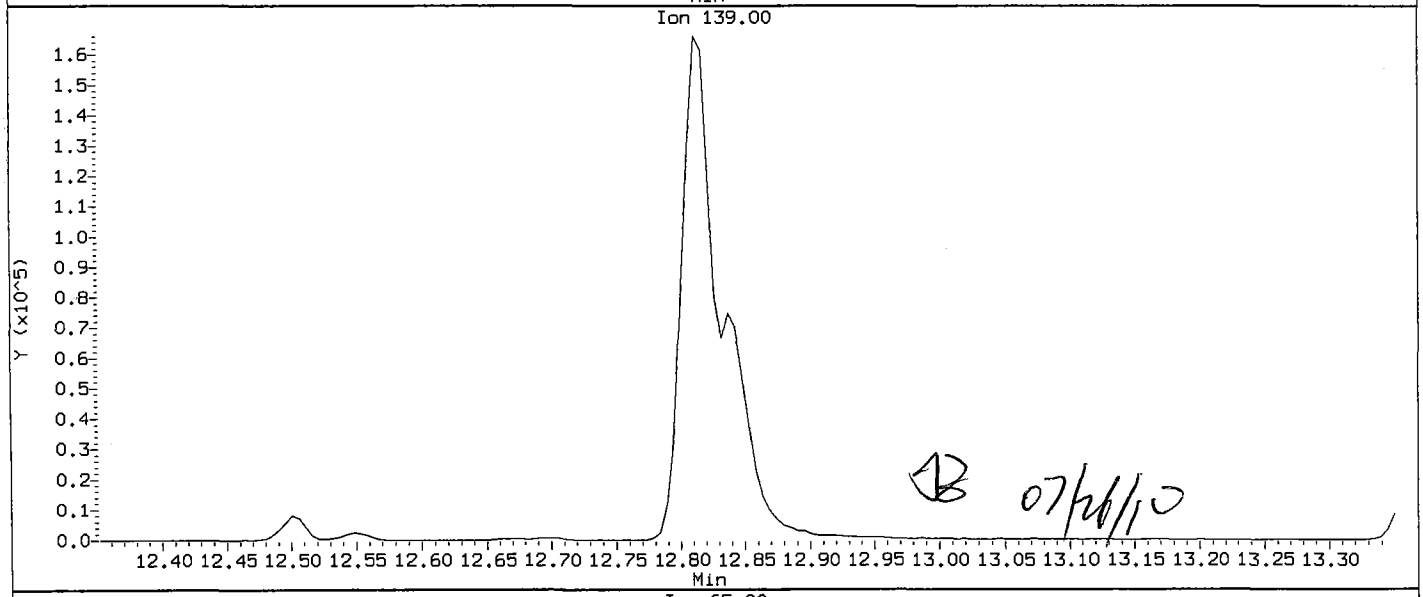
Column phase: ZB-5msi



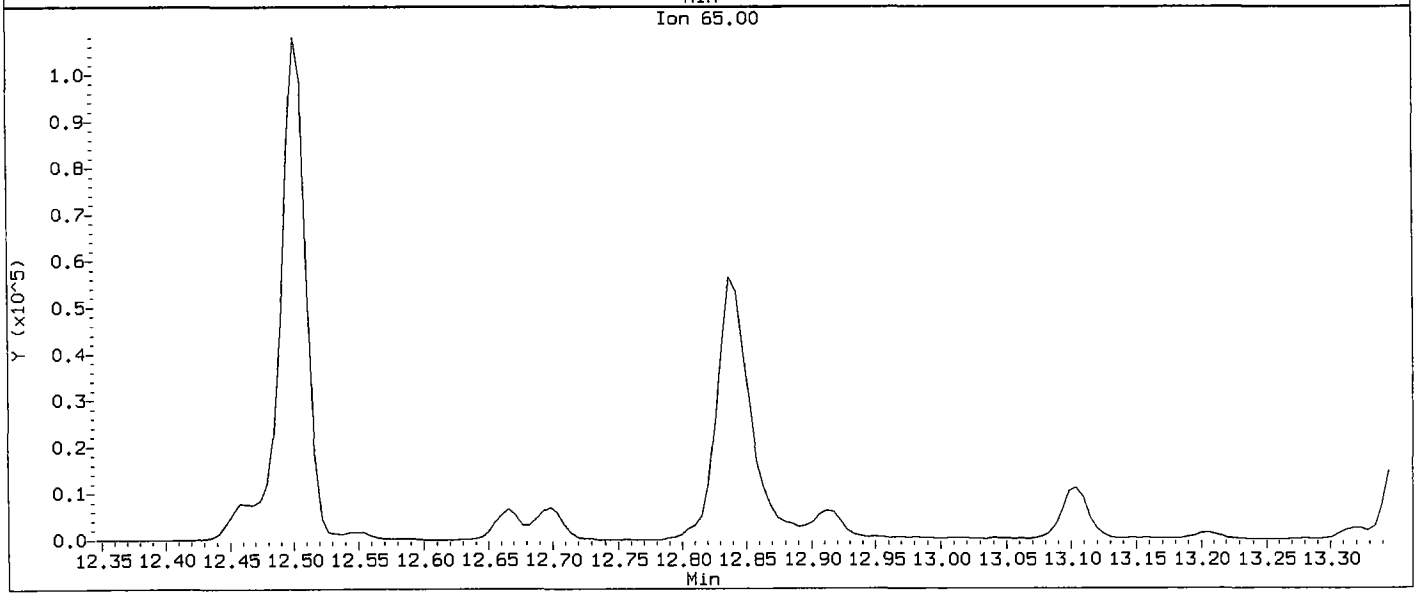
Data File: /chem1/nt6.i/20100723.b/07231001.D
Injection Date: 23-JUL-2010 15:01
Instrument: nt6.i
Client Sample ID: IC250723

Compound: 4-Nitrophenol
CAS Number: 100-02-7



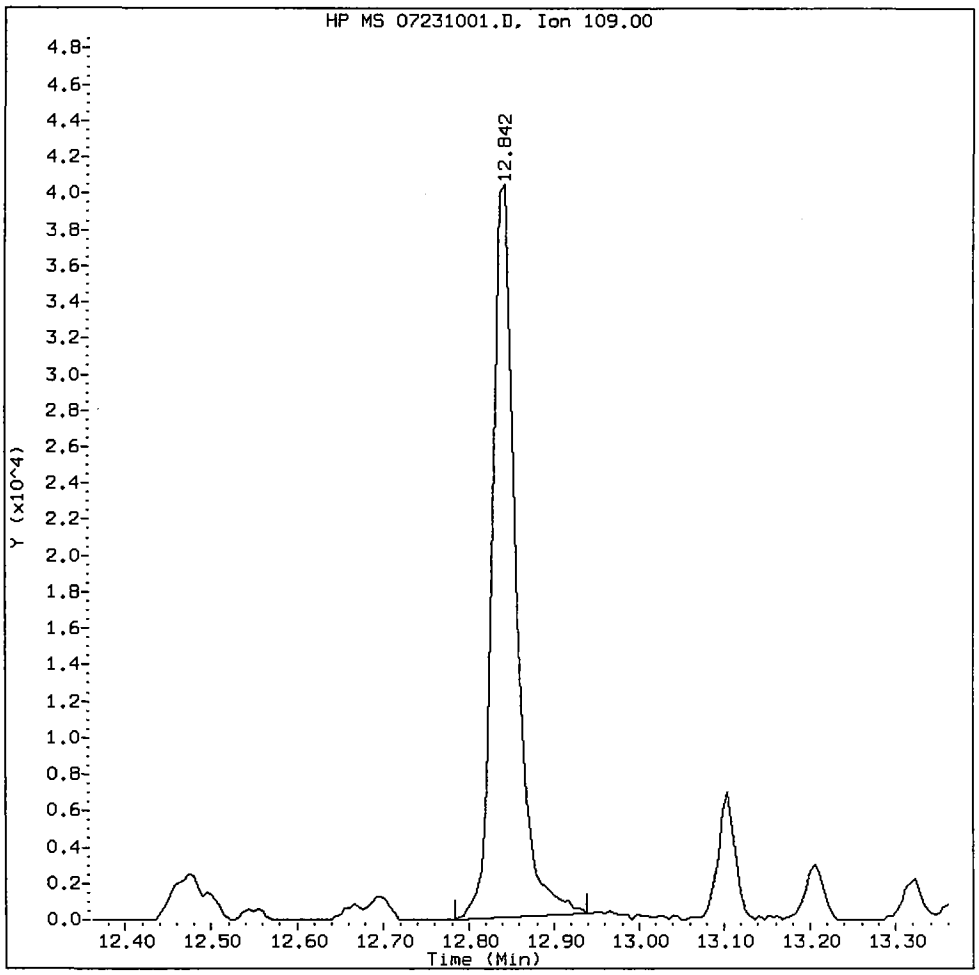


B 07/27/10



IC250723, /chem1/nt6.i/20100723.b/07231001.D

4-Nitrophenol Amount: 26.89 Area: 78303



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 07/16/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231005.D
Lab Smp Id: IC400723 Client Smp ID: IC400723
Inj Date : 23-JUL-2010 17:29
Operator : JZ Inst ID: nt6.i
Smp Info : IC400723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 17:29 Cal File: 07231005.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/26/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	5.605	5.610	(0.738)	478107	40.0000	39.70
$	2	Phenol-d5	99	7.213	7.218	(0.950)	523138	40.0000	37.21
	3	Phenol	94	7.229	7.237	(0.952)	573376	40.0000	35.94
$	5	2-Chlorophenol-d4	132	7.298	7.303	(0.961)	436515	40.0000	36.73
	4	Bis(2-Chloroethyl)ether	93	7.282	7.290	(0.959)	455918	40.0000	37.52
	6	2-Chlorophenol	128	7.320	7.327	(0.964)	498989	40.0000	36.31
	7	1,3-Dichlorobenzene	146	7.528	7.530	(0.992)	602247	40.0000	37.59
*	8	1,4-Dichlorobenzene-d4	152	7.592	7.595	(1.000)	179813	20.0000	
	9	1,4-Dichlorobenzene	146	7.619	7.621	(1.004)	597463	40.0000	38.22
$	10	1,2-Dichlorobenzene-d4	152	7.891	7.896	(1.039)	313019	40.0000	38.17
	12	1,2-Dichlorobenzene	146	7.913	7.915	(1.042)	541681	40.0000	37.00
	11	Benzyl alcohol	108	7.902	7.910	(1.041)	293342	40.0000	40.07
	14	2,2'-oxybis(1-Chloropropane)	45	8.158	8.161	(1.075)	488359	40.0000	37.54
	13	2-Methylphenol	108	8.158	8.166	(1.075)	439877	40.0000	37.15
	17	Hexachloroethane	117	8.399	8.406	(1.106)	214765	40.0000	37.73
	16	N-Nitroso-di-n-propylamine	70	8.383	8.390	(1.104)	316516	40.0000	38.46
	15	4-Methylphenol	108	8.399	8.406	(1.106)	435625	40.0000	36.84
$	18	Nitrobenzene-d5	82	8.538	8.542	(0.885)	446362	40.0000	38.77
	19	Nitrobenzene	77	8.570	8.572	(0.888)	485333	40.0000	36.97
	20	Isophorone	82	8.954	8.967	(0.928)	791586	40.0000	38.38
	21	2-Nitrophenol	139	9.082	9.090	(0.941)	297585	40.0000	39.96
	22	2,4-Dimethylphenol	107	9.227	9.234	(0.956)	466959	40.0000	36.98
	23	Bis(2-Chloroethoxy)methane	93	9.365	9.373	(0.971)	547954	40.0000	38.22
	24	Benzoic acid	105	9.520	9.603	(0.987)	761553	80.0000	88.65
	25	2,4-Dichlorophenol	162	9.478	9.485	(0.982)	415729	40.0000	38.19
	26	1,2,4-Trichlorobenzene	180	9.595	9.597	(0.994)	456415	40.0000	37.79
*	27	Naphthalene-d8	136	9.649	9.651	(1.000)	584978	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.675	9.683	(1.003)	1270631	40.0000	36.12
	29 4-Chloroaniline	127	9.841	9.843	(1.020)	516764	40.0000	37.11
	30 Hexachlorobutadiene	225	10.006	10.009	(1.037)	268712	40.0000	38.89
	31 4-Chloro-3-methylphenol	107	10.674	10.682	(1.106)	406596	40.0000	38.67
	32 2-Methylnaphthalene	141	10.797	10.805	(1.119)	699508	40.0000	36.82
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.894)	275445	40.0000	49.97
	34 2,4,6-Trichlorophenol	196	11.326	11.333	(0.906)	298271	40.0000	39.62
	35 2,4,5-Trichlorophenol	196	11.384	11.392	(0.911)	307523	40.0000	39.60
$	36 2-Fluorobiphenyl	172	11.454	11.453	(0.916)	849457	40.0000	36.06
	37 2-Chloronaphthalene	162	11.577	11.579	(0.926)	831977	40.0000	36.25
	38 2-Nitroaniline	65	11.828	11.835	(0.946)	221096	40.0000	40.57
	39 Dimethylphthalate	163	12.207	12.220	(0.976)	974193	40.0000	38.43
	40 Acenaphthylene	152	12.250	12.252	(0.980)	1297887	40.0000	36.13
	41 2,6-Dinitrotoluene	165	12.298	12.305	(0.984)	239593	40.0000	41.37
*	42 Acenaphthene-d10	164	12.501	12.503	(1.000)	327933	20.0000	
	43 3-Nitroaniline	138	12.506	12.519	(1.000)	203699	40.0000	37.22
	44 Acenaphthene	153	12.554	12.562	(1.004)	826657	40.0000	37.71
	45 2,4-Dinitrophenol	184	12.672	12.690	(1.014)	374074	80.0000	99.17
	46 Dibenzofuran	168	12.816	12.823	(1.025)	1085318	40.0000	37.16
	47 4-Nitrophenol	109	12.842	12.861	(1.027)	129026	40.0000	42.60
	48 2,4-Dinitrotoluene	165	12.917	12.930	(1.033)	315304	40.0000	42.37
	50 Diethylphthalate	149	13.366	13.368	(1.069)	853959	40.0000	36.04
	49 Fluorene	166	13.371	13.379	(1.070)	916824	40.0000	36.55
	51 4-Chlorophenyl-phenylether	204	13.409	13.411	(1.073)	470235	40.0000	39.20
	52 4-Nitroaniline	138	13.505	13.523	(1.080)	232223	40.0000	41.03
	53 4,6-Dinitro-2-methylphenol	198	13.574	13.593	(0.913)	427429	80.0000	83.76
	54 N-Nitrosodiphenylamine	169	13.617	13.630	(0.916)	701173	40.0000	37.56
$	55 2,4,6-Tribromophenol	330	13.793	13.798	(1.103)	126637	40.0000	43.05
	56 4-Bromophenyl-phenylether	248	14.183	14.185	(0.954)	311111	40.0000	39.90
	57 Hexachlorobenzene	284	14.391	14.399	(0.968)	320970	40.0000	38.86
	58 Pentachlorophenol	266	14.696	14.704	(0.988)	212167	40.0000	46.95
*	59 Phenanthrene-d10	188	14.867	14.869	(1.000)	525448	20.0000	
	60 Phenanthrene	178	14.904	14.912	(1.002)	1256713	40.0000	36.54
	61 Anthracene	178	14.974	14.987	(1.007)	1305609	40.0000	36.63
	62 Carbazole	167	15.273	15.280	(1.027)	1186045	40.0000	35.94
	63 Di-n-butylphthalate	149	16.004	16.012	(1.077)	1500393	40.0000	37.06
	64 Fluoranthene	202	16.827	16.835	(1.132)	1385977	40.0000	37.10
	65 Pyrene	202	17.179	17.187	(0.896)	1346276	40.0000	36.18
$	66 Terphenyl-d14	244	17.516	17.515	(0.914)	801457	40.0000	37.83
	67 Butylbenzylphthalate	149	18.413	18.421	(0.961)	691617	40.0000	39.94
	68 Benzo(a)anthracene	228	19.140	19.147	(0.999)	1310404	40.0000	37.25
*	69 Chrysene-d12	240	19.166	19.169	(1.000)	593530	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.166	19.174	(1.000)	420101	40.0000	36.85
	71 Chrysene	228	19.204	19.217	(1.002)	1223597	40.0000	36.98
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	938469	40.0000	39.60
*	134 Di-n-octylphthalate-d4	153	20.347	20.354	(1.000)	734023	20.0000	
	73 Di-n-octylphthalate	149	20.357	20.360	(1.001)	1521034	40.0000	36.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.790	20.803	(0.976)	1434589	40.0000	38.74
75	Benzo(k)fluoranthene	252	20.822	20.840	(0.977)	1367201	40.0000	34.31
187	Total Benzofluoranthenes	252	20.822	20.840	(0.977)	2643068	80.0000	72.56
76	Benzo(a)pyrene	252	21.233	21.246	(0.996)	1331524	40.0000	37.91
* 77	Perylene-d12	264	21.308	21.316	(1.000)	534102	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.707	22.720	(1.066)	1785536	40.0000	38.43
79	Dibenzo(a,h)anthracene	278	22.729	22.747	(1.067)	1387194	40.0000	38.69
80	Benzo(g,h,i)perylene	276	23.065	23.089	(1.082)	1604879	40.0000	38.14
90	N-Nitrosodimethylamine	74	2.732	2.750	(0.360)	310807	40.0000	39.63
103	Pyridine	79	2.694	2.702	(0.355)	579976	40.0000	41.86
91	Aniline	93	7.154	7.157	(0.942)	696532	40.0000	38.40
105	1-methylnaphthalene	141	10.968	10.975	(1.137)	725171	40.0000	37.03
93	Benzidine	184	17.099	17.107	(0.892)	394646	40.0000	32.65
111	Azobenzene (1,2-DP-Hydrazine)	77	13.654	13.667	(1.092)	904684	40.0000	37.74
143	1,4-Dioxane	88	2.155	2.168	(0.284)	207666	40.0000	40.16
$ 137	d8-1,4-Dioxane	96	2.112	2.125	(0.278)	206960	40.0000	40.83
144	alpha-Terpineol	59	9.723	9.731	(1.008)	282130	40.0000	39.60
98	Retene	219	17.751	17.759	(0.926)	492059	40.0000	40.05
133	Butylatedhydroxytoluene	205	12.698	12.706	(1.016)	701480	40.0000	36.25
115	Tributyl Phosphate	99	13.745	13.763	(0.925)	1084412	40.0000	37.48
116	Dibutyl Phenyl Phosphate	175	15.454	15.457	(1.040)	777710	40.0000	39.89
117	Butyl Diphenyl Phosphate	94	17.126	17.134	(0.894)	253920	40.0000	39.24
118	Triphenyl Phosphate	326	18.723	18.731	(0.977)	259068	40.0000	41.25
123	Acetophenone	105	8.308	8.316	(1.094)	621273	40.0000	39.17
179	n-Decane	57	7.448	7.450	(0.981)	396980	40.0000	37.80
180	n-Octadecane	57	14.829	14.832	(0.997)	386562	40.0000	35.13
168	Pentachlorobenzene	250	12.858	12.866	(1.029)	361056	40.0000	39.43
113	Diphenyl Oxide	170	11.780	11.782	(0.942)	805094	40.0000	36.43
112	Biphenyl	154	11.582	11.590	(0.926)	911660	40.0000	36.39
120	2,3,4,6-Tetrachlorophenol	232	13.110	13.112	(1.049)	292380	40.0000	43.28
151	1,2,4,5-Tetrachlorobenzene	216	11.139	11.141	(0.891)	455577	40.0000	38.01
110	Tetrachloroguaiacol	247	14.829	14.842	(0.997)	326377	80.0000	79.63
109	3,4,5-Trichloroguaiacol	213	13.211	13.219	(0.889)	165311	40.0000	40.07
181	3,4,6-Trichloroguaiacol	211	13.323	13.331	(1.755)	199643	40.0000	43.13
108	4,5,6-Trichloroguaiacol	213	14.242	14.250	(1.139)	167783	40.0000	41.33
184	3,4-Dichloroguaiacol	192	11.673	11.675	(1.537)	174240	40.0000	42.69
107	4,5-Dichloroguaiacol	192	12.469	12.476	(0.997)	416165	80.0000	80.22
182	4,6-Dichloroguaiacol	192	12.469	12.476	(1.642)	416165	80.0000	83.01
185	4-Chloroguaiacol	115	10.594	10.596	(1.395)	107719	20.0000	20.93
186	Carbaryl	144	15.689	15.702	(1.055)	632465	40.0000	42.62
106	Guaiacol	124	8.580	8.588	(1.130)	427217	40.0000	38.56

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231005.D
Lab Smp Id: IC400723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC400723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	179813	-1.63
27 Naphthalene-d8	584137	292068	1168274	584978	0.14
42 Acenaphthene-d10	320442	160221	640884	327933	2.34
59 Phenanthrene-d10	503793	251896	1007586	525448	4.30
69 Chrysene-d12	532343	266172	1064686	593530	11.49
134 Di-n-octylphthala	719428	359714	1438856	734023	2.03
77 Perylene-d12	517269	258634	1034538	534102	3.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.00
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.06
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.04
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.03
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.31	0.00

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

Data File: /chem1/nt6.i/20100723.b/07231005.D

Date : 23-JUL-2010 17:29

Client ID: IC400723

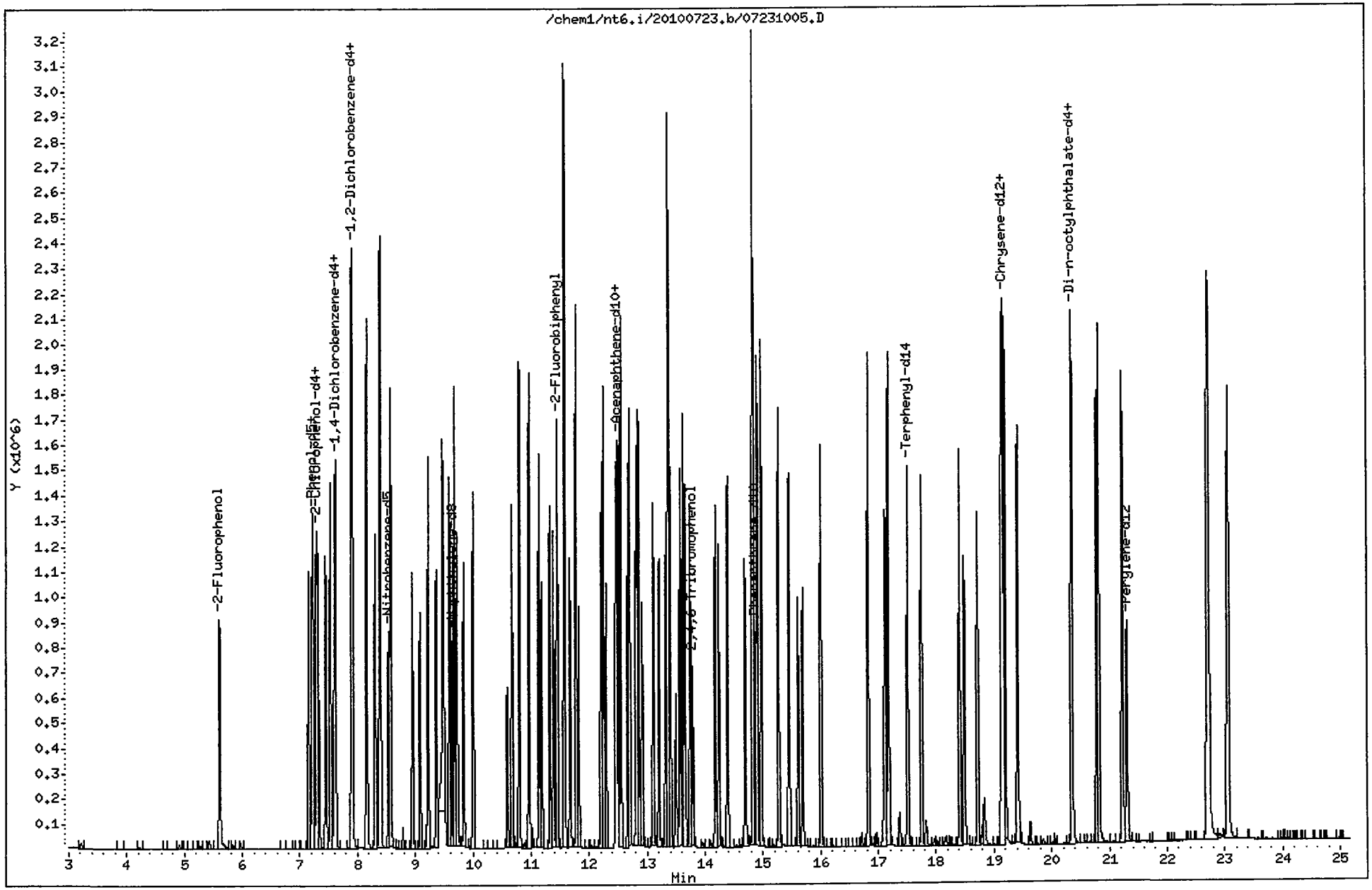
Sample Info: IC400723,

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231006.D
Lab Smp Id: IC600723 Client Smp ID: IC600723
Inj Date : 23-JUL-2010 18:01
Operator : JZ Inst ID: nt6.i
Smp Info : IC600723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:01 Cal File: 07231006.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/26/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.610	5.610	(0.738)	707424	60.0000	57.57
$	2 Phenol-d5	99	7.218	7.218	(0.950)	771071	60.0000	54.33
	3 Phenol	94	7.239	7.237	(0.953)	847974	60.0000	52.90
$	5 2-Chlorophenol-d4	132	7.303	7.303	(0.961)	648248	60.0000	54.08
	4 Bis(2-Chloroethyl)ether	93	7.287	7.290	(0.959)	659456	60.0000	53.84
	6 2-Chlorophenol	128	7.325	7.327	(0.964)	749255	60.0000	54.06
	7 1,3-Dichlorobenzene	146	7.533	7.530	(0.992)	878759	60.0000	54.34
*	8 1,4-Dichlorobenzene-d4	152	7.597	7.595	(1.000)	184946	20.0000	
	9 1,4-Dichlorobenzene	146	7.624	7.621	(1.004)	868746	60.0000	54.94
$	10 1,2-Dichlorobenzene-d4	152	7.896	7.896	(1.039)	463869	60.0000	55.77
	12 1,2-Dichlorobenzene	146	7.918	7.915	(1.042)	777966	60.0000	52.89
	11 Benzyl alcohol	108	7.907	7.910	(1.041)	432282	60.0000	57.83
	14 2,2'-oxybis(1-Chloropropane)	45	8.163	8.161	(1.075)	708425	60.0000	54.01
	13 2-Methylphenol	108	8.163	8.166	(1.075)	658836	60.0000	55.00
	17 Hexachloroethane	117	8.404	8.406	(1.106)	308477	60.0000	53.78
	16 N-Nitroso-di-n-propylamine	70	8.388	8.390	(1.104)	454211	60.0000	54.62
	15 4-Methylphenol	108	8.404	8.406	(1.106)	631240	60.0000	53.10
$	18 Nitrobenzene-d5	82	8.542	8.542	(0.885)	662173	60.0000	56.11
	19 Nitrobenzene	77	8.574	8.572	(0.889)	697353	60.0000	52.44
	20 Isophorone	82	8.959	8.967	(0.929)	1168591	60.0000	55.40
	21 2-Nitrophenol	139	9.087	9.090	(0.942)	458514	60.0000	59.41
	22 2,4-Dimethylphenol	107	9.231	9.234	(0.957)	699441	60.0000	54.35
	23 Bis(2-Chloroethoxy)methane	93	9.370	9.373	(0.971)	803647	60.0000	54.90
	24 Benzoic acid	105	9.568	9.603	(0.992)	1222479	120.000	133.3(M)
	25 2,4-Dichlorophenol	162	9.482	9.485	(0.983)	639889	60.0000	57.14
	26 1,2,4-Trichlorobenzene	180	9.595	9.597	(0.994)	663284	60.0000	53.96
*	27 Naphthalene-d8	136	9.648	9.651	(1.000)	607475	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.680	9.683	(1.003)	1781924	60.0000	50.35
	29 4-Chloroaniline	127	9.840	9.843	(1.020)	734328	60.0000	52.12
	30 Hexachlorobutadiene	225	10.006	10.009	(1.037)	405523	60.0000	57.07
	31 4-Chloro-3-methylphenol	107	10.679	10.682	(1.107)	612255	60.0000	56.70
	32 2-Methylnaphthalene	141	10.802	10.805	(1.120)	1018025	60.0000	52.84
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.894)	425348	60.0000	71.46
	34 2,4,6-Trichlorophenol	196	11.330	11.333	(0.906)	465479	60.0000	59.61
	35 2,4,5-Trichlorophenol	196	11.389	11.392	(0.911)	483158	60.0000	59.92
$	36 2-Fluorobiphenyl	172	11.453	11.453	(0.916)	1244640	60.0000	52.20
	37 2-Chloronaphthalene	162	11.576	11.579	(0.926)	1199578	60.0000	51.72
	38 2-Nitroaniline	65	11.832	11.835	(0.947)	335276	60.0000	59.36
	39 Dimethylphthalate	163	12.217	12.220	(0.977)	1436593	60.0000	55.40
	40 Acenaphthylene	152	12.249	12.252	(0.980)	1817418	60.0000	50.29
	41 2,6-Dinitrotoluene	165	12.303	12.305	(0.984)	371177	60.0000	61.42
*	42 Acenaphthene-d10	164	12.500	12.503	(1.000)	340603	20.0000	
	43 3-Nitroaniline	138	12.516	12.519	(1.001)	274842	60.0000	49.96
	44 Acenaphthene	153	12.559	12.562	(1.005)	1199130	60.0000	53.76
	45 2,4-Dinitrophenol	184	12.682	12.690	(1.015)	605790	120.000	146.2
	46 Dibenzofuran	168	12.821	12.823	(1.026)	1586285	60.0000	53.43
	47 4-Nitrophenol	109	12.853	12.861	(1.028)	193631	60.0000	61.29(M)
	48 2,4-Dinitrotoluene	165	12.927	12.930	(1.034)	481845	60.0000	61.94
	50 Diethylphthalate	149	13.371	13.368	(1.070)	1322312	60.0000	54.69
	49 Fluorene	166	13.376	13.379	(1.070)	1324287	60.0000	52.16
	51 4-Chlorophenyl-phenylether	204	13.408	13.411	(1.073)	706929	60.0000	57.25
	52 4-Nitroaniline	138	13.515	13.523	(1.081)	357914	60.0000	60.74
	53 4,6-Dinitro-2-methylphenol	198	13.584	13.593	(0.914)	680240	120.000	126.2
	54 N-Nitrosodiphenylamine	169	13.622	13.630	(0.916)	1042005	60.0000	54.50
$	55 2,4,6-Tribromophenol	330	13.798	13.798	(1.104)	200710	60.0000	64.67
	56 4-Bromophenyl-phenylether	248	14.183	14.185	(0.954)	469752	60.0000	58.12
	57 Hexachlorobenzene	284	14.391	14.399	(0.968)	487833	60.0000	57.16
	58 Pentachlorophenol	266	14.701	14.704	(0.989)	343904	60.0000	70.42
*	59 Phenanthrene-d10	188	14.866	14.869	(1.000)	548107	20.0000	
	60 Phenanthrene	178	14.909	14.912	(1.003)	1811434	60.0000	51.86
	61 Anthracene	178	14.978	14.987	(1.008)	1861671	60.0000	51.49
	62 Carbazole	167	15.272	15.280	(1.027)	1724877	60.0000	51.52
	63 Di-n-butylphthalate	149	16.009	16.012	(1.077)	2137856	60.0000	51.97
	64 Fluoranthene	202	16.832	16.835	(1.132)	1967573	60.0000	51.86
	65 Pyrene	202	17.184	17.187	(0.897)	1926828	60.0000	54.12
$	66 Terphenyl-d14	244	17.515	17.515	(0.914)	1184437	60.0000	57.75
	67 Butylbenzylphthalate	149	18.413	18.421	(0.961)	1016920	60.0000	60.17
	68 Benzo(a)anthracene	228	19.144	19.147	(0.999)	1907368	60.0000	56.27
*	69 Chrysene-d12	240	19.166	19.169	(1.000)	578965	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.166	19.174	(1.000)	614208	60.0000	55.97
	71 Chrysene	228	19.209	19.217	(1.002)	1763657	60.0000	55.47
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	1365056	60.0000	57.33
*	134 Di-n-octylphthalate-d4	153	20.346	20.354	(1.000)	744081	20.0000	
	73 Di-n-octylphthalate	149	20.362	20.360	(1.001)	2171789	60.0000	52.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	74 Benzo(b)fluoranthene	252	20.795	20.803	(0.976)	2108839	60.0000	54.16
	75 Benzo(k)fluoranthene	252	20.832	20.840	(0.978)	1999749	60.0000	48.59
	187 Total Benzofluoranthenes	252	20.832	20.840	(0.978)	3887015	120.000	102.4
	76 Benzo(a)pyrene	252	21.238	21.246	(0.997)	1975913	60.0000	53.59
*	77 Perylene-d12	264	21.308	21.316	(1.000)	572566	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.712	22.720	(1.066)	2716552	60.0000	55.38
	79 Dibenzo(a,h)anthracene	278	22.739	22.747	(1.067)	2095539	60.0000	55.36
	80 Benzo(g,h,i)perylene	276	23.075	23.089	(1.083)	2430911	60.0000	54.82
	90 N-Nitrosodimethylamine	74	2.742	2.750	(0.361)	461166	60.0000	57.63
	103 Pyridine	79	2.705	2.702	(0.356)	860099	60.0000	60.30
	91 Aniline	93	7.159	7.157	(0.942)	1005247	60.0000	54.81
	105 1-methylnaphthalene	141	10.973	10.975	(1.137)	1058350	60.0000	53.22
	93 Benzidine	184	17.104	17.107	(0.892)	575385	60.0000	50.37
	111 Azobenzene (1,2-DP-Hydrazine)	77	13.659	13.667	(1.093)	1300956	60.0000	53.40
	143 1,4-Dioxane	88	2.165	2.168	(0.285)	310488	60.0000	58.64
$	137 d8-1,4-Dioxane	96	2.122	2.125	(0.279)	315891	60.0000	60.49
	144 alpha-Terpineol	59	9.728	9.731	(1.008)	427485	60.0000	58.13
	98 Retene	219	17.756	17.759	(0.926)	752823	60.0000	62.33
	133 Butylatedhydroxytoluene	205	12.703	12.706	(1.016)	1051020	60.0000	53.44
	115 Tributyl Phosphate	99	13.755	13.763	(0.925)	1619252	60.0000	54.62
	116 Dibutyl Phenyl Phosphate	175	15.454	15.457	(1.040)	1173813	60.0000	58.09
	117 Butyl Diphenyl Phosphate	94	17.131	17.134	(0.894)	389020	60.0000	61.35
	118 Triphenyl Phosphate	326	18.722	18.731	(0.977)	410539	60.0000	65.73
	123 Acetophenone	105	8.313	8.316	(1.094)	917180	60.0000	56.82
	179 n-Decane	57	7.453	7.450	(0.981)	581639	60.0000	54.78
	180 n-Octadecane	57	14.829	14.832	(0.997)	552713	60.0000	49.79
	168 Pentachlorobenzene	250	12.863	12.866	(1.029)	542976	60.0000	57.56
	113 Diphenyl Oxide	170	11.779	11.782	(0.942)	1187278	60.0000	52.95
	112 Biphenyl	154	11.587	11.590	(0.927)	1302449	60.0000	51.77
	120 2,3,4,6-Tetrachlorophenol	232	13.109	13.112	(1.049)	464221	60.0000	65.05
	151 1,2,4,5-Tetrachlorobenzene	216	11.138	11.141	(0.891)	701362	60.0000	56.91
	110 Tetrachloroguaiacol	247	14.834	14.842	(0.998)	504715	120.000	118.4
	109 3,4,5-Trichloroguaiacol	213	13.210	13.219	(0.889)	260835	60.0000	60.48
	181 3,4,6-Trichloroguaiacol	211	13.328	13.331	(1.754)	313950	60.0000	64.67
	108 4,5,6-Trichloroguaiacol	213	14.247	14.250	(1.140)	264245	60.0000	62.12
	184 3,4-Dichloroguaiacol	192	11.672	11.675	(1.536)	272767	60.0000	63.91
	107 4,5-Dichloroguaiacol	192	12.468	12.476	(0.997)	650083	120.000	120.5
	182 4,6-Dichloroguaiacol	192	12.468	12.476	(1.641)	650734	120.000	124.9
	185 4-Chloroguaiacol	115	10.593	10.596	(1.394)	167281	30.0000	31.27
	186 Carbaryl	144	15.694	15.702	(1.056)	932958	60.0000	60.23
	106 Guaiacol	124	8.585	8.588	(1.130)	647516	60.0000	57.33

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231006.D
Lab Smp Id: IC600723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC600723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	184946	1.18
27 Naphthalene-d8	584137	292068	1168274	607475	4.00
42 Acenaphthene-d10	320442	160221	640884	340603	6.29
59 Phenanthrene-d10	503793	251896	1007586	548107	8.80
69 Chrysene-d12	532343	266172	1064686	578965	8.76
134 Di-n-octylphthala	719428	359714	1438856	744081	3.43
77 Perylene-d12	517269	258634	1034538	572566	10.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.60	0.07
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.05
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.03
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.03
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.31	0.00

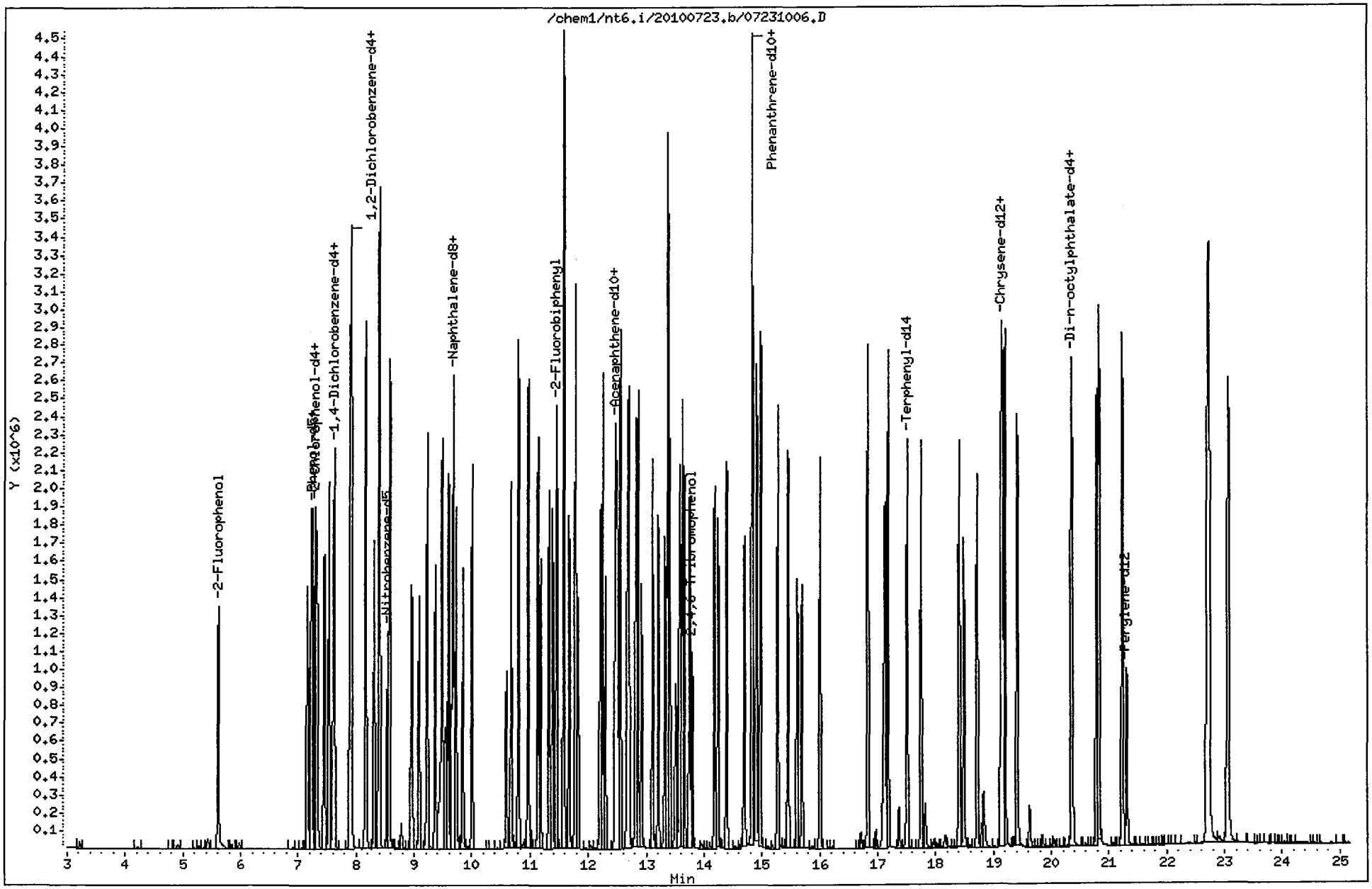
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231006.D
Date : 23-JUL-2010 18:01
Client ID: IC600723
Sample Info: IC600723,

Instrument: nt6.i

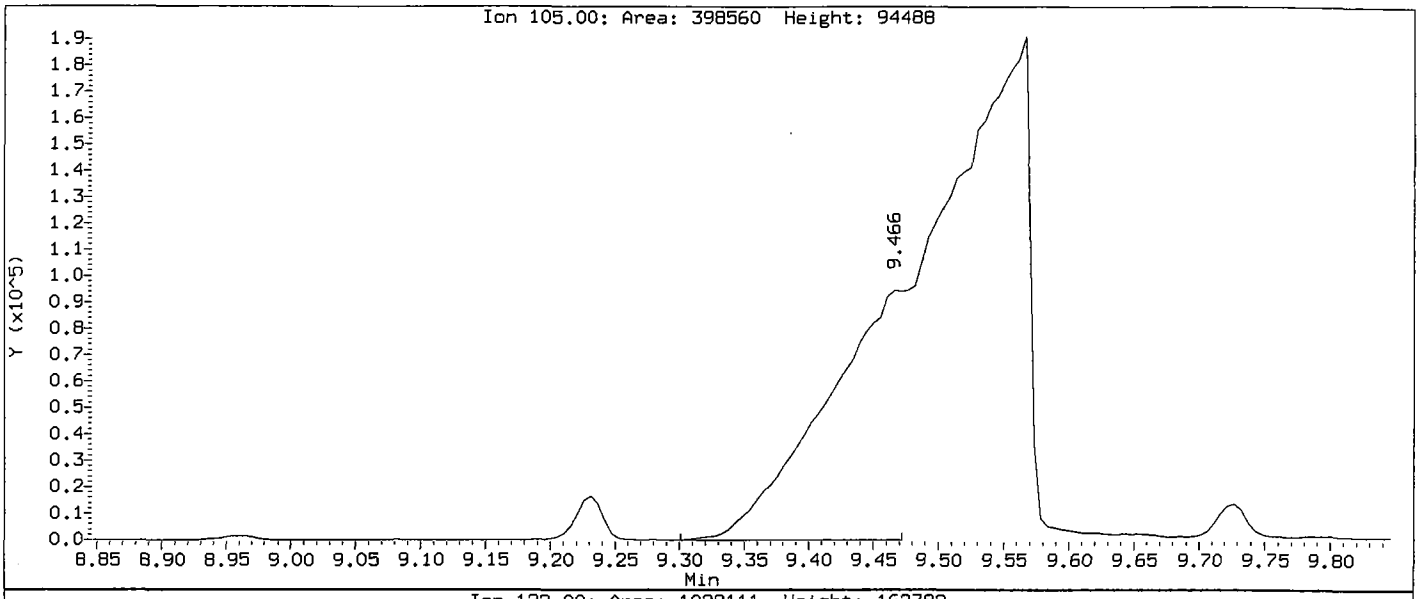
Operator: JZ
Column diameter: 0.32

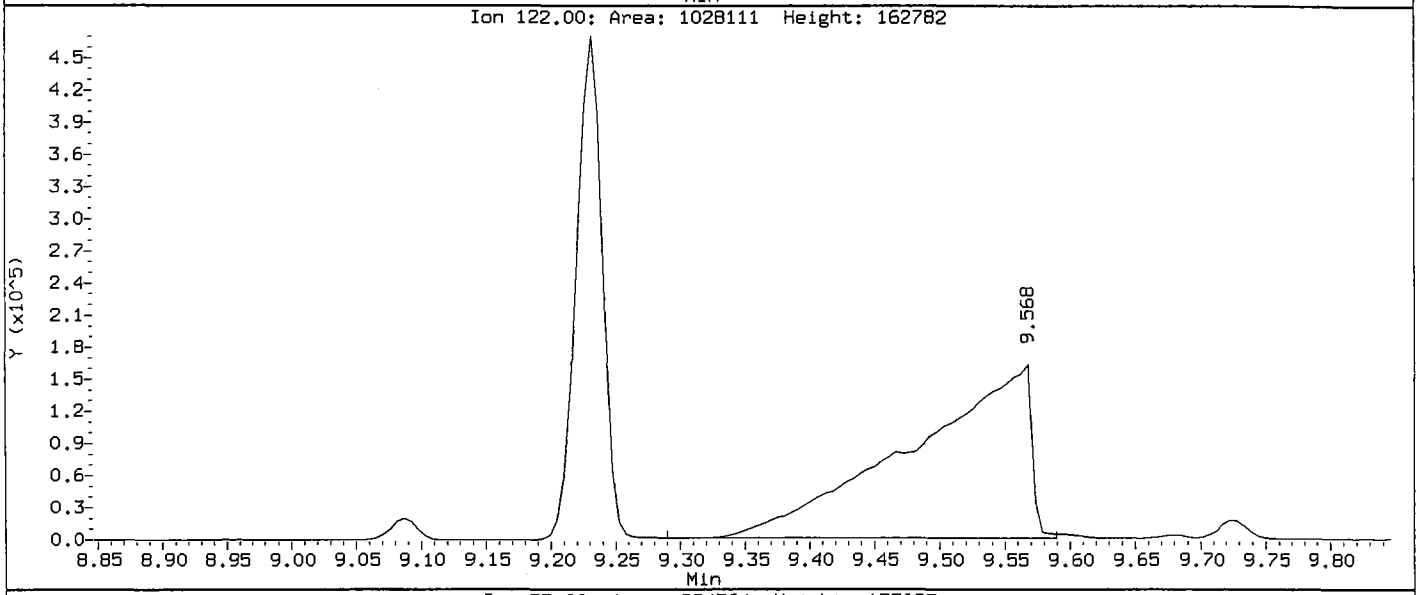
Column phase: ZB-5msi

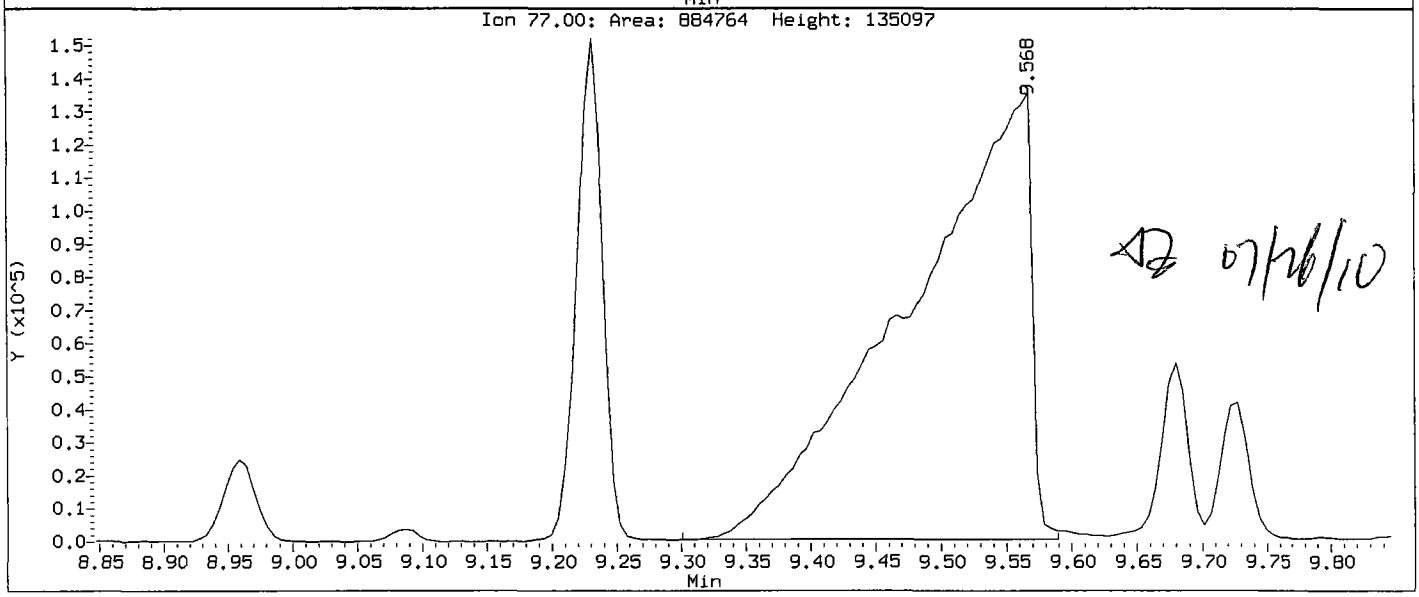


Data File: /chem1/nt6.i/20100723.b/07231006.D
Injection Date: 23-JUL-2010 18:01
Instrument: nt6.i
Client Sample ID: IC600723

Compound: Benzoic acid
CAS Number: 65-85-0



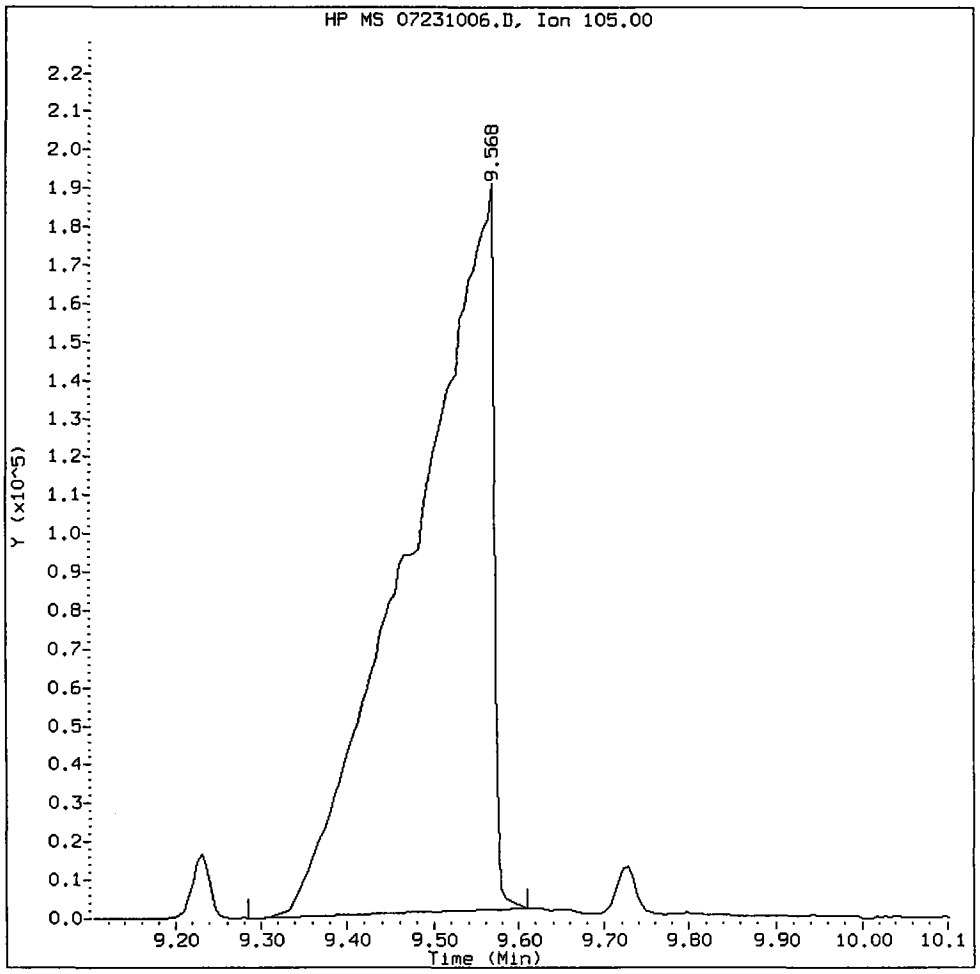




AD 07/26/10

IC600723, /chem1/nt6.i/20100723.b/07231006.D

Benzoic acid Amount: 133.25 Area: 1222479



MANUAL INTEGRATION for Benzoic acid

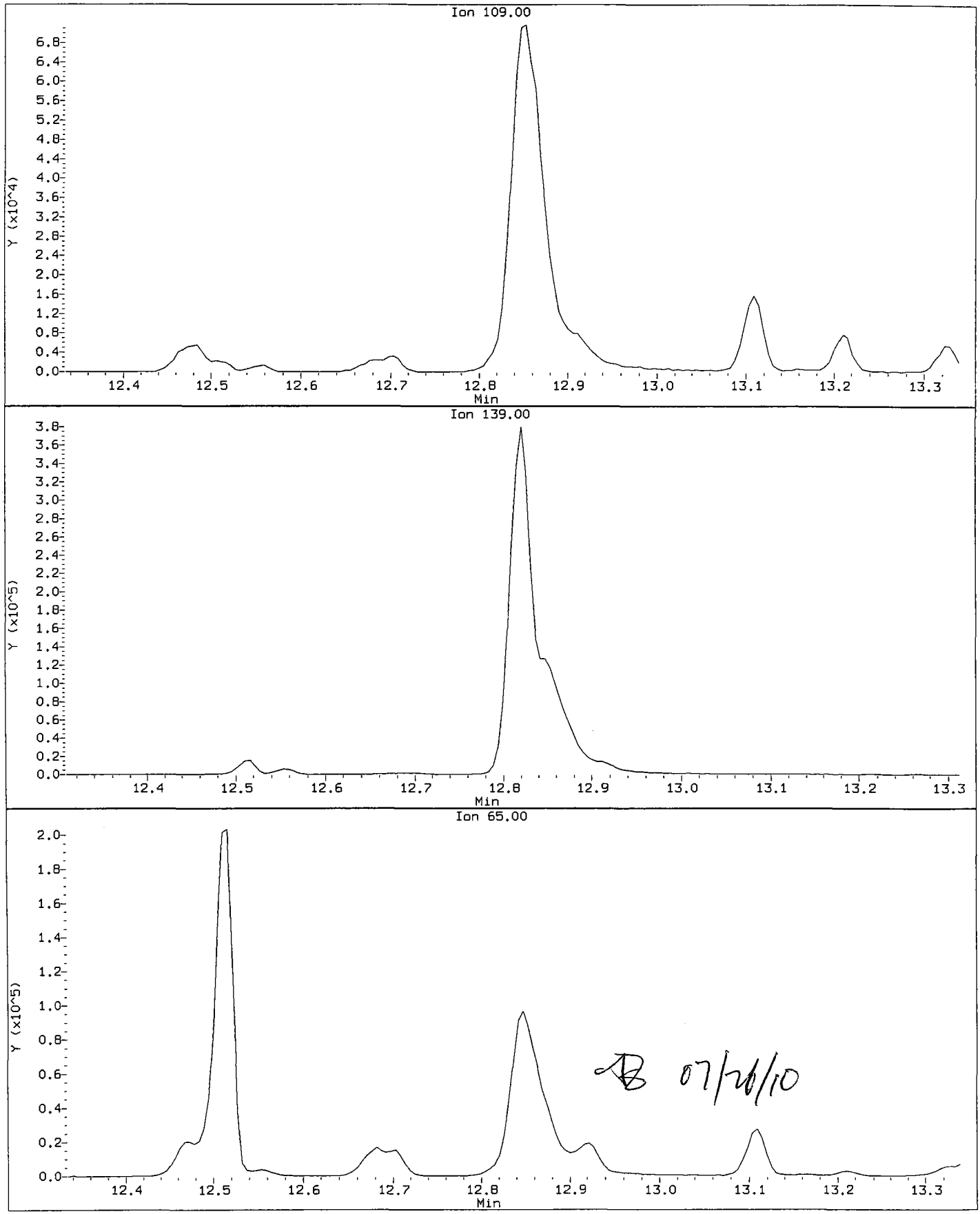
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Data File: /chem1/nt6.i/20100723.b/07231006.D
Injection Date: 23-JUL-2010 18:01
Instrument: nt6.i
Client Sample ID: IC600723

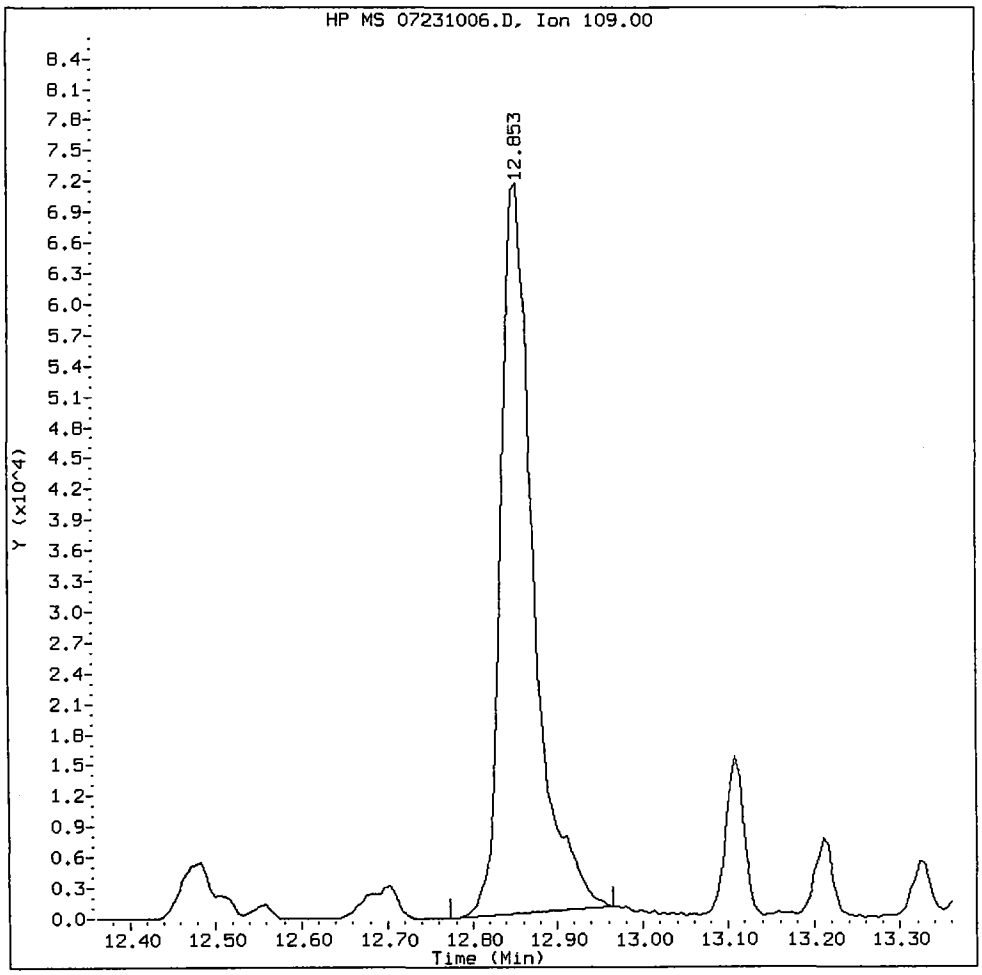
Compound: 4-Nitrophenol
CAS Number: 100-02-7



07/26/10

IC600723, /chem1/nt6.i/20100723.b/07231006.D

4-Nitrophenol Amount: 61.29 Area: 193631



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231007.D
Lab Smp Id: IC800723 Client Smp ID: IC800723
Inj Date : 23-JUL-2010 18:38
Operator : JZ Inst ID: nt6.i
Smp Info : IC800723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/28/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	Compound Not Detected.					
$	2 Phenol-d5	99	Compound Not Detected.					
	3 Phenol	94	7.237	7.237	(0.953)	1126724	80.0000	71.82
$	5 2-Chlorophenol-d4	132	Compound Not Detected.					
	4 Bis(2-Chloroethyl)ether	93	7.290	7.290	(0.960)	883307	80.0000	73.45
	6 2-Chlorophenol	128	7.327	7.327	(0.965)	974470	80.0000	71.84
	7 1,3-Dichlorobenzene	146	7.530	7.530	(0.992)	1122451	80.0000	71.04
*	8 1,4-Dichlorobenzene-d4	152	7.595	7.595	(1.000)	184081	20.0000	
	9 1,4-Dichlorobenzene	146	7.621	7.621	(1.004)	1114001	80.0000	71.96
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	7.915	7.915	(1.042)	1033272	80.0000	71.78
	11 Benzyl alcohol	108	7.910	7.910	(1.041)	587828	80.0000	79.15
	14 2,2'-oxybis(1-Chloropropane)	45	8.161	8.161	(1.075)	914751	80.0000	71.33
	13 2-Methylphenol	108	8.166	8.166	(1.075)	828388	80.0000	70.81
	17 Hexachloroethane	117	8.406	8.406	(1.107)	391434	80.0000	70.00
	16 N-Nitroso-di-n-propylamine	70	8.390	8.390	(1.105)	582100	80.0000	71.57
	15 4-Methylphenol	108	8.406	8.406	(1.107)	788189	80.0000	68.24
$	18 Nitrobenzene-d5	82	Compound Not Detected.					
	19 Nitrobenzene	77	8.572	8.572	(0.888)	938257	80.0000	72.12
	20 Isophorone	82	8.967	8.967	(0.929)	1534357	80.0000	74.06
	21 2-Nitrophenol	139	9.090	9.090	(0.942)	590820	80.0000	77.40
	22 2,4-Dimethylphenol	107	9.234	9.234	(0.957)	891173	80.0000	70.95
	23 Bis(2-Chloroethoxy)methane	93	9.373	9.373	(0.971)	1052582	80.0000	73.32
	24 Benzoic acid	105	9.603	9.603	(0.995)	1615248	160.000	174.0 (M)
	25 2,4-Dichlorophenol	162	9.485	9.485	(0.983)	813900	80.0000	74.01
	26 1,2,4-Trichlorobenzene	180	9.597	9.597	(0.994)	860458	80.0000	71.62
*	27 Naphthalene-d8	136	9.651	9.651	(1.000)	604045	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.683	9.683	(1.003)	2226345	80.0000	65.21
	29 4-Chloroaniline	127	9.843	9.843	(1.020)	933966	80.0000	68.29
	30 Hexachlorobutadiene	225	10.009	10.009	(1.037)	531907	80.0000	75.92
	31 4-Chloro-3-methylphenol	107	10.682	10.682	(1.107)	783143	80.0000	73.86
	32 2-Methylnaphthalene	141	10.805	10.805	(1.120)	1296353	80.0000	69.19
	33 Hexachlorocyclopentadiene	237	11.184	11.184	(0.894)	562487	80.0000	92.87
	34 2,4,6-Trichlorophenol	196	11.333	11.333	(0.906)	612923	80.0000	79.37
	35 2,4,5-Trichlorophenol	196	11.392	11.392	(0.911)	629388	80.0000	78.99
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	11.579	11.579	(0.926)	1529762	80.0000	68.24
	38 2-Nitroaniline	65	11.835	11.835	(0.947)	440827	80.0000	78.99
	39 Dimethylphthalate	163	12.220	12.220	(0.977)	1852039	80.0000	73.16
	40 Acenaphthylene	152	12.252	12.252	(0.980)	2262161	80.0000	65.17
	41 2,6-Dinitrotoluene	165	12.305	12.305	(0.984)	495961	80.0000	82.45
*	42 Acenaphthene-d10	164	12.503	12.503	(1.000)	337280	20.0000	
	43 3-Nitroaniline	138	12.519	12.519	(1.001)	332728	80.0000	63.22
	44 Acenaphthene	153	12.562	12.562	(1.005)	1537831	80.0000	70.94
	45 2,4-Dinitrophenol	184	12.690	12.690	(1.015)	800753	160.000	188.3
	46 Dibenzofuran	168	12.823	12.823	(1.026)	2012989	80.0000	69.91
	47 4-Nitrophenol	109	12.861	12.861	(1.029)	250336	80.0000	80.02(M)
	48 2,4-Dinitrotoluene	165	12.930	12.930	(1.034)	641395	80.0000	82.78
	50 Diethylphthalate	149	13.368	13.368	(1.069)	1683972	80.0000	71.56
	49 Fluorene	166	13.379	13.379	(1.070)	1669783	80.0000	68.07
	51 4-Chlorophenyl-phenylether	204	13.411	13.411	(1.073)	924625	80.0000	76.22
	52 4-Nitroaniline	138	13.523	13.523	(1.082)	480261	80.0000	81.96
	53 4,6-Dinitro-2-methylphenol	198	13.593	13.593	(0.914)	898863	160.000	165.3
	54 N-Nitrosodiphenylamine	169	13.630	13.630	(0.917)	1336197	80.0000	71.05
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	14.185	14.185	(0.954)	623118	80.0000	77.37
	57 Hexachlorobenzene	284	14.399	14.399	(0.968)	646668	80.0000	76.22
	58 Pentachlorophenol	266	14.704	14.704	(0.989)	459345	80.0000	91.60
*	59 Phenanthrene-d10	188	14.869	14.869	(1.000)	549184	20.0000	
	60 Phenanthrene	178	14.912	14.912	(1.003)	2305020	80.0000	67.57
	61 Anthracene	178	14.987	14.987	(1.008)	2344156	80.0000	66.52
	62 Carbazole	167	15.280	15.280	(1.028)	2213821	80.0000	67.69
	63 Di-n-butylphthalate	149	16.012	16.012	(1.077)	2664538	80.0000	66.47
	64 Fluoranthene	202	16.835	16.835	(1.132)	2453870	80.0000	66.39
	65 Pyrene	202	17.187	17.187	(0.897)	2416567	80.0000	69.90
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	18.421	18.421	(0.961)	1317448	80.0000	78.82
	68 Benzo(a)anthracene	228	19.147	19.147	(0.999)	2451149	80.0000	73.87
*	69 Chrysene-d12	240	19.169	19.169	(1.000)	574045	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.174	19.174	(1.000)	807285	80.0000	74.97
	71 Chrysene	228	19.217	19.217	(1.002)	2263478	80.0000	72.87
	72 bis(2-Ethylhexyl)phthalate	149	19.420	19.420	(0.954)	1765240	80.0000	75.51
*	134 Di-n-octylphthalate-d4	153	20.354	20.354	(1.000)	737424	20.0000	
	73 Di-n-octylphthalate	149	20.360	20.360	(1.000)	2759606	80.0000	69.04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.803	20.803	(0.976)	2878066	80.0000	72.41
75	Benzo(k)fluoranthene	252	20.840	20.840	(0.978)	2488308	80.0000	60.66
187	Total Benzofluoranthenes	252	20.840	20.840	(0.978)	5048243	160.000	132.0
76	Benzo(a)pyrene	252	21.246	21.246	(0.997)	2615653	80.0000	69.86
* 77	Perylene-d12	264	21.316	21.316	(1.000)	593718	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.720	22.720	(1.066)	3631800	80.0000	72.51
79	Dibenzo(a,h)anthracene	278	22.747	22.747	(1.067)	2711737	80.0000	70.46
80	Benzo(g,h,i)perylene	276	23.089	23.089	(1.083)	3230387	80.0000	71.50
90	N-Nitrosodimethylamine	74	2.750	2.750	(0.362)	620385	80.0000	78.18
103	Pyridine	79	2.702	2.702	(0.356)	1128868	80.0000	79.58
91	Aniline	93	7.157	7.157	(0.942)	1299555	80.0000	72.33
105	1-methylnaphthalene	141	10.975	10.975	(1.137)	1345774	80.0000	69.54
93	Benzidine	184	17.107	17.107	(0.892)	743780	80.0000	67.39
111	Azobenzene (1,2-DP-Hydrazine)	77	13.667	13.667	(1.093)	1784288	80.0000	74.77
143	1,4-Dioxane	88	2.168	2.168	(0.285)	412510	80.0000	78.51
$ 137	d8-1,4-Dioxane	96	2.125	2.125	(0.280)	419134	80.0000	80.55
144	alpha-Terpineol	59	9.731	9.731	(1.008)	549670	80.0000	75.83
98	Retene	219	17.759	17.759	(0.926)	959990	80.0000	80.14
133	Butylatedhydroxytoluene	205	12.706	12.706	(1.016)	1283146	80.0000	67.59
115	Tributyl Phosphate	99	13.763	13.763	(0.926)	2014000	80.0000	69.31
116	Dibutyl Phenyl Phosphate	175	15.457	15.457	(1.040)	1481750	80.0000	74.09
117	Butyl Diphenyl Phosphate	94	17.134	17.134	(0.894)	494257	80.0000	78.81
118	Triphenyl Phosphate	326	18.731	18.731	(0.977)	539388	80.0000	86.01
123	Acetophenone	105	8.316	8.316	(1.095)	1188668	80.0000	74.79
179	n-Decane	57	7.450	7.450	(0.981)	749840	80.0000	72.12
180	n-Octadecane	57	14.832	14.832	(0.997)	703022	80.0000	65.16
168	Pentachlorobenzene	250	12.866	12.866	(1.029)	718448	80.0000	77.34
113	Diphenyl Oxide	170	11.782	11.782	(0.942)	1519811	80.0000	69.89
112	Biphenyl	154	11.590	11.590	(0.927)	1616091	80.0000	66.98
120	2,3,4,6-Tetrachlorophenol	232	13.112	13.112	(1.049)	600513	80.0000	84.23
151	1,2,4,5-Tetrachlorobenzene	216	11.141	11.141	(0.891)	882626	80.0000	73.33
110	Tetrachloroguaiacol	247	14.842	14.842	(0.998)	648752	160.000	153.2
109	3,4,5-Trichloroguaiacol	213	13.219	13.219	(0.889)	337376	80.0000	78.39
181	3,4,6-Trichloroguaiacol	211	13.331	13.331	(1.755)	409150	80.0000	83.85
108	4,5,6-Trichloroguaiacol	213	14.250	14.250	(1.140)	347921	80.0000	82.16
184	3,4-Dichloroguaiacol	192	11.675	11.675	(1.537)	356500	80.0000	83.24
107	4,5-Dichloroguaiacol	192	12.476	12.476	(0.998)	832681	160.000	156.6
182	4,6-Dichloroguaiacol	192	12.476	12.476	(1.643)	834886	160.000	160.8
185	4-Chloroguaiacol	115	10.596	10.596	(1.395)	216477	40.0000	40.55
186	Carbaryl	144	15.702	15.702	(1.056)	1238106	80.0000	79.80
106	Guaiacol	124	8.588	8.588	(1.131)	826280	80.0000	74.37

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231007.D
Lab Smp Id: IC800723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC800723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	184081	0.71
27 Naphthalene-d8	584137	292068	1168274	604045	3.41
42 Acenaphthene-d10	320442	160221	640884	337280	5.25
59 Phenanthrene-d10	503793	251896	1007586	549184	9.01
69 Chrysene-d12	532343	266172	1064686	574045	7.83
134 Di-n-octylphthala	719428	359714	1438856	737424	2.50
77 Perylene-d12	517269	258634	1034538	593718	14.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.03
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.08
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.02
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.05
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.04
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.04
77 Perylene-d12	21.31	20.81	21.81	21.32	0.04

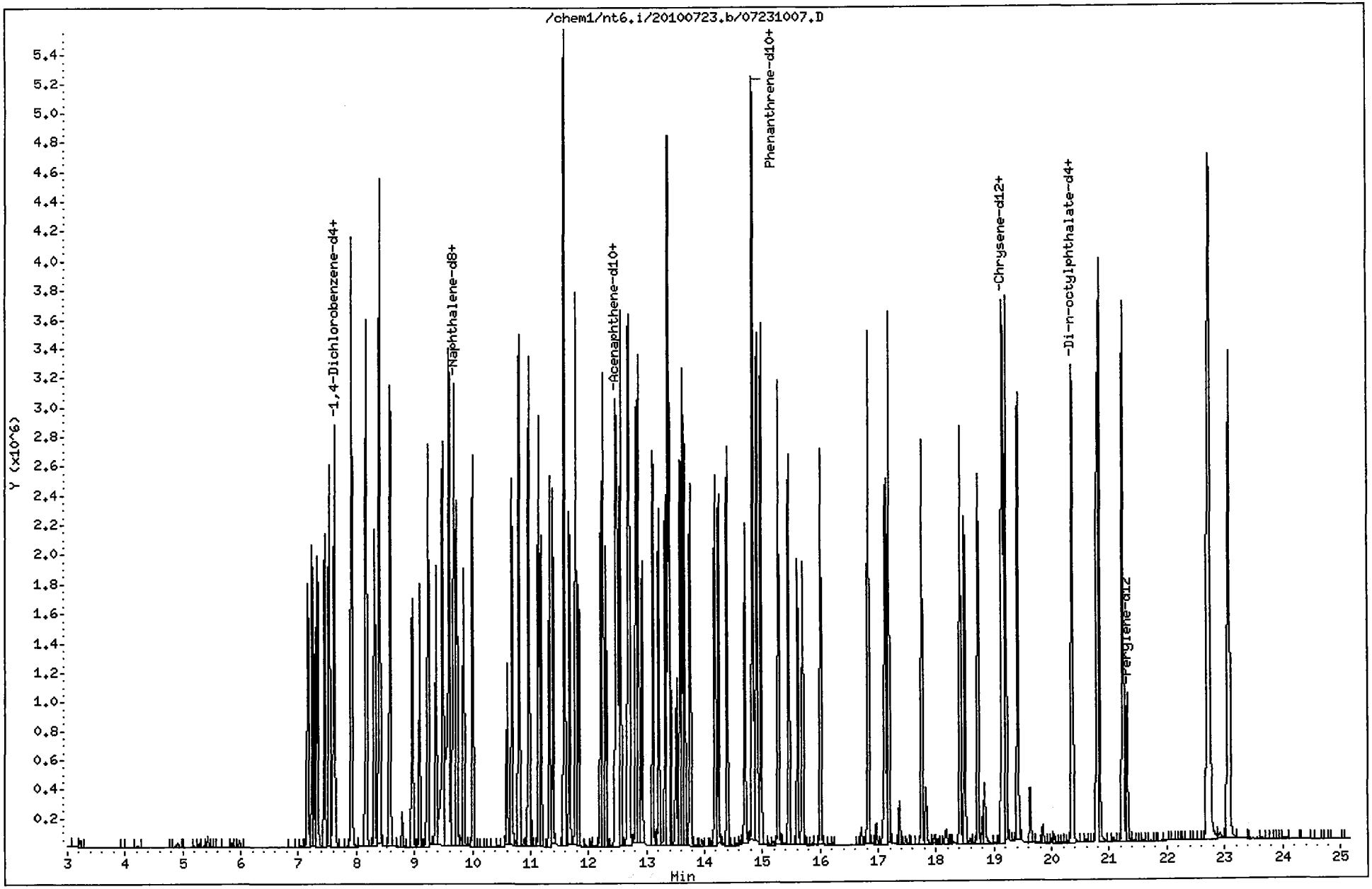
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231007.D
Date : 23-JUL-2010 18:38
Client ID: IC800723
Sample Info: IC800723,

Instrument: nt6.i

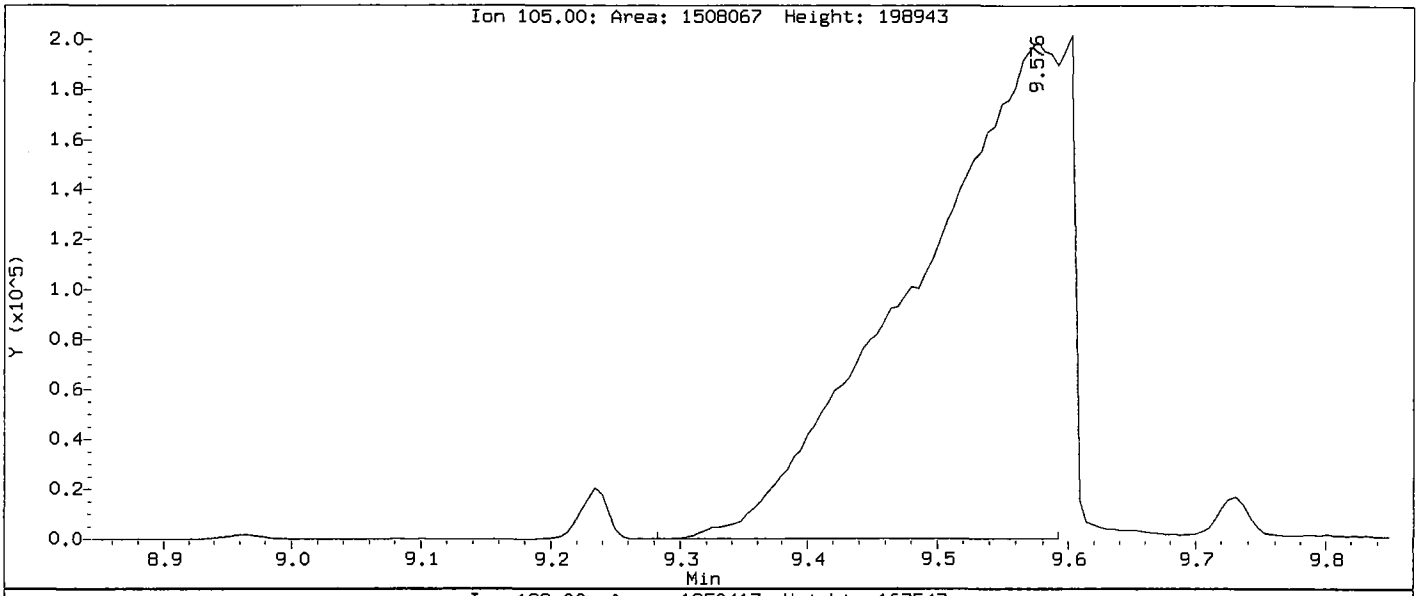
Operator: JZ
Column diameter: 0.32

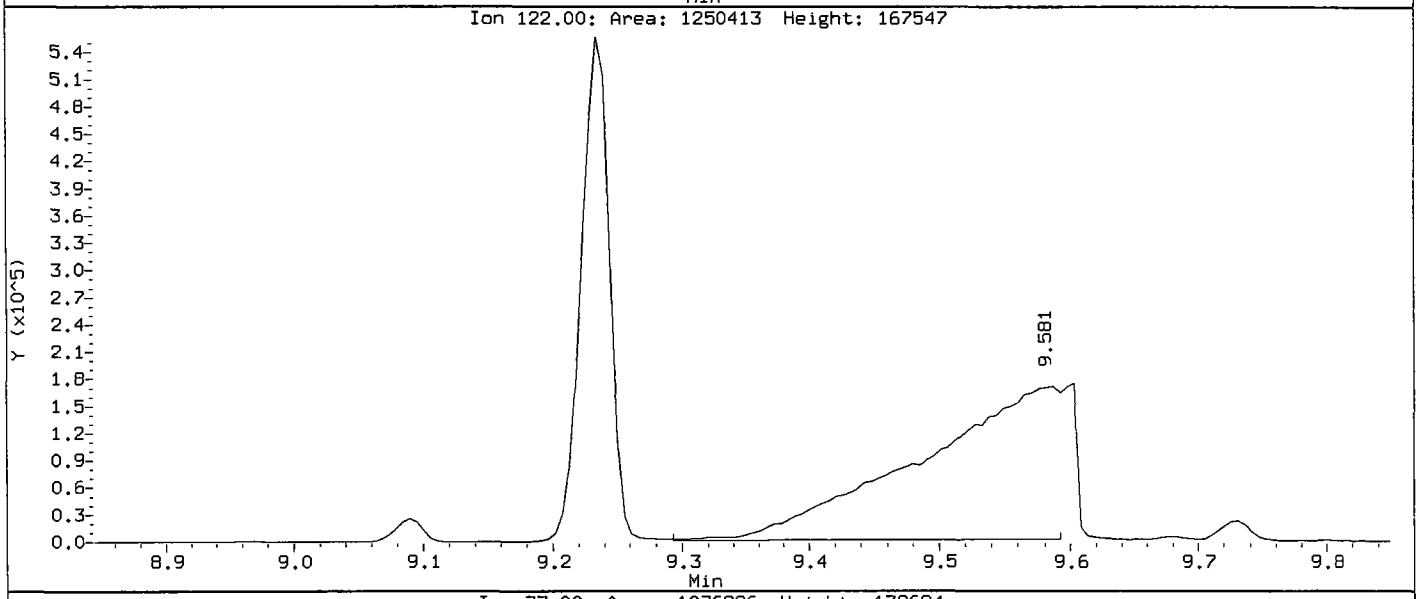
Column phase: ZB-5msi

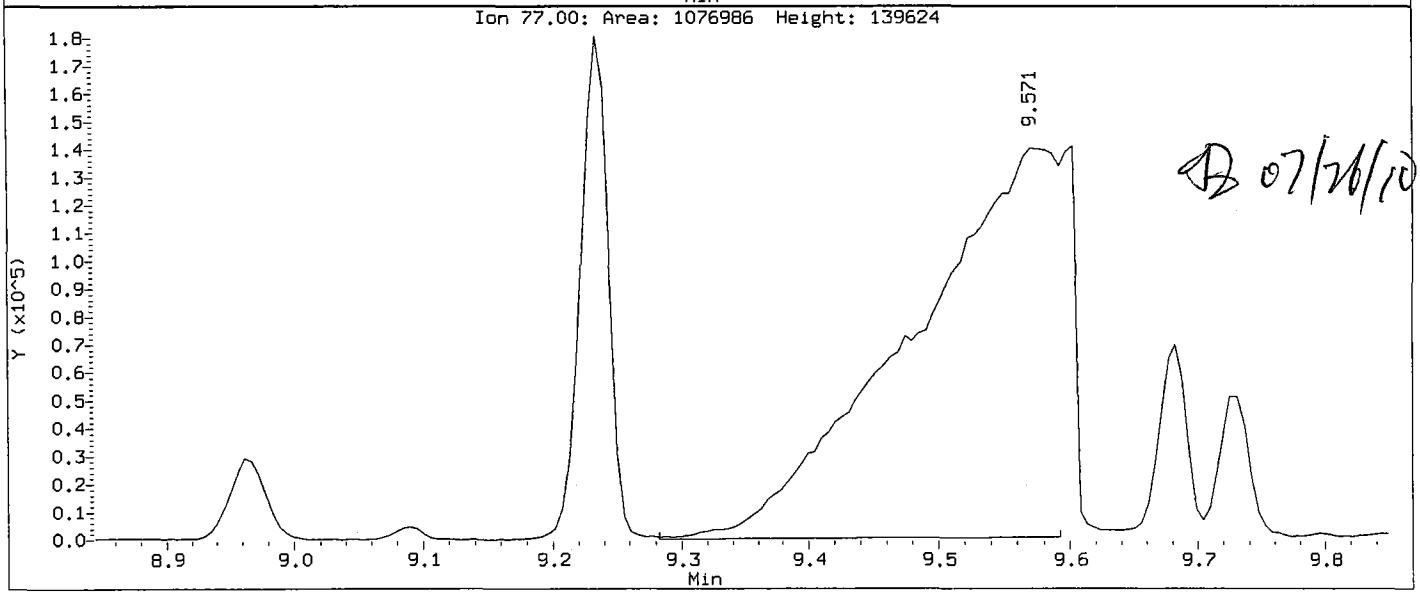


Data File: /chem1/nt6.i/20100723.b/07231007.D
Injection Date: 23-JUL-2010 18:38
Instrument: nt6.i
Client Sample ID: IC800723

Compound: Benzoic acid
CAS Number: 65-85-0





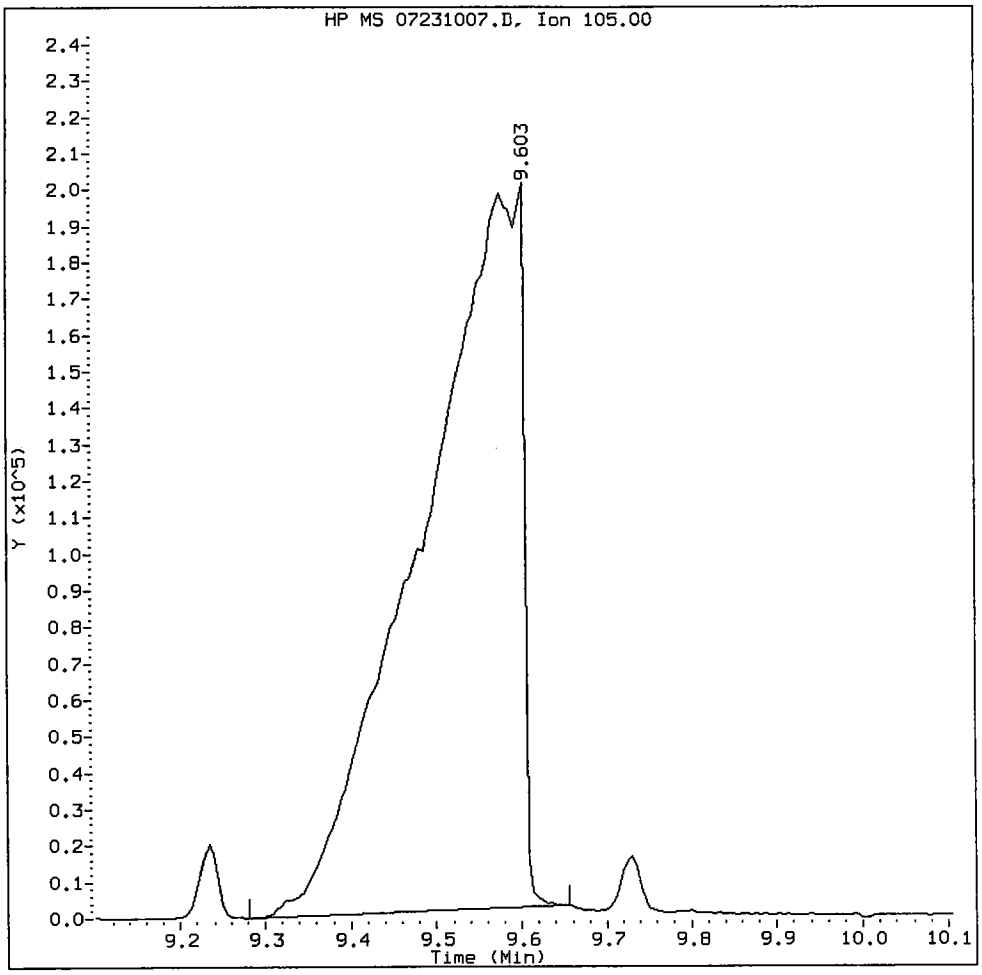


07/26/10

RG78 : 00654

IC800723, /chem1/nt6.i/20100723.b/07231007.D

Benzoic acid Amount: 173.97 Area: 1615248



MANUAL INTEGRATION for Benzoic acid

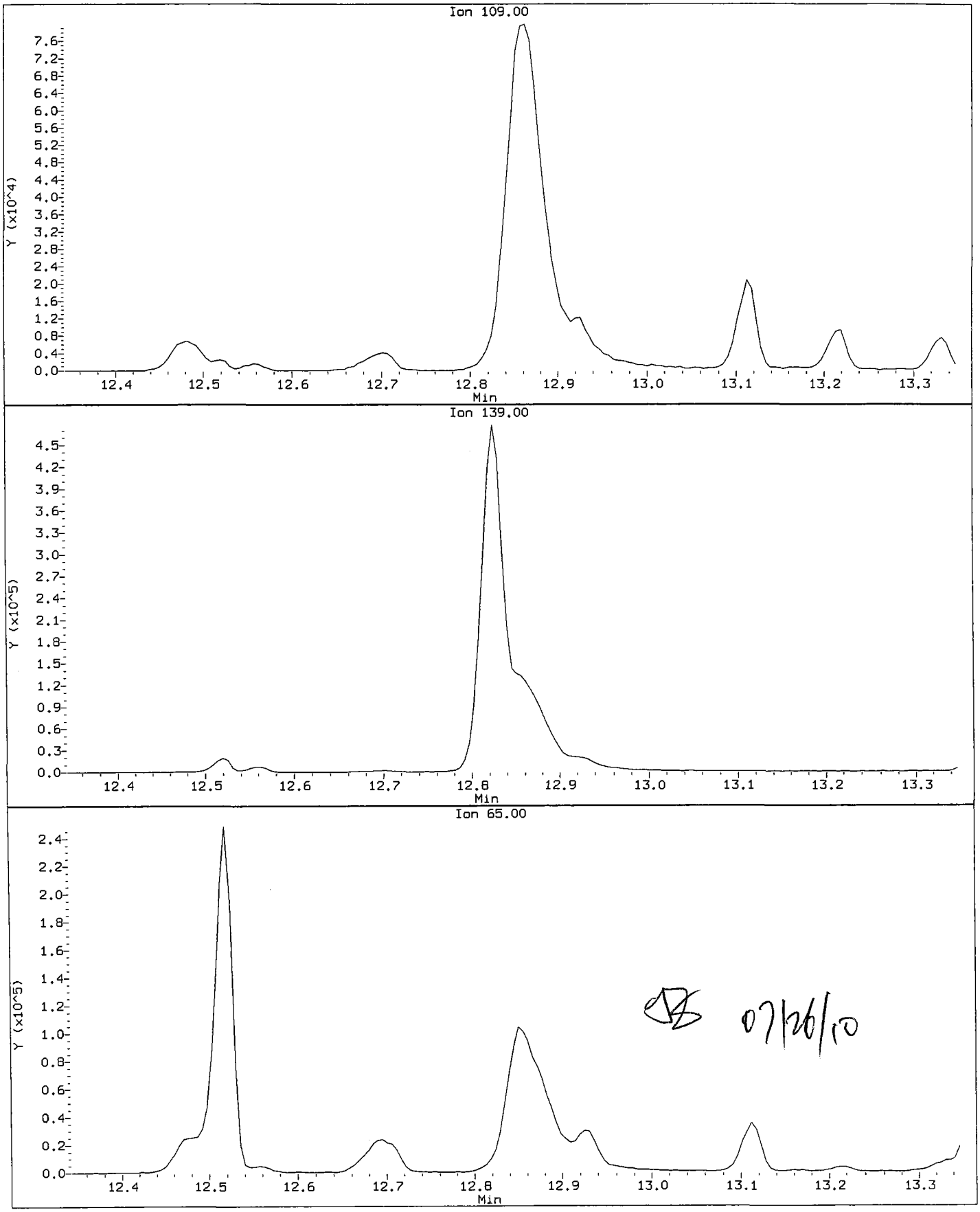
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Data File: /chem1/nt6.i/20100723.b/07231007.D
Injection Date: 23-JUL-2010 18:38
Instrument: nt6.i
Client Sample ID: IC800723

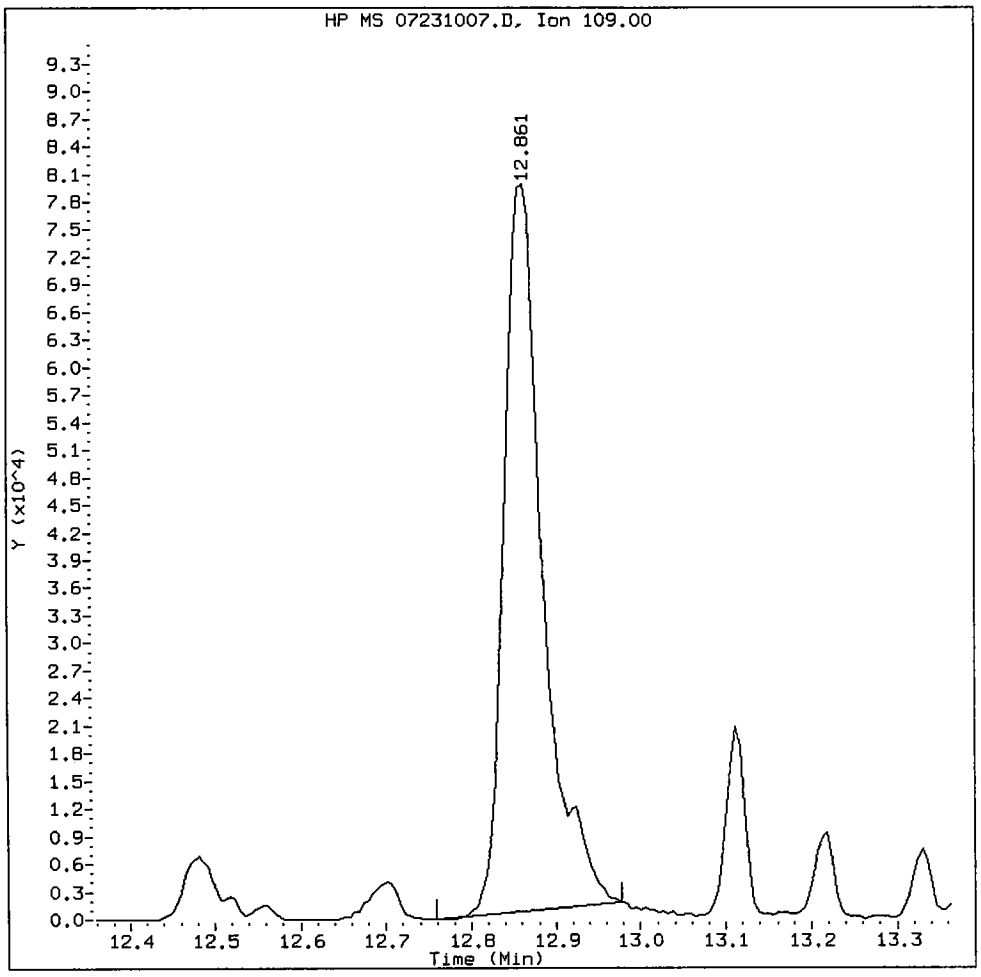
Compound: 4-Nitrophenol
CAS Number: 100-02-7



RG78 : 00656

IC800723, /chem1/nt6.i/20100723.b/07231007.D

4-Nitrophenol Amount: 80.02 Area: 250336



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231008.D
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Inj Date : 23-JUL-2010 20:17
Operator : JZ Inst ID: nt6.i
Smp Info : ICV0723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:35 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/26/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	5.602	5.610	(0.738)	302142	25.7548	25.75(R)
$	2 Phenol-d5	99	7.204	7.218	(0.949)	335463	24.7563	24.76(R)
	3 Phenol	94	7.226	7.237	(0.952)	339785	22.5779	22.58
$	5 2-Chlorophenol-d4	132	7.295	7.303	(0.961)	281753	24.6175	24.62(R)
	4 Bis(2-Chloroethyl)ether	93	7.279	7.290	(0.959)	304187	26.3668	26.37
	6 2-Chlorophenol	128	7.316	7.327	(0.964)	291054	22.3679	22.37
	7 1,3-Dichlorobenzene	146	7.525	7.530	(0.992)	378563	24.9751	24.98
*	8 1,4-Dichlorobenzene-d4	152	7.589	7.595	(1.000)	176582	20.0000	
	9 1,4-Dichlorobenzene	146	7.616	7.621	(1.004)	373980	25.1845	25.18
$	10 1,2-Dichlorobenzene-d4	152	7.888	7.896	(1.039)	197842	24.9146	24.91(R)
	12 1,2-Dichlorobenzene	146	7.909	7.915	(1.042)	346390	25.0849	25.08
	11 Benzyl alcohol	108	7.899	7.910	(1.041)	205971	28.9097	28.91
	14 2,2'-oxybis(1-Chloropropane)	45	8.155	8.161	(1.075)	320212	26.0298	26.03
	13 2-Methylphenol	108	8.155	8.166	(1.075)	260466	23.2089	23.21
	17 Hexachloroethane	117	8.401	8.406	(1.107)	138110	25.7462	25.75
	16 N-Nitroso-di-n-propylamine	70	8.374	8.390	(1.103)	210206	26.9423	26.94
	15 4-Methylphenol	108	8.390	8.406	(1.106)	259863	23.4548	23.45
$	18 Nitrobenzene-d5	82	8.534	8.542	(0.885)	274740	24.2876	24.29(R)
	19 Nitrobenzene	77	8.561	8.572	(0.888)	317981	25.3562	25.36
	20 Isophorone	82	8.945	8.967	(0.927)	556067	27.8428	27.84
	21 2-Nitrophenol	139	9.079	9.090	(0.941)	165718	22.5221	22.52
	22 2,4-Dimethylphenol	107	9.223	9.234	(0.956)	266385	22.0023	22.00
	23 Bis(2-Chloroethoxy)methane	93	9.362	9.373	(0.971)	346047	25.0051	25.01
	24 Benzoic acid	105	9.458	9.603	(0.981)	411600	45.9898	45.99
	25 2,4-Dichlorophenol	162	9.474	9.485	(0.982)	229314	21.6315	21.63
	26 1,2,4-Trichlorobenzene	180	9.592	9.597	(0.994)	290055	25.0468	25.05
*	27 Naphthalene-d8	136	9.645	9.651	(1.000)	582262	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	28 Naphthalene	128	9.672	9.683	(1.003)	855843	26.0064	26.01
	29 4-Chloroaniline	127	9.837	9.843	(1.020)	369626	28.0380	28.04
	30 Hexachlorobutadiene	225	10.003	10.009	(1.037)	170071	25.1822	25.18
	31 4-Chloro-3-methylphenol	107	10.671	10.682	(1.106)	226211	22.1338	22.13
	32 2-Methylnaphthalene	141	10.799	10.805	(1.120)	485070	26.8581	26.86
	33 Hexachlorocyclopentadiene	237	11.178	11.184	(0.894)	155013	23.0155	23.02
	34 2,4,6-Trichlorophenol	196	11.322	11.333	(0.906)	163848	22.0919	22.09
	35 2,4,5-Trichlorophenol	196	11.381	11.392	(0.911)	172363	22.5234	22.52
$	36 2-Fluorobiphenyl	172	11.450	11.453	(0.916)	546411	24.0943	24.09(R)
	37 2-Chloronaphthalene	162	11.573	11.579	(0.926)	532254	24.7189	24.72
	38 2-Nitroaniline	65	11.824	11.835	(0.946)	149026	27.8009	27.80
	39 Dimethylphthalate	163	12.204	12.220	(0.976)	629083	25.8720	25.87
	40 Acenaphthylene	152	12.246	12.252	(0.980)	848021	25.4360	25.44
	41 2,6-Dinitrotoluene	165	12.294	12.305	(0.984)	145173	25.1272	25.13
*	42 Acenaphthene-d10	164	12.497	12.503	(1.000)	323945	20.0000	
	43 3-Nitroaniline	138	12.503	12.519	(1.000)	149842	29.6424	29.64
	44 Acenaphthene	153	12.551	12.562	(1.004)	536105	25.7493	25.75
	45 2,4-Dinitrophenol	184	12.668	12.690	(1.014)	201042	42.3460	42.35
	46 Dibenzofuran	168	12.812	12.823	(1.025)	752607	27.2141	27.21
	47 4-Nitrophenol	109	12.839	12.861	(1.027)	71518	23.8006	23.80
	48 2,4-Dinitrotoluene	165	12.914	12.930	(1.033)	194901	26.1903	26.19
	50 Diethylphthalate	149	13.357	13.368	(1.069)	572287	25.3218	25.32
	49 Fluorene	166	13.368	13.379	(1.070)	602733	25.5811	25.58
	51 4-Chlorophenyl-phenylether	204	13.405	13.411	(1.073)	292139	25.0726	25.07
	52 4-Nitroaniline	138	13.496	13.523	(1.080)	152959	27.1798	27.18
	53 4,6-Dinitro-2-methylphenol	198	13.566	13.593	(0.913)	223359	43.6280	43.63
	54 N-Nitrosodiphenylamine	169	13.614	13.630	(0.916)	427806	24.1637	24.16
$	55 2,4,6-Tribromophenol	330	13.790	13.798	(1.103)	75610	25.6162	25.62(R)
	56 4-Bromophenyl-phenylether	248	14.180	14.185	(0.954)	191744	25.2907	25.29
	57 Hexachlorobenzene	284	14.388	14.399	(0.968)	200104	25.0540	25.05
	58 Pentachlorophenol	266	14.692	14.704	(0.988)	106284	22.5154	22.52
*	59 Phenanthrene-d10	188	14.863	14.869	(1.000)	516976	20.0000	
	60 Phenanthrene	178	14.901	14.912	(1.002)	817896	25.4699	25.47
	61 Anthracene	178	14.970	14.987	(1.007)	843835	25.4372	25.44
	62 Carbazole	167	15.269	15.280	(1.027)	757904	24.6171	24.62
	63 Di-n-butylphthalate	149	16.006	16.012	(1.077)	984901	26.1018	26.10
	64 Fluoranthene	202	16.829	16.835	(1.132)	924404	26.5666	26.57
	65 Pyrene	202	17.176	17.187	(0.896)	895541	27.3311	27.33
$	66 Terphenyl-d14	244	17.513	17.515	(0.914)	502221	26.0581	26.06(R)
	67 Butylbenzylphthalate	149	18.410	18.421	(0.961)	445853	28.1439	28.14
	68 Benzo(a)anthracene	228	19.136	19.147	(0.999)	853493	27.1378	27.14
*	69 Chrysene-d12	240	19.163	19.169	(1.000)	544051	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.163	19.174	(1.000)	296160	29.0191	29.02
	71 Chrysene	228	19.200	19.217	(1.002)	787876	26.7633	26.76
	72 bis(2-Ethylhexyl)phthalate	149	19.414	19.420	(0.954)	606626	26.1539	26.15
*	134 Di-n-octylphthalate-d4	153	20.349	20.354	(1.000)	731609	20.0000	
	73 Di-n-octylphthalate	149	20.359	20.360	(1.001)	983437	24.7985	24.80

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
74	Benzo(b)fluoranthene	252	20.787	20.803	(0.976)	939291	26.8309	26.83
75	Benzo(k)fluoranthene	252	20.819	20.840	(0.977)	899448	24.8923	24.89
187	Total Benzofluoranthenes	252	20.819	20.840	(0.977)	1738917	51.6417	51.64
76	Benzo(a)pyrene	252	21.225	21.246	(0.996)	801751	24.3128	24.31
* 77	Perylene-d12	264	21.305	21.316	(1.000)	522945	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.699	22.720	(1.065)	1164841	26.4045	26.40
79	Dibenzo(a,h)anthracene	278	22.725	22.747	(1.067)	891426	26.2958	26.30
80	Benzo(g,h,i)perylene	276	23.057	23.089	(1.082)	1016920	25.5542	25.55
90	N-Nitrosodimethylamine	74	2.718	2.750	(0.358)	203152	26.6890	26.69
103	Pyridine	79	2.686	2.702	(0.354)	386661	28.4162	28.42
91	Aniline	93	7.151	7.157	(0.942)	509239	29.5450	29.55
105	1-methylnaphthalene	141	10.964	10.975	(1.137)	465323	24.9433	24.94
93	Benzidine	184	17.101	17.107	(0.892)	330482	31.5959	31.60
111	Azobenzene (1,2-DP-Hydrazine)	77	13.651	13.667	(1.092)	566528	24.7167	24.72
143	1,4-Dioxane	88	2.146	2.168	(0.283)	134807	26.7477	26.75
$ 137	d8-1,4-Dioxane	96	2.104	2.125	(0.277)	124707	24.9828	24.98(R)
144	alpha-Terpineol	59	9.720	9.731	(1.008)	173894	24.8865	24.89
98	Retene	219	17.753	17.759	(0.926)	302825	26.6747	26.67
133	Butylatedhydroxytoluene	205	12.700	12.706	(1.016)	453731	24.8832	24.88
115	Tributyl Phosphate	99	13.736	13.763	(0.924)	694262	25.3816	25.38
116	Dibutyl Phenyl Phosphate	175	15.451	15.457	(1.040)	487084	25.8710	25.87
117	Butyl Diphenyl Phosphate	94	17.128	17.134	(0.894)	158542	26.6745	26.67
118	Triphenyl Phosphate	326	18.720	18.731	(0.977)	159074	26.7635	26.76
123	Acetophenone	105	8.299	8.316	(1.094)	420299	27.5683	27.57
179	n-Decane	57	7.445	7.450	(0.981)	271295	27.2026	27.20
180	n-Octadecane	57	14.826	14.832	(0.997)	288829	28.4370	28.44
168	Pentachlorobenzene	250	12.855	12.866	(1.029)	231893	25.9903	25.99
113	Diphenyl Oxide	170	11.776	11.782	(0.942)	374237	17.9170	17.92
112	Biphenyl	154	11.579	11.590	(0.926)	642598	27.7286	27.73
120	2,3,4,6-Tetrachlorophenol	232	13.106	13.112	(1.049)	176844	25.8264	25.83
151	1,2,4,5-Tetrachlorobenzene	216	11.135	11.141	(0.891)	282106	24.4037	24.40
110	Tetrachloroguaiacol	247	14.826	14.842	(0.997)	201384	50.5278	50.53
109	3,4,5-Trichloroguaiacol	213	13.208	13.219	(0.889)	99787	24.6313	24.63
181	3,4,6-Trichloroguaiacol	211	13.320	13.331	(1.755)	118646	25.3490	25.35
108	4,5,6-Trichloroguaiacol	213	14.238	14.250	(1.139)	102183	25.1219	25.12
184	3,4-Dichloroguaiacol	192	11.669	11.675	(1.538)	104314	25.3919	25.39
107	4,5-Dichloroguaiacol	192	12.465	12.476	(0.997)	254884	49.8970	49.90
182	4,6-Dichloroguaiacol	192	12.465	12.476	(1.643)	254884	51.1860	51.19
185	4-Chloroguaiacol	115	10.591	10.596	(1.396)	65963	12.8795	12.88
186	Carbaryl	144	15.686	15.702	(1.055)	383589	26.2646	26.26
106	Guaiacol	124	8.577	8.588	(1.130)	271343	25.4590	25.46

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231008.D
Lab Smp Id: ICV0723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: ICV0723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	176582	-3.39
27 Naphthalene-d8	584137	292068	1168274	582262	-0.32
42 Acenaphthene-d10	320442	160221	640884	323945	1.09
59 Phenanthrene-d10	503793	251896	1007586	516976	2.62
69 Chrysene-d12	532343	266172	1064686	544051	2.20
134 Di-n-octylphthala	719428	359714	1438856	731609	1.69
77 Perylene-d12	517269	258634	1034538	522945	1.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	-0.04
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.02
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.02
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	0.01
69 Chrysene-d12	19.16	18.66	19.66	19.16	0.01
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.01
77 Perylene-d12	21.31	20.81	21.81	21.30	-0.01

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ICV0723
Level:
Data Type: MS DATA
SpikeList File: ICVS.spk
Sublist File: ICAL.sub
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Client SDG: 20100723
Fraction: SV
Client Smp ID: ICV0723
Operator: JZ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	22.58	90.31	
4 Bis(2-Chloroethyl)	25.00	26.37	105.47	
6 2-Chlorophenol	25.00	22.37	89.47	
7 1,3-Dichlorobenzen	25.00	24.98	99.90	
9 1,4-Dichlorobenzen	25.00	25.18	100.74	
11 Benzyl alcohol	25.00	28.91	115.64	
12 1,2-Dichlorobenzen	25.00	25.08	100.34	
13 2-Methylphenol	25.00	23.21	92.84	
14 2,2'-oxybis(1-Chlo	25.00	26.03	104.12	
15 4-Methylphenol	25.00	23.45	93.82	
16 N-Nitroso-di-n-pro	25.00	26.94	107.77	
17 Hexachloroethane	25.00	25.75	102.98	
19 Nitrobenzene	25.00	25.36	101.42	
20 Isophorone	25.00	27.84	111.37	
21 2-Nitrophenol	25.00	22.52	90.09	
22 2,4-Dimethylphenol	25.00	22.00	88.01	
23 Bis(2-Chloroethoxy	25.00	25.01	100.02	
24 Benzoic acid	50.00	45.99	91.98	
25 2,4-Dichlorophenol	25.00	21.63	86.53	
26 1,2,4-Trichloroben	25.00	25.05	100.19	
28 Naphthalene	25.00	26.01	104.03	
29 4-Chloroaniline	25.00	28.04	112.15	
30 Hexachlorobutadien	25.00	25.18	100.73	
31 4-Chloro-3-methylp	25.00	22.13	88.54	
32 2-Methylnaphthalen	25.00	26.86	107.43	
33 Hexachlorocyclopen	25.00	23.02	92.06	
34 2,4,6-Trichlorophe	25.00	22.09	88.37	
35 2,4,5-Trichlorophe	25.00	22.52	90.09	
37 2-Chloronaphthalen	25.00	24.72	98.88	
38 2-Nitroaniline	25.00	27.80	111.20	
39 Dimethylphthalate	25.00	25.87	103.49	
40 Acenaphthylene	25.00	25.44	101.74	
41 2,6-Dinitrotoluene	25.00	25.13	100.51	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	29.64	118.57	
44	Acenaphthene	25.00	25.75	103.00	
45	2,4-Dinitrophenol	50.00	42.35	84.69	
46	Dibenzofuran	25.00	27.21	108.86	
47	4-Nitrophenol	25.00	23.80	95.20	
48	2,4-Dinitrotoluene	25.00	26.19	104.76	
49	Fluorene	25.00	25.58	102.32	
50	Diethylphthalate	25.00	25.32	101.29	
51	4-Chlorophenyl-phe	25.00	25.07	100.29	
52	4-Nitroaniline	25.00	27.18	108.72	
53	4,6-Dinitro-2-meth	50.00	43.63	87.26	
54	N-Nitrosodiphenyla	25.00	24.16	96.65	
56	4-Bromophenyl-phen	25.00	25.29	101.16	
57	Hexachlorobenzene	25.00	25.05	100.22	
58	Pentachlorophenol	25.00	22.52	90.06	
60	Phenanthrene	25.00	25.47	101.88	
61	Anthracene	25.00	25.44	101.75	
62	Carbazole	25.00	24.62	98.47	
63	Di-n-butylphthalat	25.00	26.10	104.41	
64	Fluoranthene	25.00	26.57	106.27	
65	Pyrene	25.00	27.33	109.32	
67	Butylbenzylphthala	25.00	28.14	112.58	
68	Benzo(a)anthracene	25.00	27.14	108.55	
70	3,3'-Dichlorobenzi	25.00	29.02	116.08	
71	Chrysene	25.00	26.76	107.05	
72	bis(2-Ethylhexyl)p	25.00	26.15	104.62	
73	Di-n-octylphthalat	25.00	24.80	99.19	
74	Benzo(b)fluoranthe	25.00	26.83	107.32	
75	Benzo(k)fluoranthe	25.00	24.89	99.57	
76	Benzo(a)pyrene	25.00	24.31	97.25	
78	Indeno(1,2,3-cd)py	25.00	26.40	105.62	
79	Dibenzo(a,h)anthra	25.00	26.30	105.18	
80	Benzo(g,h,i)peryle	25.00	25.55	102.22	
90	N-Nitrosodimethyla	25.00	26.69	106.76	
91	Aniline	25.00	29.55	118.18	
93	Benzidine	25.00	31.60	126.38	
103	Pyridine	25.00	28.42	113.66	
105	1-methylnaphthalen	25.00	24.94	99.77	
120	2,3,4,6-Tetrachlor	25.00	25.83	103.31	
151	1,2,4,5-Tetrachlor	25.00	24.40	97.61	
143	1,4-Dioxane	25.00	26.75	106.99	
110	Tetrachloroguaiaco	50.00	50.53	101.06	
109	3,4,5-Trichlorogua	25.00	24.63	98.53	
181	3,4,6-Trichlorogua	25.00	25.35	101.40	
108	4,5,6-Trichlorogua	25.00	25.12	100.49	
184	3,4-Dichloroguaiac	25.00	25.39	101.57	
107	4,5-Dichloroguaiac	50.00	49.90	99.79	

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
182 4,6-Dichloroguaiac	50.00	51.19	102.37	
185 4-Chloroguaiacol	12.50	12.88	103.04	
106 Guaiacol	25.00	25.46	101.84	

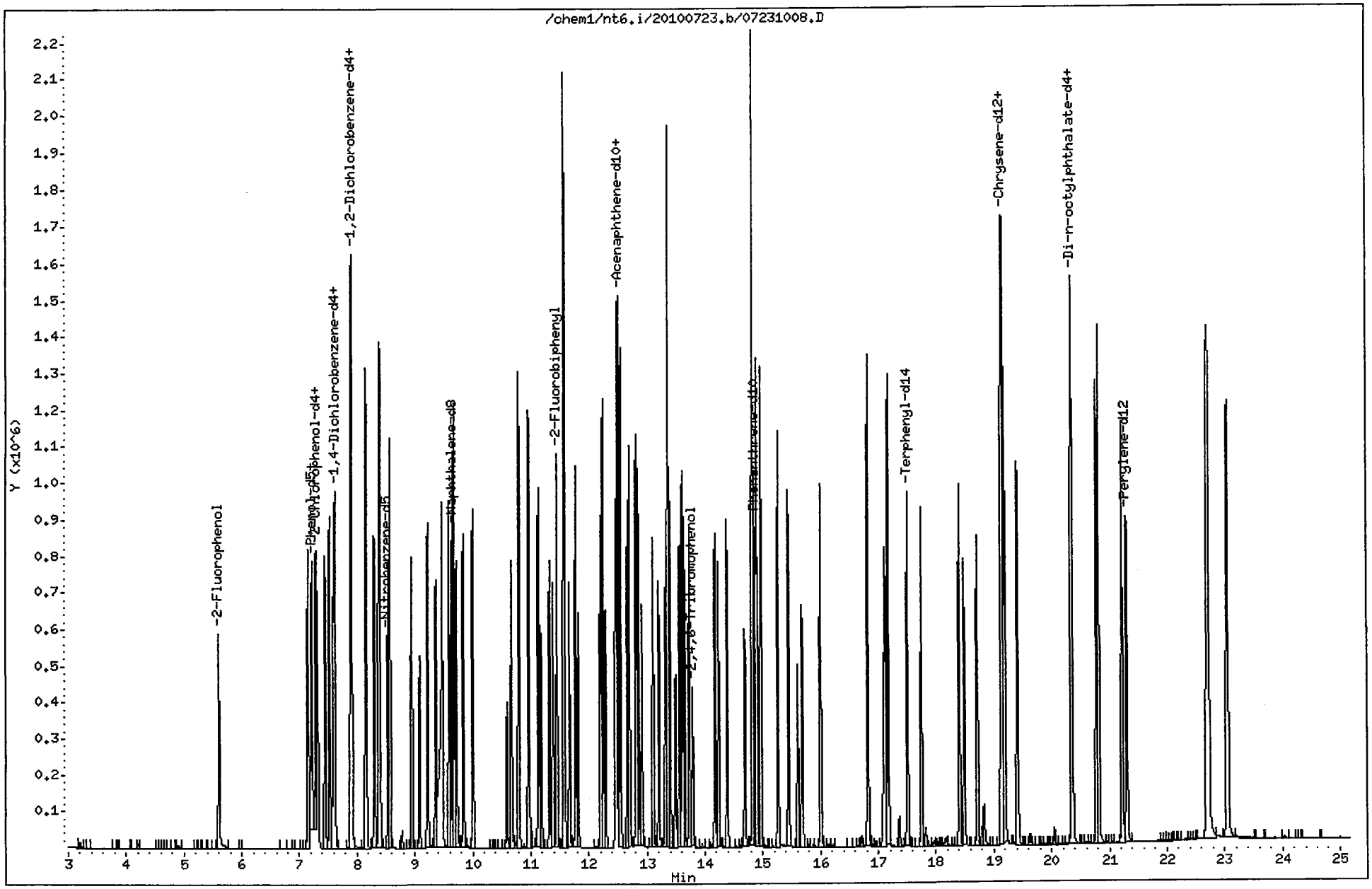
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.75	103.02	
$ 2 Phenol-d5	25.00	24.76	99.03	
$ 5 2-Chlorophenol-d4	25.00	24.62	98.47	
$ 10 1,2-Dichlorobenzen	25.00	24.91	99.66	
$ 18 Nitrobenzene-d5	25.00	24.29	97.15	
$ 36 2-Fluorobiphenyl	25.00	24.09	96.38	
$ 55 2,4,6-Tribromophen	25.00	25.62	102.46	
$ 66 Terphenyl-d14	25.00	26.06	104.23	
$ 137 d8-1,4-Dioxane	25.00	24.98	99.93	

Data File: /chem1/nt6.i/20100723.b/07231008.D
Date : 23-JUL-2010 20:17
Client ID: ICV0723
Sample Info: ICV0723,

Instrument: nt6.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: GWAM Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 7/19/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO / NA
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	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: _____ **Date:** 07/21/10

Reviewer: _____ **Date:** 7/22/10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt4.i/20100719.b/07191002.d
Level 2: /chem3/nt4.i/20100719.b/07191003.d
Level 3: /chem3/nt4.i/20100719.b/07191004.d
Level 4: /chem3/nt4.i/20100719.b/07191001.d
Level 5: /chem3/nt4.i/20100719.b/07191005.d
Level 6: /chem3/nt4.i/20100719.b/07191006.d
Level 7: /chem3/nt4.i/20100719.b/07191007.d

JB 07/20/10

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 n-Decane	0.92180	0.82264	0.83087	0.80562	0.77461	0.72218	0.72634	0.80058	8.602
180 n-Octadecane	0.30254	0.30439	0.30088	0.27733	0.26049	0.23560	0.24283	0.27487	10.602
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Pentachlorobenzene	0.48861	0.40393	0.42050	0.40899	0.40317	0.38693	0.40461	0.41668	7.974
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
133 Butylatedhydroxytoluene	1.19720	1.04095	0.99330	0.97685	0.89378	0.77988		
	0.78639						0.95262	15.499
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Analytical Resources, Inc.

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Start Cal Date : 19-JUL-2010 16:18
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 alpha-Terpineol	0.20333	0.18267	0.17306	0.16830	0.15310	0.14414	0.14638	0.16728	12.784
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Acetophenone	0.47112	0.43077	0.44900	0.41885	0.42391	0.38242	0.39668	0.42468	7.057
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 1,4-Dioxane	0.42414	0.38659	0.38470	0.38545	0.38216	0.36299	0.37185	0.38541	4.967
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2,3,4,6-Tetrachlorophenol	0.25519	0.28418	0.30668	0.32679	0.31590	0.31226	0.32321	0.30346	8.378

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Curve Type : Average

Compound	1.000 Level 1 / 80.000 Level 7	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
178 2-Benzyl-4-Chlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Triphenyl Phosphate	0.21448 / 0.20200	0.19694	0.20258	0.20992	0.19726	0.19550	0.20267	3.524
117 Butyl Diphenyl Phosphate	0.20655 / 0.20303	0.19943	0.20154	0.21935	0.20468	0.19710	0.20453	3.550
116 Dibutyl Phenyl Phosphate	0.63142 / 0.58599	0.63922	0.64164	0.65657	0.62011	0.59024	0.62360	4.271
115 Tributyl Phosphate	0.82256 / 0.67146	0.81058	0.82385	0.77329	0.73758	0.67365	0.75899	8.759
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Diphenyl Oxide	1.27946 / 0.97094	1.14210	1.08994	1.06974	1.02840	0.95213	1.07610	10.365
112 Biphenyl	1.45512 / 1.07159	1.34252	1.29488	1.25164	1.18585	1.05874	1.23719	11.621

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
111 Azobenzene (1,2-DP-Hydrazine)	1.14006	1.05422	1.06029	0.98330	0.93779	0.85870	0.88505	0.98849	10.333
110 Tetrachloroguaiacol	0.11596	0.11133	0.11890	0.12191	0.11926	0.11335	0.11589	0.11666	3.126
109 3,4,5-Trichloroguaiacol	0.11049	0.11016	0.12312	0.12448	0.12647	0.12285	0.12207	0.11995	5.607
181 3,4,6-Trichloroguaiacol	0.12878	0.13256	0.14742	0.14807	0.14839	0.14105	0.14100	0.14104	5.542
108 4,5,6-Trichloroguaiacol	0.11309	0.11565	0.12736	0.12953	0.13025	0.12878	0.13208	0.12525	6.072
184 3,4-Dichloroguaiacol	0.18718	0.19558	0.20120	0.21429	0.21460	0.21416	0.22213	0.20702	6.072
107 4,5-Dichloroguaiacol	0.24994	0.26319	0.28360	0.28782	0.31885	0.31206	0.32256	0.29115	9.653
182 4,6-Dichloroguaiacol	0.26639	0.25087	0.25423	0.27031	0.24545	0.25236	0.25904	0.25695	3.442
185 4-Chloroguaiacol	0.52855	0.55087	0.58184	0.65330	0.62945	0.63641	0.65684	0.60532	8.508

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
106 Guaiacol	1.15403	1.10226	1.04007	1.07495	1.03019	1.00527	1.05597	1.06610	4.672
105 1-methylnaphthalene	0.73856	0.63642	0.64470	0.63475	0.63080	0.56290	0.57420	0.63176	9.061
151 1,2,4,5-Tetrachlorobenzene	0.60742	0.54668	0.51019	0.52365	0.49918	0.49132	0.50330	0.52596	7.664
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Phenol	1.52327	1.49036	1.44408	1.42057	1.27348	1.24736	1.25719	1.37947	8.499
4 Bis(2-Chloroethyl)ether	1.15389	1.05315	1.02928	1.02414	1.00496	0.95372	0.98212	1.02875	6.230
6 2-Chlorophenol	1.37703	1.36240	1.36527	1.36485	1.23335	1.24332	1.24328	1.31278	5.206
7 1,3-Dichlorobenzene	1.70982	1.50199	1.50118	1.48198	1.44634	1.37413	1.42568	1.49159	7.143
9 1,4-Dichlorobenzene	1.69819	1.51370	1.53118	1.50592	1.47489	1.38965	1.43221	1.50653	6.502
11 Benzyl alcohol	+++++	0.91223	0.79662	0.78505	0.73616	0.72469	0.73582	0.78176	8.991
12 1,2-Dichlorobenzene	1.58084	1.43971	1.41297	1.38858	1.37137	1.28892	1.33936	1.40311	6.593
13 2-Methylphenol	1.00242	1.11049	1.11324	1.09858	1.00909	1.01582	1.02716	1.05383	4.830

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
14 2,2'-oxybis(1-Chloropropane)	1.13408	1.01956	0.99179	0.96247	0.92361	0.85484		
	0.88281						0.96702	9.707
15 4-Methylphenol	1.07650	1.16260	1.11867	1.13237	1.04810	1.05052		
	1.06807						1.09383	4.048
16 N-Nitroso-di-n-propylamine	0.78726	0.74703	0.72321	0.71449	0.70269	0.67015		
	0.70434						0.72131	5.160
17 Hexachloroethane	0.59135	0.55760	0.55641	0.56043	0.55416	0.53089		
	0.55511						0.55799	3.172
19 Nitrobenzene	0.34489	0.32224	0.32158	0.30263	0.30059	0.27111		
	0.28230						0.30648	8.251
20 Isophorone	0.57278	0.51716	0.52559	0.50326	0.49812	0.45867		
	0.48724						0.50898	6.978
21 2-Nitrophenol	0.16195	0.18553	0.20346	0.20681	0.19423	0.19296		
	0.19540						0.19148	7.720
22 2,4-Dimethylphenol	0.34079	0.36339	0.36901	0.35409	0.32771	0.31174		
	0.31961						0.34090	6.502
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829		
	0.33302						0.35475	7.699

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
24 Benzoic acid	+++++	0.15013	0.22239	0.26771	0.26141	0.27115	0.28027	0.24218	20.377	<-
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644	0.29424	0.29949	8.019	
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123	0.31968	0.33353	5.349	
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689	0.79230	0.94898	14.906	
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529	0.34011	0.37840	6.924	
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448	0.17979	0.18923	7.318	
31 4-Chloro-3-methylphenol	0.20393	0.27117	0.29842	0.30937	0.28574	0.27836	0.27550	0.27464	12.366	
32 2-Methylnaphthalene	0.74630	0.66270	0.66341	0.64960	0.63860	0.57380	0.58003	0.64492	9.012	
33 Hexachlorocyclopentadiene	0.19670	0.24178	0.28639	0.31893	0.32950	0.33112	0.34400	0.29263	18.716	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
34 2,4,6-Trichlorophenol	0.30819	0.35802	0.37214	0.38430	0.36043	0.36626	0.37085	0.36003	6.787
35 2,4,5-Trichlorophenol	0.24826	0.35083	0.38002	0.41048	0.38587	0.39121	0.39911	0.36654	15.105
37 2-Chloronaphthalene	1.24508	1.12343	1.11327	1.10426	1.06169	0.96578	1.00077	1.08775	8.398
38 2-Nitroaniline	0.14117	0.18570	0.22375	0.23754	0.22985	0.22602	0.22604	0.21001	16.476
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414	1.19011	1.27768	7.480
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771	1.40886	1.64077	12.334
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576	0.30088	0.28751	7.563
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809	0.20565	0.25351	12.551
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431	0.98045	1.06825	9.248

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD	
	80.000 Level 7								
45 2,4-Dinitrophenol	+++++	0.03672	0.10442	0.16137	0.17851	0.19947			
	0.20969						0.14836	44.553	<-
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954			
	1.28807						1.42396	9.465	
47 4-Nitrophenol	0.14176	0.14832	0.18103	0.19488	0.19349	0.19799			
	0.19695						0.17920	13.431	
48 2,4-Dinitrotoluene	0.28796	0.35208	0.40205	0.40448	0.40680	0.39051			
	0.40980						0.37910	11.820	
49 Fluorene	1.44497	1.29959	1.31553	1.25982	1.17937	1.05063			
	1.07434						1.23204	11.392	
50 Diethylphthalate	1.57307	1.36806	1.41182	1.31777	1.26768	1.13760			
	1.17582						1.32169	11.204	
51 4-Chlorophenyl-phenylether	0.69474	0.61629	0.61711	0.60255	0.58436	0.52633			
	0.54152						0.59756	9.315	
52 4-Nitroaniline	0.28107	0.27988	0.27202	0.26389	0.27732	0.26889			
	0.27942						0.27464	2.371	
53 4,6-Dinitro-2-methylphenol	+++++	0.08845	0.12548	0.14855	0.14840	0.15739			
	0.15973						0.13800	19.657	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
54 N-Nitrosodiphenylamine	0.59897	0.56644	0.58454	0.56521	0.56824	0.52773	0.53790	0.56415	4.382
56 4-Bromophenyl-phenylether	0.21096	0.20155	0.21106	0.20521	0.20601	0.19314	0.20319	0.20445	3.008
57 Hexachlorobenzene	0.24169	0.20966	0.21365	0.20517	0.20414	0.19121	0.20035	0.20941	7.598
58 Pentachlorophenol	+++++	0.12236	0.13905	0.15024	0.14329	0.14966	0.15151	0.14268	7.744
60 Phenanthrene	1.26953	1.07829	1.08369	1.03854	0.98609	0.89265	0.90371	1.03607	12.407
61 Anthracene	1.26876	1.10675	1.12399	1.07407	1.02212	0.90794	0.91554	1.05988	11.902
62 Carbazole	1.14479	1.01093	0.98838	0.94710	0.92667	0.85605	0.86786	0.96311	10.213
63 Di-n-butylphthalate	1.39044	1.32866	1.35805	1.29164	1.18853	1.02048	1.01833	1.22802	12.705
64 Fluoranthene	1.23295	1.10063	1.14509	1.10131	1.07018	0.93571	0.92842	1.07347	10.212

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
65 Pyrene	1.54895	1.32386	1.30232	1.29301	1.19639	1.08660	1.12621	1.26819	12.130
67 Butylbenzylphthalate	0.63232	0.62704	0.69192	0.67226	0.65120	0.60529	0.62513	0.64359	4.672
68 Benzo(a)anthracene	1.39978	1.20719	1.24065	1.17611	1.11630	1.01634	1.05028	1.17238	11.012
70 3,3'-Dichlorobenzidine	0.36883	0.40238	0.42289	0.39897	0.37590	0.34353	0.34172	0.37917	8.081
71 Chrysene	1.38365	1.19972	1.21395	1.15816	1.07914	0.97665	1.02095	1.14746	11.954
72 bis(2-Ethylhexyl)phthalate	0.53161	0.56815	0.61721	0.58487	0.58969	0.54278	0.54044	0.56782	5.521
73 Di-n-octylphthalate	1.26596	1.05129	1.06355	0.99565	0.93391	0.82830	0.82184	0.99436	15.514
74 Benzo(b)fluoranthene	1.40393	1.29239	1.31290	1.21076	1.20926	1.06436	1.22076	1.24491	8.538
75 Benzo(k)fluoranthene	1.53572	1.29180	1.33244	1.33678	1.21455	1.11293	1.00320	1.26106	13.651

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
187 Total Benzofluoranthenes	1.38210	1.22664	1.24385	1.19904	1.14180	1.02417	1.04387	1.18021	10.477
76 Benzo(a)pyrene	1.23441	1.10443	1.13165	1.12539	1.08511	1.00857	1.04071	1.10432	6.582
78 Indeno(1,2,3-cd)pyrene	1.10926	1.07903	1.19493	1.24464	1.26134	1.17723	1.23424	1.18581	5.856
79 Dibenzo(a,h)anthracene	0.81878	0.86277	0.96765	1.02741	1.03845	0.95450	1.00345	0.95329	8.751
80 Benzo(g,h,i)perylene	0.94422	0.90041	1.05378	1.04646	1.07844	1.01381	1.05822	1.01362	6.558
90 N-Nitrosodimethylamine	0.64783	0.59968	0.56719	0.58049	0.56446	0.53912	0.57962	0.58263	5.869
91 Aniline	1.66497	1.54617	1.49097	1.44064	1.35252	1.27767	1.30611	1.43987	9.674
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.42376	0.43565	0.41475	0.34689	0.33093	0.31136	0.30159	0.36642	15.475

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	0.45889	0.42060	0.41951	0.43772	0.41600	0.40302	0.41927	0.42500	4.249
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	0.90268	0.95399	1.04225	1.06515	1.04732	0.97877	1.04329	1.00478	6.029
$ 1 2-Fluorophenol	1.16448	1.12400	1.01131	1.14250	1.05748	1.03186	1.05437	1.08371	5.470

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
$ 137 d8-1,4-Dioxane	0.43005	0.40873	0.39728	0.39731	0.39810	0.37989	0.39506	0.40092	3.838
$ 2 Phenol-d5	1.09019	1.11643	1.02349	1.12745	1.05098	1.00985	1.04391	1.06604	4.295
$ 5 2-Chlorophenol-d4	1.21573	1.17992	1.08812	1.18777	1.11736	1.08778	1.13033	1.14386	4.448
$ 10 1,2-Dichlorobenzene-d4	0.97264	0.91430	0.80244	0.85219	0.81452	0.79829	0.81850	0.85327	7.758
$ 18 Nitrobenzene-d5	0.32597	0.33013	0.31174	0.31824	0.30824	0.28032	0.29218	0.30955	5.796
$ 36 2-Fluorobiphenyl	1.46388	1.33164	1.17402	1.25846	1.16251	1.07975	1.10556	1.22512	11.123
$ 55 2,4,6-Tribromophenol	0.11310	0.14211	0.14091	0.15595	0.14884	0.14537	0.15489	0.14302	10.084
$ 66 Terphenyl-d14	0.93602	0.81779	0.74164	0.80245	0.72726	0.68592	0.70996	0.77444	11.066
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RG78-66681 19990

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

AZ 07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	80 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829	0.33302	AVRG		0.35475		7.69914
24 Benzoic acid	+++++	76277	295968	865635	1401298	2377813	2519498	LINR	0.000e+00	0.27416		0.99624
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644	0.29424	AVRG		0.29949		8.01880
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123	0.31968	AVRG		0.33353		5.34949
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689	0.79230	AVRG		0.94898		14.90588
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529	0.34011	AVRG		0.37840		6.92405
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448	0.17979	AVRG		0.18923		7.31839

RG78-99695

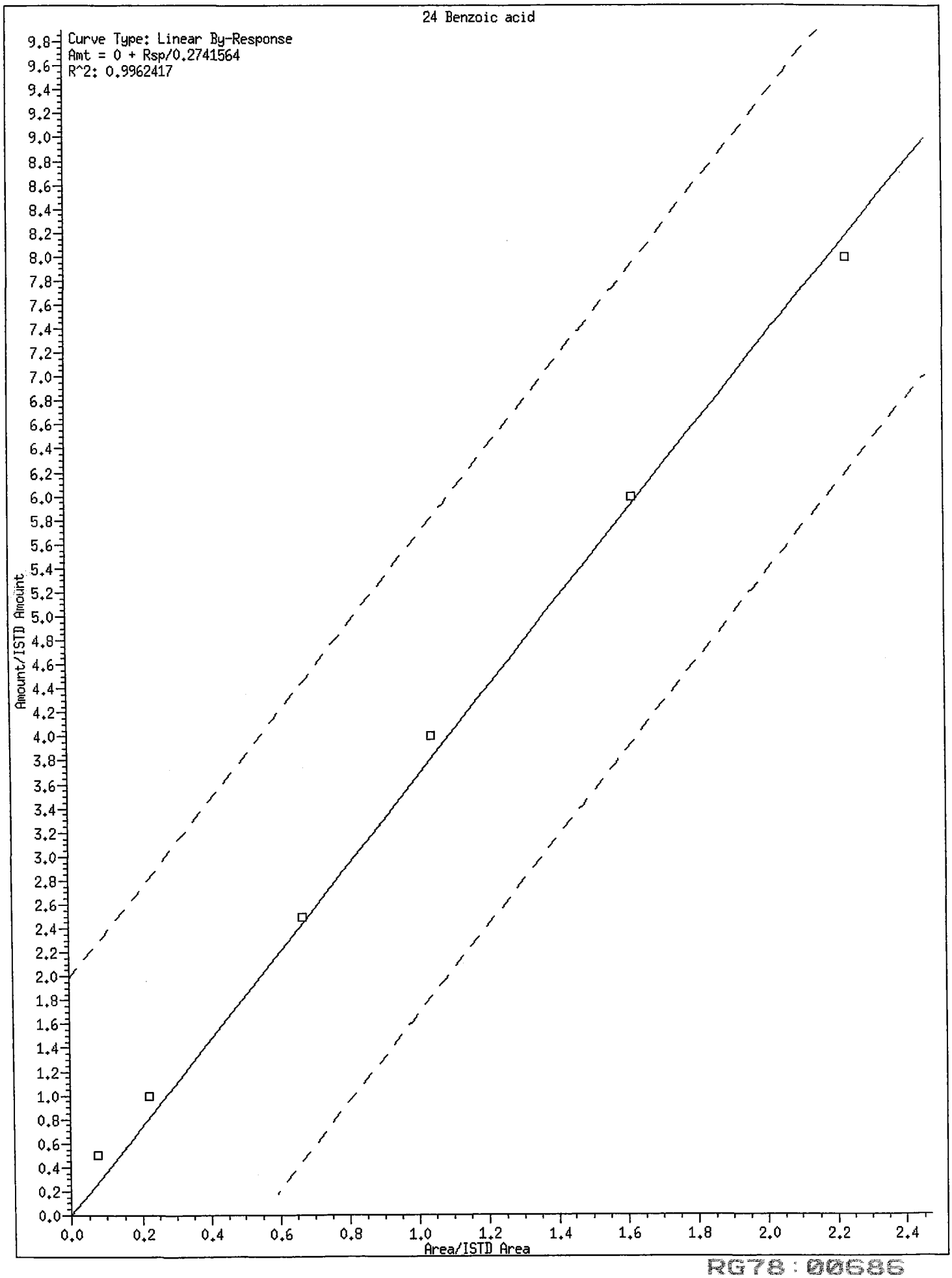
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

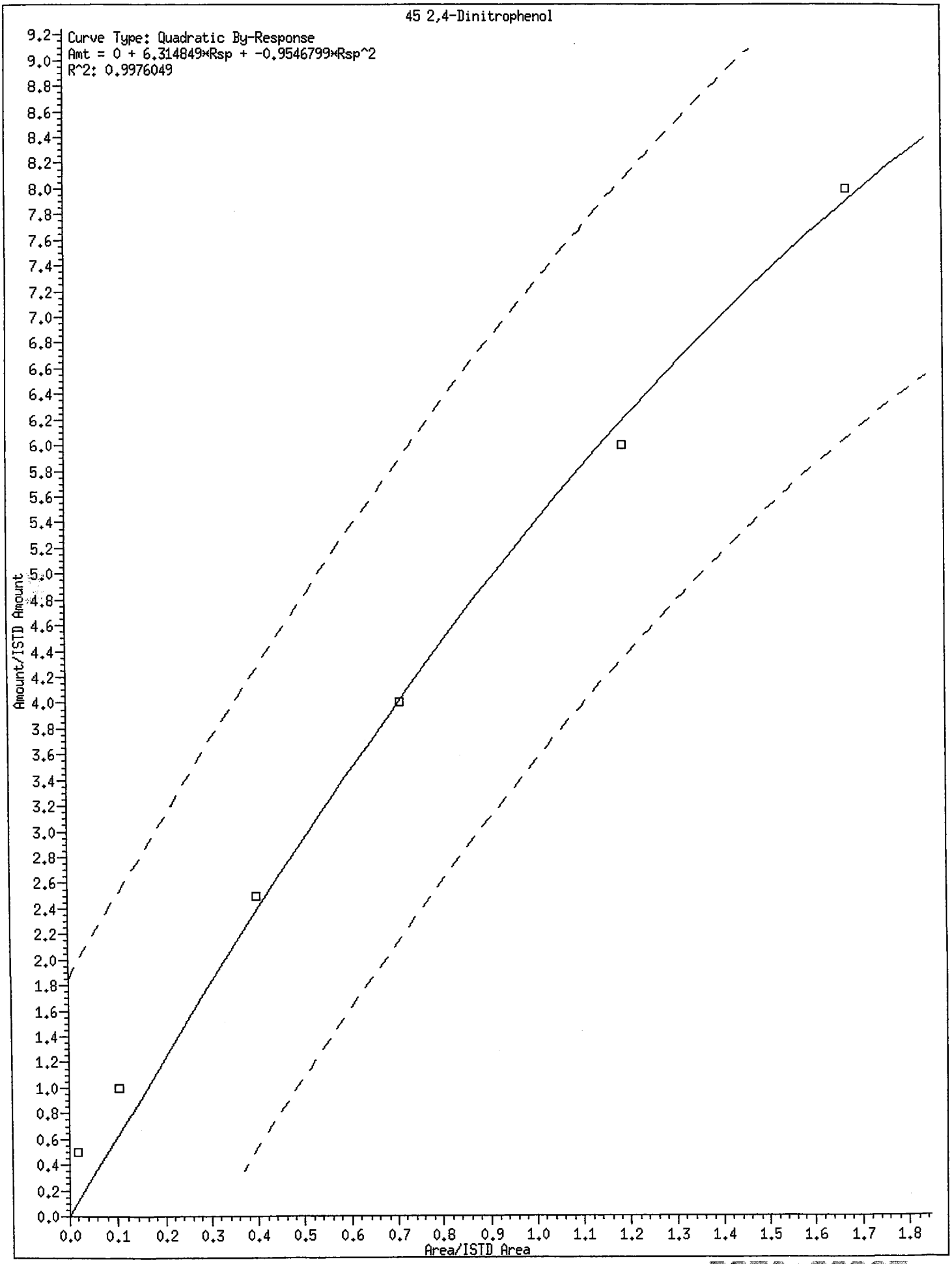
Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	80 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414	1.19011	AVRG		1.27768		7.48035
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771	1.40886	AVRG		1.64077		12.33449
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576	0.30088	AVRG		0.28751		7.56349
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809	0.20565	AVRG		0.25351		12.55145
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431	0.98045	AVRG		1.06825		9.24750
45 2,4-Dinitrophenol	+++++	10990	84130	317048	599293	1050607	1116227	QUAD	0.000e+00	6.31485	-0.95468	0.99760
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954	1.28807	AVRG		1.42396		9.46465


24 Benzoic acid
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.2741564
R^2: 0.9962417
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4

RG78:00686


45 2,4-Dinitrophenol
Curve Type: Quadratic By-Response
Amt = 0 + 6.314849*Rsp + -0.9546799*Rsp^2
R^2: 0.9976049
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8

RG78 : 00687

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

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

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

07/20/10

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	07191001	07191002	07191003	07191004	07191005	07191006	07191007
INJ.DATE:	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010
INJ.TIME:	16:18	16:56	17:33	18:07	18:41	19:14	19:48

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.736	6.727	6.724	6.731	6.738	6.742	6.737	6.736	3.736-9.736	6.734	0.006
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.584	13.584-19.584	+++++	+++++
179 n-Decane	8.498	8.495	8.498	8.500	8.500	8.504	8.505	8.498	5.498-11.498	8.500	0.003
180 n-Octadecane	15.876	15.874	15.876	15.878	15.879	15.882	15.883	15.876	12.876-18.876	15.878	0.003
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.531	15.531-21.531	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.634	13.634-19.634	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	13.863-19.863	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.605	17.605-23.605	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.015	14.015-20.015	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.562	14.562-20.562	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.654	6.654-12.654	+++++	+++++
168 Pentachlorobenzene	13.985	13.976	13.979	13.981	13.987	13.991	13.992	13.985	10.985-16.985	13.984	0.006
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 ______________________ Date: ______________
Reviewer 2 ______________________ Date: 7/22/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
	149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
	150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
	138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
	139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
	140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
	141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
	142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
	135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.269	36.269-42.269	+++++	+++++
	136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$	137 d8-1,4-Dioxane	3.440	3.420	3.417	3.448	3.448	3.452	3.424	3.440	0.440-6.440	3.436	0.015
*	134 Di-n-octylphthalate-d4	21.451	21.449	21.451	21.447	21.453	21.457	21.458	21.451	18.451-24.451	21.452	0.004
	133 Butylatedhydroxytoluen	13.768	13.765	13.767	13.763	13.770	13.773	13.774	13.768	10.768-16.768	13.769	0.004
	132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
	131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
	130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
	129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
	128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
	127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
	126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
	144 alpha-Terpineol	10.783	10.775	10.777	10.773	10.786	10.789	10.790	10.783	7.783-13.783	10.782	0.007
	125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	9.379	9.371	9.373	9.375	9.382	9.391	9.392	9.379	6.379-12.379	9.380	0.008
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	3.511	3.485	3.487	3.512	3.513	3.522	3.494	3.511	0.511-6.511	3.504	0.015
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	14.214	14.211	14.214	14.210	14.216	14.220	14.221	14.214	11.214-17.214	14.215	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.282	9.282-15.282	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	19.859	19.857	19.853	19.855	19.861	19.865	19.866	19.859	16.859-22.859	19.860	0.005
117 Butyl Diphenyl Phospha	18.238	18.235	18.232	18.234	18.240	18.244	18.245	18.238	15.238-21.238	18.238	0.005
116 Dibutyl Phenyl Phospha	16.529	16.526	16.528	16.524	16.531	16.534	16.535	16.529	13.529-19.529	16.530	0.004
115 Tributyl Phosphate	14.778	14.769	14.766	14.768	14.792	14.801	14.802	14.778	11.778-17.778	14.782	0.016
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	12.863	12.860	12.863	12.864	12.865	12.869	12.870	12.863	9.863-15.863	12.865	0.003
112 Biphenyl	12.675	12.672	12.675	12.671	12.677	12.681	12.682	12.675	9.675-15.675	12.676	0.004
111 Azobenzene (1,2-DP-Hyd	14.766	14.758	14.760	14.762	14.774	14.778	14.779	14.766	11.766-17.766	14.768	0.009
110 Tetrachloroguaiacol	15.959	15.950	15.947	15.948	15.961	15.970	15.971	15.959	12.959-18.959	15.958	0.010
109 3,4,5-Trichloroguaiaco	14.308	14.305	14.302	14.304	14.310	14.314	14.315	14.308	11.308-17.308	14.308	0.005
181 3,4,6-Trichloroguaiaco	14.431	14.429	14.425	14.427	14.434	14.437	14.444	14.431	11.431-17.431	14.432	0.006
108 4,5,6-Trichloroguaiaco	15.342	15.339	15.342	15.338	15.344	15.353	15.349	15.342	12.342-18.342	15.344	0.006
184 3,4-Dichloroguaiacol	12.757	12.754	12.751	12.753	12.759	12.763	12.764	12.757	9.757-15.757	12.757	0.005
107 4,5-Dichloroguaiacol	13.539	13.530	13.527	13.528	13.541	13.544	13.545	13.539	10.539-16.538	13.536	0.008
182 4,6-Dichloroguaiacol	13.568	13.559	13.562	13.563	13.570	13.579	13.580	13.568	10.568-16.568	13.569	0.008
185 4-Chloroguaiacol	11.653	11.650	11.653	11.648	11.655	11.658	11.660	11.653	8.653-14.653	11.654	0.004

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	9.638	9.629	9.632	9.633	9.640	9.644	9.645	9.638	6.638-12.638	9.637	0.006
105 1-methylnaphthalene	12.076	12.073	12.070	12.071	12.078	12.081	12.082	12.076	9.076-15.076	12.076	0.005
151 1,2,4,5-Tetrachloroben	12.240	12.237	12.234	12.236	12.242	12.246	12.247	12.240	9.240-15.240	12.240	0.005
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.442	20.442-26.442	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.968	18.968-24.968	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.466	20.466-26.466	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.866	19.866-25.866	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.413	20.413-26.413	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.952	21.952-27.952	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.721	18.721-24.721	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.159	15.159-21.159	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2 Phenol-d5	8.216	8.208	8.210	8.212	8.224	8.228	8.229	8.216	5.216-11.216	8.218	0.009
3 Phenol	8.234	8.225	8.228	8.229	8.242	8.251	8.252	8.234	5.234-11.234	8.237	0.011
4 Bis(2-Chloroethyl)ethe	8.346	8.337	8.339	8.341	8.348	8.351	8.352	8.346	5.346-11.346	8.345	0.006
$ 5 2-Chlorophenol-d4	8.387	8.384	8.386	8.388	8.395	8.398	8.393	8.387	5.387-11.387	8.390	0.005

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.416	8.407	8.410	8.412	8.418	8.422	8.423	8.416	5.416-11.416	8.415	0.006
	7 1,3-Dichlorobenzene	8.633	8.631	8.633	8.635	8.636	8.639	8.640	8.633	5.633-11.633	8.635	0.003
*	8 1,4-Dichlorobenzene-d4	8.698	8.689	8.692	8.694	8.694	8.698	8.699	8.698	5.698-11.698	8.695	0.004
	9 1,4-Dichlorobenzene	8.721	8.713	8.715	8.717	8.724	8.721	8.722	8.721	5.721-11.721	8.719	0.004
$	10 1,2-Dichlorobenzene-d4	8.998	8.995	8.991	8.993	9.000	8.997	8.998	8.998	5.998-11.998	8.996	0.003
	11 Benzyl alcohol	8.956	8.948	8.944	8.952	8.959	8.968	8.969	8.956	5.956-11.956	8.957	0.009
	12 1,2-Dichlorobenzene	9.015	9.012	9.015	9.017	9.017	9.021	9.022	9.015	6.015-12.015	9.017	0.003
	13 2-Methylphenol	9.174	9.159	9.162	9.164	9.176	9.179	9.181	9.174	6.174-12.174	9.171	0.009
	14 2,2'-oxybis(1-Chloropr	9.209	9.206	9.203	9.205	9.211	9.215	9.216	9.209	6.209-12.209	9.209	0.005
	15 4-Methylphenol	9.397	9.388	9.391	9.393	9.405	9.414	9.415	9.397	6.397-12.397	9.401	0.011
	16 N-Nitroso-di-n-propyla	9.426	9.418	9.414	9.422	9.434	9.444	9.445	9.426	6.426-12.426	9.429	0.012
	17 Hexachloroethane	9.509	9.506	9.508	9.504	9.511	9.508	9.509	9.509	6.509-12.509	9.508	0.002
$	18 Nitrobenzene-d5	9.620	9.612	9.614	9.616	9.622	9.626	9.627	9.620	6.620-12.620	9.620	0.006
	19 Nitrobenzene	9.650	9.641	9.644	9.645	9.652	9.661	9.662	9.650	6.650-12.650	9.651	0.008
	20 Isophorone	10.026	10.017	10.014	10.015	10.028	10.037	10.038	10.026	7.026-13.026	10.025	0.010
	21 2-Nitrophenol	10.167	10.164	10.160	10.162	10.169	10.172	10.173	10.167	7.167-13.167	10.167	0.005
	22 2,4-Dimethylphenol	10.243	10.234	10.237	10.239	10.245	10.254	10.256	10.243	7.243-13.243	10.244	0.008
	23 Bis(2-Chloroethoxy)met	10.396	10.393	10.390	10.391	10.398	10.407	10.408	10.396	7.396-13.396	10.398	0.007
	24 Benzoic acid	10.466	10.317	10.354	10.397	10.509	10.560	10.567	10.466	7.466-13.466	10.453	0.099
	25 2,4-Dichlorophenol	10.543	10.534	10.531	10.538	10.545	10.548	10.549	10.543	7.543-13.543	10.541	0.007
	26 1,2,4-Trichlorobenzene	10.684	10.675	10.677	10.679	10.680	10.683	10.684	10.684	7.684-13.684	10.680	0.004
*	27 Naphthalene-d8	10.742	10.739	10.742	10.744	10.744	10.748	10.749	10.742	7.742-13.742	10.744	0.003
	28 Naphthalene	10.778	10.769	10.771	10.773	10.780	10.783	10.784	10.778	7.778-13.778	10.777	0.006
	29 4-Chloroaniline	10.901	10.898	10.895	10.896	10.903	10.907	10.908	10.901	7.901-13.901	10.901	0.005

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
30 Hexachlorobutadiene	11.083	11.080	11.083	11.084	11.085	11.083	11.084	11.083	8.083-14.083	11.083	0.002
31 4-Chloro-3-methylpheno	11.694	11.691	11.688	11.690	11.696	11.700	11.701	11.694	8.694-14.694	11.694	0.005
32 2-Methylnaphthalene	11.900	11.897	11.893	11.895	11.902	11.905	11.906	11.900	8.900-14.900	11.900	0.005
33 Hexachlorocyclopentadi	12.281	12.273	12.275	12.277	12.278	12.281	12.282	12.281	9.281-15.281	12.278	0.004
34 2,4,6-Trichlorophenol	12.405	12.402	12.404	12.400	12.407	12.410	12.411	12.405	9.405-15.405	12.406	0.004
35 2,4,5-Trichlorophenol	12.463	12.461	12.457	12.459	12.466	12.469	12.470	12.463	9.463-15.463	12.464	0.005
$ 36 2-Fluorobiphenyl	12.540	12.531	12.534	12.535	12.536	12.540	12.541	12.540	9.540-15.540	12.537	0.004
37 2-Chloronaphthalene	12.687	12.684	12.686	12.682	12.689	12.698	12.699	12.687	9.687-15.687	12.689	0.007
38 2-Nitroaniline	12.910	12.901	12.904	12.906	12.912	12.921	12.923	12.910	9.910-15.910	12.911	0.008
39 Dimethylphthalate	13.268	13.260	13.262	13.264	13.276	13.286	13.287	13.268	10.268-16.268	13.272	0.011
40 Acenaphthylene	13.374	13.371	13.374	13.370	13.376	13.380	13.381	13.374	10.374-16.374	13.375	0.004
41 2,6-Dinitrotoluene	13.374	13.365	13.362	13.364	13.376	13.380	13.387	13.374	10.374-16.374	13.372	0.009
* 42 Acenaphthene-d10	13.627	13.624	13.626	13.628	13.629	13.632	13.633	13.627	10.627-16.627	13.628	0.003
43 3-Nitroaniline	13.591	13.583	13.579	13.587	13.599	13.609	13.610	13.591	10.591-16.591	13.594	0.012
44 Acenaphthene	13.679	13.677	13.673	13.675	13.682	13.691	13.686	13.679	10.679-16.679	13.680	0.006
45 2,4-Dinitrophenol	13.756	13.741	13.744	13.751	13.764	13.779	13.780	13.756	10.756-16.756	13.759	0.016
46 Dibenzofuran	13.944	13.935	13.938	13.939	13.946	13.949	13.951	13.944	10.944-16.944	13.943	0.006
47 4-Nitrophenol	13.867	13.859	13.855	13.857	13.870	13.879	13.880	13.867	10.867-16.867	13.867	0.010
48 2,4-Dinitrotoluene	14.008	14.000	13.996	13.998	14.011	14.020	14.021	14.008	11.008-17.008	14.008	0.010
49 Fluorene	14.508	14.499	14.502	14.497	14.510	14.513	14.514	14.508	11.508-17.508	14.506	0.007
50 Diethylphthalate	14.431	14.417	14.419	14.421	14.434	14.437	14.438	14.431	11.431-17.431	14.428	0.009
51 4-Chlorophenyl-phenyle	14.514	14.505	14.508	14.509	14.516	14.519	14.514	14.514	11.514-17.514	14.512	0.005
52 4-Nitroaniline	14.596	14.581	14.584	14.586	14.610	14.625	14.626	14.596	11.596-17.596	14.601	0.019
53 4,6-Dinitro-2-methylph	14.672	14.664	14.660	14.662	14.680	14.695	14.697	14.672	11.672-17.672	14.676	0.015

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	14.713	14.711	14.707	14.709	14.721	14.731	14.732	14.713	11.713-17.713	14.718	0.010
$	55 2,4,6-Tribromophenol	14.931	14.922	14.925	14.920	14.933	14.936	14.937	14.931	11.931-17.931	14.929	0.007
	56 4-Bromophenyl-phenylet	15.301	15.298	15.301	15.296	15.303	15.306	15.308	15.301	12.301-18.301	15.302	0.004
	57 Hexachlorobenzene	15.542	15.533	15.536	15.537	15.544	15.547	15.548	15.542	12.542-18.542	15.541	0.006
	58 Pentachlorophenol	15.830	15.827	15.823	15.825	15.832	15.841	15.842	15.830	12.830-18.830	15.831	0.007
*	59 Phenanthrene-d10	16.029	16.021	16.023	16.025	16.031	16.035	16.036	16.029	13.029-19.029	16.029	0.006
	60 Phenanthrene	16.064	16.056	16.058	16.060	16.073	16.076	16.077	16.064	13.064-19.064	16.066	0.009
	61 Anthracene	16.141	16.132	16.135	16.136	16.143	16.152	16.153	16.141	13.141-19.141	16.142	0.008
	62 Carbazole	16.411	16.408	16.405	16.407	16.413	16.423	16.424	16.411	13.411-19.411	16.413	0.007
	63 Di-n-butylphthalate	17.093	17.084	17.086	17.088	17.095	17.092	17.093	17.093	14.092-20.093	17.090	0.004
	64 Fluoranthene	18.021	18.012	18.015	18.016	18.023	18.026	18.027	18.021	15.021-21.021	18.020	0.006
	65 Pyrene	18.385	18.376	18.379	18.380	18.387	18.396	18.397	18.385	15.385-21.385	18.386	0.008
$	66 Terphenyl-d14	18.667	18.664	18.667	18.662	18.669	18.672	18.674	18.667	15.667-21.667	18.668	0.004
	67 Butylbenzylphthalate	19.536	19.528	19.530	19.532	19.538	19.542	19.543	19.536	16.536-22.536	19.536	0.006
	68 Benzo(a)anthracene	20.353	20.344	20.347	20.348	20.361	20.364	20.365	20.353	17.353-23.353	20.355	0.009
*	69 Chrysene-d12	20.382	20.374	20.376	20.378	20.384	20.388	20.389	20.382	17.382-23.382	20.381	0.006
	70 3,3'-Dichlorobenzidine	20.341	20.338	20.335	20.337	20.343	20.347	20.348	20.341	17.341-23.341	20.341	0.005
	71 Chrysene	20.423	20.415	20.411	20.413	20.425	20.435	20.436	20.423	17.423-23.423	20.423	0.010
	72 bis(2-Ethylhexyl)phtha	20.517	20.515	20.511	20.513	20.514	20.517	20.518	20.517	17.517-23.517	20.515	0.003
	73 Di-n-octylphthalate	21.463	21.454	21.457	21.459	21.465	21.469	21.470	21.463	18.463-24.463	21.462	0.006
	74 Benzo(b)fluoranthene	22.021	22.012	22.015	22.017	22.029	22.038	22.040	22.021	19.021-25.021	22.025	0.011
	75 Benzo(k)fluoranthene	22.056	22.048	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.058	0.013
	187 Total Benzofluoranthen	22.056	22.012	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.053	0.022
	76 Benzo(a)pyrene	22.491	22.482	22.485	22.481	22.499	22.508	22.510	22.491	19.491-25.491	22.494	0.012

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	22.579	22.571	22.573	22.575	22.575	22.579	22.580	22.579	19.579-25.579	22.576	0.004
	78 Indeno(1,2,3-cd)pyrene	24.424	24.403	24.406	24.413	24.438	24.453	24.454	24.424	21.424-27.424	24.427	0.021
	79 Dibenzo(a,h)anthracene	24.447	24.421	24.429	24.431	24.455	24.471	24.477	24.447	21.447-27.447	24.447	0.022
	80 Benzo(g,h,i)perylene	24.958	24.926	24.929	24.936	24.972	24.987	24.989	24.958	21.958-27.958	24.957	0.027
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.280	4.260	4.257	4.276	4.288	4.298	4.281	4.280	1.280-7.280	4.277	0.015
	91 Aniline	8.246	8.237	8.240	8.241	8.248	8.251	8.252	8.246	5.246-11.246	8.245	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	18.250	18.247	18.244	18.245	18.252	18.255	18.251	18.250	15.250-21.250	18.249	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	18.925	18.923	18.925	18.921	18.927	18.931	18.932	18.925	15.925-21.925	18.926	0.004
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.125	28.125-34.125	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.475	21.475-27.475	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.481	21.481-27.481	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.251	4.272	4.245	4.258	4.253	4.257	4.240	4.251	1.251-7.251	4.254	0.010

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

ARI Job No.: IC25 Method: SW846100719.m Instrument: nt4.i Date: 19-JUL-2010

07/21/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1618	07191001.d	IC250719	IC250719	1	NO MANUAL INTEGRATION
1656	07191002.d	IC010719	IC010719	1	Benzoic acid, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Benzidine, Pyridine, Total Benzofluoranthenes, 1,2-Dichlorobenzene-d4,
1733	07191003.d	IC050719	IC050719	1	NO MANUAL INTEGRATION
1807	07191004.d	IC100719	IC100719	1	NO MANUAL INTEGRATION
1841	07191005.d	IC400719	IC400719	1	NO MANUAL INTEGRATION
1914	07191006.d	IC600719	IC600719	1	Benzoic acid,
1948	07191007.d	IC800719	IC800719	1	Benzoic acid, 4-Nitrophenol,
2021	07191008.d	ICV0719	ICV0719	1	NO MANUAL INTEGRATION

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 7/16/10 (19) Analysis: 8270 Analyst: RB

GC Program: RBN Column No: 172294 Column Type: ZB-5MS

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1353

Calibration File: 071910.D Curve Date: ~~07/16/10~~ 7/19/10 RB

IS/SS	Ical/Ccal	LCS/ICV
1627-1	~~17473~~, ~~1733-1~~	~~1761-3~~, ~~1713-1~~
	~~1735-1~~, ~~1736-1~~	~~1721-2~~, ~~1720-1~~
	~~15019~~, ~~1740-2~~	~~15019~~, 1740-2

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

	Time	Filename	LabID	ClientId	DF											
1	1618	07191001.d	IC250719	IC250719	1	8.70	356478	10.74	1293412	13.63	785897	16.03	1313990	20.38	1155293	22.58	1146289	21.45	1825297
2	1656	07191002.d	IC010719	IC010719	1	8.69	290756	10.74	1025728	13.62	609037	16.02	1031072	20.37	888098	22.57	896867	21.45	1405493
3	1733	07191003.d	IC050719	IC050719	1	8.69	280196	10.74	1016171	13.63	598563	16.02	1007780	20.38	879562	22.57	872109	21.45	1375669
4	1807	07191004.d	IC100719	IC100719	1	8.69	386803	10.74	1330824	13.63	805701	16.02	1335679	20.38	1209826	22.57	1193862	21.45	1905755
5	1841	07191005.d	IC400719	IC400719	1	8.69	381018	10.74	1340154	13.63	839318	16.03	1371590	20.38	1264495	22.58	1213809	21.45	1902533
6	1914	07191006.d	IC600719	IC600719	1	8.70	397320	10.75	1461536	13.63	877821	16.03	1448224	20.39	1294779	22.58	1277873	21.46	1930038
7	1948	07191007.d	IC800719	IC800719	1	8.70	300879	10.75	1123708	13.63	665405	16.04	1124245	20.39	968321	22.58	976271	21.46	1492891
8	2021	07191008.d	ICV0719	ICV0719	1	8.69	289791	10.74	1041288	13.62	632100	16.03	1057026	20.38	945392	22.57	894258	21.45	1458222

RB 07/21/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

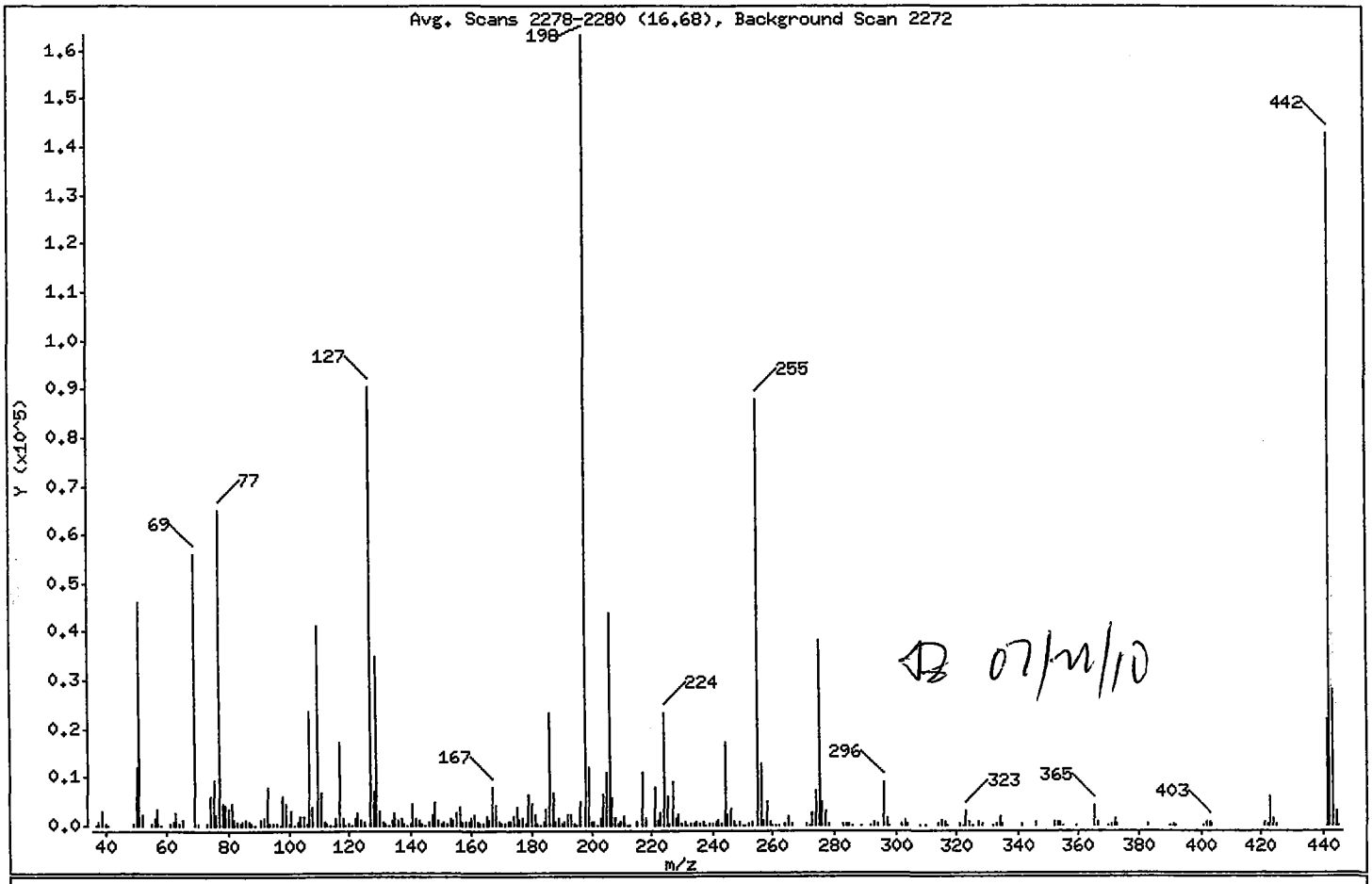
Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.18
70	Less than 2.00% of mass 69	0.18 (0.54)
127	10.00 - 80.00% of mass 198	55.45
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 60.00% of mass 198	23.41
365	Greater than 1.00% of mass 198	2.50
441	0.01 - 24.00% of mass 442	13.47 (15.37)
442	50.00 - 200.00% of mass 198	87.66
443	15.00 - 24.00% of mass 442	17.32 (19.76)

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07191001.d
Spectrum: Avg. Scans 2278-2280 (16.68), Background Scan 2272
Location of Maximum: 198.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	124.00	1068	194.00	516	274.00	6952
38.00	626	125.00	928	195.00	74	275.00	38240
39.00	3155	127.00	90568	196.00	4842	276.00	4902
40.00	240	128.00	7240	198.00	163328	277.00	3117
41.00	133	129.00	34976	199.00	11863	278.00	490
49.00	341	130.00	3136	200.00	903	283.00	378
50.00	12091	131.00	637	201.00	766	284.00	198
51.00	46216	132.00	342	202.00	187	285.00	490
52.00	2279	133.00	153	203.00	1329	286.00	65
55.00	297	134.00	1129	204.00	6388	289.00	110
56.00	1438	135.00	2602	205.00	10845	292.00	155
57.00	3212	136.00	1014	206.00	44056	293.00	700
58.00	135	137.00	1442	207.00	5697	294.00	220
61.00	549	138.00	343	208.00	1620	296.00	9048
62.00	790	139.00	162	209.00	354	297.00	1458
63.00	2458	140.00	293	210.00	768	298.00	53
64.00	336	141.00	4488	211.00	2062	302.00	218
65.00	1093	142.00	1318	212.00	166	303.00	1189
69.00	55832	143.00	949	213.00	136	304.00	343
70.00	301	144.00	361	215.00	571	308.00	99
73.00	194	145.00	149	217.00	11029	310.00	86
74.00	5838	146.00	933	218.00	1504	314.00	446
75.00	9200	147.00	2243	221.00	7732	315.00	1132
76.00	2411	148.00	4838	222.00	1169	316.00	637
77.00	64832	149.00	1154	223.00	2692	317.00	83
78.00	4584	150.00	297	224.00	23456	321.00	312
79.00	4287	151.00	712	225.00	6043	322.00	133
80.00	3333	152.00	458	226.00	467	323.00	3131
81.00	4634	153.00	1366	227.00	9060	324.00	671
82.00	1207	154.00	1075	228.00	1570	325.00	51
83.00	927	155.00	2457	229.00	2131	327.00	645
84.00	269	156.00	3710	230.00	278	328.00	320
85.00	789	157.00	774	231.00	800	332.00	166
86.00	948	158.00	741	232.00	137	333.00	387
87.00	602	159.00	635	233.00	218	334.00	2050

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719 Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 07191001.d
Spectrum: Avg. Scans 2278-2280 (16.68), Background Scan 2272
Location of Maximum: 198.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	274	160.00	1414	234.00	561	335.00	456
89.00	140	161.00	2227	235.00	806	341.00	328
91.00	1126	162.00	641	236.00	506	346.00	618
92.00	1437	163.00	254	237.00	841	352.00	919
93.00	7814	164.00	284	238.00	65	353.00	651
94.00	392	165.00	1814	239.00	363	354.00	938
95.00	194	166.00	1157	240.00	376	355.00	90
96.00	431	167.00	7700	241.00	578	359.00	57
97.00	63	168.00	4026	242.00	1185	365.00	4085
98.00	5863	169.00	685	243.00	462	366.00	751
99.00	4521	170.00	323	244.00	17144	370.00	62
100.00	429	171.00	443	245.00	2104	371.00	244
101.00	2891	172.00	734	246.00	3475	372.00	1497
102.00	148	173.00	921	247.00	804	373.00	472
103.00	837	174.00	1805	248.00	141	383.00	429
104.00	1882	175.00	3722	249.00	685	390.00	161
105.00	1824	176.00	1027	250.00	67	391.00	235
106.00	256	177.00	1400	251.00	147	392.00	78
107.00	23808	178.00	437	252.00	188	401.00	53
108.00	3656	179.00	6417	253.00	579	402.00	748
110.00	41184	180.00	4403	255.00	87864	403.00	833
111.00	6615	181.00	2289	256.00	12866	404.00	311
112.00	697	182.00	438	257.00	1093	421.00	791
113.00	280	183.00	173	258.00	4775	422.00	405
114.00	62	184.00	574	259.00	669	423.00	5987
115.00	172	185.00	3393	260.00	130	424.00	1326
116.00	1343	186.00	23320	261.00	146	425.00	201
117.00	17168	187.00	6795	262.00	58	441.00	22008
118.00	1429	188.00	689	264.00	215	442.00	143168
119.00	139	189.00	1412	265.00	1846	443.00	28288
120.00	356	190.00	292	266.00	390	444.00	2849
121.00	75	191.00	714	271.00	396	445.00	152
122.00	1440	192.00	2176	272.00	150		
123.00	2633	193.00	2306	273.00	2780		

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

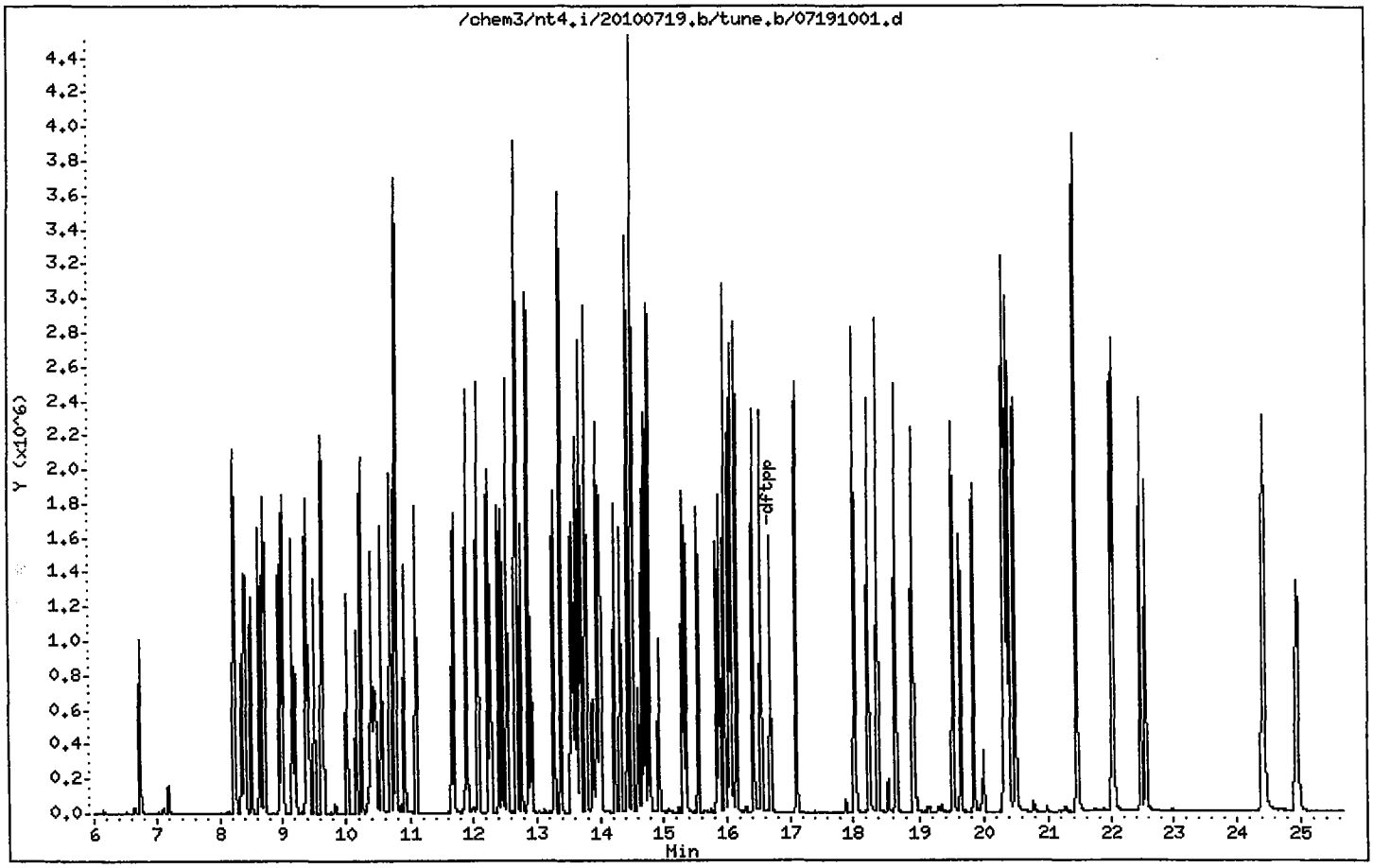
Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100719.b/ddt.b/07191001.d ARI ID: IC250719
Method: /chem3/nt4.i/20100719.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 19-JUL-2010 16:18 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.830	246760
Benzidine	13.756	317048
4,4'-DDE	----	----
4,4'-DDD	19.172	9246
4,4'-DDT	19.654	449440

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 9246) * 100}{(0 + 9246 + 449440)}$$

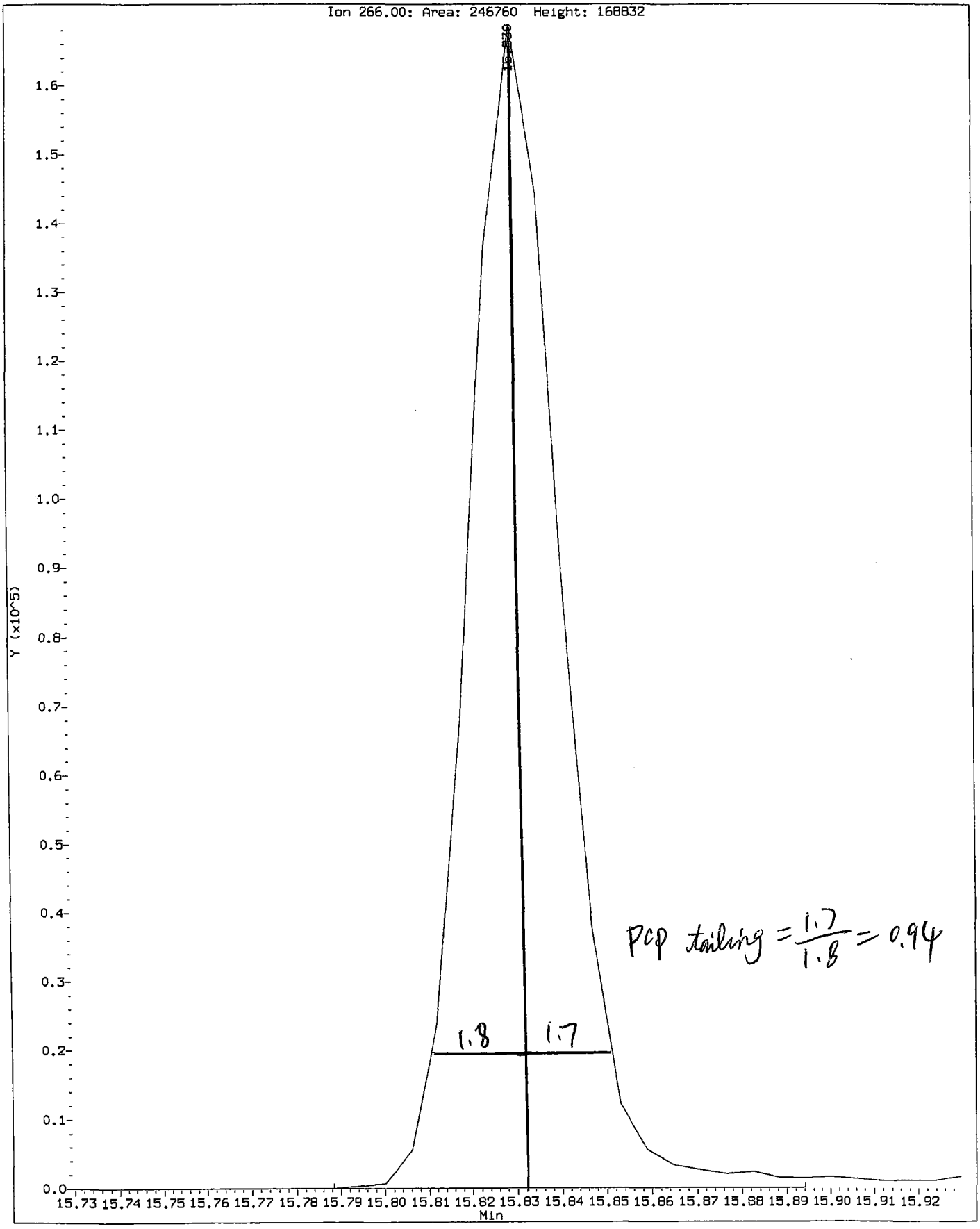
DDT Percent Breakdown = 2.0 %

OK

AL 07/21/10

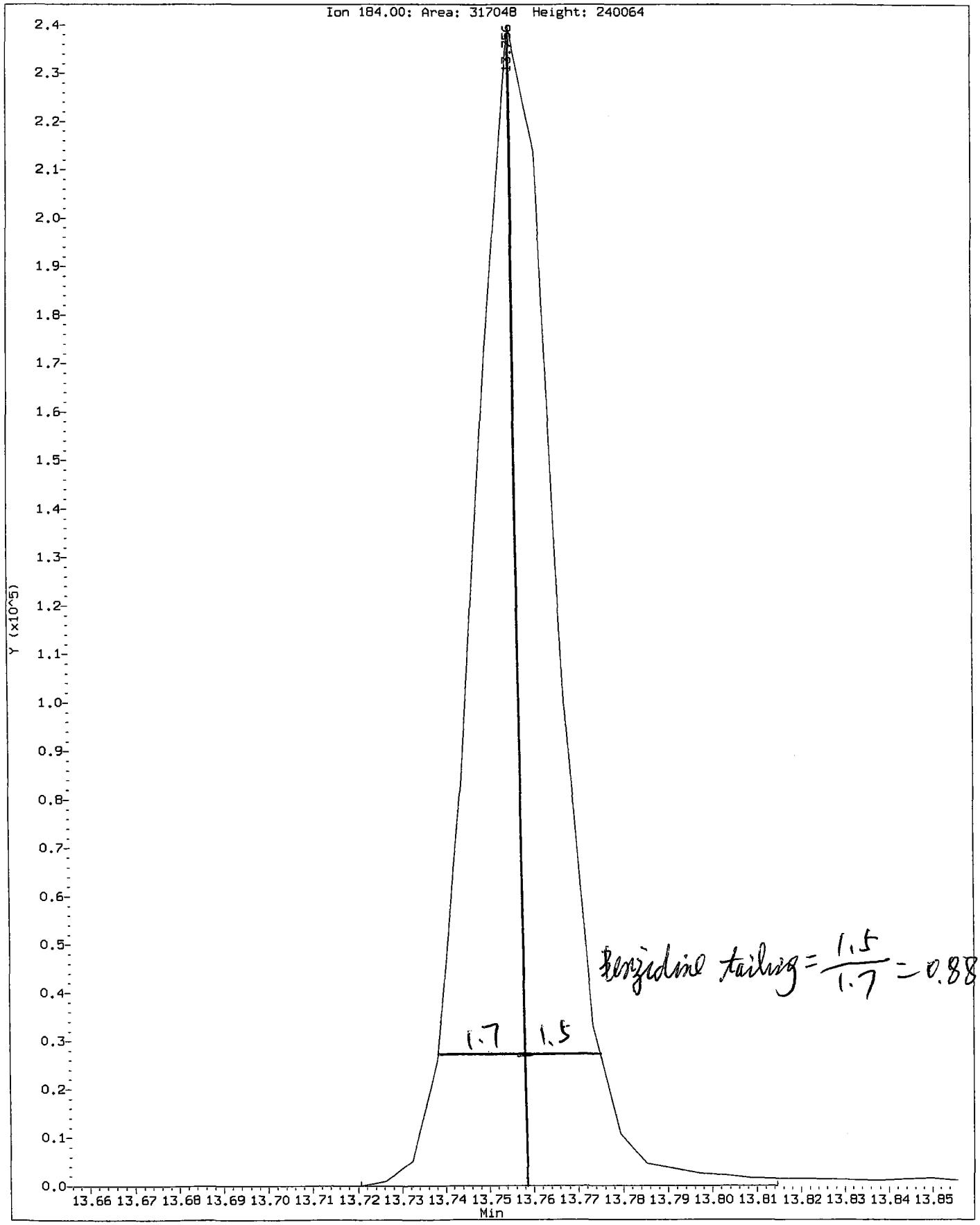
Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191002.d
Lab Smp Id: IC010719 Client Smp ID: IC010719
Inj Date : 19-JUL-2010 16:56
Operator : JZ Inst ID: nt4.i
Smp Info : IC010719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:56 Cal File: 07191002.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.727	6.737	(0.774)	16929	1.00000	1.000
$	2	Phenol-d5	99	8.208	8.229	(0.945)	15849	1.00000	1.000
	3	Phenol	94	8.225	8.252	(0.947)	22145	1.00000	1.000
$	5	2-Chlorophenol-d4	132	8.384	8.393	(0.965)	17674	1.00000	1.000
	4	Bis(2-Chloroethyl)ether	93	8.337	8.352	(0.959)	16775	1.00000	1.000
	6	2-Chlorophenol	128	8.407	8.423	(0.968)	20019	1.00000	1.000
	7	1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	24857	1.00000	1.000
*	8	1,4-Dichlorobenzene-d4	152	8.689	8.699	(1.000)	290756	20.0000	
	9	1,4-Dichlorobenzene	146	8.713	8.722	(1.003)	24688	1.00000	1.000
$	10	1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	14140	1.00000	1.000(M)
	12	1,2-Dichlorobenzene	146	9.012	9.022	(1.037)	22982	1.00000	1.000
	14	2,2'-oxybis(1-Chloropropane)	45	9.206	9.216	(1.059)	16487	1.00000	1.000
	13	2-Methylphenol	108	9.159	9.181	(1.054)	14573	1.00000	1.000
	17	Hexachloroethane	117	9.506	9.509	(1.094)	8597	1.00000	1.000
	16	N-Nitroso-di-n-propylamine	70	9.418	9.445	(1.084)	11445	1.00000	1.000
	15	4-Methylphenol	108	9.388	9.415	(1.080)	15650	1.00000	1.000
$	18	Nitrobenzene-d5	82	9.612	9.627	(0.895)	16718	1.00000	1.000
	19	Nitrobenzene	77	9.641	9.662	(0.898)	17688	1.00000	1.000
	20	Isophorone	82	10.017	10.038	(0.933)	29376	1.00000	1.000
	21	2-Nitrophenol	139	10.164	10.173	(0.946)	8306	1.00000	1.000
	22	2,4-Dimethylphenol	107	10.234	10.256	(0.953)	17478	1.00000	1.000
	23	Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	20749	1.00000	1.000
	25	2,4-Dichlorophenol	162	10.534	10.549	(0.981)	13002	1.00000	1.000
	26	1,2,4-Trichlorobenzene	180	10.675	10.684	(0.994)	18864	1.00000	1.000
*	27	Naphthalene-d8	136	10.739	10.749	(1.000)	1025728	20.0000	
	28	Naphthalene	128	10.769	10.784	(1.003)	60556	1.00000	1.000
	29	4-Chloroaniline	127	10.898	10.908	(1.015)	20131	1.00000	1.000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	30 Hexachlorobutadiene	225	11.080	11.084	(1.032)	11152	1.00000	1.000
	31 4-Chloro-3-methylphenol	107	11.691	11.701	(1.089)	10459	1.00000	1.000
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	38275	1.00000	1.000
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	9385	1.00000	1.000
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	7560	1.00000	1.000
$	36 2-Fluorobiphenyl	172	12.531	12.541	(0.920)	44578	1.00000	1.000
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	37915	1.00000	1.000
	38 2-Nitroaniline	65	12.901	12.923	(0.947)	4299	1.00000	1.000
	39 Dimethylphthalate	163	13.260	13.287	(0.973)	44202	1.00000	1.000
	40 Acenaphthylene	152	13.371	13.381	(0.981)	59340	1.00000	1.000
	41 2,6-Dinitrotoluene	165	13.365	13.387	(0.981)	7415	1.00000	1.000
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	609037	20.0000	
	43 3-Nitroaniline	138	13.583	13.610	(0.997)	8127	1.00000	1.000(M)
	44 Acenaphthene	153	13.677	13.686	(1.004)	37912	1.00000	1.000
	46 Dibenzofuran	168	13.935	13.951	(1.023)	50118	1.00000	1.000
	48 2,4-Dinitrotoluene	165	14.000	14.021	(1.028)	8769	1.00000	1.000
	50 Diethylphthalate	149	14.417	14.438	(1.058)	47903	1.00000	1.000
	49 Fluorene	166	14.499	14.514	(1.064)	44002	1.00000	1.000
	51 4-Chlorophenyl-phenylether	204	14.505	14.514	(1.065)	21156	1.00000	1.000
	52 4-Nitroaniline	138	14.581	14.626	(1.070)	8559	1.00000	1.000(M)
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	30879	1.00000	1.000
$	55 2,4,6-Tribromophenol	330	14.922	14.937	(1.095)	3444	1.00000	1.000
	56 4-Bromophenyl-phenylether	248	15.298	15.308	(0.955)	10876	1.00000	1.000
	57 Hexachlorobenzene	284	15.533	15.548	(0.970)	12460	1.00000	1.000
*	59 Phenanthrene-d10	188	16.021	16.036	(1.000)	1031072	20.0000	
	60 Phenanthrene	178	16.056	16.077	(1.002)	65449	1.00000	1.000
	61 Anthracene	178	16.132	16.153	(1.007)	65409	1.00000	1.000
	62 Carbazole	167	16.408	16.424	(1.024)	59018	1.00000	1.000
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	71682	1.00000	1.000
	64 Fluoranthene	202	18.012	18.027	(1.124)	63563	1.00000	1.000
	65 Pyrene	202	18.376	18.397	(0.902)	68781	1.00000	1.000
$	66 Terphenyl-d14	244	18.664	18.674	(0.916)	41564	1.00000	1.000
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	28078	1.00000	1.000
	68 Benzo(a)anthracene	228	20.344	20.365	(0.999)	62157	1.00000	1.000
*	69 Chrysene-d12	240	20.374	20.389	(1.000)	888098	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.338	20.348	(0.998)	16378	1.00000	1.000
	71 Chrysene	228	20.415	20.436	(1.002)	61441	1.00000	1.000
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	37359	1.00000	1.000
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1405493	20.0000	
	73 Di-n-octylphthalate	149	21.454	21.470	(1.000)	88965	1.00000	1.000
	74 Benzo(b)fluoranthene	252	22.012	22.040	(0.975)	62957	1.00000	1.000
	75 Benzo(k)fluoranthene	252	22.048	22.075	(0.977)	68867	1.00000	1.000
	187 Total Benzofluoranthenes	252	22.012	22.075	(0.975)	123956	2.00000	2.000(M)
	76 Benzo(a)pyrene	252	22.482	22.510	(0.996)	55355	1.00000	1.000
*	77 Perylene-d12	264	22.571	22.580	(1.000)	896867	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.403	24.454	(1.081)	49743	1.00000	1.000
	79 Dibenzo(a,h)anthracene	278	24.421	24.477	(1.082)	36717	1.00000	1.000(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
80	Benzo(g,h,i)perylene	276	24.926	24.989	(1.104)	42342	1.00000	1.000 (M)
90	N-Nitrosodimethylamine	74	4.260	4.281	(0.490)	9418	1.00000	1.000
103	Pyridine	79	4.272	4.240	(0.492)	13123	1.00000	1.000 (M)
91	Aniline	93	8.237	8.252	(0.948)	24205	1.00000	1.000
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	37878	1.00000	1.000
93	Benzidine	184	18.247	18.251	(0.896)	18817	1.00000	1.000 (M)
111	Azobenzene (1,2-DP-Hydrazine)	77	14.758	14.779	(1.083)	34717	1.00000	1.000
143	1,4-Dioxane	88	3.485	3.494	(0.401)	6166	1.00000	
$ 137	d8-1,4-Dioxane	96	3.420	3.424	(0.394)	6252	1.00000	
151	1,2,4,5-Tetrachlorobenzene	216	12.237	12.247	(0.898)	18497	1.00000	1.000
120	2,3,4,6-Tetrachlorophenol	232	14.211	14.221	(1.043)	7771	1.00000	1.000
144	alpha-Terpineol	59	10.775	10.790	(1.003)	10428	1.00000	1.000
98	Retene	219	18.923	18.932	(0.929)	20377	1.00000	1.000
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	36457	1.00000	1.000
115	Tributyl Phosphate	99	14.769	14.802	(0.922)	42406	1.00000	1.000
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.032)	32552	1.00000	1.000
117	Butyl Diphenyl Phosphate	94	18.235	18.245	(0.895)	9172	1.00000	1.000
118	Triphenyl Phosphate	326	19.857	19.866	(0.975)	9524	1.00000	1.000
123	Acetophenone	105	9.371	9.392	(0.873)	24162	1.00000	1.000
179	n-Decane	57	8.495	8.505	(0.978)	13401	1.00000	1.000
180	n-Octadecane	57	15.874	15.883	(0.991)	15597	1.00000	1.000
168	Pentachlorobenzene	250	13.976	13.992	(1.026)	14879	1.00000	1.000
113	Diphenyl Oxide	170	12.860	12.870	(0.944)	38962	1.00000	1.000
112	Biphenyl	154	12.672	12.682	(0.930)	44311	1.00000	1.000
110	Tetrachloroguaiacol	247	15.950	15.971	(0.996)	11956	2.00000	2.000
109	3,4,5-Trichloroguaiacol	213	14.305	14.315	(0.893)	5696	1.00000	1.000
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.901)	6639	1.00000	1.000
108	4,5,6-Trichloroguaiacol	213	15.339	15.349	(0.957)	5830	1.00000	1.000
184	3,4-Dichloroguaiacol	192	12.754	12.764	(0.936)	5700	1.00000	1.000
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	7611	1.00000	1.000
182	4,6-Dichloroguaiacol	192	13.559	13.580	(0.995)	8112	1.00000	1.000
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	3842	0.50000	0.5000
106	Guaiacol	124	9.629	9.645	(1.108)	16777	1.00000	1.000

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191002.d
Lab Smp Id: IC010719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC010719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	290756	-18.44
27 Naphthalene-d8	1293412	646706	2586824	1025728	-20.70
42 Acenaphthene-d10	785897	392948	1571794	609037	-22.50
59 Phenanthrene-d10	1313990	656995	2627980	1031072	-21.53
69 Chrysene-d12	1155293	577646	2310586	888098	-23.13
134 Di-n-octylphthala	1825297	912648	3650594	1405493	-23.00
77 Perylene-d12	1146289	573144	2292578	896867	-21.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.10
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.03
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.05
69 Chrysene-d12	20.38	19.88	20.88	20.37	-0.04
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.04

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

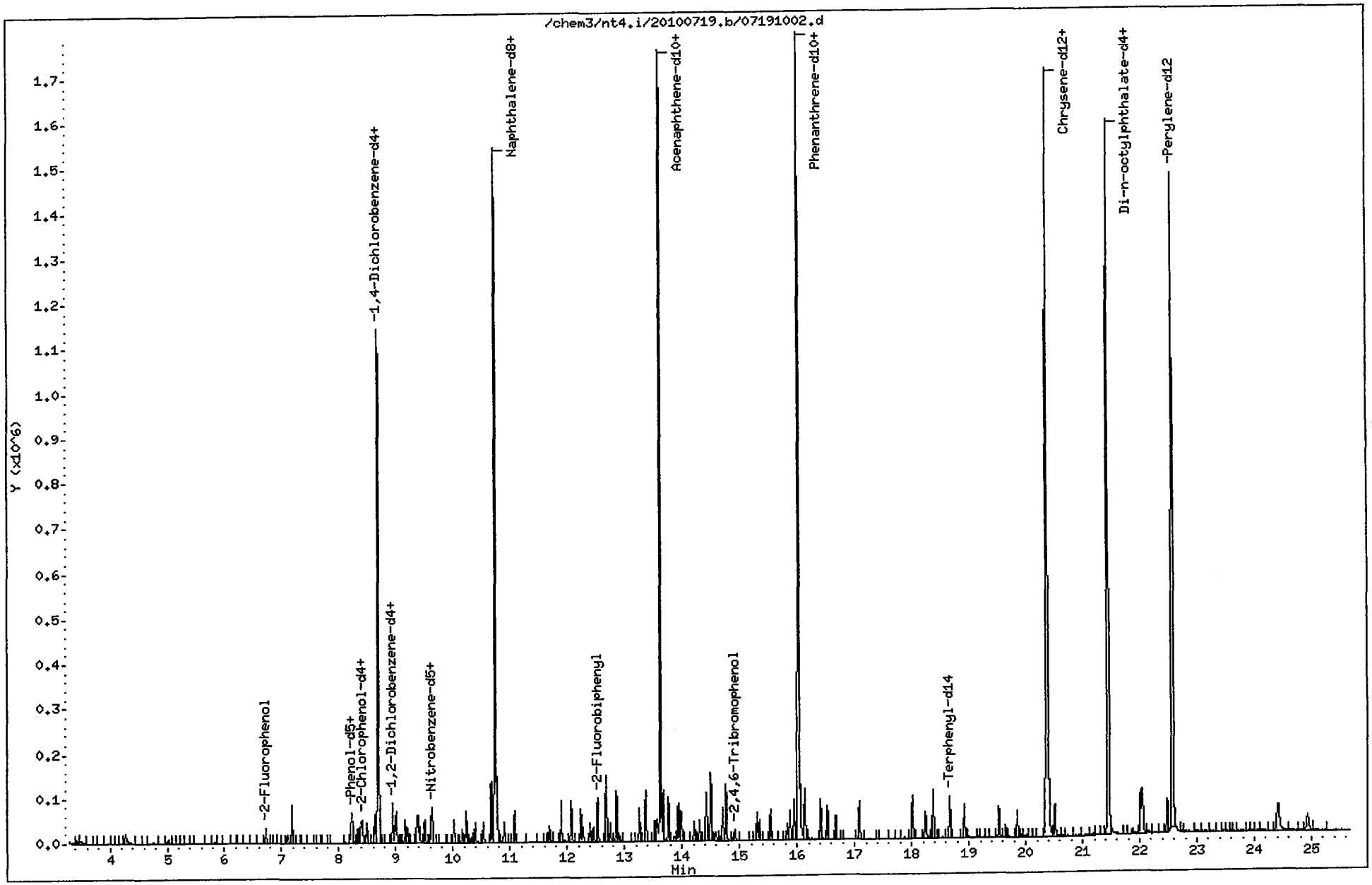
Data File: /chem3/nt4.i/20100719.b/07191002.d
Date : 19-JUL-2010 16:56
Client ID: IC010719
Sample Info: IC010719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

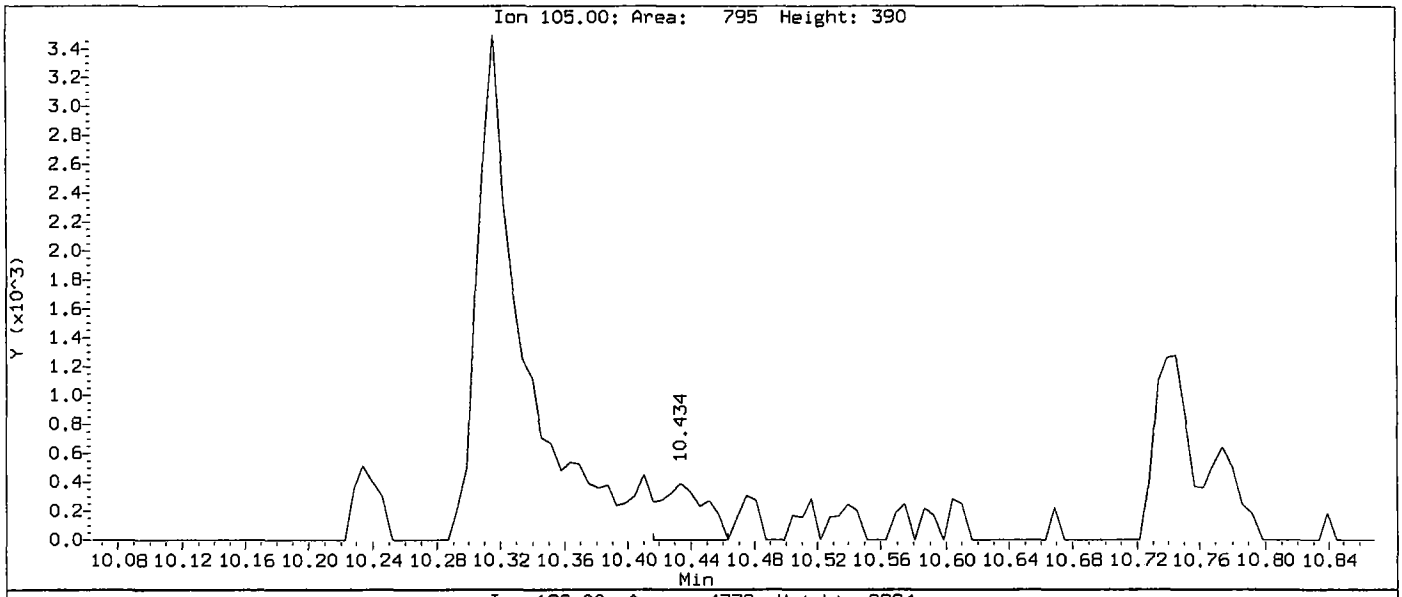
Column phase: ZB-5msi

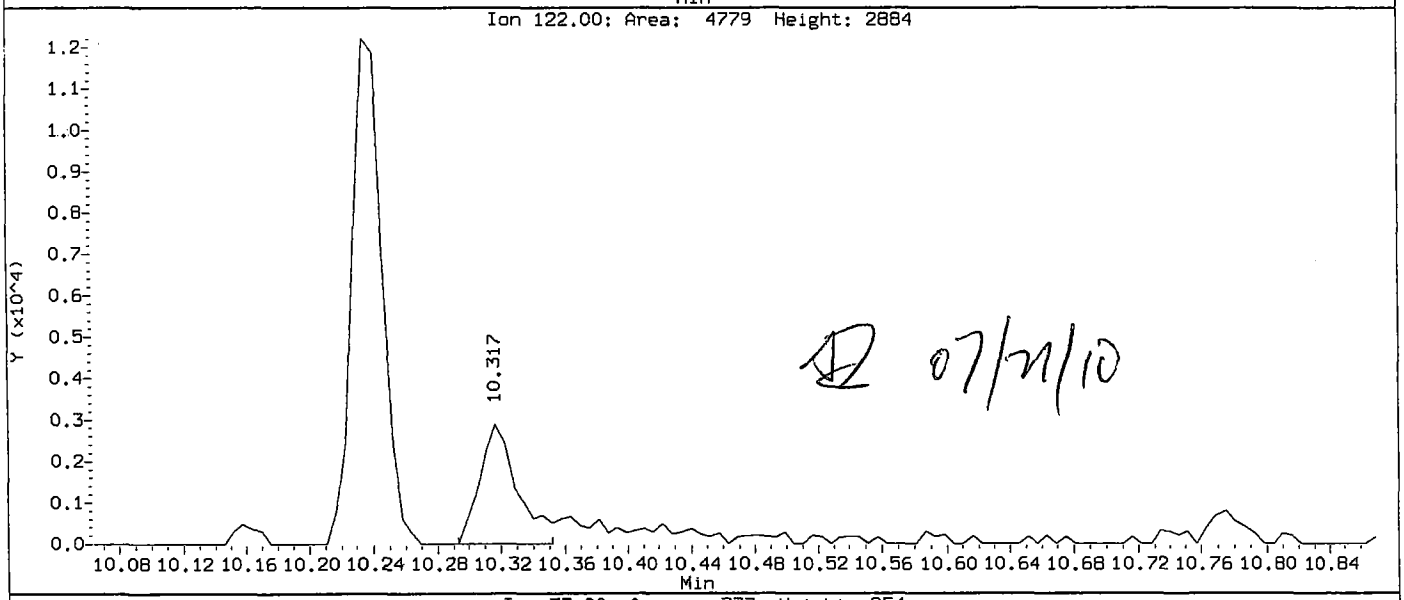
RG78:0719



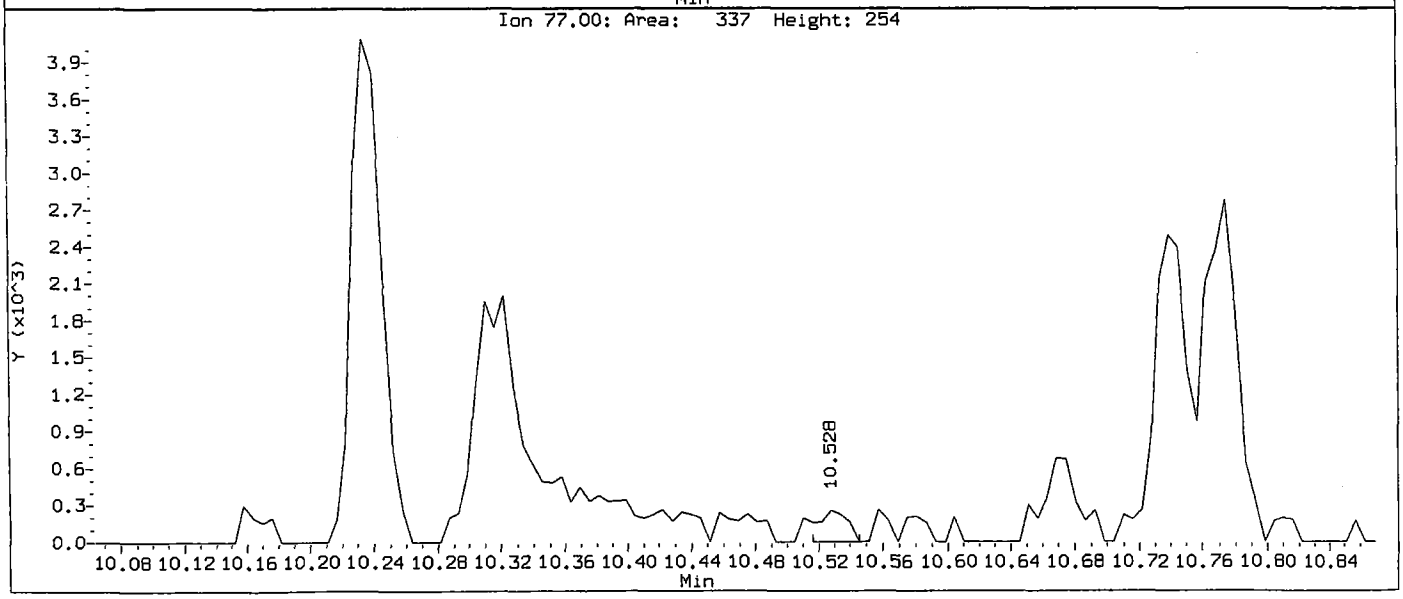
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzoic acid
CAS Number: 65-85-0



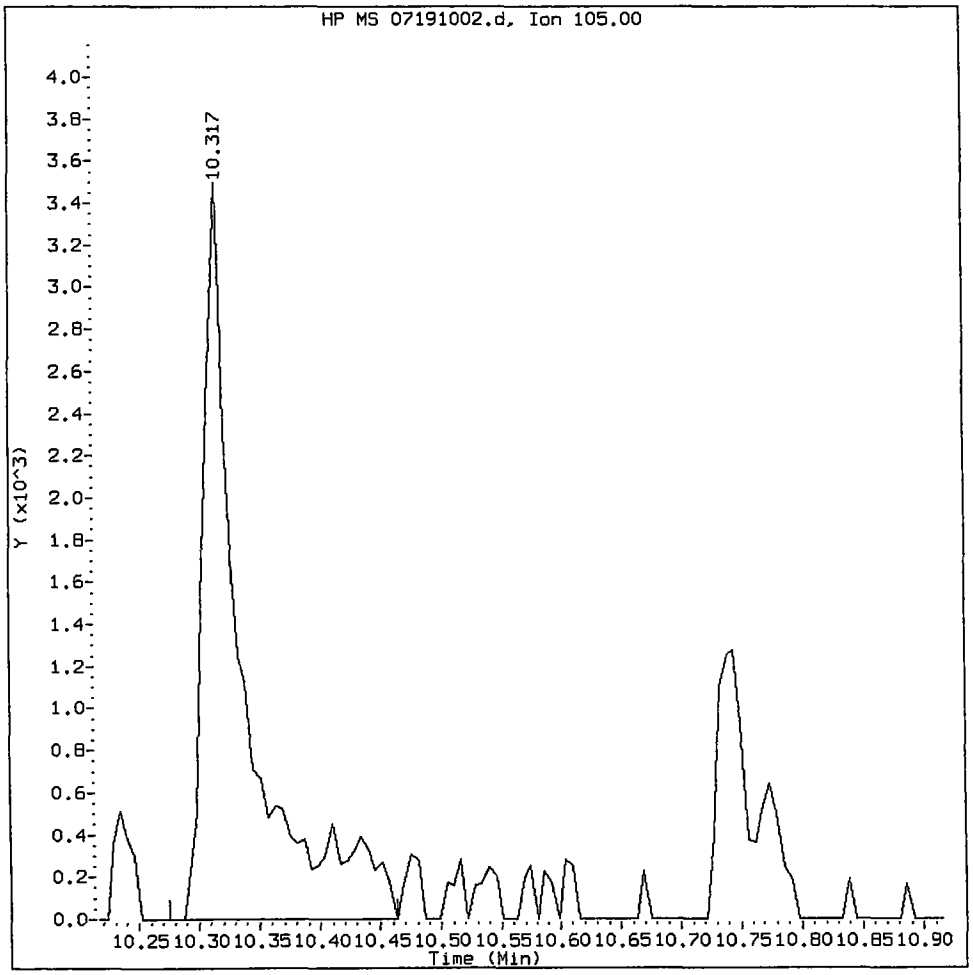


07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzoic acid Amount: 0.00 Area: 8004



MANUAL INTEGRATION for Benzoic acid

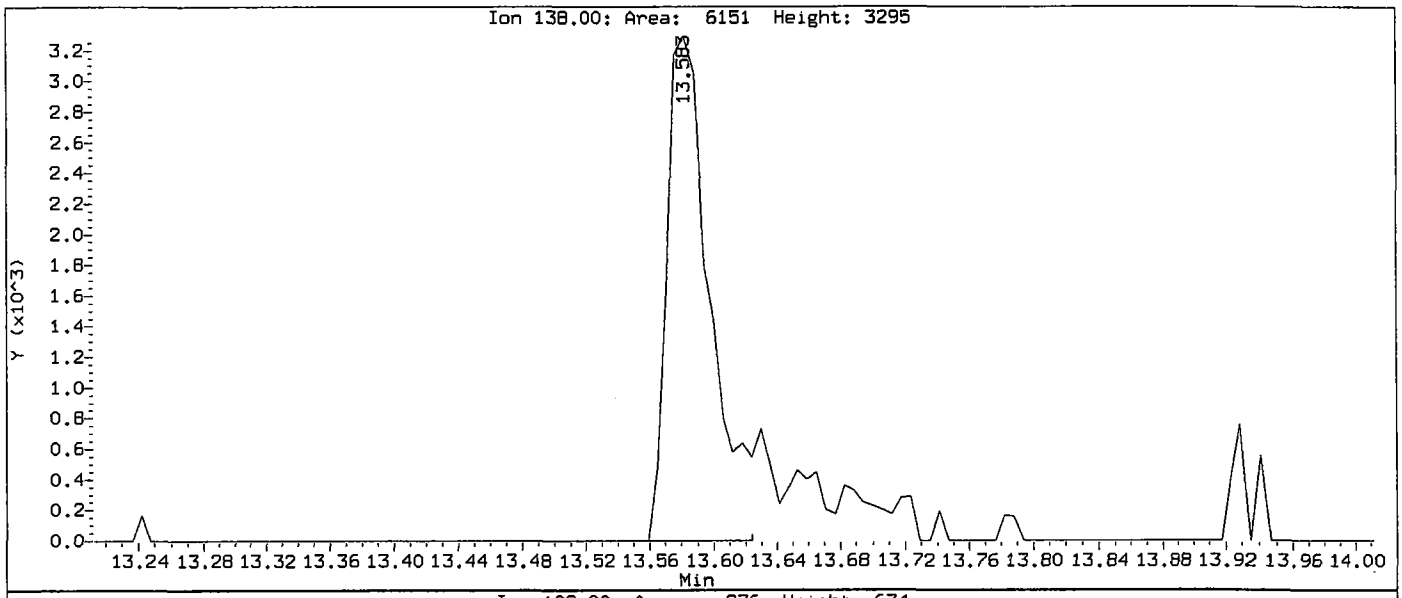
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

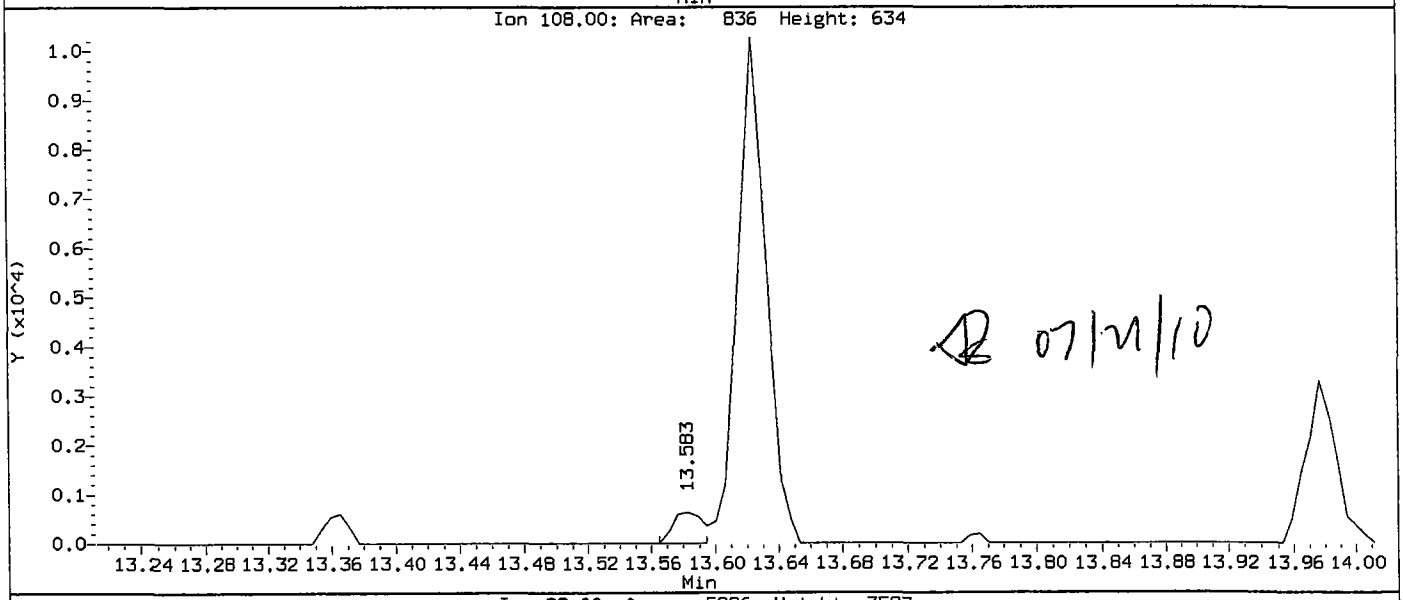
5. Other _____

Analyst: _____ Date: 07/21/10

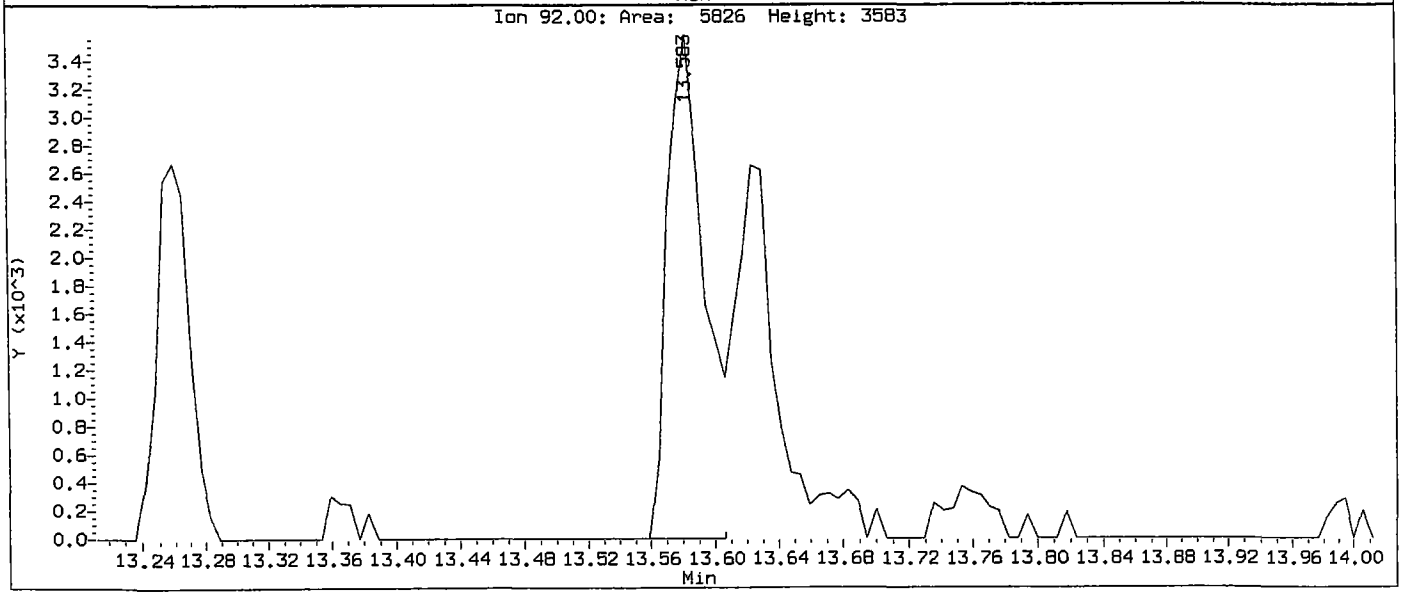
Data File: /chem3/nt4.i/20100719B.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 3-Nitroaniline
CAS Number: 99-09-2





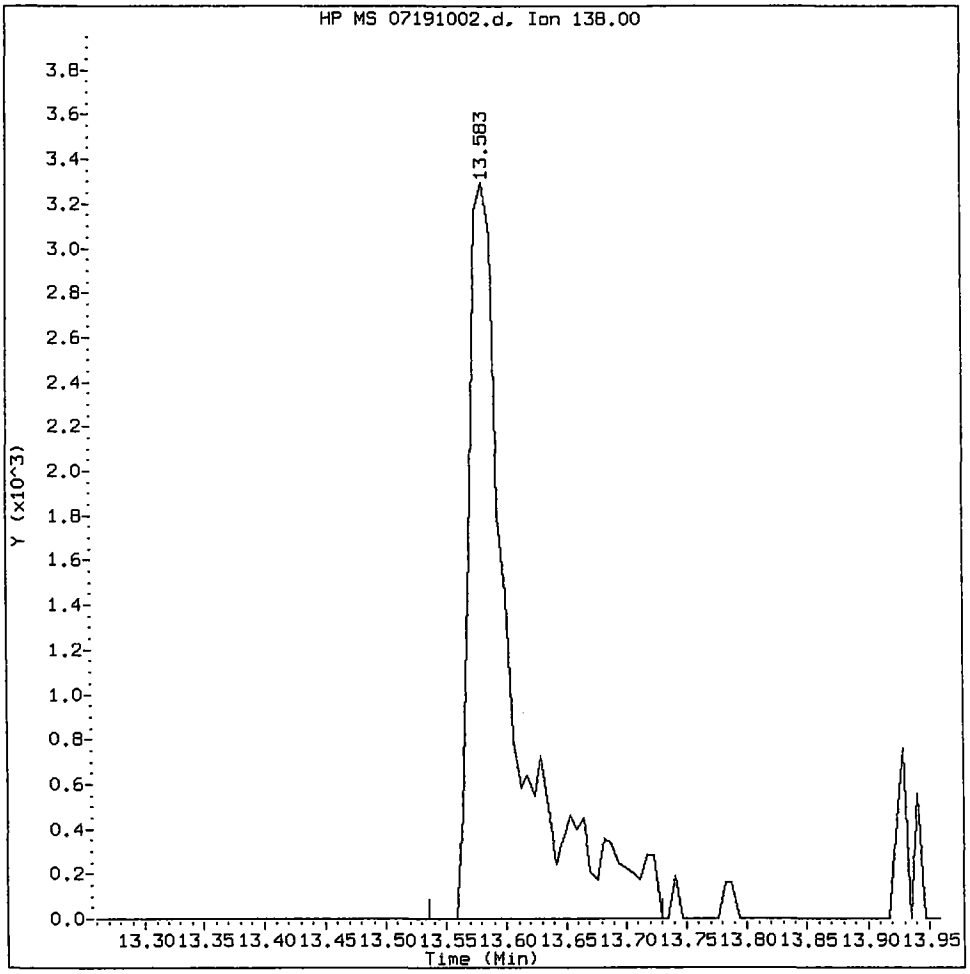
R 07/21/10



RG78 : 00713

IC010719, /chem3/nt4.i/20100719.b/07191002.d

3-Nitroaniline Amount: 1.00 Area: 8127



MANUAL INTEGRATION for 3-Nitroaniline

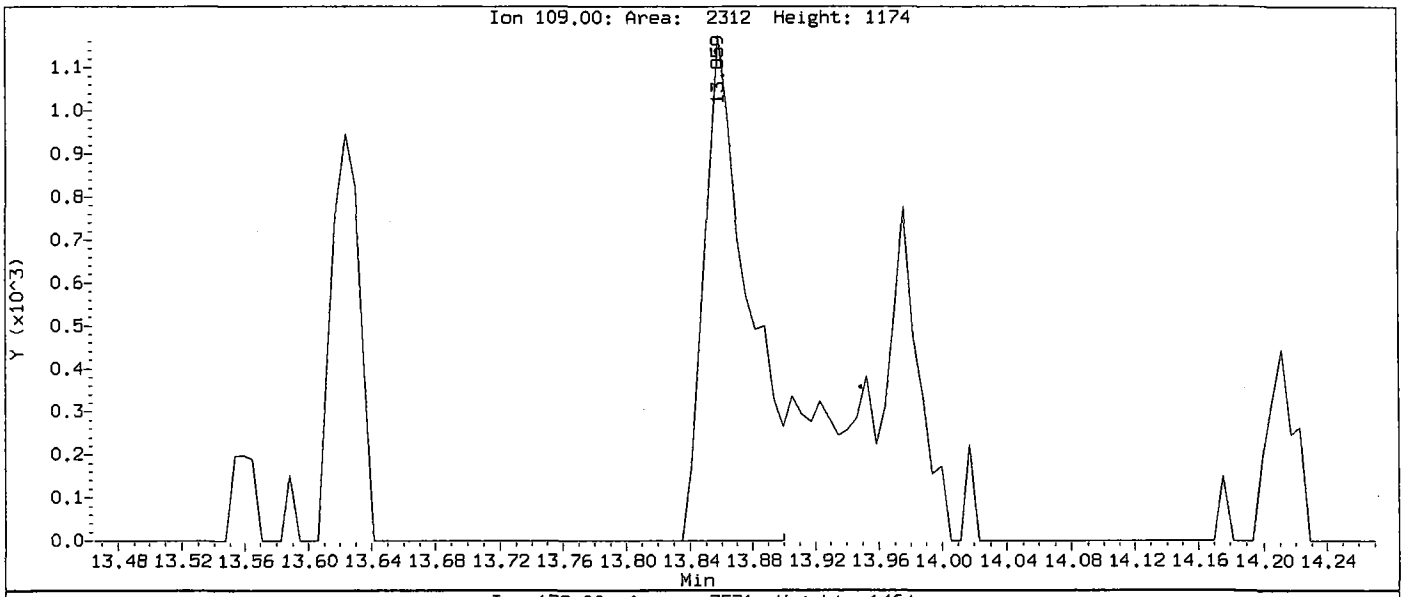
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

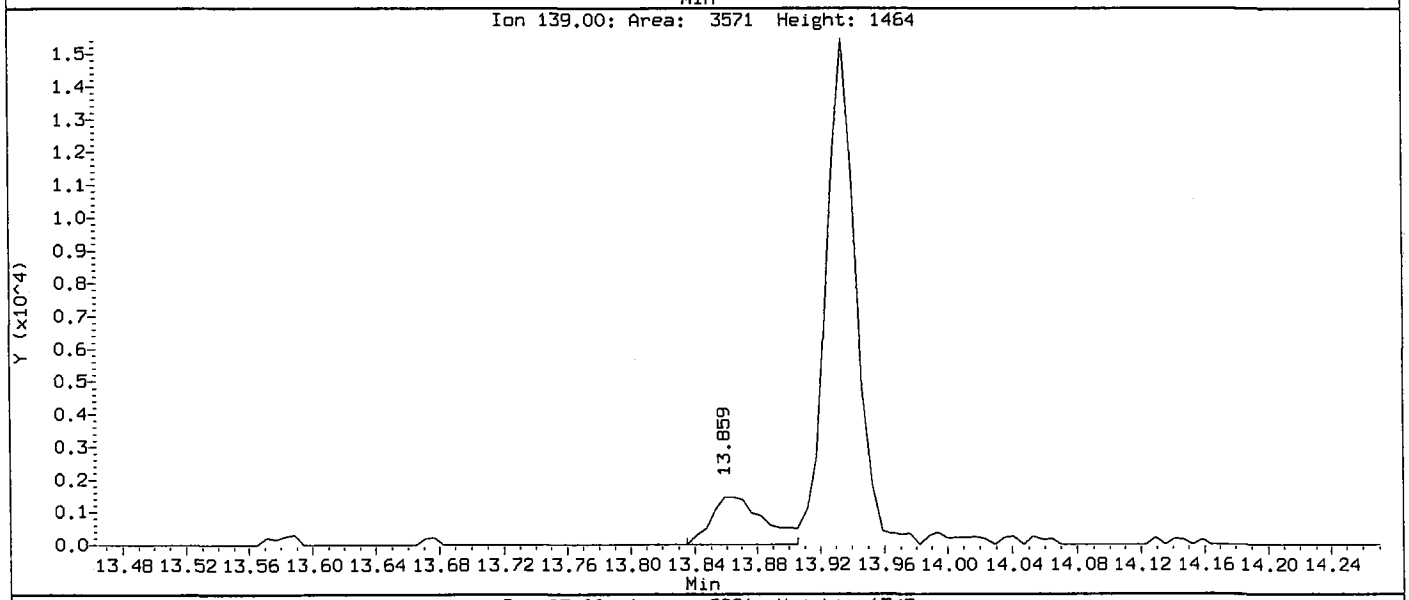
5. Other _____

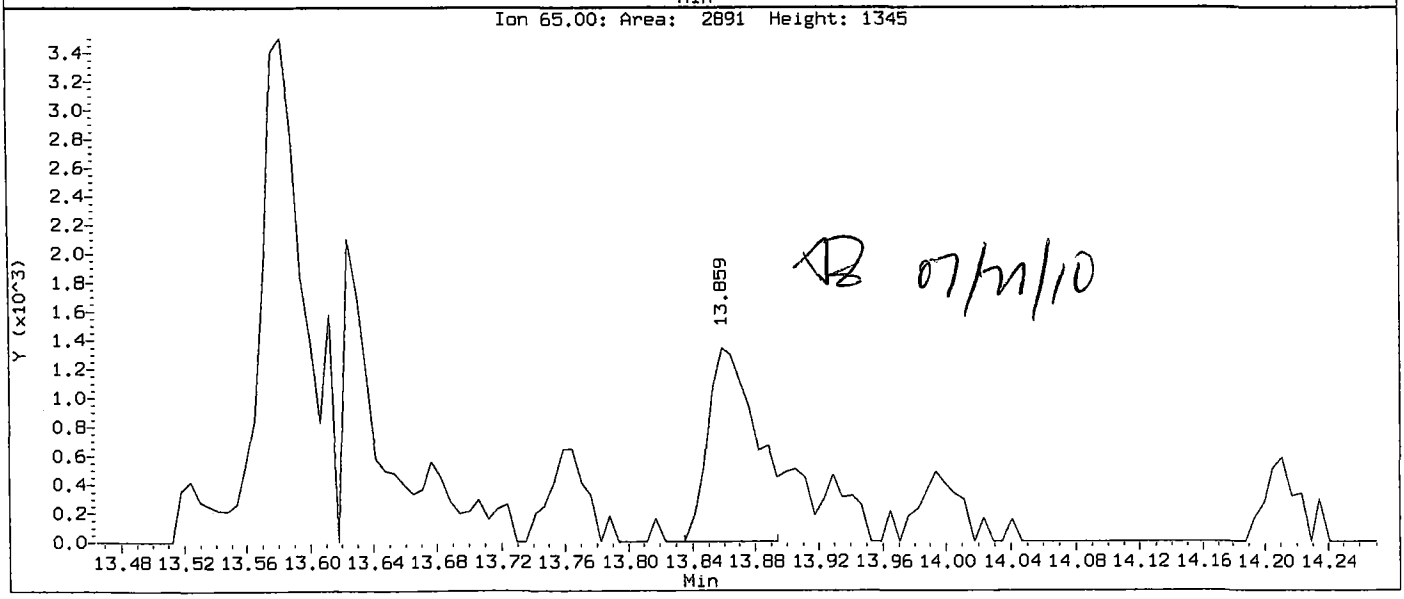
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 4-Nitrophenol
CAS Number: 100-02-7





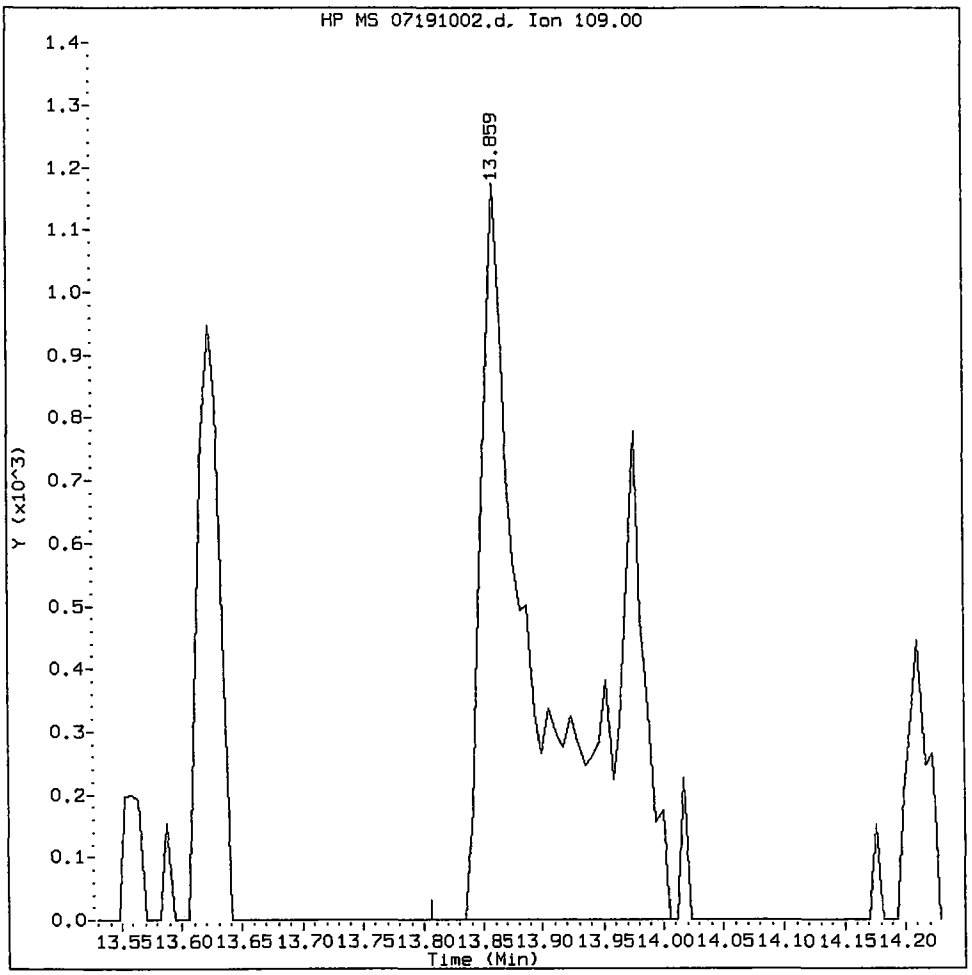


RB 07/21/10

RG78 : 00715

IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitrophenol Amount: 0.00 Area: 4317



MANUAL INTEGRATION for 4-Nitrophenol

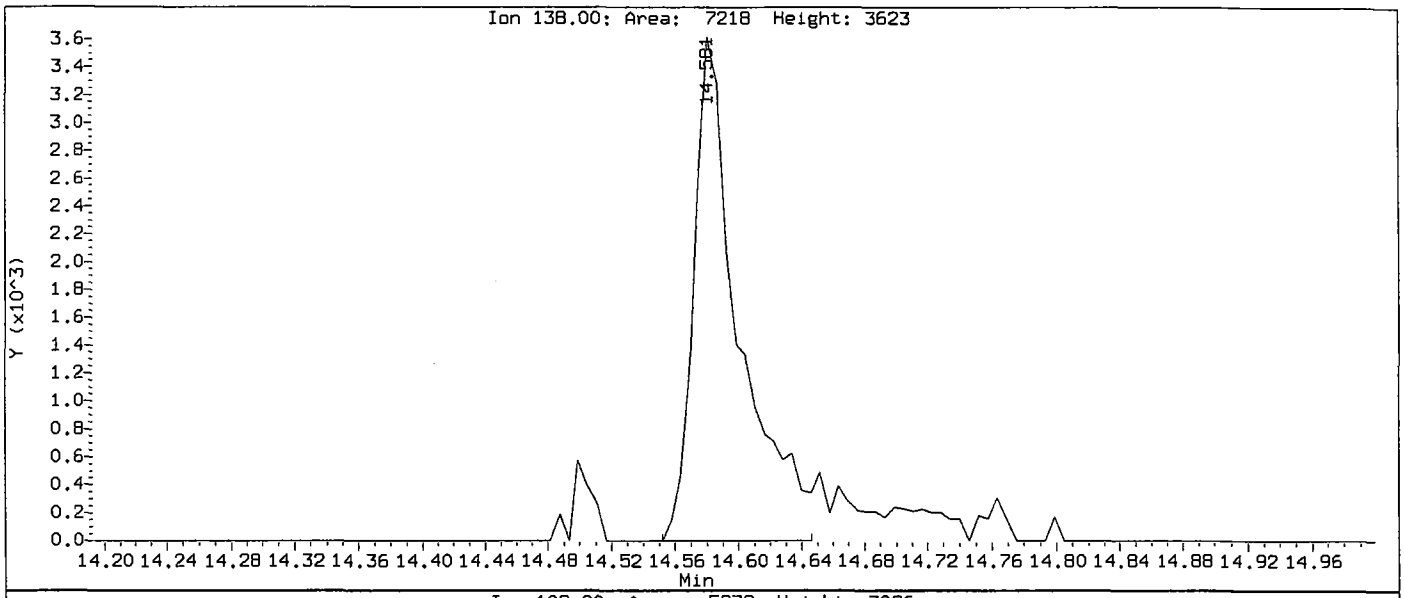
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

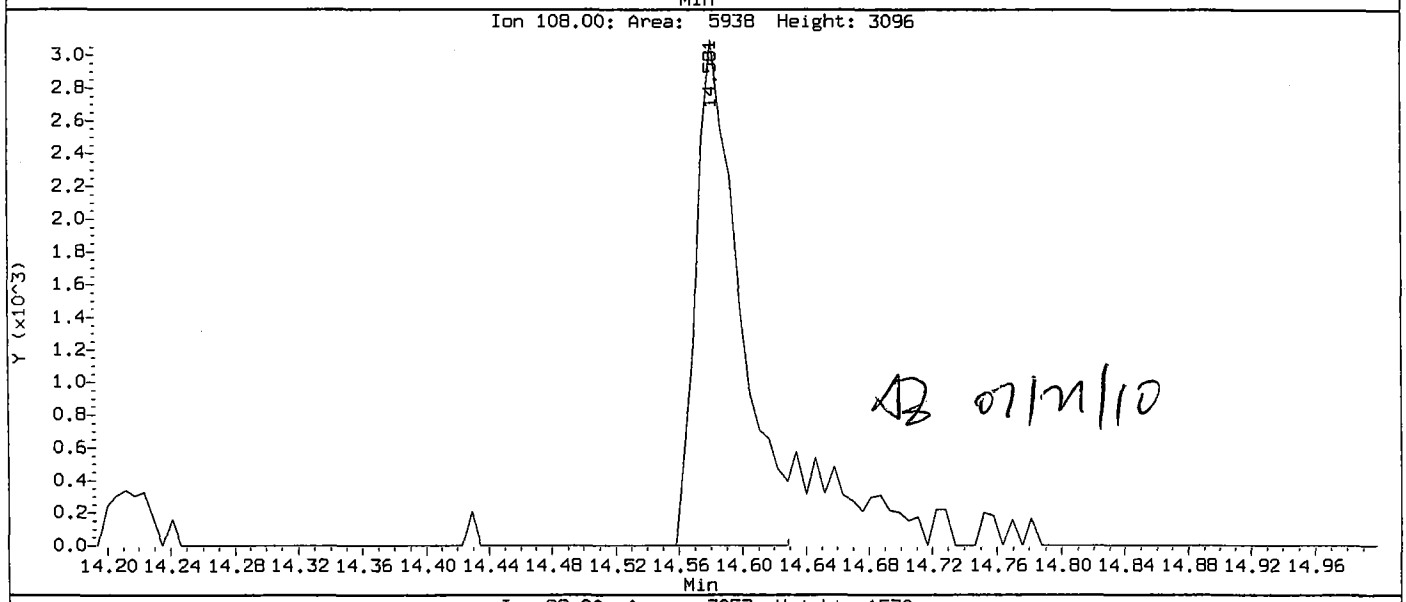
5. Other _____

Analyst: AD Date: 07/21/10

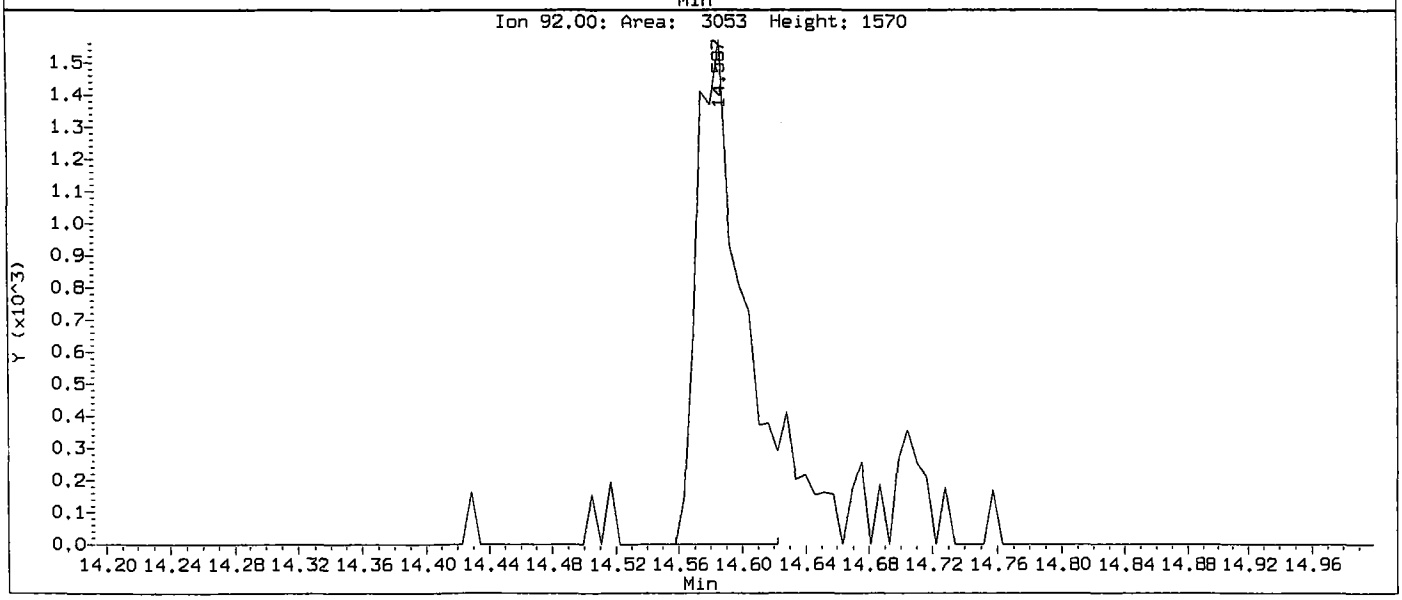
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 4-Nitroaniline
CAS Number: 100-01-6





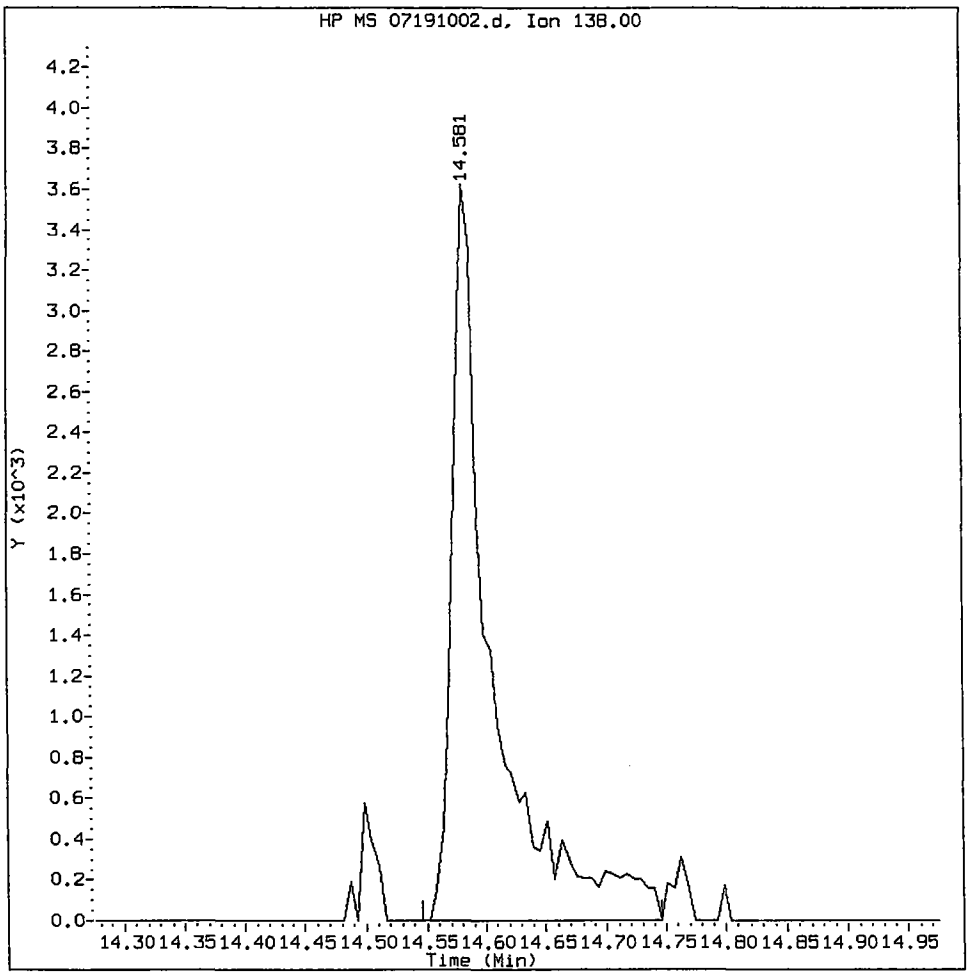
AB 07/21/10



RG78:00717

IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitroaniline Amount: 1.00 Area: 8559



MANUAL INTEGRATION for 4-Nitroaniline

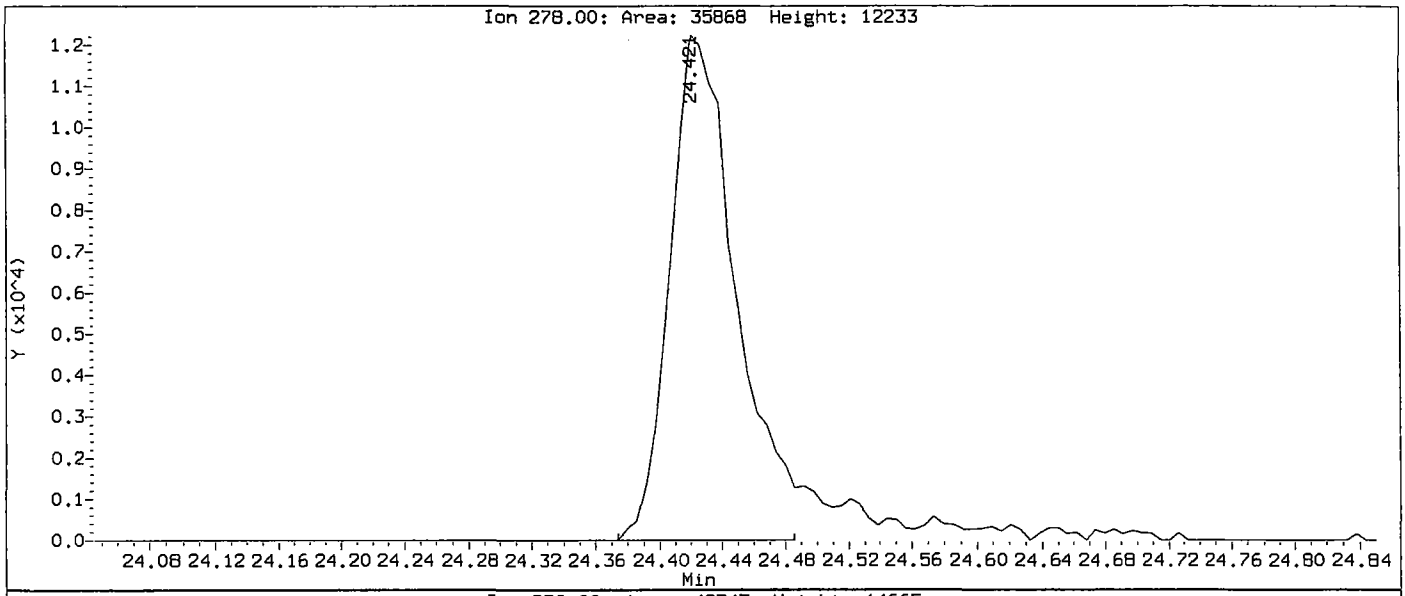
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

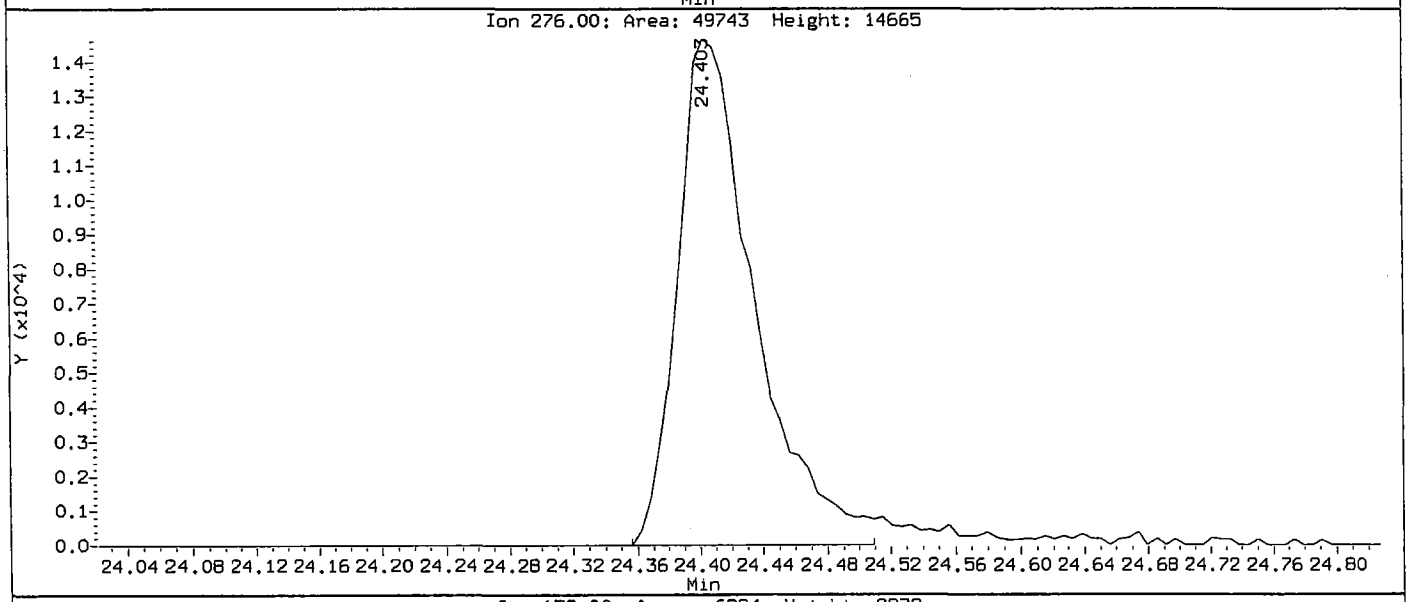
5. Other _____

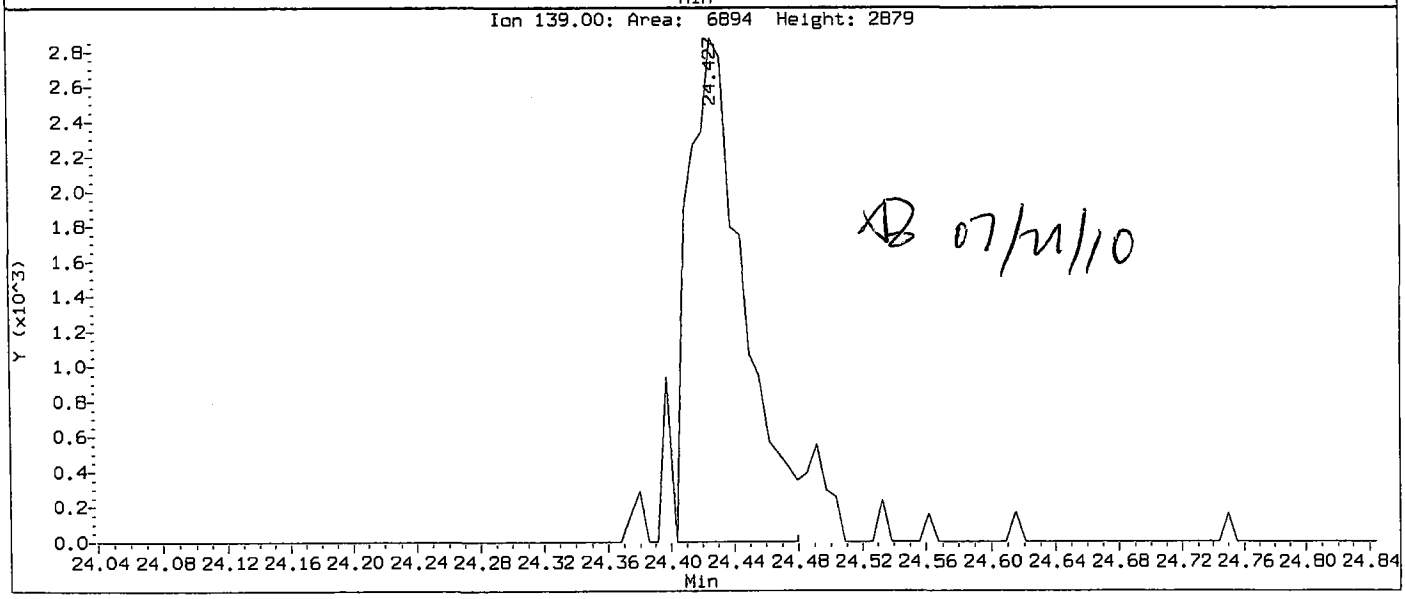
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3





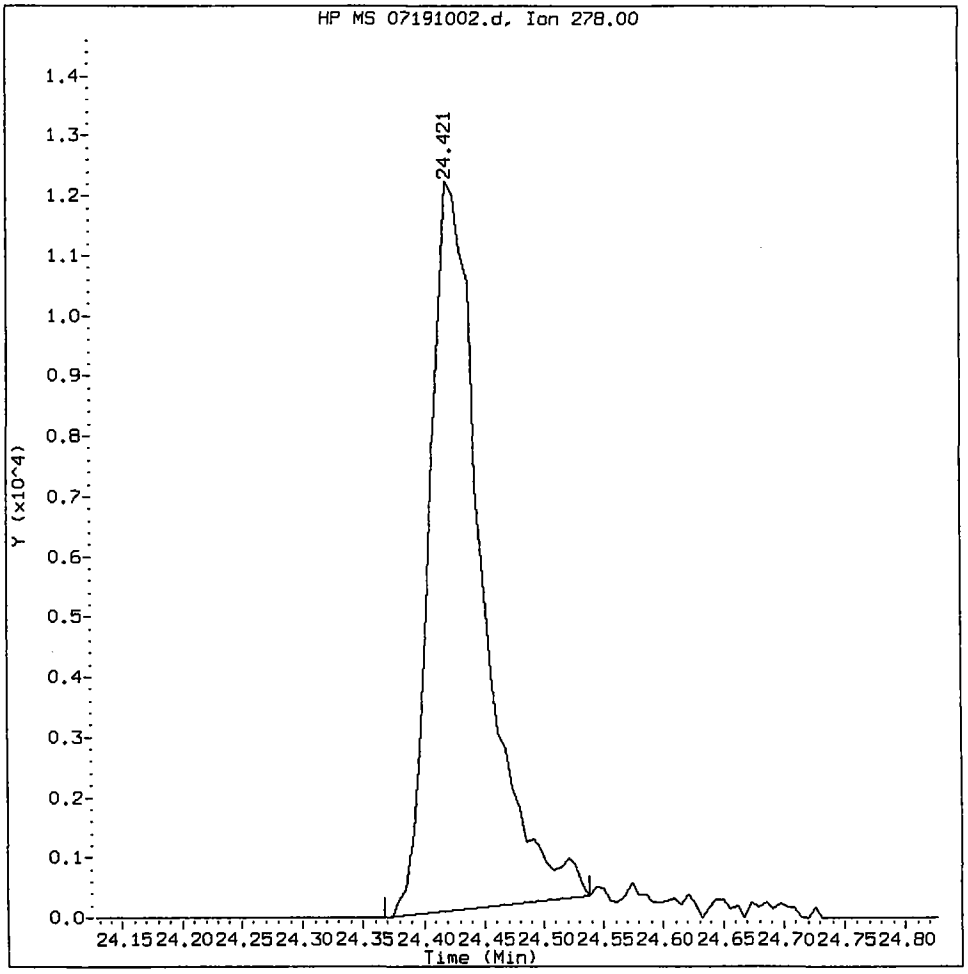


DB 07/21/10

RG78 : 00719

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Dibenzo(a,h)anthracene Amount: 1.00 Area: 36717



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

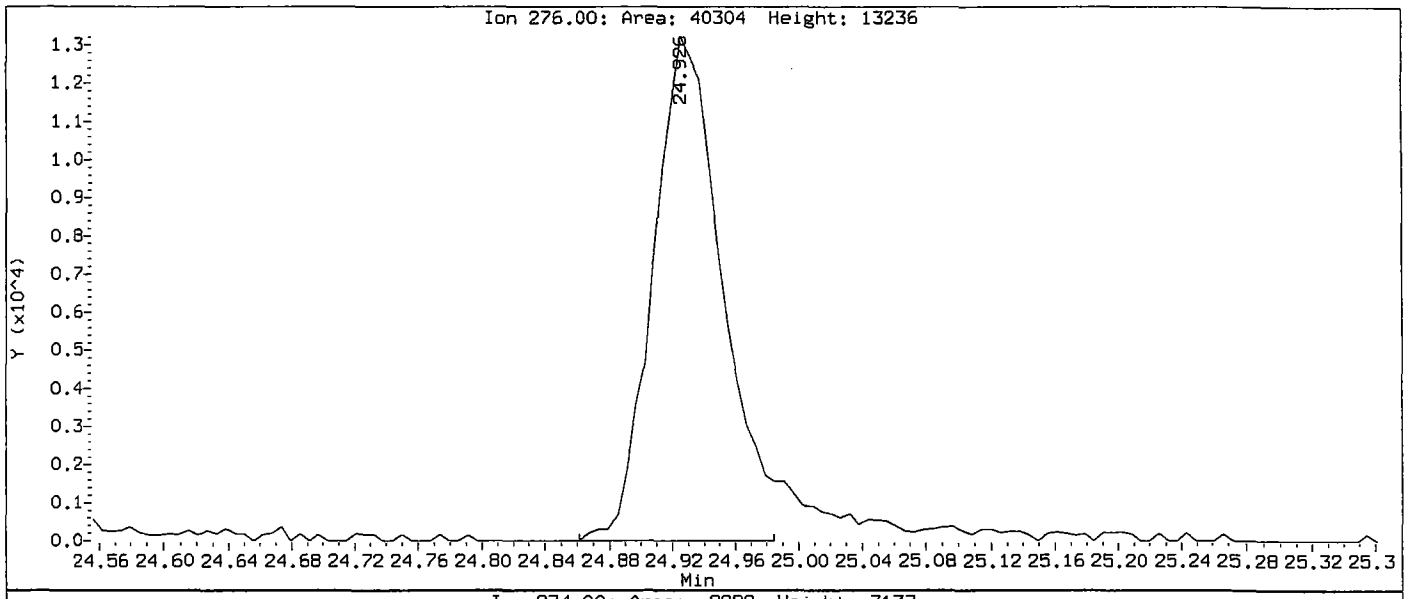
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

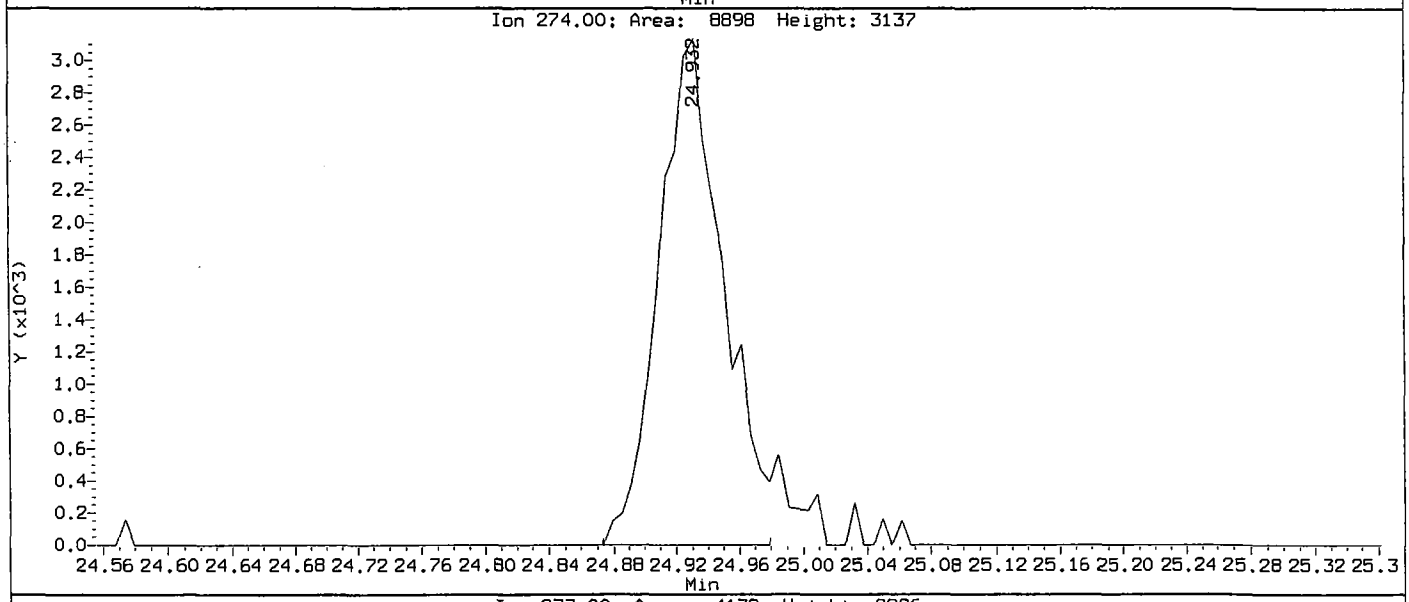
5. Other _____

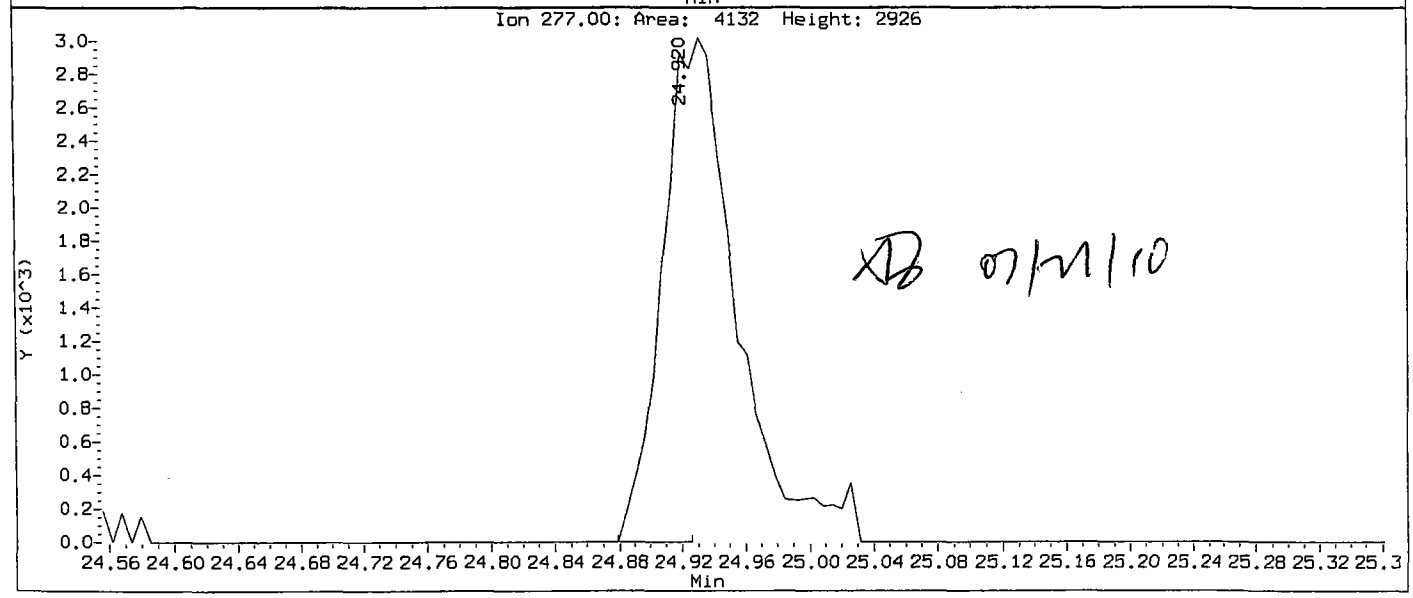
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





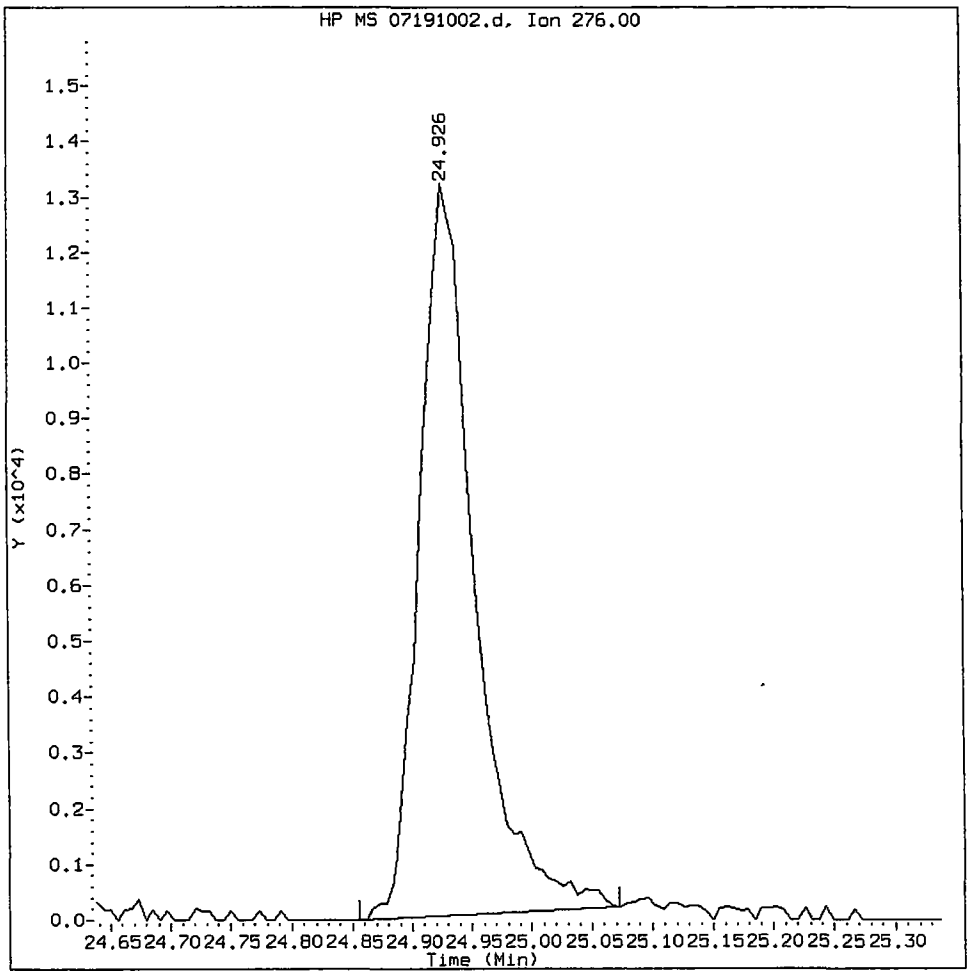


XB 07/21/10

RG78 : 00721

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzo(g,h,i)perylene Amount: 1.00 Area: 42342



MANUAL INTEGRATION for Benzo(g,h,i)perylene

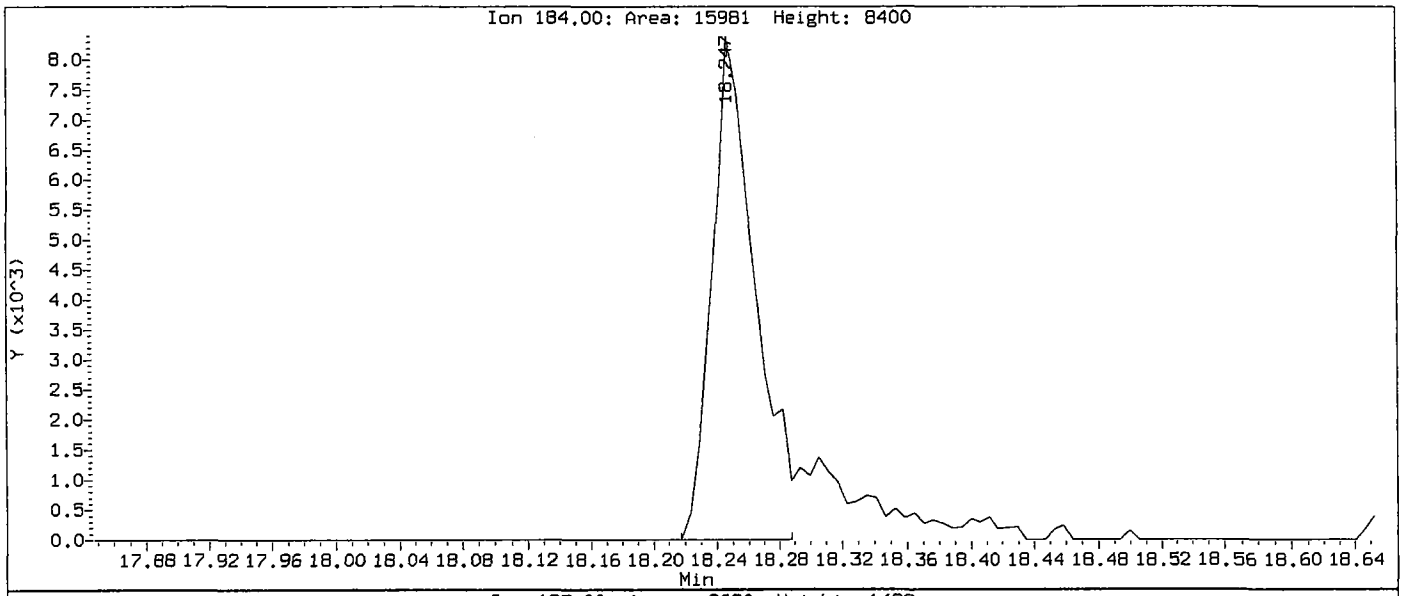
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

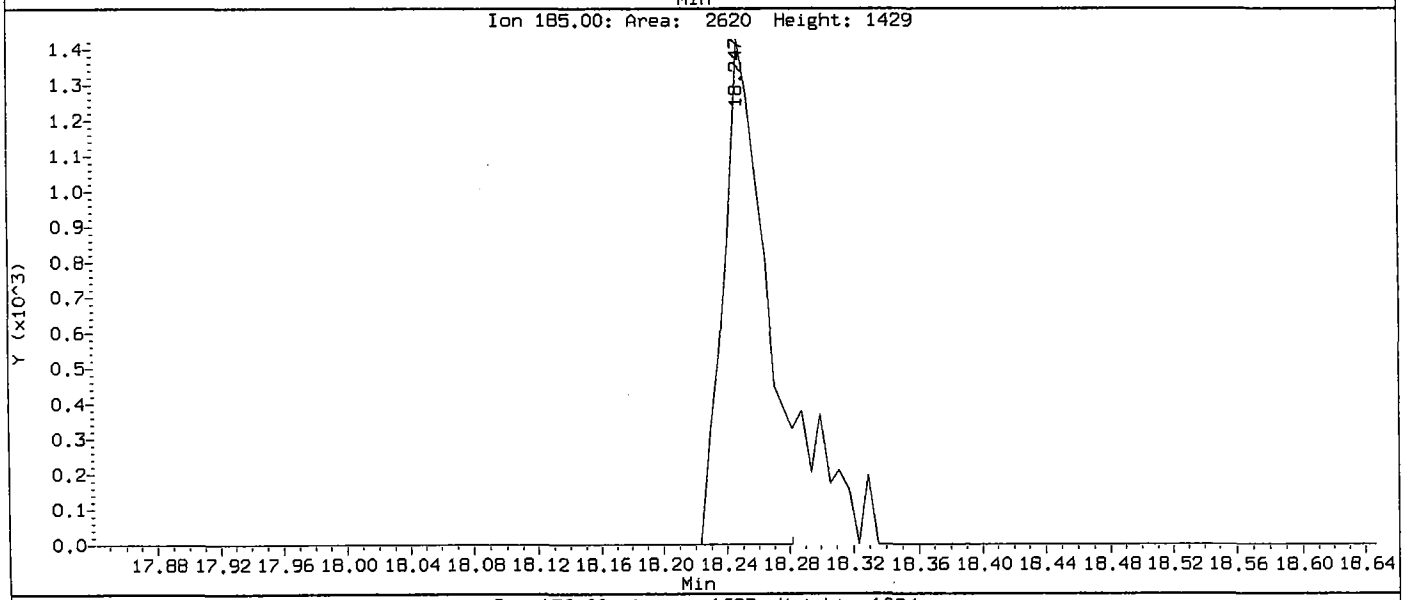
5. Other _____

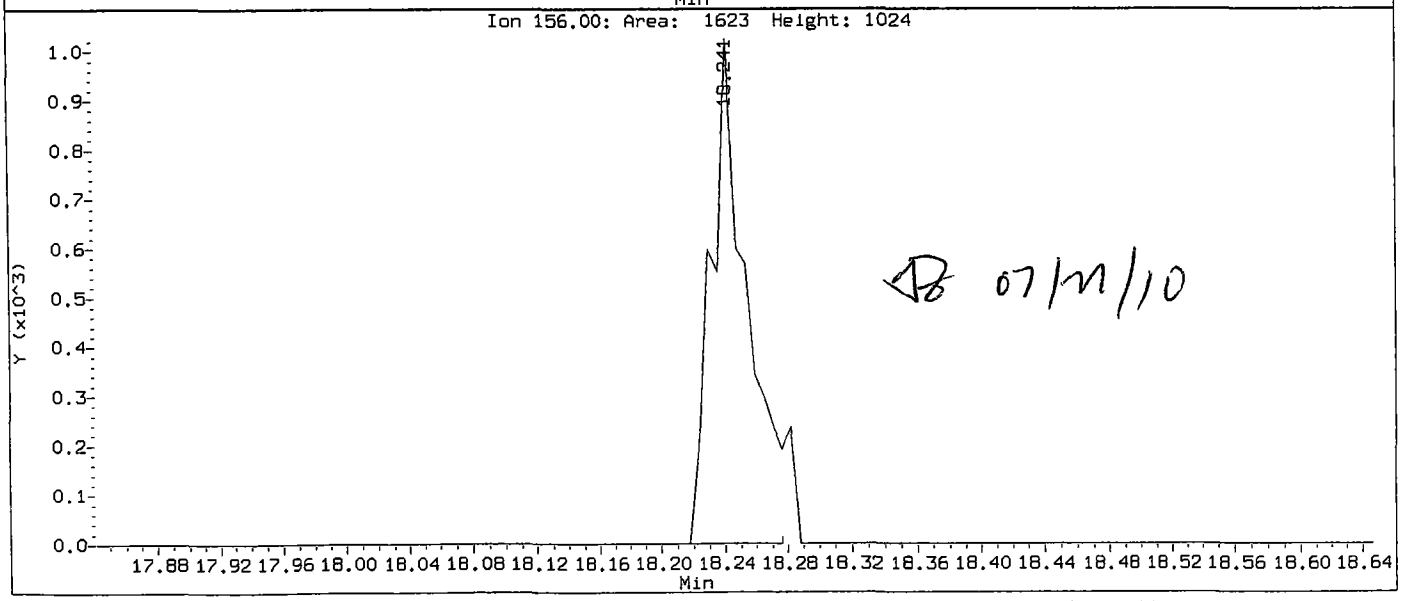
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzidine
CAS Number:





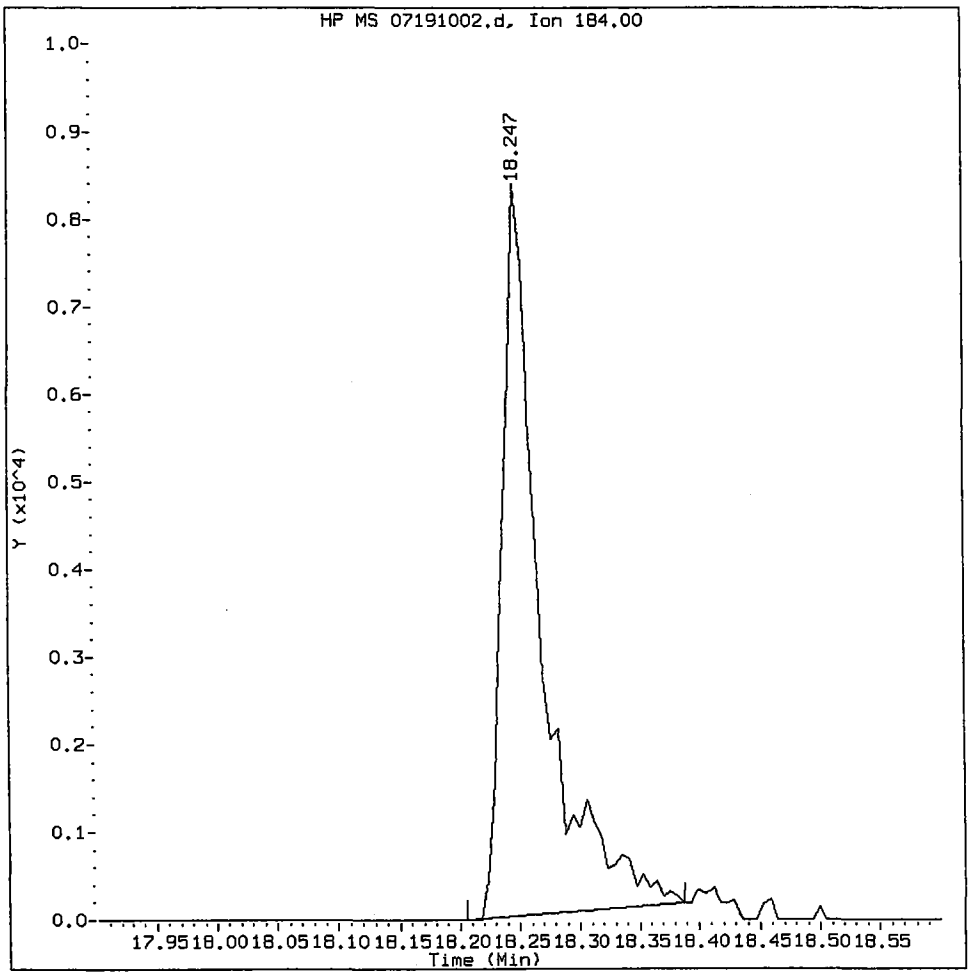


DB 07/21/10

RG78 : 00723

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzidine Amount: 1.00 Area: 18817



MANUAL INTEGRATION for Benzidine

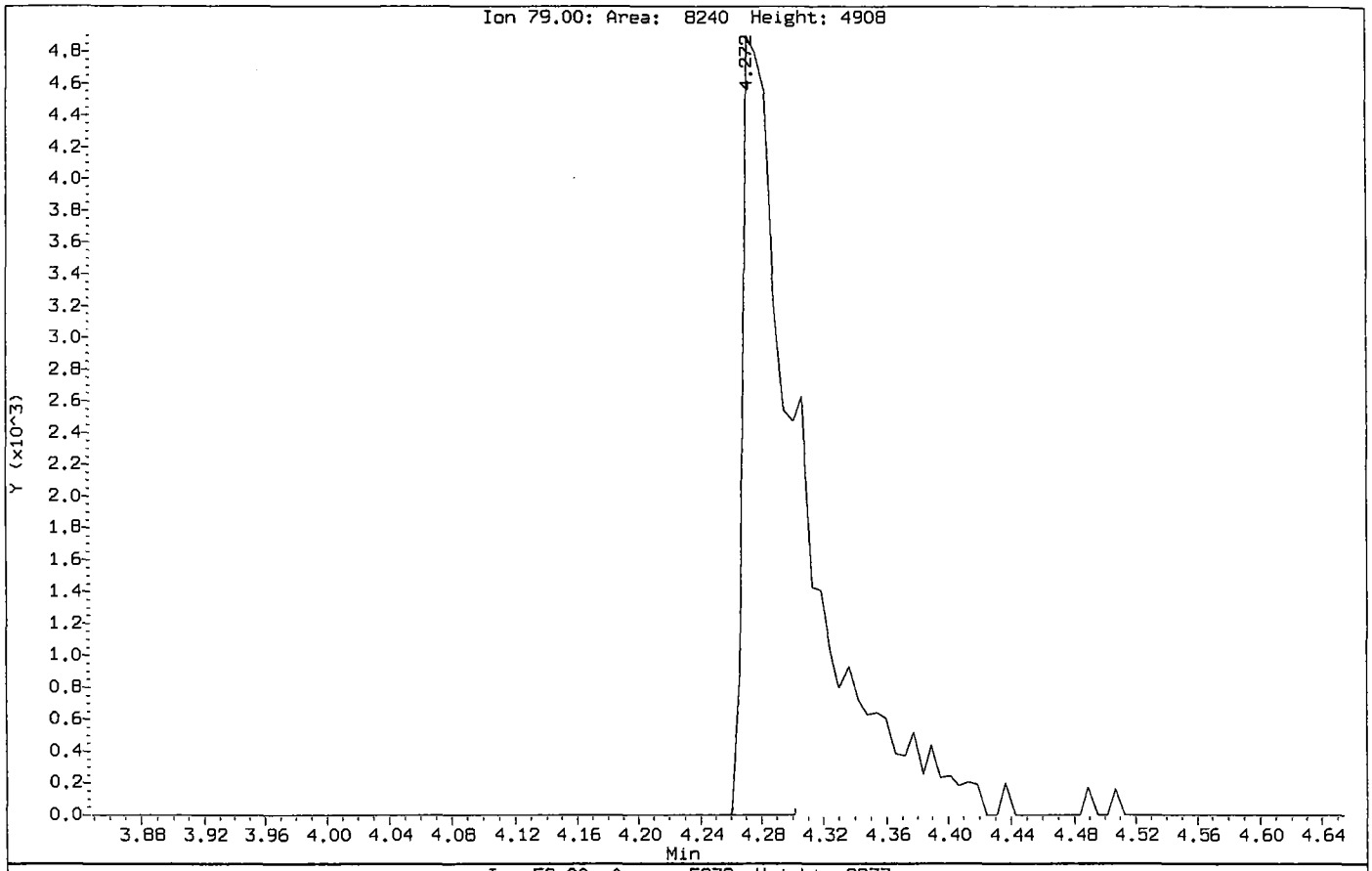
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

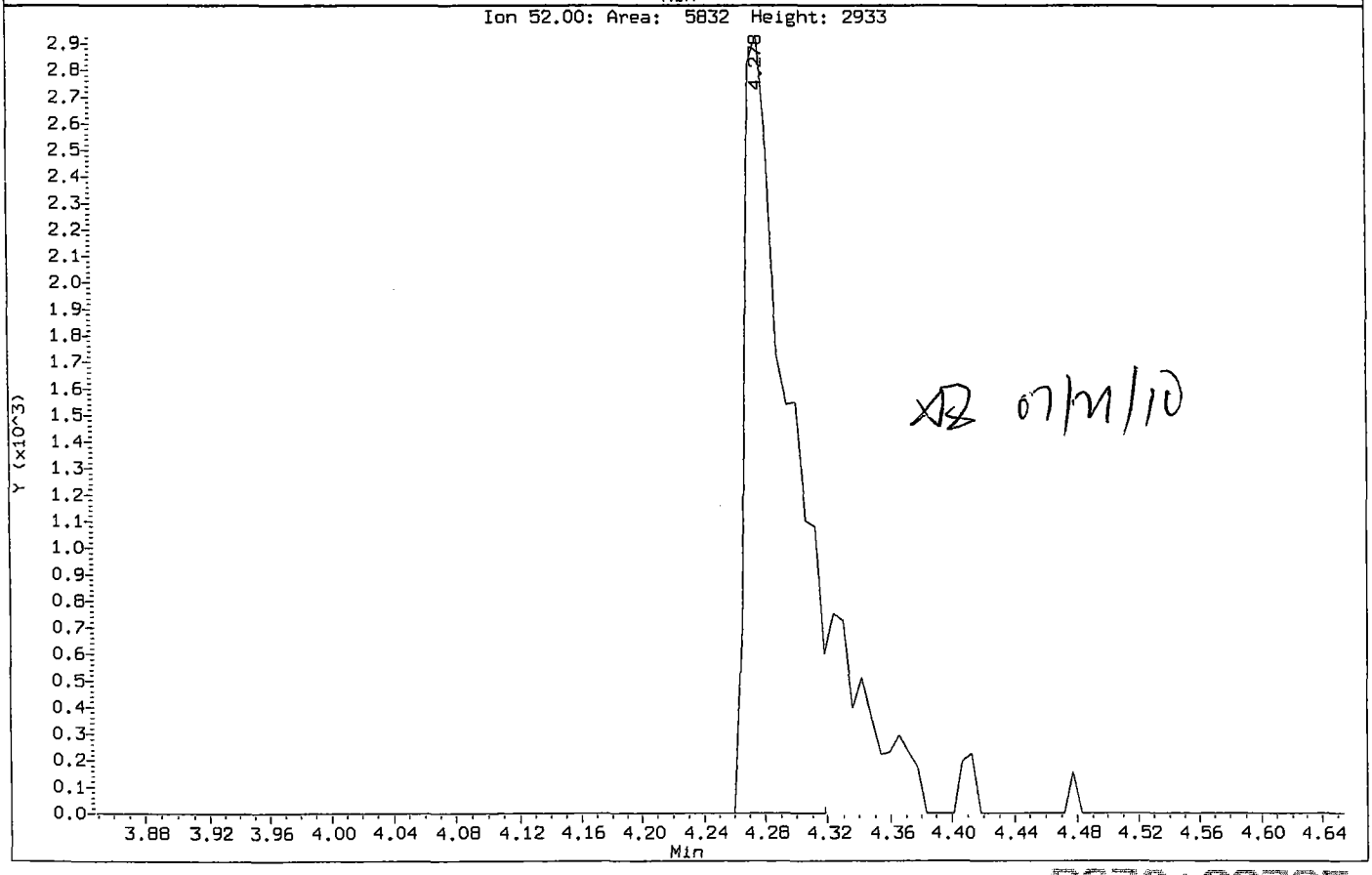
5. Other _____

Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Pyridine
CAS Number:

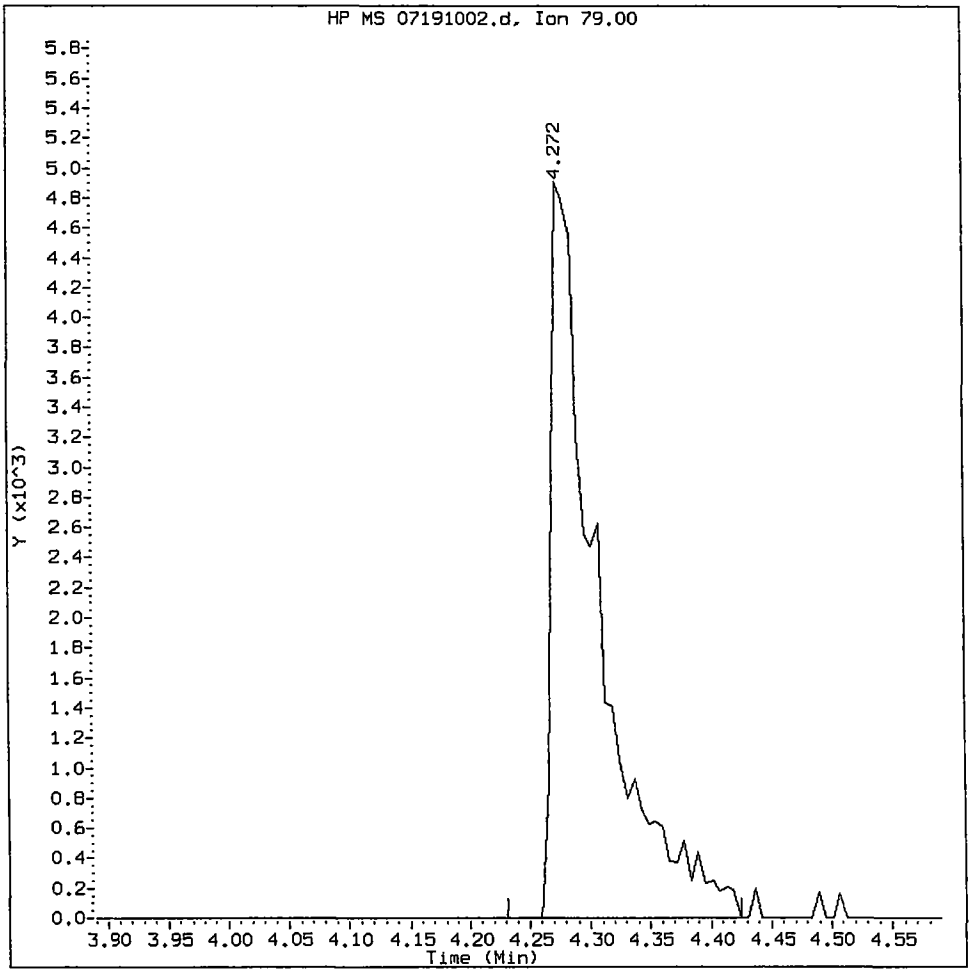




AB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Pyridine Amount: 1.00 Area: 13123



MANUAL INTEGRATION for Pyridine

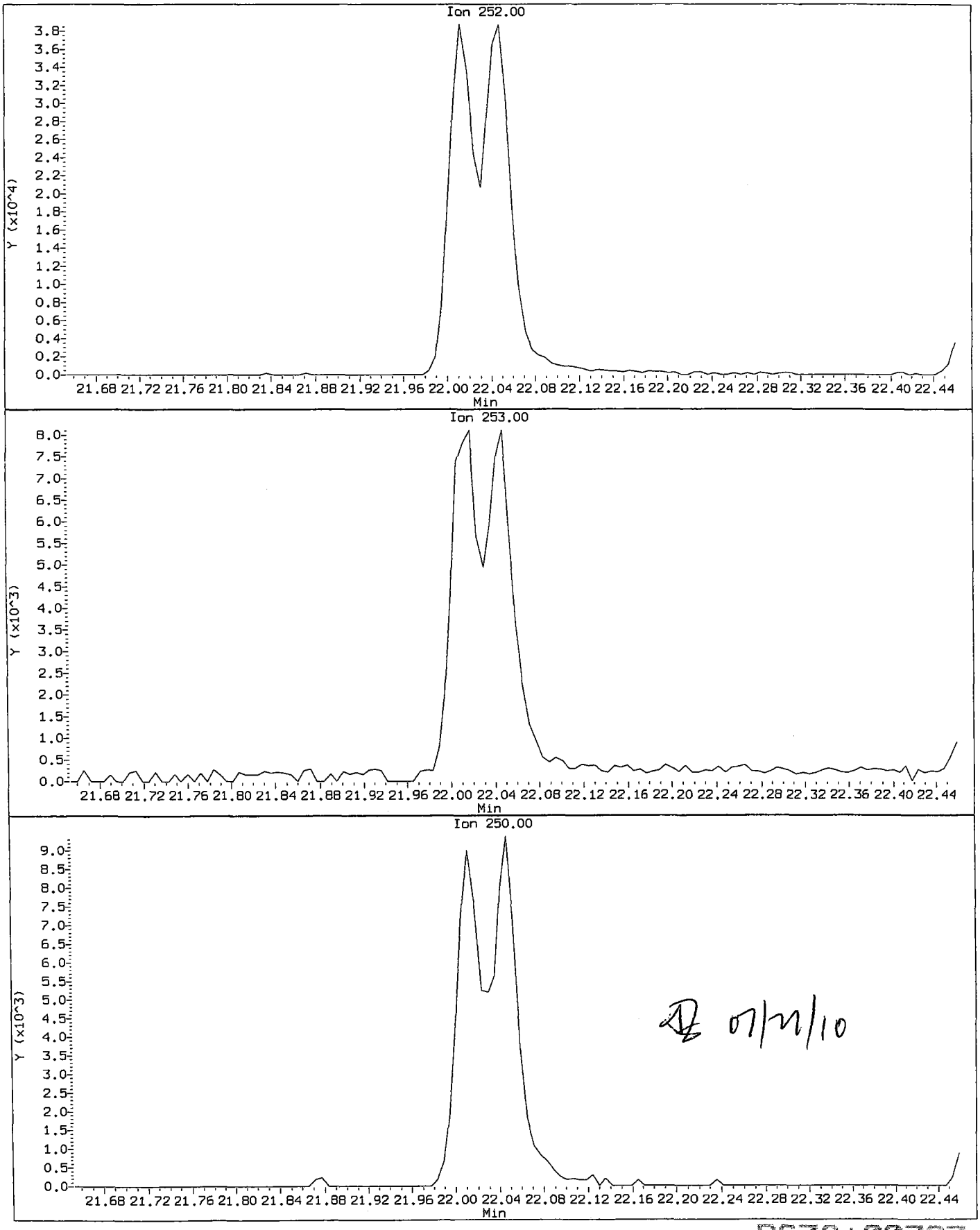
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/14/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Total Benzofluoranthenes
CAS Number:

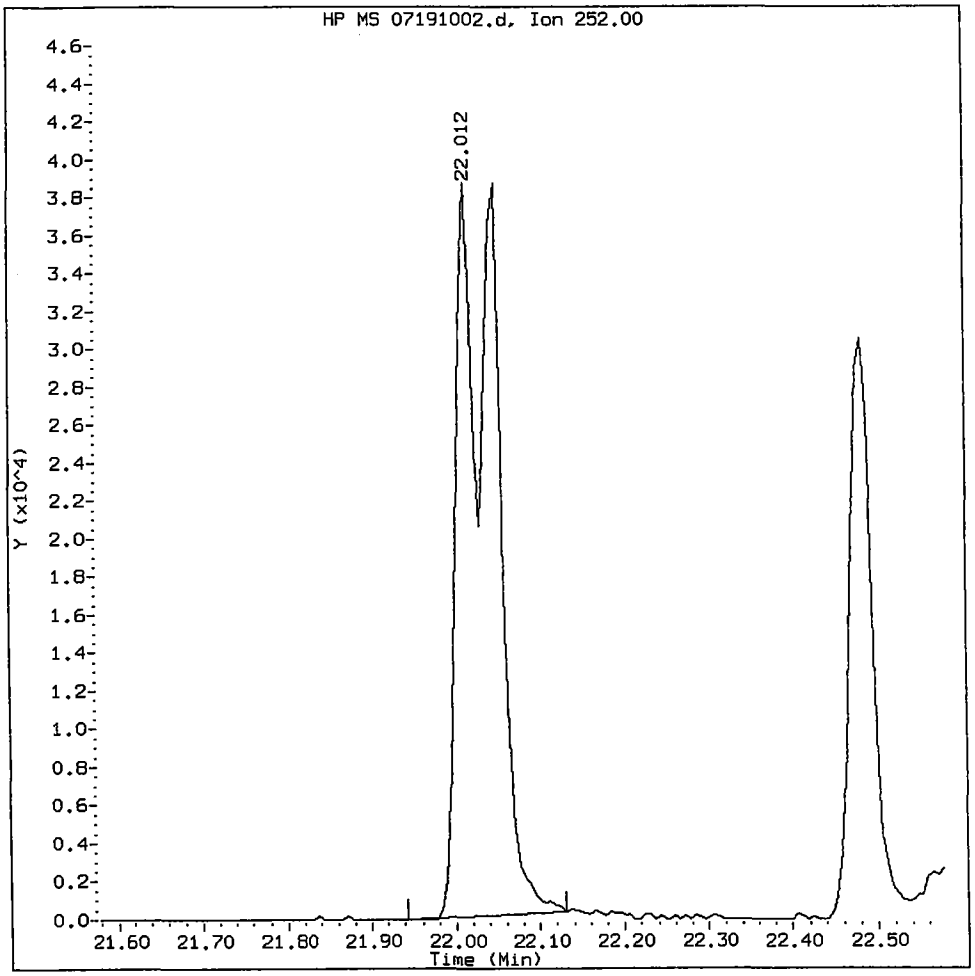


07/21/10

RG78 : 00727

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Total Benzofluoranthenes Amount: 2.00 Area: 123956



MANUAL INTEGRATION for Total Benzofluoranthenes

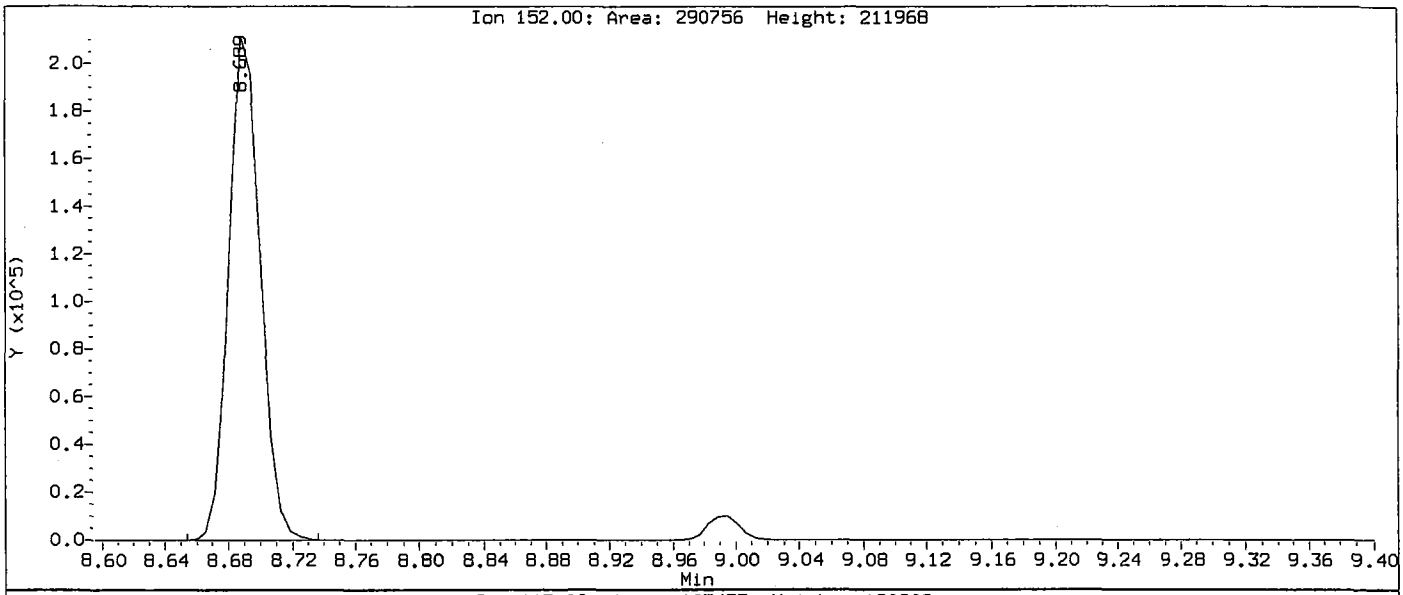
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

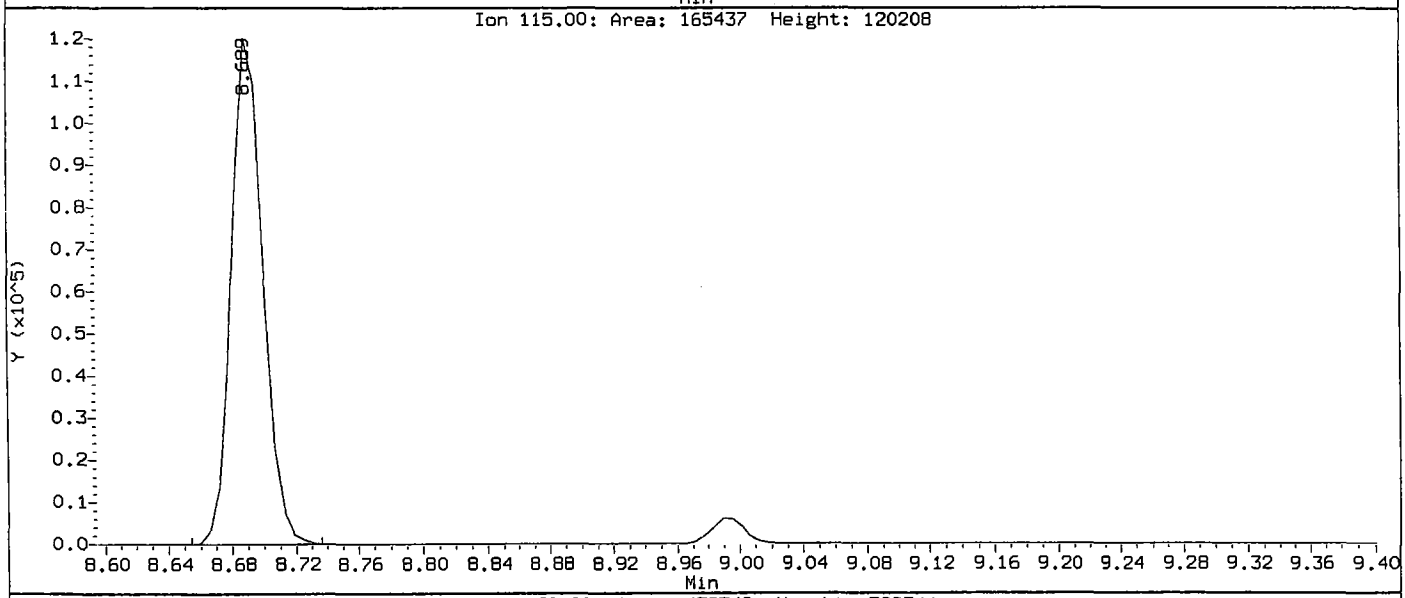
5. Other _____

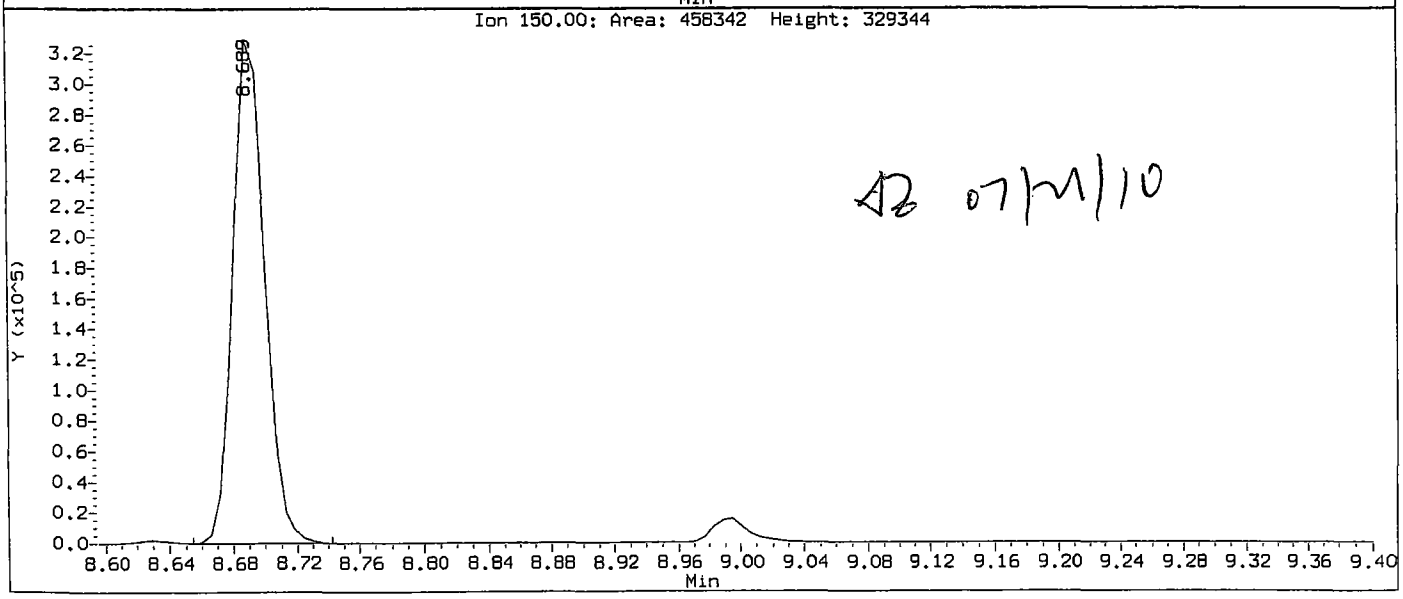
Analyst: AD Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 1,2-Dichlorobenzene-d4
CAS Number: 2199-69-1





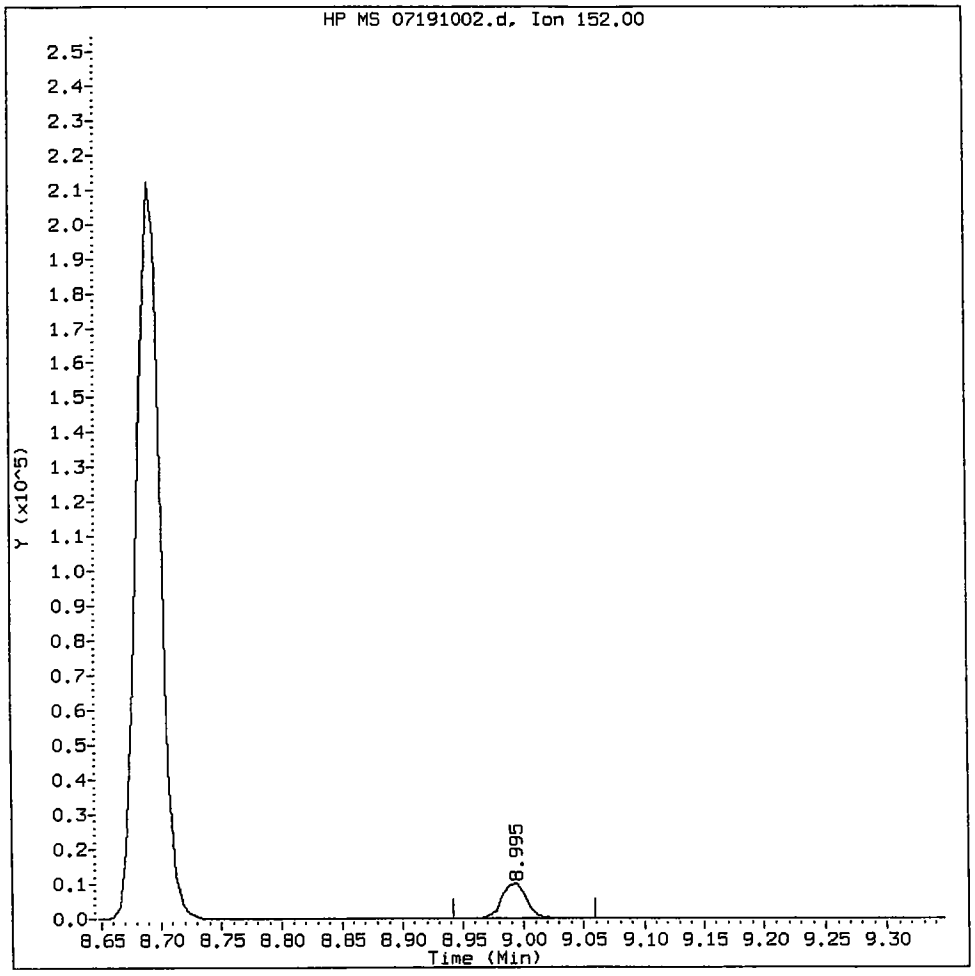


AB 07/21/10

RG78 : 00729

IC010719, /chem3/nt4.i/20100719.b/07191002.d

1,2-Dichlorobenzene-d4 Amount: 1.00 Area: 14140



MANUAL INTEGRATION for 1,2-Dichlorobenzene-d4

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT corrected

Analyst: _____ Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191003.d
Lab Smp Id: IC050719 Client Smp ID: IC050719
Inj Date : 19-JUL-2010 17:33
Operator : JZ Inst ID: nt4.i
Smp Info : IC050719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 17:33 Cal File: 07191003.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.724	6.737	(0.774)	78735	5.00000	4.912
$	2	Phenol-d5	99	8.210	8.229	(0.945)	78205	5.00000	5.059
	3	Phenol	94	8.228	8.252	(0.947)	104398	5.00000	4.945
$	5	2-Chlorophenol-d4	132	8.386	8.393	(0.965)	82652	5.00000	4.925
	4	Bis(2-Chloroethyl)ether	93	8.339	8.352	(0.959)	73772	5.00000	4.772
	6	2-Chlorophenol	128	8.410	8.423	(0.968)	95435	5.00000	4.973
	7	1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	105213	5.00000	4.676
*	8	1,4-Dichlorobenzene-d4	152	8.692	8.699	(1.000)	280196	20.0000	
	9	1,4-Dichlorobenzene	146	8.715	8.722	(1.003)	106033	5.00000	4.713
$	10	1,2-Dichlorobenzene-d4	152	8.991	8.998	(1.034)	64046	5.00000	4.845
	12	1,2-Dichlorobenzene	146	9.015	9.022	(1.037)	100850	5.00000	4.766
	11	Benzyl alcohol	108	8.944	8.969	(1.029)	63901	5.00000	5.000
	14	2,2'-oxybis(1-Chloropropane)	45	9.203	9.216	(1.059)	71419	5.00000	4.734
	13	2-Methylphenol	108	9.162	9.181	(1.054)	77789	5.00000	5.256
	17	Hexachloroethane	117	9.508	9.509	(1.094)	39059	5.00000	4.853
	16	N-Nitroso-di-n-propylamine	70	9.414	9.445	(1.083)	52329	5.00000	4.869
	15	4-Methylphenol	108	9.391	9.415	(1.080)	81439	5.00000	5.192
$	18	Nitrobenzene-d5	82	9.614	9.627	(0.895)	83867	5.00000	5.032
	19	Nitrobenzene	77	9.644	9.662	(0.898)	81864	5.00000	4.830
	20	Isophorone	82	10.014	10.038	(0.932)	131381	5.00000	4.745
	21	2-Nitrophenol	139	10.160	10.173	(0.946)	47132	5.00000	5.339
	22	2,4-Dimethylphenol	107	10.237	10.256	(0.953)	92317	5.00000	5.160
	23	Bis(2-Chloroethoxy)methane	93	10.390	10.408	(0.967)	91416	5.00000	4.707
	24	Benzoic acid	105	10.354	10.567	(0.964)	76277	10.0000	10.00
	25	2,4-Dichlorophenol	162	10.531	10.549	(0.980)	76474	5.00000	5.428
	26	1,2,4-Trichlorobenzene	180	10.677	10.684	(0.994)	85339	5.00000	4.773
*	27	Naphthalene-d8	136	10.742	10.749	(1.000)	1016171	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.771	10.784	(1.003)	258970	5.00000	4.633
	29 4-Chloroaniline	127	10.895	10.908	(1.014)	101792	5.00000	5.051
	30 Hexachlorobutadiene	225	11.083	11.084	(1.032)	47045	5.00000	4.599
	31 4-Chloro-3-methylphenol	107	11.688	11.701	(1.088)	68890	5.00000	5.708
	32 2-Methylnaphthalene	142	11.893	11.906	(1.107)	168353	5.00000	4.703
	33 Hexachlorocyclopentadiene	237	12.275	12.282	(0.901)	36180	5.00000	5.000
	34 2,4,6-Trichlorophenol	196	12.404	12.411	(0.910)	53574	5.00000	5.374
	35 2,4,5-Trichlorophenol	196	12.457	12.470	(0.914)	52498	5.00000	5.856
$	36 2-Fluorobiphenyl	172	12.534	12.541	(0.920)	199267	5.00000	4.763
	37 2-Chloronaphthalene	162	12.686	12.699	(0.931)	168111	5.00000	4.743
	38 2-Nitroaniline	65	12.904	12.923	(0.947)	27788	5.00000	5.681
	39 Dimethylphthalate	163	13.262	13.287	(0.973)	194622	5.00000	4.726
	40 Acenaphthylene	152	13.374	13.381	(0.981)	262580	5.00000	4.738
	41 2,6-Dinitrotoluene	165	13.362	13.387	(0.981)	41526	5.00000	5.326
*	42 Acenaphthene-d10	164	13.626	13.633	(1.000)	598563	20.0000	
	43 3-Nitroaniline	138	13.579	13.610	(0.997)	40739	5.00000	5.050
	44 Acenaphthene	153	13.673	13.686	(1.003)	164445	5.00000	4.688
	45 2,4-Dinitrophenol	184	13.744	13.780	(1.009)	10990	10.0000	10.00
	46 Dibenzofuran	168	13.938	13.951	(1.023)	223252	5.00000	4.755
	47 4-Nitrophenol	109	13.855	13.880	(1.017)	22195	5.00000	5.000
	48 2,4-Dinitrotoluene	165	13.996	14.021	(1.027)	52686	5.00000	5.501
	50 Diethylphthalate	149	14.419	14.438	(1.058)	204717	5.00000	4.651
	49 Fluorene	166	14.502	14.514	(1.064)	194472	5.00000	4.735
	51 4-Chlorophenyl-phenylether	204	14.508	14.514	(1.065)	92222	5.00000	4.701
	52 4-Nitroaniline	138	14.584	14.626	(1.070)	41882	5.00000	4.989
	53 4,6-Dinitro-2-methylphenol	198	14.660	14.697	(0.915)	44569	10.0000	10.00
	54 N-Nitrosodiphenylamine	169	14.707	14.732	(0.918)	142712	5.00000	4.860
$	55 2,4,6-Tribromophenol	330	14.925	14.937	(1.095)	21266	5.00000	5.568
	56 4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	50780	5.00000	4.886
	57 Hexachlorobenzene	284	15.536	15.548	(0.970)	52822	5.00000	4.645
	58 Pentachlorophenol	266	15.823	15.842	(0.988)	30827	5.00000	5.000
*	59 Phenanthrene-d10	188	16.023	16.036	(1.000)	1007780	20.0000	
	60 Phenanthrene	178	16.058	16.077	(1.002)	271669	5.00000	4.593
	61 Anthracene	178	16.135	16.153	(1.007)	278839	5.00000	4.659
	62 Carbazole	167	16.405	16.424	(1.024)	254700	5.00000	4.690
	63 Di-n-butylphthalate	149	17.086	17.093	(1.066)	334748	5.00000	4.886
	64 Fluoranthene	202	18.015	18.027	(1.124)	277298	5.00000	4.716
	65 Pyrene	202	18.379	18.397	(0.902)	291105	5.00000	4.608
$	66 Terphenyl-d14	244	18.667	18.674	(0.916)	179825	5.00000	4.663
	67 Butylbenzylphthalate	149	19.530	19.543	(0.958)	137881	5.00000	4.979
	68 Benzo(a)anthracene	228	20.347	20.365	(0.999)	265449	5.00000	4.631
*	69 Chrysene-d12	240	20.376	20.389	(1.000)	879562	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.335	20.348	(0.998)	88480	5.00000	5.218
	71 Chrysene	228	20.411	20.436	(1.002)	263806	5.00000	4.644
	72 bis(2-Ethylhexyl)phthalate	149	20.511	20.518	(0.956)	195395	5.00000	5.166
*	134 Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1375669	20.0000	
	73 Di-n-octylphthalate	149	21.457	21.470	(1.000)	361557	5.00000	4.537

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	74 Benzo(b)fluoranthene	252	22.015	22.040	(0.975)	281777	5.00000	4.793
	75 Benzo(k)fluoranthene	252	22.044	22.075	(0.977)	281647	5.00000	4.569
	187 Total Benzofluoranthenes	252	22.044	22.075	(0.977)	534883	10.0000	9.404
	76 Benzo(a)pyrene	252	22.485	22.510	(0.996)	240795	5.00000	4.722
*	77 Perylene-d12	264	22.573	22.580	(1.000)	872109	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.406	24.454	(1.081)	235258	5.00000	4.931
	79 Dibenzo(a,h)anthracene	278	24.429	24.477	(1.082)	188107	5.00000	5.131
	80 Benzo(g,h,i)perylene	276	24.929	24.989	(1.104)	196313	5.00000	4.881
	90 N-Nitrosodimethylamine	74	4.257	4.281	(0.490)	42007	5.00000	4.807
	103 Pyridine	79	4.245	4.240	(0.488)	66826	5.00000	5.138
	91 Aniline	93	8.240	8.252	(0.948)	108308	5.00000	4.815
	105 1-methylnaphthalene	142	12.070	12.082	(1.124)	161677	5.00000	4.629
	93 Benzidine	184	18.244	18.251	(0.895)	95796	5.00000	5.069
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.760	14.779	(1.083)	157755	5.00000	4.804
	143 1,4-Dioxane	88	3.487	3.494	(0.401)	27080	5.00000	
$	137 d8-1,4-Dioxane	96	3.417	3.424	(0.393)	28631	5.00000	
	151 1,2,4,5-Tetrachlorobenzene	216	12.234	12.247	(0.898)	81805	5.00000	4.737
	120 2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	42525	5.00000	5.269
	144 alpha-Terpineol	59	10.777	10.790	(1.003)	46405	5.00000	4.732
	98 Retene	219	18.925	18.932	(0.929)	92486	5.00000	4.782
	133 Butylatedhydroxytoluene	205	13.767	13.774	(1.010)	155768	5.00000	4.651
	115 Tributyl Phosphate	99	14.766	14.802	(0.922)	204221	5.00000	4.963
	116 Dibutyl Phenyl Phosphate	175	16.528	16.535	(1.032)	161048	5.00000	5.031
	117 Butyl Diphenyl Phosphate	94	18.232	18.245	(0.895)	43853	5.00000	4.912
	118 Triphenyl Phosphate	326	19.853	19.866	(0.974)	43306	5.00000	4.787
	123 Acetophenone	105	9.373	9.392	(0.873)	109435	5.00000	4.776
	179 n-Decane	57	8.498	8.505	(0.978)	57625	5.00000	4.716
	180 n-Octadecane	57	15.876	15.883	(0.991)	76689	5.00000	5.015
	168 Pentachlorobenzene	250	13.979	13.992	(1.026)	60444	5.00000	4.526
	113 Diphenyl Oxide	170	12.863	12.870	(0.944)	170904	5.00000	4.716
	112 Biphenyl	154	12.675	12.682	(0.930)	200895	5.00000	4.799
	110 Tetrachloroguaiacol	247	15.947	15.971	(0.995)	56098	10.0000	9.796
	109 3,4,5-Trichloroguaiacol	213	14.302	14.315	(0.893)	27754	5.00000	4.993
	181 3,4,6-Trichloroguaiacol	211	14.425	14.444	(0.900)	33397	5.00000	5.072
	108 4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	29137	5.00000	5.056
	184 3,4-Dichloroguaiacol	192	12.751	12.764	(0.936)	29266	5.00000	5.110
	107 4,5-Dichloroguaiacol	192	13.527	13.545	(0.993)	39384	5.00000	5.129
	182 4,6-Dichloroguaiacol	192	13.562	13.580	(0.995)	37541	5.00000	4.850
	185 4-Chloroguaiacol	115	11.653	11.660	(1.341)	19294	2.50000	2.552
	106 Guaiacol	124	9.632	9.645	(1.108)	77212	5.00000	4.885

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191003.d
Lab Smp Id: IC050719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC050719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	280196	-21.40
27 Naphthalene-d8	1293412	646706	2586824	1016171	-21.43
42 Acenaphthene-d10	785897	392948	1571794	598563	-23.84
59 Phenanthrene-d10	1313990	656995	2627980	1007780	-23.30
69 Chrysene-d12	1155293	577646	2310586	879562	-23.87
134 Di-n-octylphthala	1825297	912648	3650594	1375669	-24.63
77 Perylene-d12	1146289	573144	2292578	872109	-23.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.07
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.04
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.03

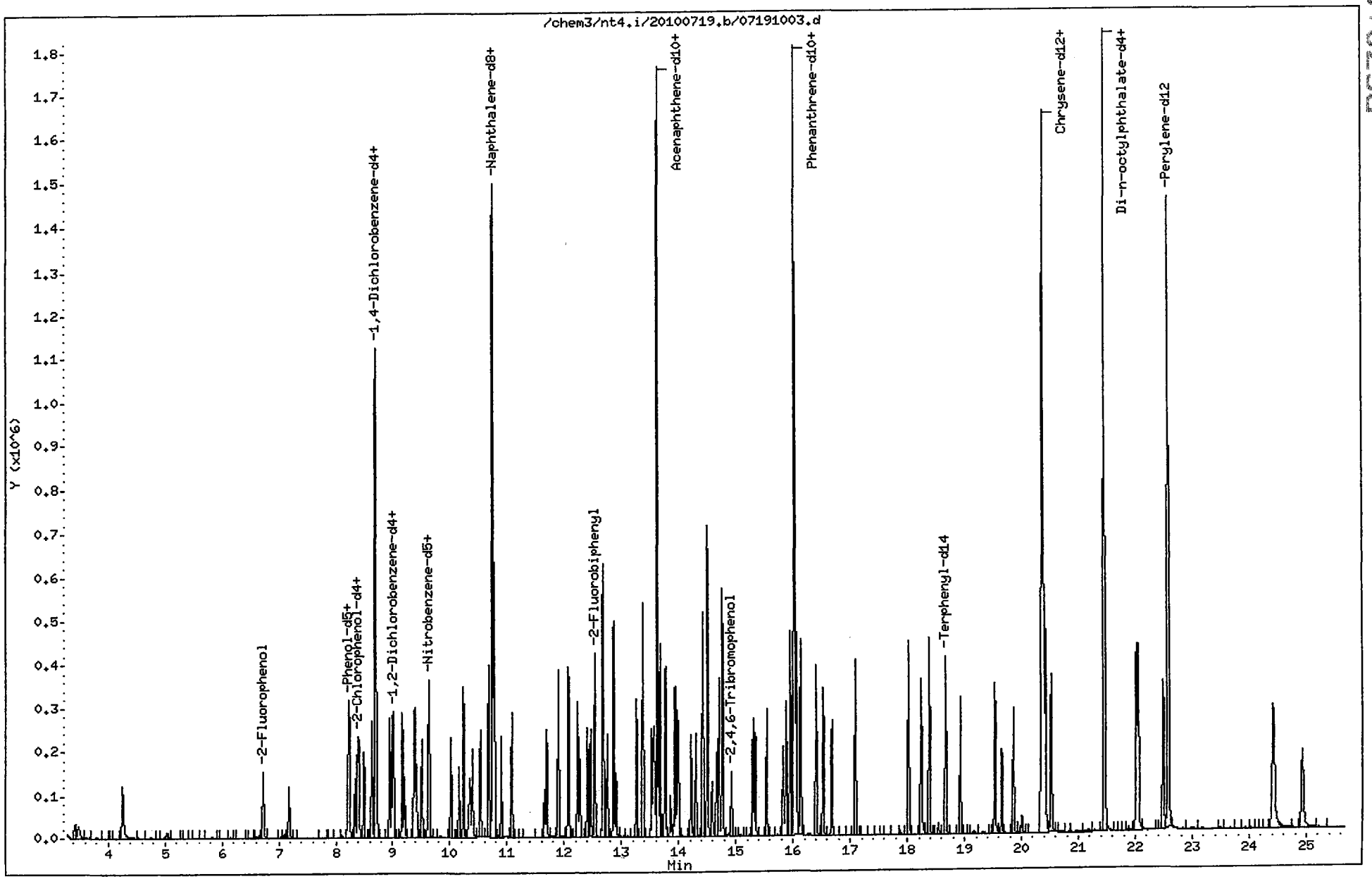
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191003.d
Date : 19-JUL-2010 17:33
Client ID: IC050719
Sample Info: IC050719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RG78:00735

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191004.d
Lab Smp Id: IC100719 Client Smp ID: IC100719
Inj Date : 19-JUL-2010 18:07
Operator : JZ Inst ID: nt4.i
Smp Info : IC100719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:07 Cal File: 07191004.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.731	6.737	(0.774)	195589	10.0000	9.194
$	2 Phenol-d5	99	8.212	8.229	(0.945)	197945	10.0000	9.506
	3 Phenol	94	8.229	8.252	(0.947)	279288	10.0000	9.719
$	5 2-Chlorophenol-d4	132	8.388	8.393	(0.965)	210444	10.0000	9.370
	4 Bis(2-Chloroethyl)ether	93	8.341	8.352	(0.959)	199065	10.0000	9.541
	6 2-Chlorophenol	128	8.412	8.423	(0.968)	264045	10.0000	9.978
	7 1,3-Dichlorobenzene	146	8.635	8.640	(0.993)	290331	10.0000	9.556
*	8 1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	386803	20.0000	
	9 1,4-Dichlorobenzene	146	8.717	8.722	(1.003)	296132	10.0000	9.685
$	10 1,2-Dichlorobenzene-d4	152	8.993	8.998	(1.034)	155193	10.0000	8.951
	12 1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	273270	10.0000	9.561
	11 Benzyl alcohol	108	8.952	8.969	(1.030)	154068	10.0000	9.323
	14 2,2'-oxybis(1-Chloropropane)	45	9.205	9.216	(1.059)	191814	10.0000	9.459
	13 2-Methylphenol	108	9.164	9.181	(1.054)	215302	10.0000	10.35
	17 Hexachloroethane	117	9.504	9.509	(1.093)	107610	10.0000	9.788
	16 N-Nitroso-di-n-propylamine	70	9.422	9.445	(1.084)	139869	10.0000	9.611
	15 4-Methylphenol	108	9.393	9.415	(1.080)	216352	10.0000	9.995
$	18 Nitrobenzene-d5	82	9.616	9.627	(0.895)	207435	10.0000	9.663
	19 Nitrobenzene	77	9.645	9.662	(0.898)	213986	10.0000	9.758
	20 Isophorone	82	10.015	10.038	(0.932)	349735	10.0000	9.760
	21 2-Nitrophenol	139	10.162	10.173	(0.946)	135384	10.0000	11.08
	22 2,4-Dimethylphenol	107	10.239	10.256	(0.953)	245541	10.0000	10.32
	23 Bis(2-Chloroethoxy)methane	93	10.391	10.408	(0.967)	242519	10.0000	9.686
	24 Benzoic acid	105	10.397	10.567	(0.968)	295968	20.0000	23.88
	25 2,4-Dichlorophenol	162	10.538	10.549	(0.981)	215361	10.0000	11.06
	26 1,2,4-Trichlorobenzene	180	10.679	10.684	(0.994)	225136	10.0000	9.740
*	27 Naphthalene-d8	136	10.744	10.749	(1.000)	1330824	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.773	10.784	(1.003)	675065	10.0000	9.468
	29 4-Chloroaniline	127	10.896	10.908	(1.014)	267945	10.0000	10.10
	30 Hexachlorobutadiene	225	11.084	11.084	(1.032)	128941	10.0000	9.747
	31 4-Chloro-3-methylphenol	107	11.690	11.701	(1.088)	198573	10.0000	11.57
	32 2-Methylnaphthalene	142	11.895	11.906	(1.107)	441444	10.0000	9.604
	33 Hexachlorocyclopentadiene	237	12.277	12.282	(0.901)	115371	10.0000	10.84
	34 2,4,6-Trichlorophenol	196	12.400	12.411	(0.910)	149916	10.0000	10.75
	35 2,4,5-Trichlorophenol	196	12.459	12.470	(0.914)	153093	10.0000	11.64
$	36 2-Fluorobiphenyl	172	12.535	12.541	(0.920)	472954	10.0000	8.873
	37 2-Chloronaphthalene	162	12.682	12.699	(0.931)	448480	10.0000	9.592
	38 2-Nitroaniline	65	12.906	12.923	(0.947)	90139	10.0000	12.19
	39 Dimethylphthalate	163	13.264	13.287	(0.973)	531928	10.0000	9.727
	40 Acenaphthylene	152	13.370	13.381	(0.981)	706222	10.0000	9.638
	41 2,6-Dinitrotoluene	165	13.364	13.387	(0.981)	120276	10.0000	10.93
*	42 Acenaphthene-d10	164	13.628	13.633	(1.000)	805701	20.0000	
	43 3-Nitroaniline	138	13.587	13.610	(0.997)	117521	10.0000	10.53
	44 Acenaphthene	153	13.675	13.686	(1.003)	447973	10.0000	9.653
	45 2,4-Dinitrophenol	184	13.751	13.780	(1.009)	84130	20.0000	29.59
	46 Dibenzofuran	168	13.939	13.951	(1.023)	603633	10.0000	9.696
	47 4-Nitrophenol	109	13.857	13.880	(1.017)	72927	10.0000	10.99
	48 2,4-Dinitrotoluene	165	13.998	14.021	(1.027)	161965	10.0000	11.57
	50 Diethylphthalate	149	14.421	14.438	(1.058)	568753	10.0000	9.730
	49 Fluorene	166	14.497	14.514	(1.064)	529962	10.0000	9.720
	51 4-Chlorophenyl-phenylether	204	14.509	14.514	(1.065)	248604	10.0000	9.602
	52 4-Nitroaniline	138	14.586	14.626	(1.070)	109583	10.0000	9.797
	53 4,6-Dinitro-2-methylphenol	198	14.662	14.697	(0.915)	167601	20.0000	23.46
	54 N-Nitrosodiphenylamine	169	14.709	14.732	(0.918)	390380	10.0000	10.02
$	55 2,4,6-Tribromophenol	330	14.920	14.937	(1.095)	56765	10.0000	10.67
	56 4-Bromophenyl-phenylether	248	15.296	15.308	(0.955)	140953	10.0000	10.15
	57 Hexachlorobenzene	284	15.537	15.548	(0.970)	142687	10.0000	9.639
	58 Pentachlorophenol	266	15.825	15.842	(0.988)	92866	10.0000	10.64
*	59 Phenanthrene-d10	188	16.025	16.036	(1.000)	1335679	20.0000	
	60 Phenanthrene	178	16.060	16.077	(1.002)	723729	10.0000	9.474
	61 Anthracene	178	16.136	16.153	(1.007)	750646	10.0000	9.636
	62 Carbazole	167	16.407	16.424	(1.024)	660077	10.0000	9.431
	63 Di-n-butylphthalate	149	17.088	17.093	(1.066)	906961	10.0000	9.993
	64 Fluoranthene	202	18.016	18.027	(1.124)	764738	10.0000	9.875
	65 Pyrene	202	18.380	18.397	(0.902)	787792	10.0000	9.358
$	66 Terphenyl-d14	244	18.662	18.674	(0.916)	448627	10.0000	8.916
	67 Butylbenzylphthalate	149	19.532	19.543	(0.958)	418550	10.0000	10.64
	68 Benzo(a)anthracene	228	20.348	20.365	(0.999)	750485	10.0000	9.673
*	69 Chrysene-d12	240	20.378	20.389	(1.000)	1209826	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.337	20.348	(0.998)	255812	10.0000	10.62
	71 Chrysene	228	20.413	20.436	(1.002)	734332	10.0000	9.591
	72 bis(2-Ethylhexyl)phthalate	149	20.513	20.518	(0.956)	588126	10.0000	10.78
*	134 Di-n-octylphthalate-d4	153	21.447	21.458	(1.000)	1905755	20.0000	
	73 Di-n-octylphthalate	149	21.459	21.470	(1.001)	1013433	10.0000	9.438

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.017	22.040	(0.975)	783710	10.0000	9.824
75	Benzo(k)fluoranthene	252	22.046	22.075	(0.977)	795376	10.0000	9.609
187	Total Benzofluoranthenes	252	22.046	22.075	(0.977)	1484981	20.0000	19.37
76	Benzo(a)pyrene	252	22.481	22.510	(0.996)	675517	10.0000	9.782
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1193862	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.413	24.454	(1.081)	713289	10.0000	10.60
79	Dibenzo(a,h)anthracene	278	24.431	24.477	(1.082)	577618	10.0000	10.96
80	Benzo(g,h,i)perylene	276	24.936	24.989	(1.105)	629032	10.0000	10.91
90	N-Nitrosodimethylamine	74	4.276	4.281	(0.492)	109696	10.0000	9.377
103	Pyridine	79	4.258	4.240	(0.490)	201572	10.0000	10.79
91	Aniline	93	8.241	8.252	(0.948)	288356	10.0000	9.513
105	1-methylnaphthalene	142	12.071	12.082	(1.124)	428993	10.0000	9.576
93	Benzidine	184	18.245	18.251	(0.895)	250888	10.0000	9.765
111	Azobenzene (1,2-DP-Hydrazine)	77	14.762	14.779	(1.083)	427139	10.0000	9.774
143	1,4-Dioxane	88	3.512	3.494	(0.404)	74401	10.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	76835	10.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.236	12.247	(0.898)	205530	10.0000	9.197
120	2,3,4,6-Tetrachlorophenol	232	14.210	14.221	(1.043)	123547	10.0000	10.87
144	alpha-Terpineol	59	10.773	10.790	(1.003)	115158	10.0000	9.287
98	Retene	219	18.921	18.932	(0.928)	253770	10.0000	9.689
133	Butylatedhydroxytoluene	205	13.763	13.774	(1.010)	400152	10.0000	9.222
115	Tributyl Phosphate	99	14.768	14.802	(0.922)	550197	10.0000	10.06
116	Dibutyl Phenyl Phosphate	175	16.524	16.535	(1.031)	428511	10.0000	10.07
117	Butyl Diphenyl Phosphate	94	18.234	18.245	(0.895)	121912	10.0000	9.952
118	Triphenyl Phosphate	326	19.855	19.866	(0.974)	122543	10.0000	9.898
123	Acetophenone	105	9.375	9.392	(0.873)	298771	10.0000	9.971
179	n-Decane	57	8.500	8.505	(0.978)	160692	10.0000	9.679
180	n-Octadecane	57	15.878	15.883	(0.991)	200941	10.0000	9.943
168	Pentachlorobenzene	250	13.981	13.992	(1.026)	169400	10.0000	9.608
113	Diphenyl Oxide	170	12.864	12.870	(0.944)	439084	10.0000	9.312
112	Biphenyl	154	12.671	12.682	(0.930)	521643	10.0000	9.492
110	Tetrachloroguaiacol	247	15.948	15.971	(0.995)	158817	20.0000	20.61
109	3,4,5-Trichloroguaiacol	213	14.304	14.315	(0.893)	82226	10.0000	10.74
181	3,4,6-Trichloroguaiacol	211	14.427	14.444	(0.900)	98454	10.0000	10.82
108	4,5,6-Trichloroguaiacol	213	15.338	15.349	(0.957)	85057	10.0000	10.73
184	3,4-Dichloroguaiacol	192	12.753	12.764	(0.936)	81053	10.0000	10.34
107	4,5-Dichloroguaiacol	192	13.528	13.545	(0.993)	114248	10.0000	10.68
182	4,6-Dichloroguaiacol	192	13.563	13.580	(0.995)	102418	10.0000	9.886
185	4-Chloroguaiacol	115	11.648	11.660	(1.340)	56264	5.00000	5.254
106	Guaiacol	124	9.633	9.645	(1.108)	201151	10.0000	9.466

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191004.d
Lab Smp Id: IC100719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC100719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	386803	8.51
27 Naphthalene-d8	1293412	646706	2586824	1330824	2.89
42 Acenaphthene-d10	785897	392948	1571794	805701	2.52
59 Phenanthrene-d10	1313990	656995	2627980	1335679	1.65
69 Chrysene-d12	1155293	577646	2310586	1209826	4.72
134 Di-n-octylphthala	1825297	912648	3650594	1905755	4.41
77 Perylene-d12	1146289	573144	2292578	1193862	4.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.05
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.01
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.01
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.03
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.02
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.02
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.02

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

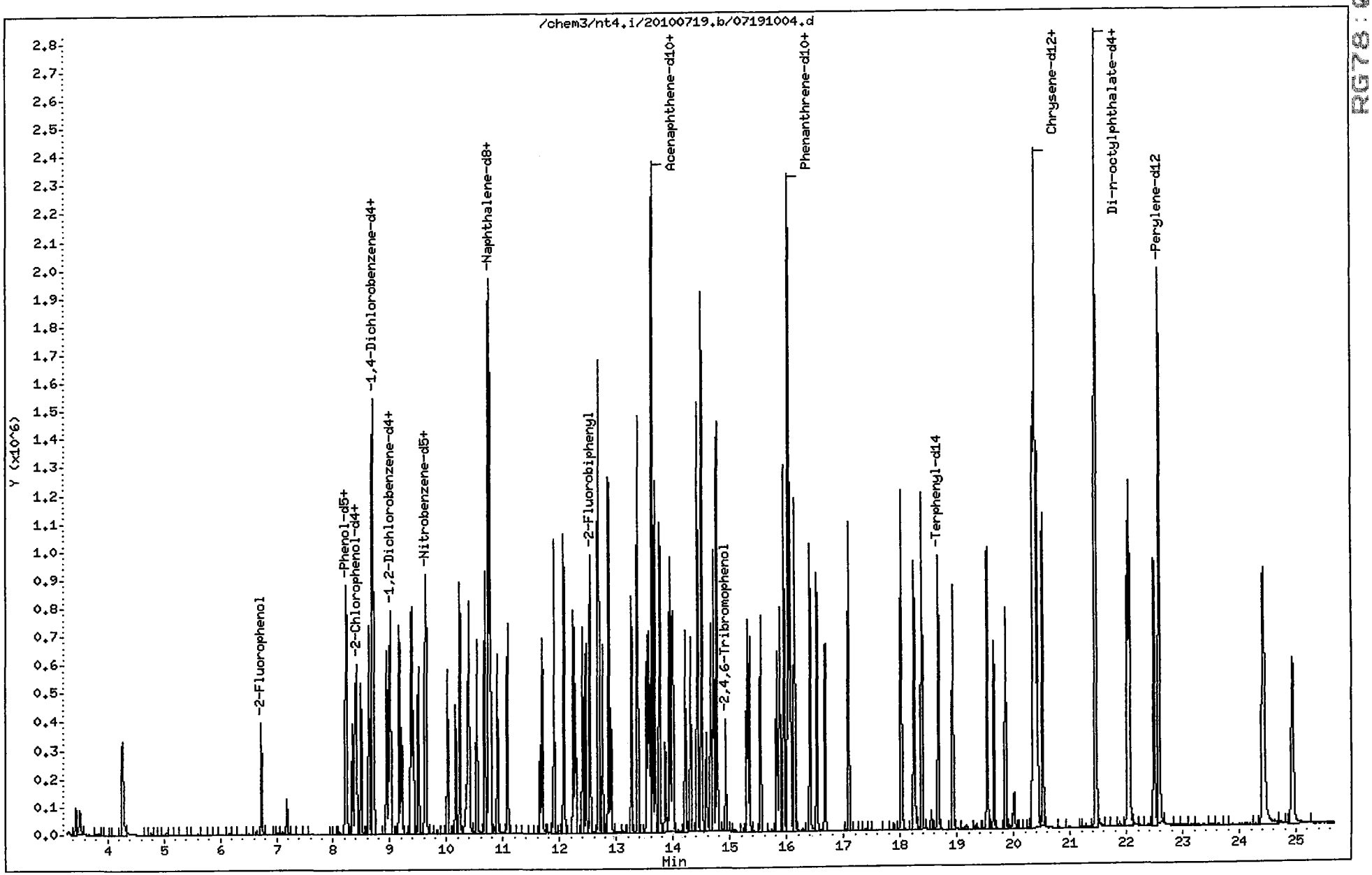
Data File: /chem3/nt4.i/20100719.b/07191004.d
Date : 19-JUL-2010 18:07
Client ID: IC100719
Sample Info: IC100719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi

RG78:080719



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191001.d
Lab Smp Id: IC250719 Client Smp ID: IC250719
Inj Date : 19-JUL-2010 16:18
Operator : JZ Inst ID: nt4.i
Smp Info : IC250719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:18 Cal File: 07191001.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.737	(0.774)	509094	25.0000	25.72
$	2 Phenol-d5	99	8.216	8.229	(0.945)	502390	25.0000	25.87
	3 Phenol	94	8.234	8.252	(0.947)	633003	25.0000	24.17
$	5 2-Chlorophenol-d4	132	8.387	8.393	(0.964)	529269	25.0000	25.43
	4 Bis(2-Chloroethyl)ether	93	8.346	8.352	(0.959)	456355	25.0000	24.04
	6 2-Chlorophenol	128	8.416	8.423	(0.968)	608173	25.0000	24.95
	7 1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	660365	25.0000	23.92
*	8 1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	356478	20.0000	
	9 1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	671032	25.0000	24.10
$	10 1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	379735	25.0000	24.06
	12 1,2-Dichlorobenzene	146	9.015	9.022	(1.036)	618747	25.0000	23.85
	11 Benzyl alcohol	108	8.956	8.969	(1.030)	349815	25.0000	23.61
	14 2,2'-oxybis(1-Chloropropane)	45	9.209	9.216	(1.059)	428872	25.0000	23.43
	13 2-Methylphenol	108	9.174	9.181	(1.055)	489525	25.0000	25.40
	17 Hexachloroethane	117	9.509	9.509	(1.093)	249727	25.0000	24.73
	16 N-Nitroso-di-n-propylamine	70	9.426	9.445	(1.084)	318375	25.0000	24.04
	15 4-Methylphenol	108	9.397	9.415	(1.080)	504582	25.0000	25.22
$	18 Nitrobenzene-d5	82	9.620	9.627	(0.896)	514519	25.0000	24.74
	19 Nitrobenzene	77	9.650	9.662	(0.898)	489280	25.0000	23.44
	20 Isophorone	82	10.026	10.038	(0.933)	813652	25.0000	23.75
	21 2-Nitrophenol	139	10.167	10.173	(0.946)	334369	25.0000	27.29
	22 2,4-Dimethylphenol	107	10.243	10.256	(0.954)	572473	25.0000	24.81
	23 Bis(2-Chloroethoxy)methane	93	10.396	10.408	(0.968)	576503	25.0000	24.00
	24 Benzoic acid	105	10.466	10.567	(0.974)	865635	50.0000	62.72
	25 2,4-Dichlorophenol	162	10.543	10.549	(0.981)	527621	25.0000	27.09
	26 1,2,4-Trichlorobenzene	180	10.684	10.684	(0.995)	536705	25.0000	24.16
*	27 Naphthalene-d8	136	10.742	10.749	(1.000)	1293412	20.0000	

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	28	Naphthalene	128	10.778	10.784	(1.003)	1556045	25.0000	23.04
	29	4-Chloroaniline	127	10.901	10.908	(1.015)	637156	25.0000	24.79
	30	Hexachlorobutadiene	225	11.083	11.084	(1.032)	301348	25.0000	23.81
	31	4-Chloro-3-methylphenol	107	11.694	11.701	(1.089)	500175	25.0000	28.57
	32	2-Methylnaphthalene	142	11.900	11.906	(1.108)	1050247	25.0000	23.86
	33	Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	313309	25.0000	28.24
	34	2,4,6-Trichlorophenol	196	12.405	12.411	(0.910)	377521	25.0000	27.01
	35	2,4,5-Trichlorophenol	196	12.463	12.470	(0.915)	403239	25.0000	29.54
$	36	2-Fluorobiphenyl	172	12.540	12.541	(0.920)	1236271	25.0000	24.07
	37	2-Chloronaphthalene	162	12.687	12.699	(0.931)	1084794	25.0000	24.08
	38	2-Nitroaniline	65	12.910	12.923	(0.947)	233355	25.0000	30.14
	39	Dimethylphthalate	163	13.268	13.287	(0.974)	1257560	25.0000	23.92
	40	Acenaphthylene	152	13.374	13.381	(0.981)	1642937	25.0000	23.46
	41	2,6-Dinitrotoluene	165	13.374	13.387	(0.981)	299507	25.0000	27.11
*	42	Acenaphthene-d10	164	13.627	13.633	(1.000)	785897	20.0000	
	43	3-Nitroaniline	138	13.591	13.610	(0.997)	270236	25.0000	24.87
	44	Acenaphthene	153	13.679	13.686	(1.004)	1047303	25.0000	23.58
	45	2,4-Dinitrophenol	184	13.756	13.780	(1.009)	317048	50.0000	80.02
	46	Dibenzofuran	168	13.944	13.951	(1.023)	1398933	25.0000	23.50
	47	4-Nitrophenol	109	13.867	13.880	(1.018)	191448	25.0000	27.88
	48	2,4-Dinitrotoluene	165	14.008	14.021	(1.028)	397346	25.0000	27.96
	50	Diethylphthalate	149	14.431	14.438	(1.059)	1294538	25.0000	23.24
	49	Fluorene	166	14.508	14.514	(1.065)	1237613	25.0000	23.68
	51	4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	591928	25.0000	23.81
	52	4-Nitroaniline	138	14.596	14.626	(1.071)	259237	25.0000	24.06
	53	4,6-Dinitro-2-methylphenol	198	14.672	14.697	(0.915)	487973	50.0000	61.47
	54	N-Nitrosodiphenylamine	169	14.713	14.732	(0.918)	928356	25.0000	24.41
$	55	2,4,6-Tribromophenol	330	14.931	14.937	(1.096)	153201	25.0000	28.25
	56	4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	337061	25.0000	24.76
	57	Hexachlorobenzene	284	15.542	15.548	(0.970)	336992	25.0000	23.58
	58	Pentachlorophenol	266	15.830	15.842	(0.988)	246760	25.0000	27.37
*	59	Phenanthrene-d10	188	16.029	16.036	(1.000)	1313990	20.0000	
	60	Phenanthrene	178	16.064	16.077	(1.002)	1705790	25.0000	23.23
	61	Anthracene	178	16.141	16.153	(1.007)	1764147	25.0000	23.48
	62	Carbazole	167	16.411	16.424	(1.024)	1555593	25.0000	23.15
	63	Di-n-butylphthalate	149	17.093	17.093	(1.066)	2121495	25.0000	24.06
	64	Fluoranthene	202	18.021	18.027	(1.124)	1808894	25.0000	24.05
	65	Pyrene	202	18.385	18.397	(0.902)	1867259	25.0000	23.65
$	66	Terphenyl-d14	244	18.667	18.674	(0.916)	1158832	25.0000	24.33
	67	Butylbenzylphthalate	149	19.536	19.543	(0.958)	970822	25.0000	25.62
	68	Benzo(a)anthracene	228	20.353	20.365	(0.999)	1698446	25.0000	23.41
*	69	Chrysene-d12	240	20.382	20.389	(1.000)	1155293	20.0000	
	70	3,3'-Dichlorobenzidine	252	20.341	20.348	(0.998)	576157	25.0000	25.04
	71	Chrysene	228	20.423	20.436	(1.002)	1672513	25.0000	23.37
	72	bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	1334441	25.0000	25.41
*	134	Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1825297	20.0000	
	73	Di-n-octylphthalate	149	21.463	21.470	(1.001)	2271687	25.0000	22.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.021	22.040	(0.975)	1734852	25.0000	23.19
75	Benzo(k)fluoranthene	252	22.056	22.075	(0.977)	1915421	25.0000	24.32
187	Total Benzofluoranthenes	252	22.056	22.075	(0.977)	3436118	50.0000	47.47
76	Benzo(a)pyrene	252	22.491	22.510	(0.996)	1612522	25.0000	24.49
* 77	Perylene-d12	264	22.579	22.580	(1.000)	1146289	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.424	24.454	(1.082)	1783402	25.0000	26.89
79	Dibenzo(a,h)anthracene	278	24.447	24.477	(1.083)	1472138	25.0000	27.94
80	Benzo(g,h,i)perylene	276	24.958	24.989	(1.105)	1499429	25.0000	26.53
90	N-Nitrosodimethylamine	74	4.280	4.281	(0.492)	258666	25.0000	24.24
103	Pyridine	79	4.251	4.240	(0.489)	474630	25.0000	26.87
91	Aniline	93	8.246	8.252	(0.948)	641945	25.0000	23.45
105	1-methylnaphthalene	142	12.076	12.082	(1.124)	1026237	25.0000	23.91
93	Benzidine	184	18.250	18.251	(0.895)	500943	25.0000	21.40
111	Azobenzene (1,2-DP-Hydrazine)	77	14.766	14.779	(1.084)	965964	25.0000	23.20
143	1,4-Dioxane	88	3.511	3.494	(0.404)	171754	25.0000	
$ 137	d8-1,4-Dioxane	96	3.440	3.424	(0.396)	177040	25.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.240	12.247	(0.898)	514416	25.0000	23.93
120	2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	321030	25.0000	27.86
144	alpha-Terpineol	59	10.783	10.790	(1.004)	272097	25.0000	23.14
98	Retene	219	18.925	18.932	(0.929)	632122	25.0000	25.20
133	Butylatedhydroxytoluene	205	13.768	13.774	(1.010)	959628	25.0000	23.21
115	Tributyl Phosphate	99	14.778	14.802	(0.922)	1270123	25.0000	23.94
116	Dibutyl Phenyl Phosphate	175	16.529	16.535	(1.031)	1078412	25.0000	25.56
117	Butyl Diphenyl Phosphate	94	18.238	18.245	(0.895)	316769	25.0000	26.53
118	Triphenyl Phosphate	326	19.859	19.866	(0.974)	303151	25.0000	25.48
123	Acetophenone	105	9.379	9.392	(0.873)	677189	25.0000	23.67
179	n-Decane	57	8.498	8.505	(0.977)	358983	25.0000	23.83
180	n-Octadecane	57	15.876	15.883	(0.990)	455513	25.0000	23.40
168	Pentachlorobenzene	250	13.985	13.992	(1.026)	401776	25.0000	23.75
113	Diphenyl Oxide	170	12.863	12.870	(0.944)	1050883	25.0000	23.35
112	Biphenyl	154	12.675	12.682	(0.930)	1229577	25.0000	23.42
110	Tetrachloroguaiacol	247	15.959	15.971	(0.996)	400470	50.0000	52.09
109	3,4,5-Trichloroguaiacol	213	14.308	14.315	(0.893)	204465	25.0000	26.58
181	3,4,6-Trichloroguaiacol	211	14.431	14.444	(0.900)	243206	25.0000	26.59
108	4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	212755	25.0000	26.67
184	3,4-Dichloroguaiacol	192	12.757	12.764	(0.936)	210509	25.0000	26.84
107	4,5-Dichloroguaiacol	192	13.539	13.545	(0.994)	282749	25.0000	26.54
182	4,6-Dichloroguaiacol	192	13.568	13.580	(0.996)	265540	25.0000	25.95
185	4-Chloroguaiacol	115	11.653	11.660	(1.340)	145555	12.5000	14.11
106	Guaiacol	124	9.638	9.645	(1.108)	478994	25.0000	24.59

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191001.d
Lab Smp Id: IC250719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC250719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	356478	0.00
27 Naphthalene-d8	1293412	646706	2586824	1293412	0.00
42 Acenaphthene-d10	785897	392948	1571794	785897	0.00
59 Phenanthrene-d10	1313990	656995	2627980	1313990	0.00
69 Chrysene-d12	1155293	577646	2310586	1155293	0.00
134 Di-n-octylphthala	1825297	912648	3650594	1825297	0.00
77 Perylene-d12	1146289	573144	2292578	1146289	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.00
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.00
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

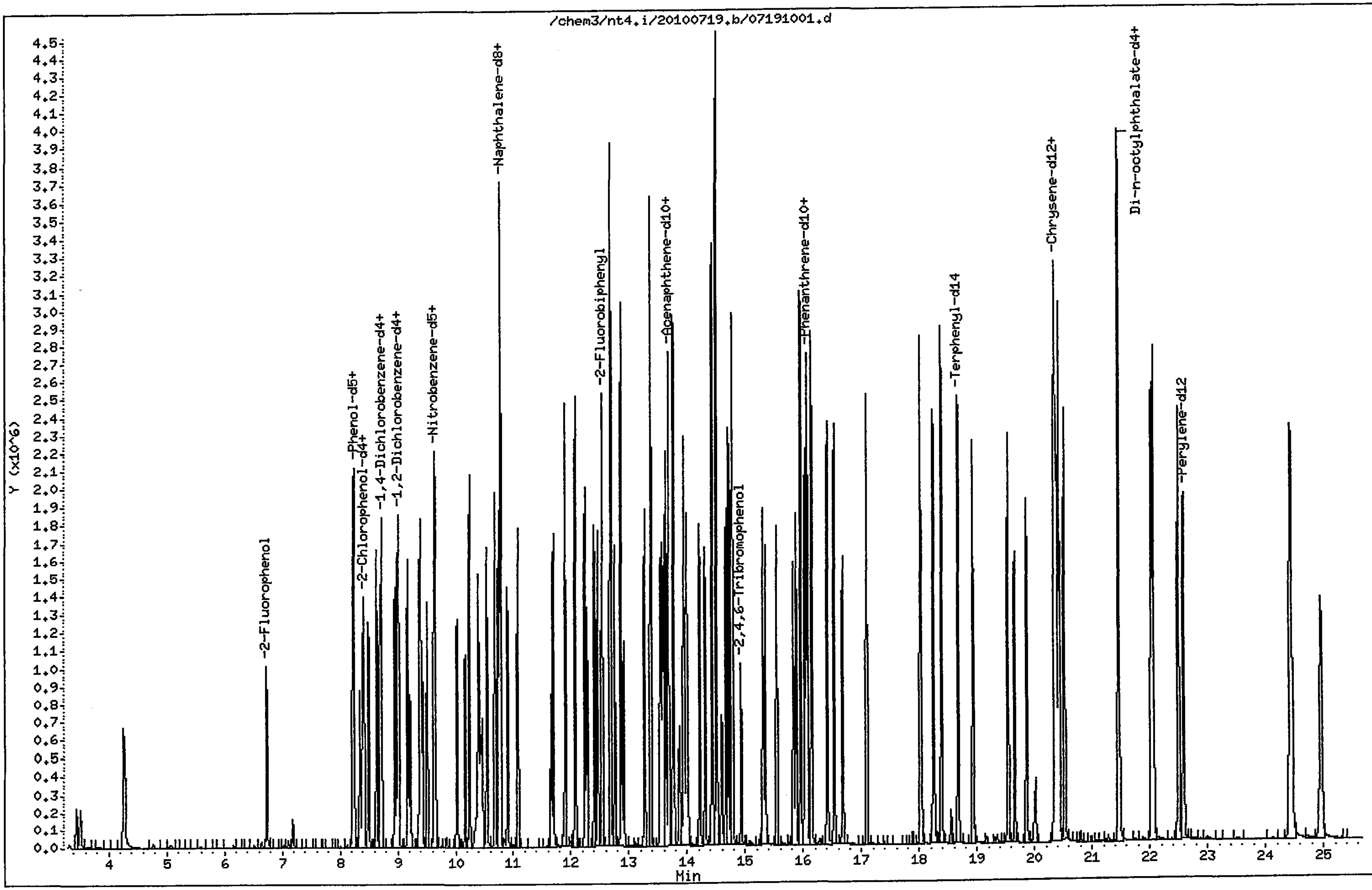
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191001.d
Date : 19-JUL-2010 16:18
Client ID: IC250719
Sample Info: IC250719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191005.d
Lab Smp Id: IC400719 Client Smp ID: IC400719
Inj Date : 19-JUL-2010 18:41
Operator : JZ Inst ID: nt4.i
Smp Info : IC400719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:41 Cal File: 07191005.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.738	6.737	(0.775)	805836	40.0000	38.46
$	2 Phenol-d5	99	8.224	8.229	(0.946)	800887	40.0000	38.86
	3 Phenol	94	8.242	8.252	(0.948)	970435	40.0000	35.61
$	5 2-Chlorophenol-d4	132	8.395	8.393	(0.966)	851467	40.0000	38.60
	4 Bis(2-Chloroethyl)ether	93	8.348	8.352	(0.960)	765819	40.0000	38.17
	6 2-Chlorophenol	128	8.418	8.423	(0.968)	939854	40.0000	36.80
	7 1,3-Dichlorobenzene	146	8.636	8.640	(0.993)	1102160	40.0000	37.86
*	8 1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	381018	20.0000	
	9 1,4-Dichlorobenzene	146	8.724	8.722	(1.003)	1123923	40.0000	38.19
$	10 1,2-Dichlorobenzene-d4	152	9.000	8.998	(1.035)	620692	40.0000	37.40
	12 1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	1045036	40.0000	38.13
	11 Benzyl alcohol	108	8.959	8.969	(1.030)	560984	40.0000	36.47
	14 2,2'-oxybis(1-Chloropropane)	45	9.211	9.216	(1.059)	703825	40.0000	36.71
	13 2-Methylphenol	108	9.176	9.181	(1.055)	768962	40.0000	37.84
	17 Hexachloroethane	117	9.511	9.509	(1.094)	422293	40.0000	39.30
	16 N-Nitroso-di-n-propylamine	70	9.434	9.445	(1.085)	535476	40.0000	38.25
	15 4-Methylphenol	108	9.405	9.415	(1.082)	798691	40.0000	37.85
$	18 Nitrobenzene-d5	82	9.622	9.627	(0.896)	826176	40.0000	38.67
	19 Nitrobenzene	77	9.652	9.662	(0.898)	805687	40.0000	37.76
	20 Isophorone	82	10.028	10.038	(0.933)	1335102	40.0000	38.07
	21 2-Nitrophenol	139	10.169	10.173	(0.946)	520600	40.0000	40.81
	22 2,4-Dimethylphenol	107	10.245	10.256	(0.954)	878355	40.0000	37.35
	23 Bis(2-Chloroethoxy)methane	93	10.398	10.408	(0.968)	928673	40.0000	37.83
	24 Benzoic acid	105	10.509	10.567	(0.978)	1401298	80.0000	92.78
	25 2,4-Dichlorophenol	162	10.545	10.549	(0.981)	807406	40.0000	40.01
	26 1,2,4-Trichlorobenzene	180	10.680	10.684	(0.994)	883928	40.0000	38.71
*	27 Naphthalene-d8	136	10.744	10.749	(1.000)	1340154	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.780	10.784	(1.003)	2403128	40.0000	35.34
	29 4-Chloroaniline	127	10.903	10.908	(1.015)	1000805	40.0000	38.04
	30 Hexachlorobutadiene	225	11.085	11.084	(1.032)	502639	40.0000	38.65
	31 4-Chloro-3-methylphenol	107	11.696	11.701	(1.089)	765878	40.0000	41.76
	32 2-Methylnaphthalene	142	11.902	11.906	(1.108)	1711633	40.0000	38.00
	33 Hexachlorocyclopentadiene	237	12.278	12.282	(0.901)	553109	40.0000	44.81
	34 2,4,6-Trichlorophenol	196	12.407	12.411	(0.910)	605024	40.0000	40.43
	35 2,4,5-Trichlorophenol	196	12.466	12.470	(0.915)	647741	40.0000	43.47
$	36 2-Fluorobiphenyl	172	12.536	12.541	(0.920)	1951425	40.0000	36.38
	37 2-Chloronaphthalene	162	12.689	12.699	(0.931)	1782192	40.0000	37.60
	38 2-Nitroaniline	65	12.912	12.923	(0.947)	385828	40.0000	45.16
	39 Dimethylphthalate	163	13.276	13.287	(0.974)	2076257	40.0000	37.54
	40 Acenaphthylene	152	13.376	13.381	(0.981)	2618537	40.0000	35.91
	41 2,6-Dinitrotoluene	165	13.376	13.387	(0.981)	506024	40.0000	42.28
*	42 Acenaphthene-d10	164	13.629	13.633	(1.000)	839318	20.0000	
	43 3-Nitroaniline	138	13.599	13.610	(0.998)	411097	40.0000	36.26
	44 Acenaphthene	153	13.682	13.686	(1.004)	1730659	40.0000	37.13
	45 2,4-Dinitrophenol	184	13.764	13.780	(1.010)	599293	80.0000	118.8
	46 Dibenzofuran	168	13.946	13.951	(1.023)	2282796	40.0000	36.65
	47 4-Nitrophenol	109	13.870	13.880	(1.018)	324791	40.0000	43.13
	48 2,4-Dinitrotoluene	165	14.011	14.021	(1.028)	682861	40.0000	43.90
	50 Diethylphthalate	149	14.434	14.438	(1.059)	2127981	40.0000	36.54
	49 Fluorene	166	14.510	14.514	(1.065)	1979735	40.0000	36.29
	51 4-Chlorophenyl-phenylether	204	14.516	14.514	(1.065)	980934	40.0000	37.52
	52 4-Nitroaniline	138	14.610	14.626	(1.072)	465525	40.0000	40.36
	53 4,6-Dinitro-2-methylphenol	198	14.680	14.697	(0.916)	814156	80.0000	92.95
	54 N-Nitrosodiphenylamine	169	14.721	14.732	(0.918)	1558783	40.0000	39.41
$	55 2,4,6-Tribromophenol	330	14.933	14.937	(1.096)	249842	40.0000	42.47
	56 4-Bromophenyl-phenylether	248	15.303	15.308	(0.955)	565124	40.0000	39.82
	57 Hexachlorobenzene	284	15.544	15.548	(0.970)	559987	40.0000	38.00
	58 Pentachlorophenol	266	15.832	15.842	(0.988)	393069	40.0000	41.31
*	59 Phenanthrene-d10	188	16.031	16.036	(1.000)	1371590	20.0000	
	60 Phenanthrene	178	16.073	16.077	(1.003)	2705033	40.0000	36.15
	61 Anthracene	178	16.143	16.153	(1.007)	2803865	40.0000	36.53
	62 Carbazole	167	16.413	16.424	(1.024)	2542023	40.0000	36.93
	63 Di-n-butylphthalate	149	17.095	17.093	(1.066)	3260353	40.0000	36.25
	64 Fluoranthene	202	18.023	18.027	(1.124)	2935696	40.0000	37.88
	65 Pyrene	202	18.387	18.397	(0.902)	3025660	40.0000	35.90
$	66 Terphenyl-d14	244	18.669	18.674	(0.916)	1839228	40.0000	36.14
	67 Butylbenzylphthalate	149	19.538	19.543	(0.958)	1646877	40.0000	39.77
	68 Benzo(a)anthracene	228	20.361	20.365	(0.999)	2823099	40.0000	36.36
*	69 Chrysene-d12	240	20.384	20.389	(1.000)	1264495	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.343	20.348	(0.998)	950636	40.0000	38.18
	71 Chrysene	228	20.425	20.436	(1.002)	2729145	40.0000	35.77
	72 bis(2-Ethylhexyl)phthalate	149	20.514	20.518	(0.956)	2243796	40.0000	40.79
*	134 Di-n-octylphthalate-d4	153	21.453	21.458	(1.000)	1902533	20.0000	
	73 Di-n-octylphthalate	149	21.465	21.470	(1.001)	3553588	40.0000	35.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.029	22.040	(0.976)	2935610	40.0000	37.62
75	Benzo(k)fluoranthene	252	22.064	22.075	(0.977)	2948453	40.0000	36.19
187	Total Benzofluoranthenes	252	22.064	22.075	(0.977)	5543714	80.0000	73.74
76	Benzo(a)pyrene	252	22.499	22.510	(0.997)	2634243	40.0000	38.20
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1213809	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.438	24.454	(1.082)	3062042	40.0000	42.84
79	Dibenzo(a,h)anthracene	278	24.455	24.477	(1.083)	2520948	40.0000	44.05
80	Benzo(g,h,i)perylene	276	24.972	24.989	(1.106)	2618046	40.0000	42.94
90	N-Nitrosodimethylamine	74	4.288	4.281	(0.493)	430140	40.0000	38.14
103	Pyridine	79	4.253	4.240	(0.489)	798092	40.0000	41.80
91	Aniline	93	8.248	8.252	(0.949)	1030671	40.0000	36.09
105	1-methylnaphthalene	142	12.078	12.082	(1.124)	1690741	40.0000	38.40
93	Benzidine	184	18.252	18.251	(0.895)	836928	40.0000	33.91
111	Azobenzene (1,2-DP-Hydrazine)	77	14.774	14.779	(1.084)	1574216	40.0000	36.24
143	1,4-Dioxane	88	3.513	3.494	(0.404)	291223	40.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	303363	40.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.242	12.247	(0.898)	837944	40.0000	37.15
120	2,3,4,6-Tetrachlorophenol	232	14.216	14.221	(1.043)	530279	40.0000	42.44
144	alpha-Terpineol	59	10.786	10.790	(1.004)	410363	40.0000	34.78
98	Retene	219	18.927	18.932	(0.929)	1052055	40.0000	38.65
133	Butylatedhydroxytoluene	205	13.770	13.774	(1.010)	1500329	40.0000	35.04
115	Tributyl Phosphate	99	14.792	14.802	(0.923)	2023303	40.0000	37.18
116	Dibutyl Phenyl Phosphate	175	16.531	16.535	(1.031)	1701062	40.0000	38.89
117	Butyl Diphenyl Phosphate	94	18.240	18.245	(0.895)	517626	40.0000	39.68
118	Triphenyl Phosphate	326	19.861	19.866	(0.974)	498877	40.0000	38.63
123	Acetophenone	105	9.382	9.392	(0.873)	1136208	40.0000	38.65
179	n-Decane	57	8.500	8.505	(0.978)	590284	40.0000	37.28
180	n-Octadecane	57	15.879	15.883	(0.990)	714571	40.0000	36.04
168	Pentachlorobenzene	250	13.987	13.992	(1.026)	676775	40.0000	37.94
113	Diphenyl Oxide	170	12.865	12.870	(0.944)	1726304	40.0000	36.67
112	Biphenyl	154	12.677	12.682	(0.930)	1990603	40.0000	36.32
110	Tetrachloroguaiacol	247	15.961	15.971	(0.996)	654310	80.0000	81.22
109	3,4,5-Trichloroguaiacol	213	14.310	14.315	(0.893)	346917	40.0000	42.53
181	3,4,6-Trichloroguaiacol	211	14.434	14.444	(0.900)	407062	40.0000	42.08
108	4,5,6-Trichloroguaiacol	213	15.344	15.349	(0.957)	357303	40.0000	42.30
184	3,4-Dichloroguaiacol	192	12.759	12.764	(0.936)	360234	40.0000	42.38
107	4,5-Dichloroguaiacol	192	13.541	13.545	(0.994)	535237	40.0000	45.44
182	4,6-Dichloroguaiacol	192	13.570	13.580	(0.996)	412019	40.0000	38.14
185	4-Chloroguaiacol	115	11.655	11.660	(1.341)	239833	20.0000	21.38
106	Guaiacol	124	9.640	9.645	(1.109)	785043	40.0000	38.14

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191005.d
Lab Smp Id: IC400719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC400719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	381018	6.88
27 Naphthalene-d8	1293412	646706	2586824	1340154	3.61
42 Acenaphthene-d10	785897	392948	1571794	839318	6.80
59 Phenanthrene-d10	1313990	656995	2627980	1371590	4.38
69 Chrysene-d12	1155293	577646	2310586	1264495	9.45
134 Di-n-octylphthala	1825297	912648	3650594	1902533	4.23
77 Perylene-d12	1146289	573144	2292578	1213809	5.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.04
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.01
77 Perylene-d12	22.58	22.08	23.08	22.58	-0.02

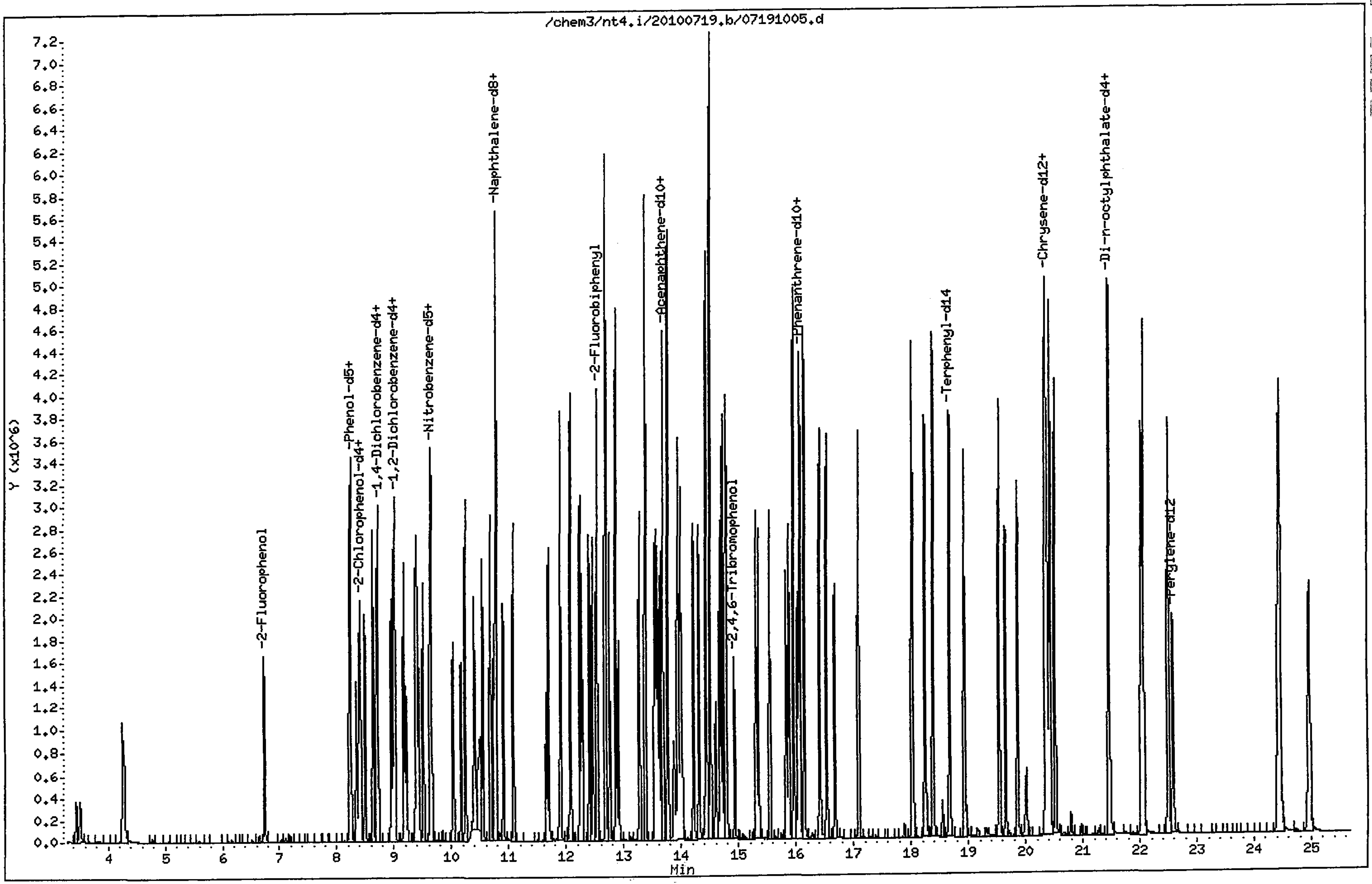
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191005.d
Date : 19-JUL-2010 18:41
Client ID: IC400719
Sample Info: IC400719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191006.d
Lab Smp Id: IC600719 Client Smp ID: IC600719
Inj Date : 19-JUL-2010 19:14
Operator : JZ Inst ID: nt4.i
Smp Info : IC600719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:14 Cal File: 07191006.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

AMOUNTS

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.742	6.737	(0.775)	1229938	60.0000	56.87
$	2	Phenol-d5	99	8.228	8.229	(0.946)	1203698	60.0000	56.64
	3	Phenol	94	8.251	8.252	(0.949)	1486801	60.0000	53.46
$	5	2-Chlorophenol-d4	132	8.398	8.393	(0.966)	1296594	60.0000	56.95
	4	Bis(2-Chloroethyl)ether	93	8.351	8.352	(0.960)	1136800	60.0000	55.21
	6	2-Chlorophenol	128	8.422	8.423	(0.968)	1481989	60.0000	56.33
	7	1,3-Dichlorobenzene	146	8.639	8.640	(0.993)	1637912	60.0000	54.87
*	8	1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	397320	20.0000	
	9	1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	1656413	60.0000	54.89
$	10	1,2-Dichlorobenzene-d4	152	8.997	8.998	(1.034)	951535	60.0000	55.76
	12	1,2-Dichlorobenzene	146	9.021	9.022	(1.037)	1536342	60.0000	54.70
	11	Benzyl alcohol	108	8.968	8.969	(1.031)	863804	60.0000	54.97
	14	2,2'-oxybis(1-Chloropropane)	45	9.215	9.216	(1.059)	1018933	60.0000	52.28
	13	2-Methylphenol	108	9.179	9.181	(1.055)	1210815	60.0000	57.59
	17	Hexachloroethane	117	9.508	9.509	(1.093)	632803	60.0000	57.04
	16	N-Nitroso-di-n-propylamine	70	9.444	9.445	(1.086)	798791	60.0000	55.53
	15	4-Methylphenol	108	9.414	9.415	(1.082)	1252181	60.0000	57.40
$	18	Nitrobenzene-d5	82	9.626	9.627	(0.896)	1229087	60.0000	53.83
	19	Nitrobenzene	77	9.661	9.662	(0.899)	1188709	60.0000	52.39
	20	Isophorone	82	10.037	10.038	(0.934)	2011089	60.0000	53.69
	21	2-Nitrophenol	139	10.172	10.173	(0.946)	846073	60.0000	60.67
	22	2,4-Dimethylphenol	107	10.254	10.256	(0.954)	1366838	60.0000	54.30
	23	Bis(2-Chloroethoxy)methane	93	10.407	10.408	(0.968)	1395558	60.0000	53.29
	24	Benzoic acid	105	10.560	10.567	(0.982)	2377813	120.000	138.7(M)
	25	2,4-Dichlorophenol	162	10.548	10.549	(0.981)	1299788	60.0000	59.22
	26	1,2,4-Trichlorobenzene	180	10.683	10.684	(0.994)	1364625	60.0000	55.60
*	27	Naphthalene-d8	136	10.748	10.749	(1.000)	1461536	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.783	10.784	(1.003)	3406376	60.0000	47.80
	29 4-Chloroaniline	127	10.907	10.908	(1.015)	1513974	60.0000	53.84
	30 Hexachlorobutadiene	225	11.083	11.084	(1.031)	765030	60.0000	54.87
	31 4-Chloro-3-methylphenol	107	11.700	11.701	(1.089)	1220499	60.0000	60.84
	32 2-Methylnaphthalene	142	11.905	11.906	(1.108)	2515888	60.0000	52.50
	33 Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	871995	60.0000	65.89
	34 2,4,6-Trichlorophenol	196	12.410	12.411	(0.910)	964534	60.0000	61.35
	35 2,4,5-Trichlorophenol	196	12.469	12.470	(0.915)	1030226	60.0000	65.00
$	36 2-Fluorobiphenyl	172	12.540	12.541	(0.920)	2843491	60.0000	52.03
	37 2-Chloronaphthalene	162	12.698	12.699	(0.931)	2543337	60.0000	52.57
	38 2-Nitroaniline	65	12.921	12.923	(0.948)	595218	60.0000	65.41
	39 Dimethylphthalate	163	13.286	13.287	(0.975)	3065731	60.0000	54.05
	40 Acenaphthylene	152	13.380	13.381	(0.981)	3654484	60.0000	49.58
	41 2,6-Dinitrotoluene	165	13.380	13.387	(0.981)	752544	60.0000	60.10
*	42 Acenaphthene-d10	164	13.632	13.633	(1.000)	877821	20.0000	
	43 3-Nitroaniline	138	13.609	13.610	(0.998)	574337	60.0000	50.04
	44 Acenaphthene	153	13.691	13.686	(1.004)	2486799	60.0000	52.32
	45 2,4-Dinitrophenol	184	13.779	13.780	(1.011)	1050607	120.000	175.9
	46 Dibenzofuran	168	13.949	13.951	(1.023)	3316951	60.0000	52.24
	47 4-Nitrophenol	109	13.879	13.880	(1.018)	521388	60.0000	64.86
	48 2,4-Dinitrotoluene	165	14.020	14.021	(1.028)	1028405	60.0000	62.65
	50 Diethylphthalate	149	14.437	14.438	(1.059)	2995821	60.0000	50.71
	49 Fluorene	166	14.513	14.514	(1.065)	2766792	60.0000	50.10
	51 4-Chlorophenyl-phenylether	204	14.519	14.514	(1.065)	1386076	60.0000	52.04
	52 4-Nitroaniline	138	14.625	14.626	(1.073)	708100	60.0000	58.91
	53 4,6-Dinitro-2-methylphenol	198	14.695	14.697	(0.916)	1367613	120.000	141.3
	54 N-Nitrosodiphenylamine	169	14.731	14.732	(0.919)	2292809	60.0000	55.69
$	55 2,4,6-Tribromophenol	330	14.936	14.937	(1.096)	382818	60.0000	61.84
	56 4-Bromophenyl-phenylether	248	15.306	15.308	(0.955)	839139	60.0000	56.62
	57 Hexachlorobenzene	284	15.547	15.548	(0.970)	830754	60.0000	54.39
	58 Pentachlorophenol	266	15.841	15.842	(0.988)	650217	60.0000	63.72
*	59 Phenanthrene-d10	188	16.035	16.036	(1.000)	1448224	20.0000	
	60 Phenanthrene	178	16.076	16.077	(1.003)	3878293	60.0000	50.62
	61 Anthracene	178	16.152	16.153	(1.007)	3944693	60.0000	50.26
	62 Carbazole	167	16.423	16.424	(1.024)	3719250	60.0000	52.47
	63 Di-n-butylphthalate	149	17.092	17.093	(1.066)	4433661	60.0000	48.48
	64 Fluoranthene	202	18.026	18.027	(1.124)	4065333	60.0000	51.15
	65 Pyrene	202	18.396	18.397	(0.902)	4220721	60.0000	50.47
$	66 Terphenyl-d14	244	18.672	18.674	(0.916)	2664333	60.0000	52.41
	67 Butylbenzylphthalate	149	19.542	19.543	(0.958)	2351154	60.0000	56.16
	68 Benzo(a)anthracene	228	20.364	20.365	(0.999)	3947800	60.0000	51.13
*	69 Chrysene-d12	240	20.388	20.389	(1.000)	1294779	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.347	20.348	(0.998)	1334380	60.0000	53.48
	71 Chrysene	228	20.435	20.436	(1.002)	3793653	60.0000	50.15
	72 bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	3142762	60.0000	56.90
*	134 Di-n-octylphthalate-d4	153	21.457	21.458	(1.000)	1930038	20.0000	
	73 Di-n-octylphthalate	149	21.469	21.470	(1.001)	4795925	60.0000	48.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.038	22.040	(0.976)	4080347	60.0000	51.13
75	Benzo(k)fluoranthene	252	22.074	22.075	(0.978)	4266538	60.0000	51.21
187	Total Benzofluoranthenes	252	22.074	22.075	(0.978)	7852544	120.000	102.2
76	Benzo(a)pyrene	252	22.508	22.510	(0.997)	3866473	60.0000	54.28
* 77	Perylene-d12	264	22.579	22.580	(1.000)	1277873	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.453	24.454	(1.083)	4513038	60.0000	59.97
79	Dibenzo(a,h)anthracene	278	24.471	24.477	(1.084)	3659183	60.0000	60.61
80	Benzo(g,h,i)perylene	276	24.987	24.989	(1.107)	3886563	60.0000	60.45
90	N-Nitrosodimethylamine	74	4.298	4.281	(0.494)	642614	60.0000	55.47
103	Pyridine	79	4.257	4.240	(0.489)	1166653	60.0000	58.82
91	Aniline	93	8.251	8.252	(0.949)	1522936	60.0000	52.43
105	1-methylnaphthalene	142	12.081	12.082	(1.124)	2468087	60.0000	52.66
93	Benzidine	184	18.255	18.251	(0.895)	1209446	60.0000	49.52
111	Azobenzene (1,2-DP-Hydrazine)	77	14.778	14.779	(1.084)	2261358	60.0000	51.23
143	1,4-Dioxane	88	3.522	3.494	(0.405)	432668	60.0000	
$ 137	d8-1,4-Dioxane	96	3.452	3.424	(0.397)	452808	60.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.246	12.247	(0.898)	1293861	60.0000	55.65
120	2,3,4,6-Tetrachlorophenol	232	14.220	14.221	(1.043)	822319	60.0000	62.42
144	alpha-Terpineol	59	10.789	10.790	(1.004)	632002	60.0000	50.64
98	Retene	219	18.931	18.932	(0.929)	1565454	60.0000	56.77
133	Butylatedhydroxytoluene	205	13.773	13.774	(1.010)	2053796	60.0000	47.73
115	Tributyl Phosphate	99	14.801	14.802	(0.923)	2926776	60.0000	52.25
116	Dibutyl Phenyl Phosphate	175	16.534	16.535	(1.031)	2564420	60.0000	56.23
117	Butyl Diphenyl Phosphate	94	18.244	18.245	(0.895)	765596	60.0000	57.75
118	Triphenyl Phosphate	326	19.865	19.866	(0.974)	759375	60.0000	57.84
123	Acetophenone	105	9.391	9.392	(0.874)	1676761	60.0000	53.44
179	n-Decane	57	8.504	8.505	(0.978)	860809	60.0000	53.30
180	n-Octadecane	57	15.882	15.883	(0.990)	1023596	60.0000	50.45
168	Pentachlorobenzene	250	13.991	13.992	(1.026)	1018953	60.0000	55.45
113	Diphenyl Oxide	170	12.869	12.870	(0.944)	2507406	60.0000	52.24
112	Biphenyl	154	12.681	12.682	(0.930)	2788162	60.0000	50.23
110	Tetrachloroguaiacol	247	15.970	15.971	(0.996)	984961	120.000	116.5
109	3,4,5-Trichloroguaiacol	213	14.314	14.315	(0.893)	533736	60.0000	61.63
181	3,4,6-Trichloroguaiacol	211	14.437	14.444	(0.900)	612812	60.0000	60.00
108	4,5,6-Trichloroguaiacol	213	15.353	15.349	(0.958)	559497	60.0000	62.26
184	3,4-Dichloroguaiacol	192	12.763	12.764	(0.936)	563971	60.0000	62.83
107	4,5-Dichloroguaiacol	192	13.544	13.545	(0.994)	821802	60.0000	65.49
182	4,6-Dichloroguaiacol	192	13.579	13.580	(0.996)	664585	60.0000	59.01
185	4-Chloroguaiacol	115	11.658	11.660	(1.340)	379286	30.0000	31.99
106	Guaiacol	124	9.644	9.645	(1.109)	1198240	60.0000	56.49

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191006.d
Lab Smp Id: IC600719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC600719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	397320	11.46
27 Naphthalene-d8	1293412	646706	2586824	1461536	13.00
42 Acenaphthene-d10	785897	392948	1571794	877821	11.70
59 Phenanthrene-d10	1313990	656995	2627980	1448224	10.22
69 Chrysene-d12	1155293	577646	2310586	1294779	12.07
134 Di-n-octylphthala	1825297	912648	3650594	1930038	5.74
77 Perylene-d12	1146289	573144	2292578	1277873	11.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.05
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.04
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

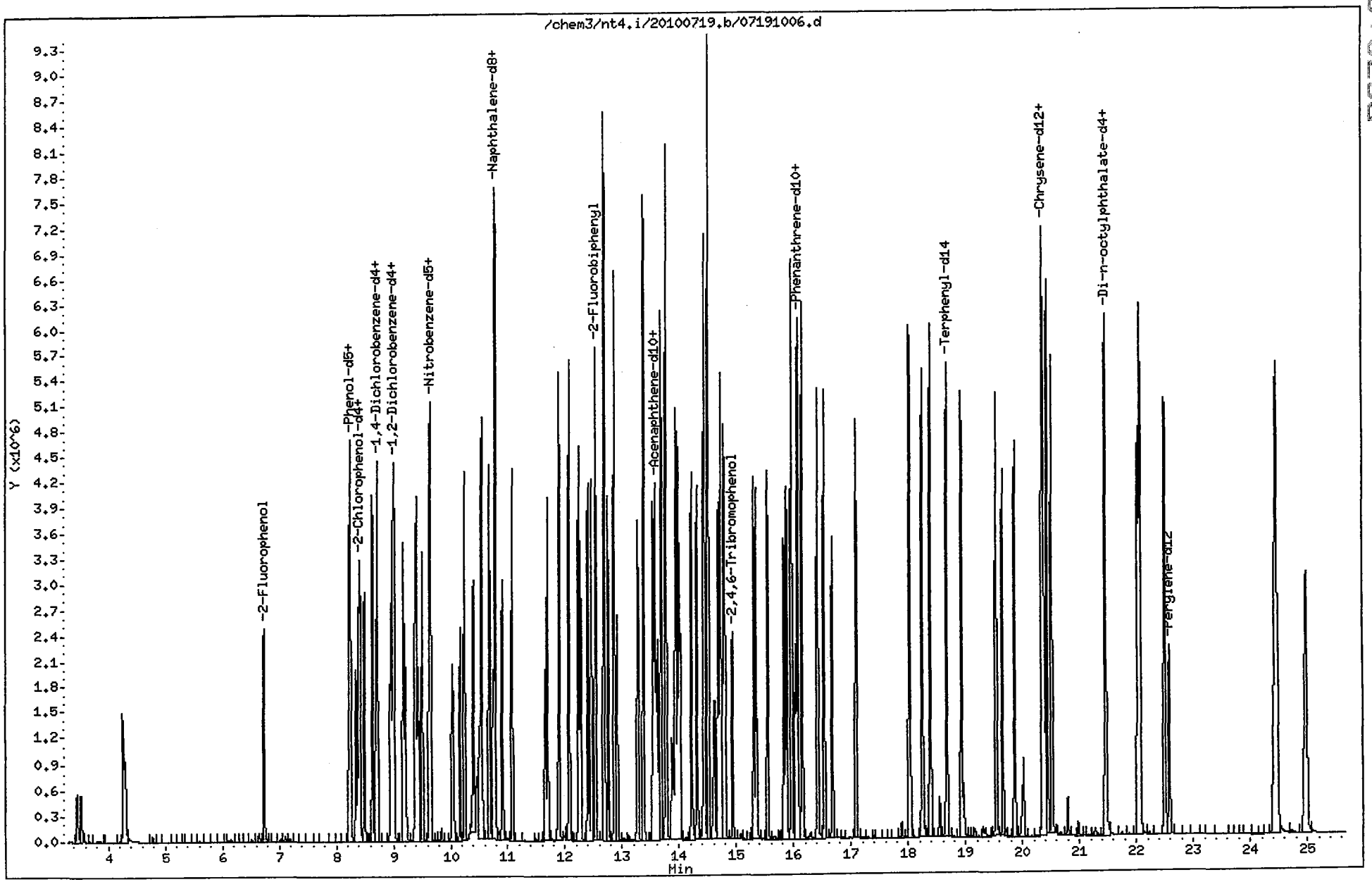
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191006.d
Date : 19-JUL-2010 19:14
Client ID: IC600719
Sample Info: IC600719

Instrument: nt4.i

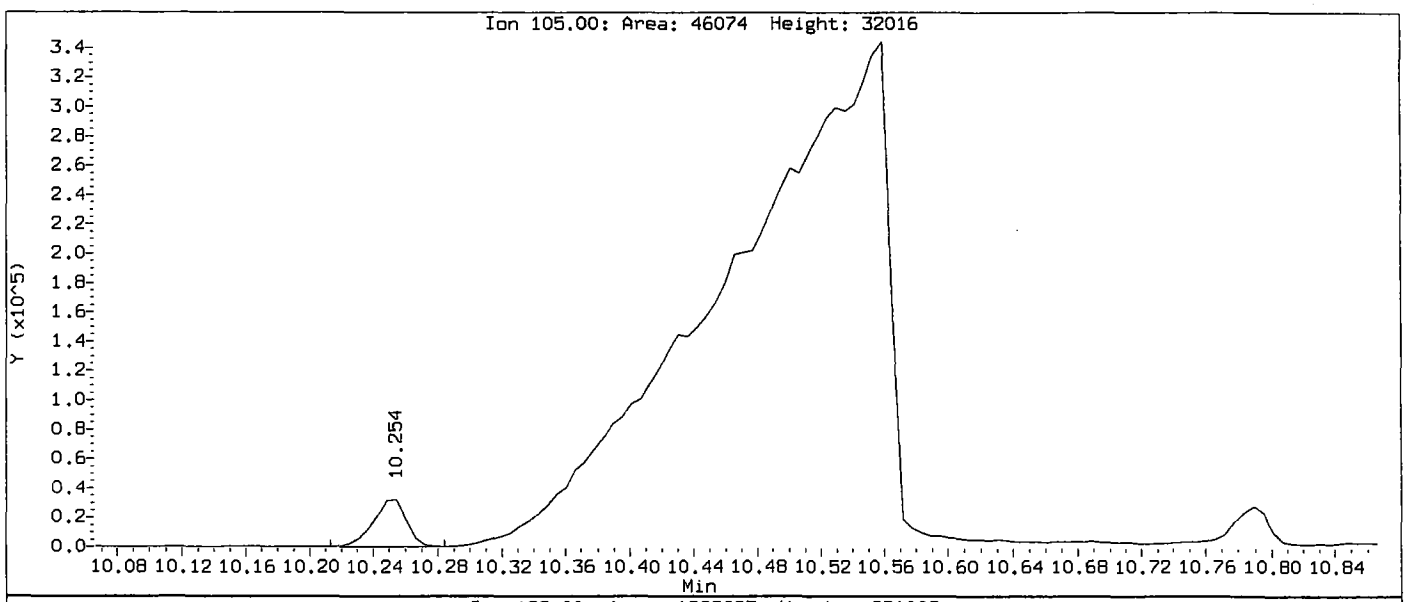
Operator: JZ
Column diameter: 0.32

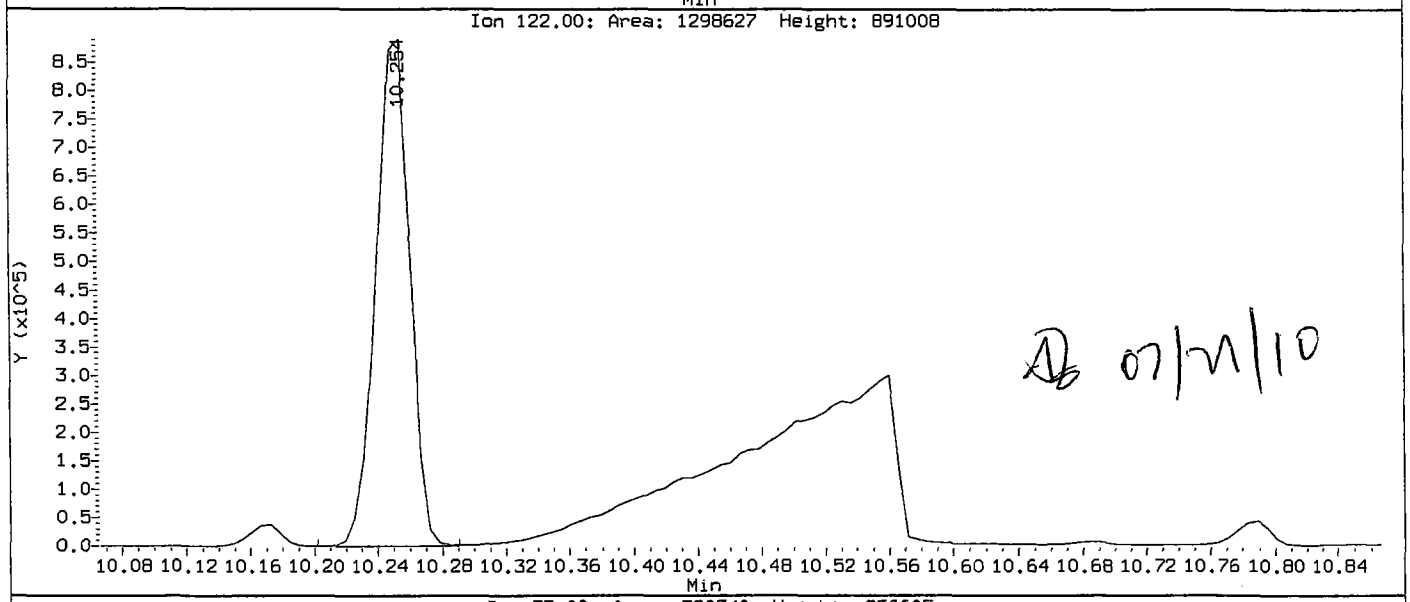
Column phase: ZB-5msi



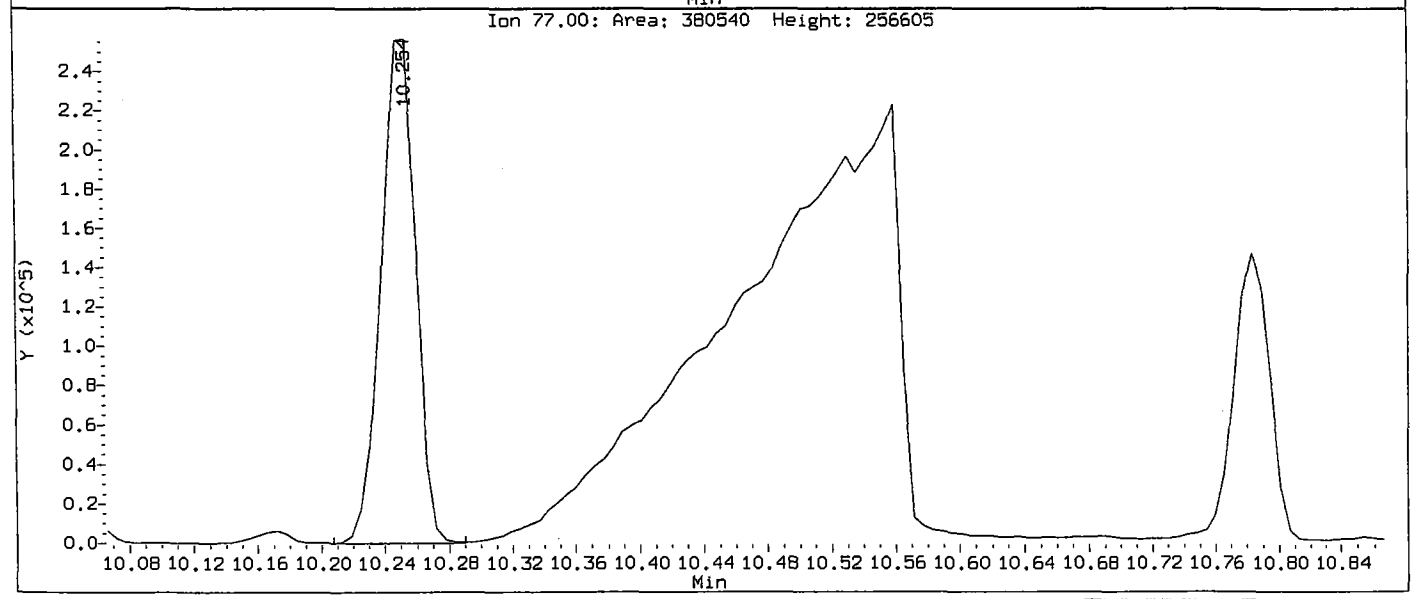
Data File: /chem3/nt4.i/20100719.b/07191006.d
Injection Date: 19-JUL-2010 19:14
Instrument: nt4.i
Client Sample ID: IC600719

Compound: Benzoic acid
CAS Number: 65-85-0



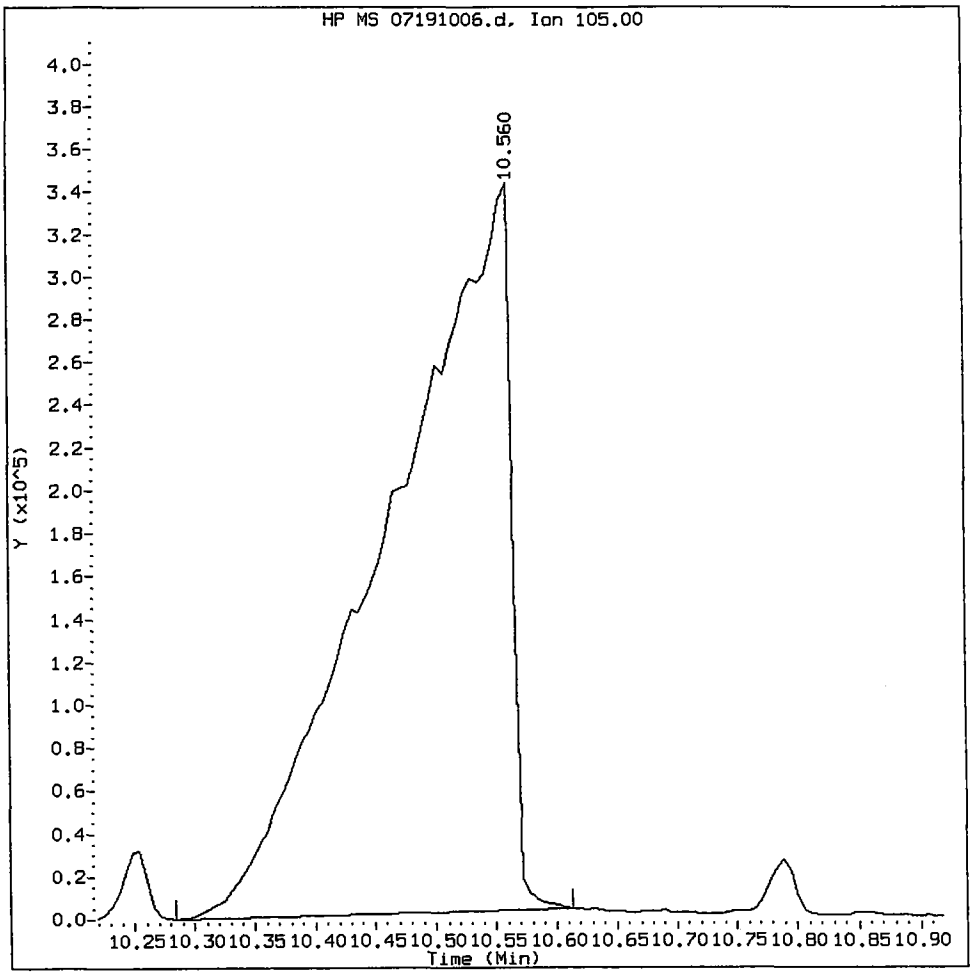


07/21/10



IC600719, /chem3/nt4.i/20100719.b/07191006.d

Benzoic acid Amount: 138.72 Area: 2377813



MANUAL INTEGRATION for Benzoic acid

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT correction

Analyst: AB Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191007.d
Lab Smp Id: IC800719 Client Smp ID: IC800719
Inj Date : 19-JUL-2010 19:48
Operator : JZ Inst ID: nt4.i
Smp Info : IC800719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.737	6.737	(0.774)	1268957	80.0000	77.83
$	2	Phenol-d5	99	8.229	8.229	(0.946)	1256362	80.0000	78.34
	3	Phenol	94	8.252	8.252	(0.949)	1513050	80.0000	72.91
$	5	2-Chlorophenol-d4	132	8.393	8.393	(0.965)	1360372	80.0000	79.05
	4	Bis(2-Chloroethyl)ether	93	8.352	8.352	(0.960)	1181994	80.0000	76.37
	6	2-Chlorophenol	128	8.423	8.423	(0.968)	1496302	80.0000	75.76
	7	1,3-Dichlorobenzene	146	8.640	8.640	(0.993)	1715827	80.0000	76.46
*	8	1,4-Dichlorobenzene-d4	152	8.699	8.699	(1.000)	300879	20.0000	
	9	1,4-Dichlorobenzene	146	8.722	8.722	(1.003)	1723689	80.0000	76.05
$	10	1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	985077	80.0000	76.74
	12	1,2-Dichlorobenzene	146	9.022	9.022	(1.037)	1611941	80.0000	76.37
	11	Benzyl alcohol	108	8.969	8.969	(1.031)	885576	80.0000	75.30
	14	2,2'-oxybis(1-Chloropropane)	45	9.216	9.216	(1.059)	1062470	80.0000	73.03
	13	2-Methylphenol	108	9.181	9.181	(1.055)	1236207	80.0000	77.98
	17	Hexachloroethane	117	9.509	9.509	(1.093)	668079	80.0000	79.59
	16	N-Nitroso-di-n-propylamine	70	9.445	9.445	(1.086)	847679	80.0000	78.12
	15	4-Methylphenol	108	9.415	9.415	(1.082)	1285439	80.0000	78.12
$	18	Nitrobenzene-d5	82	9.627	9.627	(0.896)	1313315	80.0000	75.51
	19	Nitrobenzene	77	9.662	9.662	(0.899)	1268880	80.0000	73.69
	20	Isophorone	82	10.038	10.038	(0.934)	2190082	80.0000	76.58
	21	2-Nitrophenol	139	10.173	10.173	(0.946)	878305	80.0000	81.64
	22	2,4-Dimethylphenol	107	10.256	10.256	(0.954)	1436576	80.0000	75.00
	23	Bis(2-Chloroethoxy)methane	93	10.408	10.408	(0.968)	1496886	80.0000	75.10
	24	Benzoic acid	105	10.567	10.567	(0.983)	2519498	160.000	185.2(M)
	25	2,4-Dichlorophenol	162	10.549	10.549	(0.981)	1322567	80.0000	78.60
	26	1,2,4-Trichlorobenzene	180	10.684	10.684	(0.994)	1436894	80.0000	76.68
*	27	Naphthalene-d8	136	10.749	10.749	(1.000)	1123708	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.784	10.784	(1.003)	3561240	80.0000	66.79
	29 4-Chloroaniline	127	10.908	10.908	(1.015)	1528754	80.0000	71.91
	30 Hexachlorobutadiene	225	11.084	11.084	(1.031)	808142	80.0000	76.01
	31 4-Chloro-3-methylphenol	107	11.701	11.701	(1.089)	1238322	80.0000	80.25
	32 2-Methylnaphthalene	142	11.906	11.906	(1.108)	2607146	80.0000	71.95
	33 Hexachlorocyclopentadiene	237	12.282	12.282	(0.901)	915584	80.0000	89.17
	34 2,4,6-Trichlorophenol	196	12.411	12.411	(0.910)	987062	80.0000	82.41
	35 2,4,5-Trichlorophenol	196	12.470	12.470	(0.915)	1062277	80.0000	87.11
$	36 2-Fluorobiphenyl	172	12.541	12.541	(0.920)	2942574	80.0000	72.19
	37 2-Chloronaphthalene	162	12.699	12.699	(0.931)	2663679	80.0000	73.60
	38 2-Nitroaniline	65	12.923	12.923	(0.948)	601628	80.0000	86.11
	39 Dimethylphthalate	163	13.287	13.287	(0.975)	3167616	80.0000	74.52
	40 Acenaphthylene	152	13.381	13.381	(0.981)	3749859	80.0000	68.69
	41 2,6-Dinitrotoluene	165	13.387	13.387	(0.982)	800837	80.0000	83.72
*	42 Acenaphthene-d10	164	13.633	13.633	(1.000)	665405	20.0000	
	43 3-Nitroaniline	138	13.610	13.610	(0.998)	547360	80.0000	64.90
	44 Acenaphthene	153	13.686	13.686	(1.004)	2609597	80.0000	73.42
	45 2,4-Dinitrophenol	184	13.780	13.780	(1.011)	1116227	160.000	226.1
	46 Dibenzofuran	168	13.951	13.951	(1.023)	3428345	80.0000	72.37
	47 4-Nitrophenol	109	13.880	13.880	(1.018)	524194	80.0000	84.96(M)
	48 2,4-Dinitrotoluene	165	14.021	14.021	(1.028)	1090733	80.0000	86.48
	50 Diethylphthalate	149	14.438	14.438	(1.059)	3129575	80.0000	71.17
	49 Fluorene	166	14.514	14.514	(1.065)	2859491	80.0000	69.76
	51 4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	1441324	80.0000	72.50
	52 4-Nitroaniline	138	14.626	14.626	(1.073)	743720	80.0000	81.39
	53 4,6-Dinitro-2-methylphenol	198	14.697	14.697	(0.916)	1436565	160.000	185.2
	54 N-Nitrosodiphenylamine	169	14.732	14.732	(0.919)	2418926	80.0000	76.28
$	55 2,4,6-Tribromophenol	330	14.937	14.937	(1.096)	412250	80.0000	86.64
	56 4-Bromophenyl-phenylether	248	15.308	15.308	(0.955)	913731	80.0000	79.51
	57 Hexachlorobenzene	284	15.548	15.548	(0.970)	900972	80.0000	76.54
	58 Pentachlorophenol	266	15.842	15.842	(0.988)	681354	80.0000	84.95
*	59 Phenanthrene-d10	188	16.036	16.036	(1.000)	1124245	20.0000	
	60 Phenanthrene	178	16.077	16.077	(1.003)	4063948	80.0000	69.78
	61 Anthracene	178	16.153	16.153	(1.007)	4117176	80.0000	69.11
	62 Carbazole	167	16.424	16.424	(1.024)	3902737	80.0000	72.09
	63 Di-n-butylphthalate	149	17.093	17.093	(1.066)	4579430	80.0000	66.34
	64 Fluoranthene	202	18.027	18.027	(1.124)	4175102	80.0000	69.19
	65 Pyrene	202	18.397	18.397	(0.902)	4362118	80.0000	71.04
$	66 Terphenyl-d14	244	18.674	18.674	(0.916)	2749894	80.0000	73.34
	67 Butylbenzylphthalate	149	19.543	19.543	(0.958)	2421300	80.0000	77.70
	68 Benzo(a)anthracene	228	20.365	20.365	(0.999)	4068026	80.0000	71.67
*	69 Chrysene-d12	240	20.389	20.389	(1.000)	968321	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.348	20.348	(0.998)	1323573	80.0000	72.10
	71 Chrysene	228	20.436	20.436	(1.002)	3954441	80.0000	71.18
	72 bis(2-Ethylhexyl)phthalate	149	20.518	20.518	(0.956)	3227271	80.0000	76.14
*	134 Di-n-octylphthalate-d4	153	21.458	21.458	(1.000)	1492891	20.0000	
	73 Di-n-octylphthalate	149	21.470	21.470	(1.001)	4907690	80.0000	66.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.040	22.040	(0.976)	4767186	80.0000	78.45
75	Benzo(k)fluoranthene	252	22.075	22.075	(0.978)	3917576	80.0000	63.64(H)
187	Total Benzofluoranthenes	252	22.075	22.075	(0.978)	8152817	160.000	141.5
76	Benzo(a)pyrene	252	22.510	22.510	(0.997)	4064073	80.0000	75.39
* 77	Perylene-d12	264	22.580	22.580	(1.000)	976271	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.454	24.454	(1.083)	4819802	80.0000	83.27
79	Dibenzo(a,h)anthracene	278	24.477	24.477	(1.084)	3918538	80.0000	84.21
80	Benzo(g,h,i)perylene	276	24.989	24.989	(1.107)	4132422	80.0000	83.52
90	N-Nitrosodimethylamine	74	4.281	4.281	(0.492)	697583	80.0000	79.59
103	Pyridine	79	4.240	4.240	(0.487)	1255622	80.0000	83.07
91	Aniline	93	8.252	8.252	(0.949)	1571926	80.0000	72.57
105	1-methylnaphthalene	142	12.082	12.082	(1.124)	2580932	80.0000	72.71
93	Benzidine	184	18.251	18.251	(0.895)	1168136	80.0000	63.96
111	Azobenzene (1,2-DP-Hydrazine)	77	14.779	14.779	(1.084)	2355672	80.0000	71.63
143	1,4-Dioxane	88	3.494	3.494	(0.402)	447525	80.0000	
$ 137	d8-1,4-Dioxane	96	3.424	3.424	(0.394)	475461	80.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.247	12.247	(0.898)	1339605	80.0000	76.55
120	2,3,4,6-Tetrachlorophenol	232	14.221	14.221	(1.043)	860255	80.0000	85.21
144	alpha-Terpineol	59	10.790	10.790	(1.004)	657935	80.0000	70.00
98	Retene	219	18.932	18.932	(0.929)	1623969	80.0000	78.92
133	Butylatedhydroxytoluene	205	13.774	13.774	(1.010)	2093075	80.0000	66.04
115	Tributyl Phosphate	99	14.802	14.802	(0.923)	3019559	80.0000	70.77
116	Dibutyl Phenyl Phosphate	175	16.535	16.535	(1.031)	2635204	80.0000	75.18
117	Butyl Diphenyl Phosphate	94	18.245	18.245	(0.895)	786388	80.0000	79.41
118	Triphenyl Phosphate	326	19.866	19.866	(0.974)	782394	80.0000	79.73
123	Acetophenone	105	9.392	9.392	(0.874)	1783025	80.0000	74.73
179	n-Decane	57	8.505	8.505	(0.978)	874156	80.0000	72.58
180	n-Octadecane	57	15.883	15.883	(0.990)	1091994	80.0000	70.68
168	Pentachlorobenzene	250	13.992	13.992	(1.026)	1076925	80.0000	77.68
113	Diphenyl Oxide	170	12.870	12.870	(0.944)	2584282	80.0000	72.18
112	Biphenyl	154	12.682	12.682	(0.930)	2852174	80.0000	69.29
110	Tetrachloroguaiacol	247	15.971	15.971	(0.996)	1042306	160.000	158.9
109	3,4,5-Trichloroguaiacol	213	14.315	14.315	(0.893)	548942	80.0000	81.41
181	3,4,6-Trichloroguaiacol	211	14.444	14.444	(0.901)	634089	80.0000	79.98
108	4,5,6-Trichloroguaiacol	213	15.349	15.349	(0.957)	593948	80.0000	84.36
184	3,4-Dichloroguaiacol	192	12.764	12.764	(0.936)	591226	80.0000	85.84
107	4,5-Dichloroguaiacol	192	13.545	13.545	(0.994)	858522	80.0000	88.63
182	4,6-Dichloroguaiacol	192	13.580	13.580	(0.996)	689458	80.0000	80.65
185	4-Chloroguaiacol	115	11.660	11.660	(1.340)	395259	40.0000	43.40
106	Guaiacol	124	9.645	9.645	(1.109)	1270875	80.0000	79.24

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191007.d
Lab Smp Id: IC800719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC800719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	300879	-15.60
27 Naphthalene-d8	1293412	646706	2586824	1123708	-13.12
42 Acenaphthene-d10	785897	392948	1571794	665405	-15.33
59 Phenanthrene-d10	1313990	656995	2627980	1124245	-14.44
69 Chrysene-d12	1155293	577646	2310586	968321	-16.18
134 Di-n-octylphthala	1825297	912648	3650594	1492891	-18.21
77 Perylene-d12	1146289	573144	2292578	976271	-14.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.01
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.06
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.05
59 Phenanthrene-d10	16.03	15.53	16.53	16.04	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

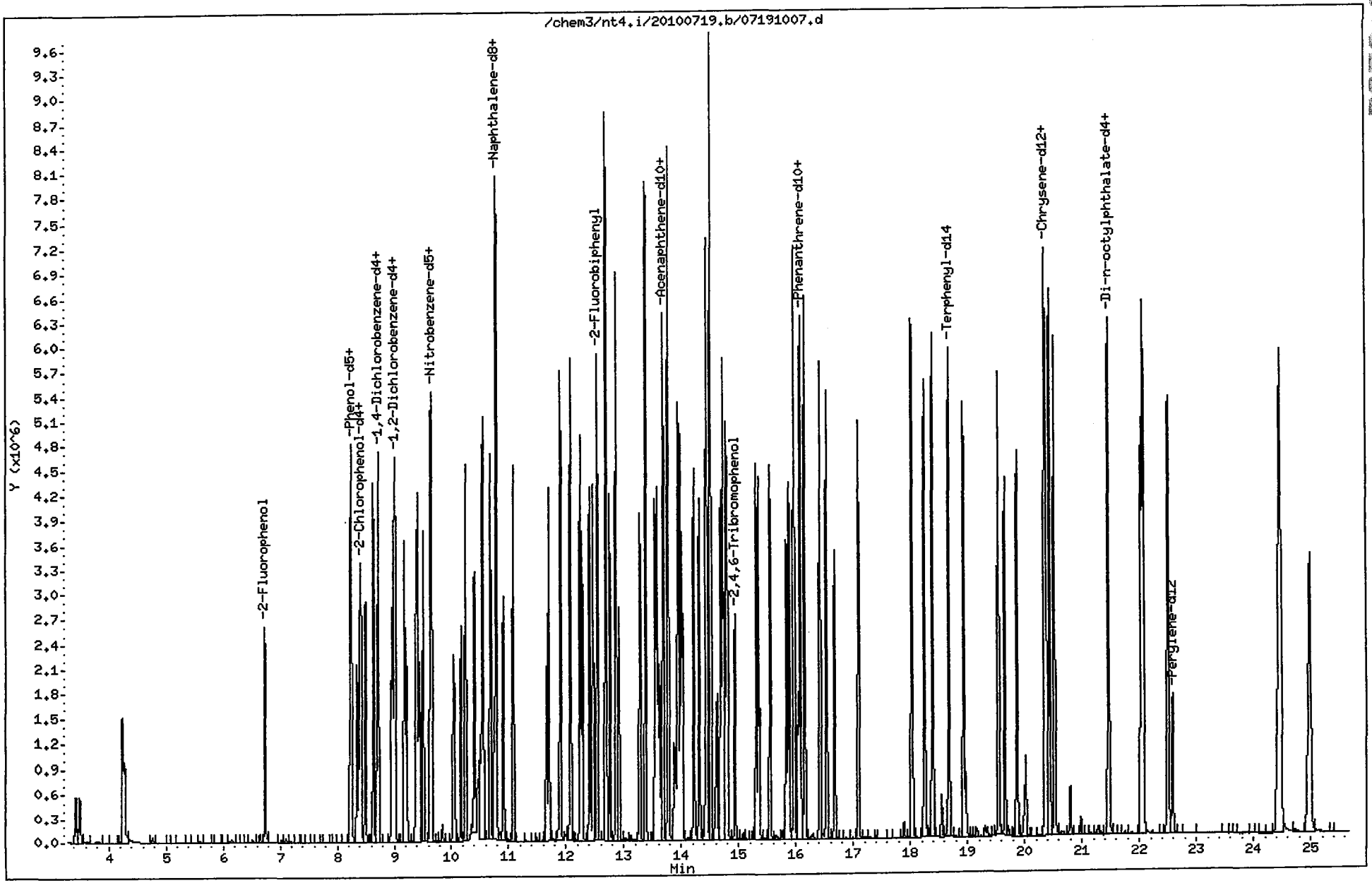
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191007.d
Date : 19-JUL-2010 19:48
Client ID: IC800719
Sample Info: IC800719

Instrument: nt4.i

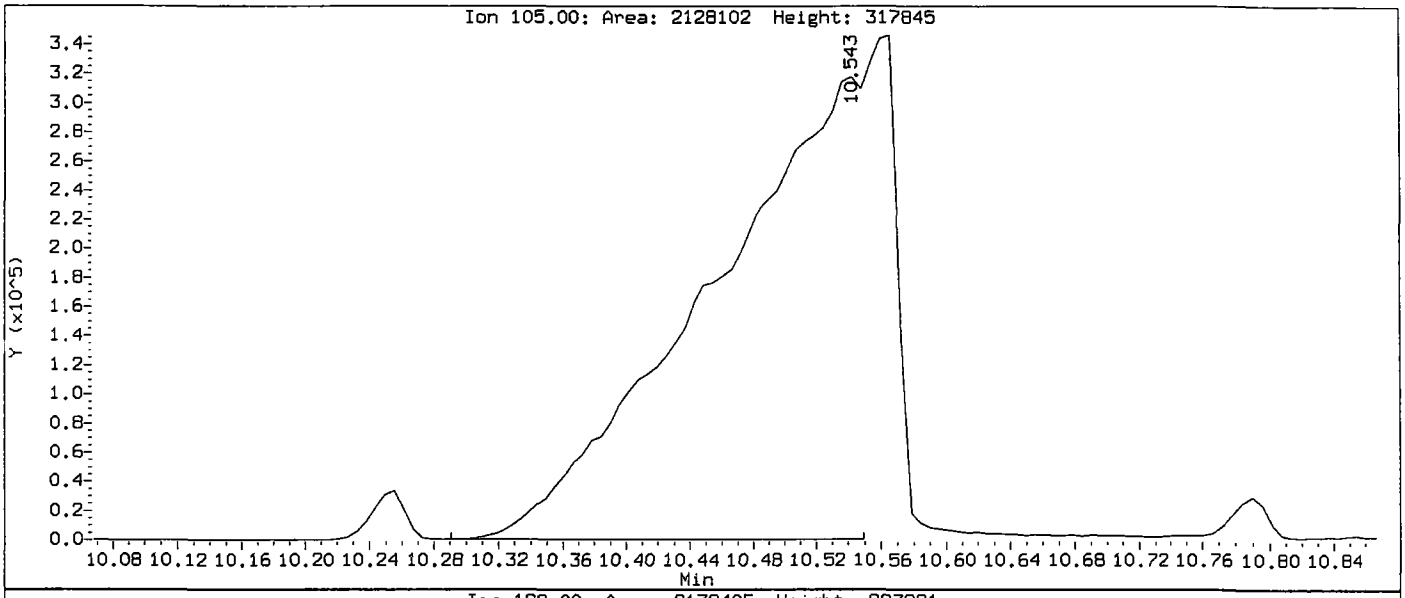
Operator: JZ
Column diameter: 0.32

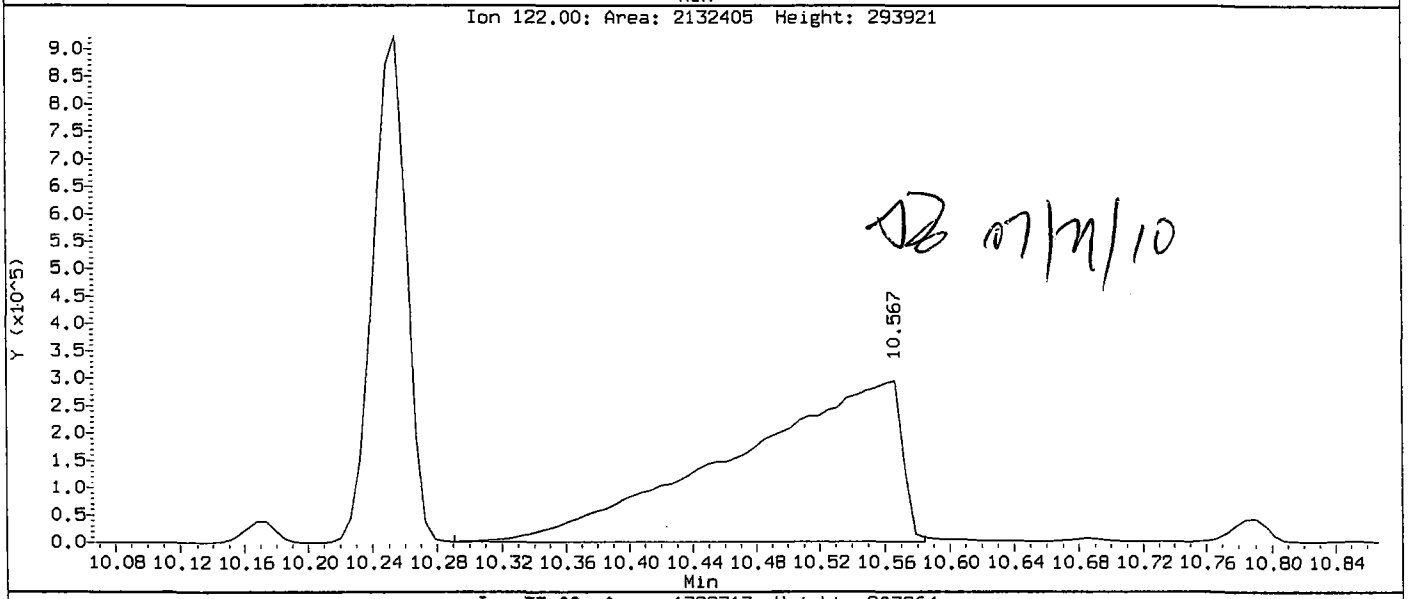
Column phase: ZB-5msi



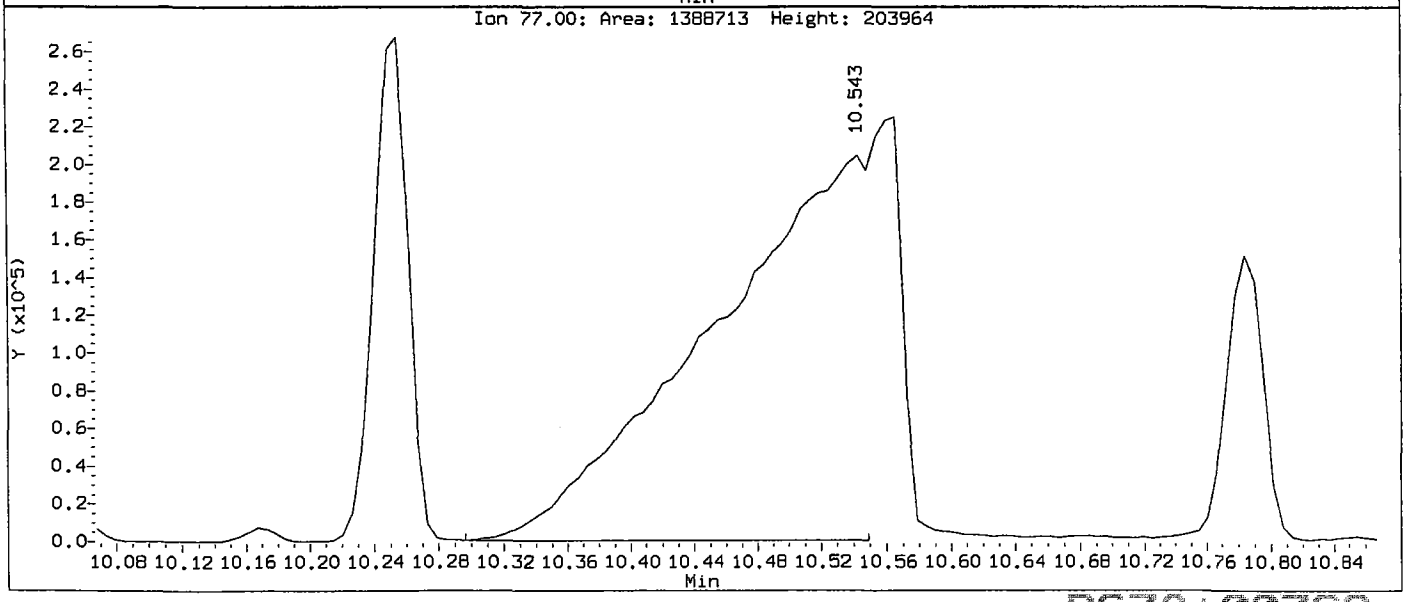
Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: Benzoic acid
CAS Number: 65-85-0



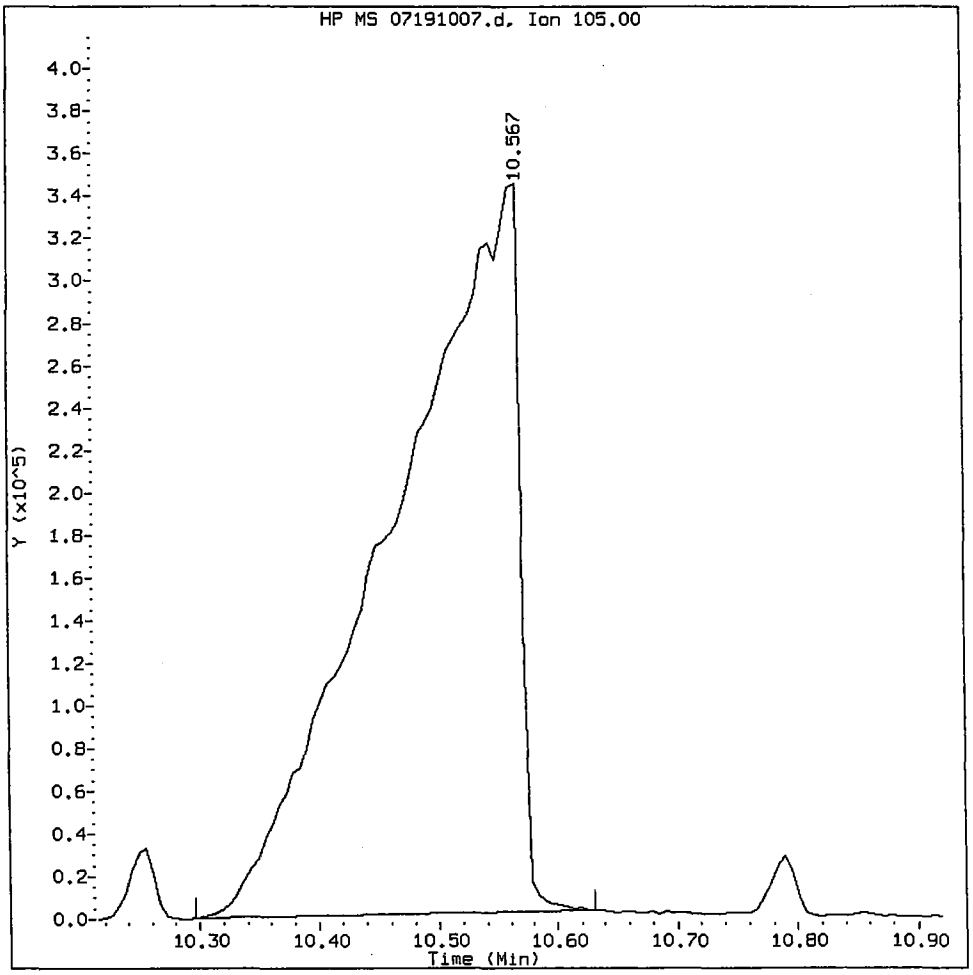


DB 07/21/10



IC800719, /chem3/nt4.i/20100719.b/07191007.d

Benzoic acid Amount: 185.17 Area: 2519498



MANUAL INTEGRATION for Benzoic acid

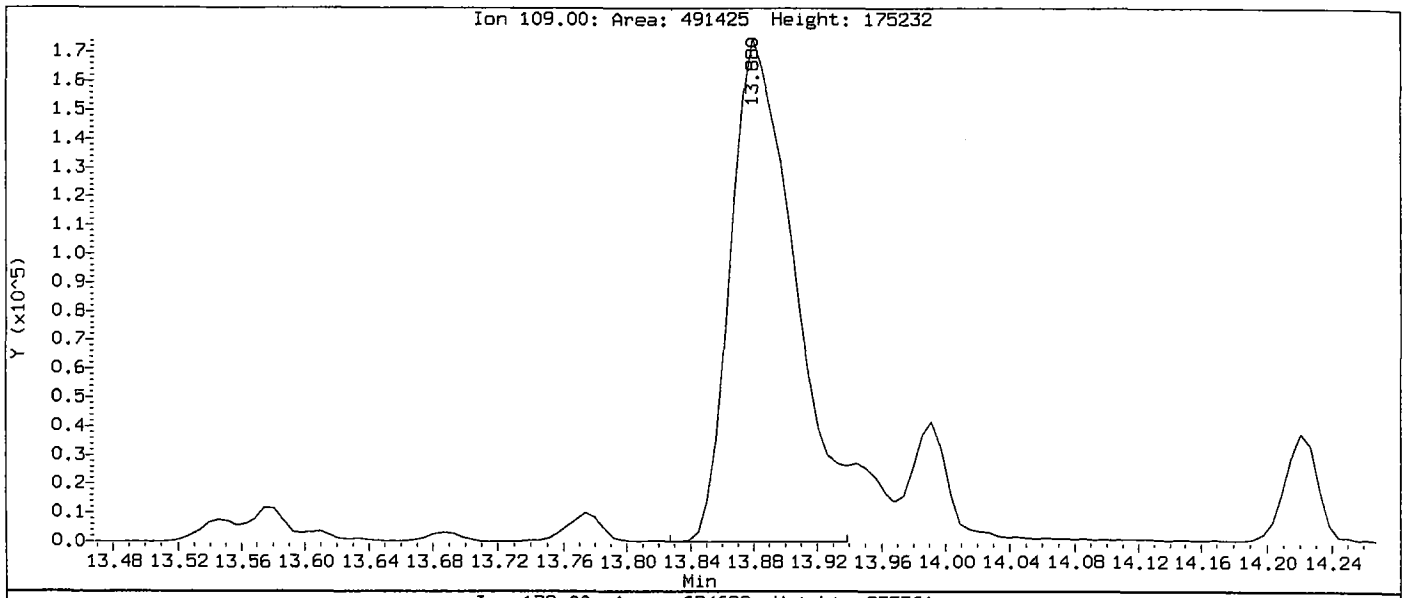
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

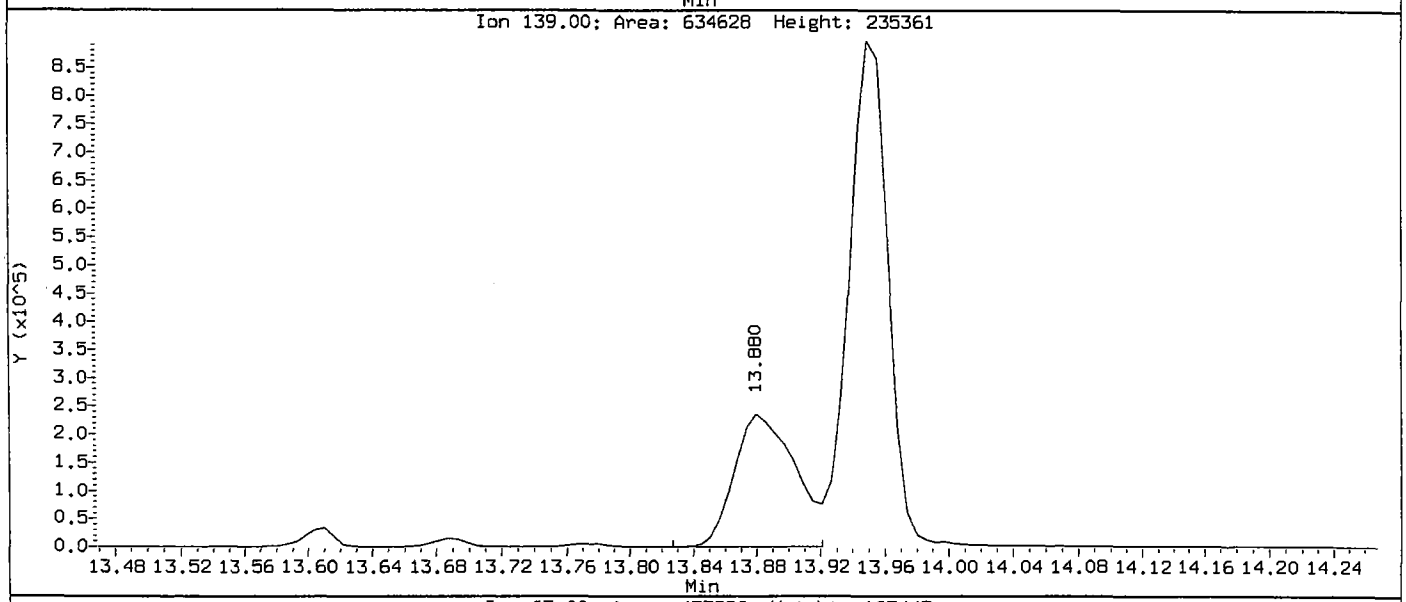
5. Other _____

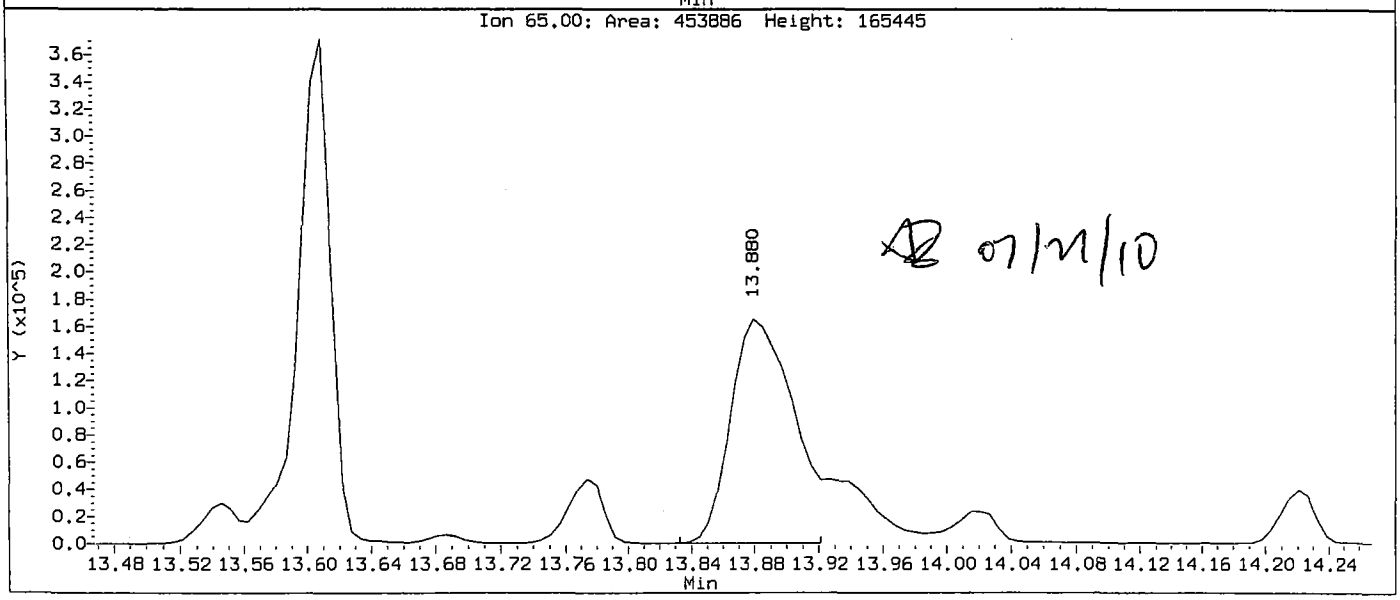
Analyst: AD Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: 4-Nitrophenol
CAS Number: 100-02-7



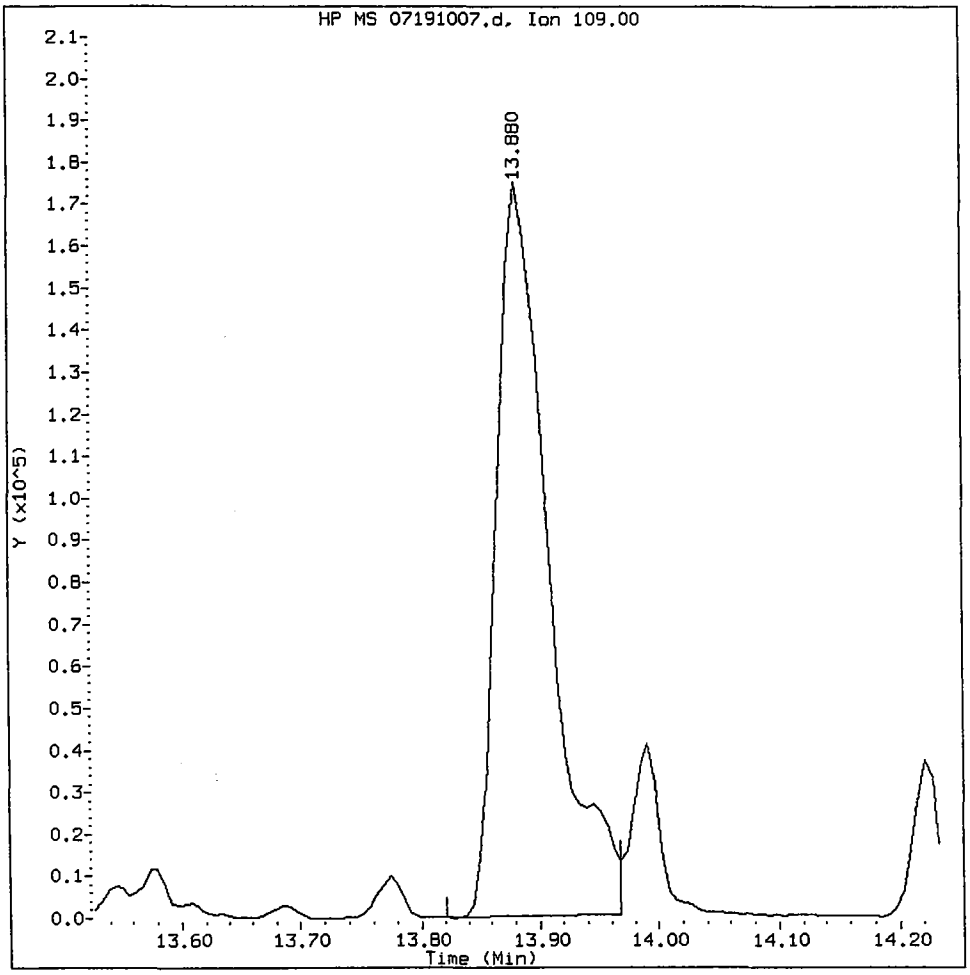




AB 07/21/10

IC800719, /chem3/nt4.i/20100719.b/07191007.d

4-Nitrophenol Amount: 84.96 Area: 524194



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191008.d
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Inj Date : 19-JUL-2010 20:21
Operator : JZ Inst ID: nt4.i
Smp Info : ICV0719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:42 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.728	6.737	(0.774)	396455	25.2478	25.25(R)
$	2 Phenol-d5	99	8.214	8.229	(0.945)	401900	26.0189	26.02(R)
	3 Phenol	94	8.232	8.252	(0.947)	507383	25.3845	25.38
$	5 2-Chlorophenol-d4	132	8.384	8.393	(0.965)	425250	25.6577	25.66(R)
	4 Bis(2-Chloroethyl)ether	93	8.343	8.352	(0.960)	367789	24.6737	24.67
	6 2-Chlorophenol	128	8.414	8.423	(0.968)	485433	25.5200	25.52
	7 1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	535892	24.7955	24.80
*	8 1,4-Dichlorobenzene-d4	152	8.690	8.699	(1.000)	289791	20.0000	
	9 1,4-Dichlorobenzene	146	8.719	8.722	(1.003)	544224	24.9313	24.93
$	10 1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	312016	25.2369	25.24(R)
	12 1,2-Dichlorobenzene	146	9.013	9.022	(1.037)	511143	25.1418	25.14
	11 Benzyl alcohol	108	8.948	8.969	(1.030)	285456	25.2005	25.20
	14 2,2'-oxybis(1-Chloropropane)	45	9.207	9.216	(1.059)	354325	25.2878	25.29
	13 2-Methylphenol	108	9.166	9.181	(1.055)	402997	26.3923	26.39
	17 Hexachloroethane	117	9.506	9.509	(1.094)	201712	24.9488	24.95
	16 N-Nitroso-di-n-propylamine	70	9.424	9.445	(1.084)	265210	25.3755	25.38
	15 4-Methylphenol	108	9.395	9.415	(1.081)	414665	26.1633	26.16
$	18 Nitrobenzene-d5	82	9.618	9.627	(0.896)	428922	26.6141	26.61(R)
	19 Nitrobenzene	77	9.647	9.662	(0.898)	407643	25.5470	25.55
	20 Isophorone	82	10.017	10.038	(0.933)	666101	25.1364	25.14
	21 2-Nitrophenol	139	10.164	10.173	(0.946)	269470	27.0302	27.03
	22 2,4-Dimethylphenol	107	10.241	10.256	(0.954)	462633	26.0654	26.07
	23 Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	459521	24.8796	24.88
	24 Benzoic acid	105	10.446	10.567	(0.973)	697191	48.8442	48.84
	25 2,4-Dichlorophenol	162	10.534	10.549	(0.981)	415496	26.6463	26.65
	26 1,2,4-Trichlorobenzene	180	10.681	10.684	(0.995)	426723	24.5734	24.57
*	27 Naphthalene-d8	136	10.740	10.749	(1.000)	1041288	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	28 Naphthalene	128	10.775	10.784	(1.003)	1251278	25.3254	25.33
	29 4-Chloroaniline	127	10.899	10.908	(1.015)	503039	25.5337	25.53
	30 Hexachlorobutadiene	225	11.081	11.084	(1.032)	242046	24.5681	24.57
	31 4-Chloro-3-methylphenol	107	11.692	11.701	(1.089)	388357	27.1596	27.16
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	831770	24.7718	24.77
	33 Hexachlorocyclopentadiene	237	12.279	12.282	(0.901)	247661	26.7783	26.78
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	296058	26.0188	26.02
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	310779	26.8272	26.83
$	36 2-Fluorobiphenyl	172	12.532	12.541	(0.920)	972175	25.1079	25.11(R)
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	857433	24.9410	24.94
	38 2-Nitroaniline	65	12.908	12.923	(0.947)	185457	27.9414	27.94
	39 Dimethylphthalate	163	13.266	13.287	(0.974)	1000711	24.7816	24.78
	40 Acenaphthylene	152	13.372	13.381	(0.981)	1312841	25.3168	25.32
	41 2,6-Dinitrotoluene	165	13.366	13.387	(0.981)	241057	26.5288	26.53
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	632100	20.0000	
	43 3-Nitroaniline	138	13.589	13.610	(0.997)	219280	27.3683	27.37
	44 Acenaphthene	153	13.677	13.686	(1.004)	833956	24.7009	24.70
	45 2,4-Dinitrophenol	184	13.754	13.780	(1.009)	289825	53.8946	53.89
	46 Dibenzofuran	168	13.942	13.951	(1.023)	1139736	25.3251	25.33
	47 4-Nitrophenol	109	13.865	13.880	(1.018)	152266	26.8847	26.88
	48 2,4-Dinitrotoluene	165	14.006	14.021	(1.028)	322811	26.9428	26.94
	50 Diethylphthalate	149	14.429	14.438	(1.059)	1070437	25.6257	25.63
	49 Fluorene	166	14.500	14.514	(1.064)	1006902	25.8587	25.86
	51 4-Chlorophenyl-phenylether	204	14.511	14.514	(1.065)	481921	25.5176	25.52
	52 4-Nitroaniline	138	14.594	14.626	(1.071)	222189	25.5977	25.60
	53 4,6-Dinitro-2-methylphenol	198	14.670	14.697	(0.915)	406459	55.7299	55.73
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	754750	25.3136	25.31
$	55 2,4,6-Tribromophenol	330	14.928	14.937	(1.096)	122806	27.1681	27.17(R)
	56 4-Bromophenyl-phenylether	248	15.299	15.308	(0.955)	272268	25.1977	25.20
	57 Hexachlorobenzene	284	15.539	15.548	(0.970)	272787	24.6474	24.65
	58 Pentachlorophenol	266	15.827	15.842	(0.988)	198545	26.3285	26.33
*	59 Phenanthrene-d10	188	16.027	16.036	(1.000)	1057026	20.0000	
	60 Phenanthrene	178	16.062	16.077	(1.002)	1373128	25.0764	25.08
	61 Anthracene	178	16.139	16.153	(1.007)	1428848	25.5078	25.51
	62 Carbazole	167	16.409	16.424	(1.024)	1270670	24.9632	24.96
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	1704804	26.2672	26.27
	64 Fluoranthene	202	18.018	18.027	(1.124)	1449527	25.5494	25.55
	65 Pyrene	202	18.383	18.397	(0.902)	1489120	24.8406	24.84
$	66 Terphenyl-d14	244	18.665	18.674	(0.916)	920765	25.1526	25.15(R)
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	787143	25.8738	25.87
	68 Benzo(a)anthracene	228	20.350	20.365	(0.999)	1389923	25.0808	25.08
*	69 Chrysene-d12	240	20.380	20.389	(1.000)	945392	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.339	20.348	(0.998)	460373	25.6856	25.69
	71 Chrysene	228	20.421	20.436	(1.002)	1348854	24.8683	24.87
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	1091697	26.3692	26.37
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1458222	20.0000	
	73 Di-n-octylphthalate	149	21.461	21.470	(1.001)	1841837	25.4048	25.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
74	Benzo(b)fluoranthene	252	22.019	22.040	(0.976)	1372217	24.6520	24.65
75	Benzo(k)fluoranthene	252	22.054	22.075	(0.977)	1482389	26.2902	26.29
187	Total Benzofluoranthenes	252	22.054	22.075	(0.977)	2706497	51.2879	51.29
76	Benzo(a)pyrene	252	22.489	22.510	(0.996)	1275956	25.8408	25.84
* 77	Perylene-d12	264	22.571	22.580	(1.000)	894258	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.416	24.454	(1.082)	1345166	25.3704	25.37
79	Dibenzo(a,h)anthracene	278	24.439	24.477	(1.083)	1114931	26.1572	26.16
80	Benzo(g,h,i)perylene	276	24.944	24.989	(1.105)	1147098	25.3100	25.31
90	N-Nitrosodimethylamine	74	4.261	4.281	(0.490)	209520	24.8187	24.82
103	Pyridine	79	4.237	4.240	(0.488)	377090	25.9012	25.90
91	Aniline	93	8.237	8.252	(0.948)	518241	24.8402	24.84
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	809992	24.6257	24.63
93	Benzidine	184	18.242	18.251	(0.895)	409767	23.6579	23.66
111	Azobenzene (1,2-DP-Hydrazine)	77	14.764	14.779	(1.084)	804253	25.7433	25.74
143	1,4-Dioxane	88	3.485	3.494	(0.401)	136073	24.3666	24.37
$ 137	d8-1,4-Dioxane	96	3.415	3.424	(0.393)	142232	24.4844	24.48(R)
151	1,2,4,5-Tetrachlorobenzene	216	12.238	12.247	(0.898)	410665	24.7046	24.70
120	2,3,4,6-Tetrachlorophenol	232	14.212	14.221	(1.043)	258011	26.9020	26.90
144	alpha-Terpineol	59	10.775	10.790	(1.003)	218542	25.0926	25.09
98	Retene	219	18.923	18.932	(0.928)	496626	24.7205	24.72
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	784653	26.0616	26.06
115	Tributyl Phosphate	99	14.776	14.802	(0.922)	1064967	26.5486	26.55
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.031)	868517	26.3522	26.35
117	Butyl Diphenyl Phosphate	94	18.236	18.245	(0.895)	245396	25.3828	25.38
118	Triphenyl Phosphate	326	19.857	19.866	(0.974)	242593	25.3227	25.32
123	Acetophenone	105	9.377	9.392	(0.873)	562165	25.4250	25.43
179	n-Decane	57	8.496	8.505	(0.978)	293017	25.2600	25.26
180	n-Octadecane	57	15.880	15.883	(0.991)	374396	25.7724	25.77
168	Pentachlorobenzene	250	13.983	13.992	(1.026)	321693	24.4279	24.43
113	Diphenyl Oxide	170	12.867	12.870	(0.944)	832301	24.4721	24.47
112	Biphenyl	154	12.673	12.682	(0.930)	983481	25.1520	25.15
110	Tetrachloroguaiacol	247	15.951	15.971	(0.995)	324626	52.6521	52.65
109	3,4,5-Trichloroguaiacol	213	14.306	14.315	(0.893)	168964	26.6531	26.65
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.900)	200402	26.8849	26.88
108	4,5,6-Trichloroguaiacol	213	15.340	15.349	(0.957)	171608	25.9247	25.92
184	3,4-Dichloroguaiacol	192	12.755	12.764	(0.936)	166207	25.4030	25.40
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	227452	24.7186	24.72
182	4,6-Dichloroguaiacol	192	13.566	13.580	(0.996)	212467	26.1631	26.16
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	114163	13.0162	13.02
106	Guaiacol	124	9.636	9.645	(1.109)	392832	25.4304	25.43

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191008.d
Lab Smp Id: ICV0719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: ICV0719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	289791	-18.71
27 Naphthalene-d8	1293412	646706	2586824	1041288	-19.49
42 Acenaphthene-d10	785897	392948	1571794	632100	-19.57
59 Phenanthrene-d10	1313990	656995	2627980	1057026	-19.56
69 Chrysene-d12	1155293	577646	2310586	945392	-18.17
134 Di-n-octylphthala	1825297	912648	3650594	1458222	-20.11
77 Perylene-d12	1146289	573144	2292578	894258	-21.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.09
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	-0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.04

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20100719
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	25.00	25.38	101.54	
4	Bis(2-Chloroethyl)	25.00	24.67	98.69	
6	2-Chlorophenol	25.00	25.52	102.08	
7	1,3-Dichlorobenzen	25.00	24.80	99.18	
9	1,4-Dichlorobenzen	25.00	24.93	99.73	
11	Benzyl alcohol	25.00	25.20	100.80	
12	1,2-Dichlorobenzen	25.00	25.14	100.57	
13	2-Methylphenol	25.00	26.39	105.57	
14	2,2'-oxybis(1-Chlo	25.00	25.29	101.15	
15	4-Methylphenol	25.00	26.16	104.65	
16	N-Nitroso-di-n-pro	25.00	25.38	101.50	
17	Hexachloroethane	25.00	24.95	99.80	
19	Nitrobenzene	25.00	25.55	102.19	
20	Isophorone	25.00	25.14	100.55	
21	2-Nitrophenol	25.00	27.03	108.12	
22	2,4-Dimethylphenol	25.00	26.07	104.26	
23	Bis(2-Chloroethoxy	25.00	24.88	99.52	
24	Benzoic acid	50.00	48.84	97.69	
25	2,4-Dichlorophenol	25.00	26.65	106.59	
26	1,2,4-Trichloroben	25.00	24.57	98.29	
28	Naphthalene	25.00	25.33	101.30	
29	4-Chloroaniline	25.00	25.53	102.13	
30	Hexachlorobutadien	25.00	24.57	98.27	
31	4-Chloro-3-methylp	25.00	27.16	108.64	
32	2-Methylnaphthalen	25.00	24.77	99.09	
33	Hexachlorocyclopen	25.00	26.78	107.11	
34	2,4,6-Trichlorophe	25.00	26.02	104.08	
35	2,4,5-Trichlorophe	25.00	26.83	107.31	
37	2-Chloronaphthalen	25.00	24.94	99.76	
38	2-Nitroaniline	25.00	27.94	111.77	
39	Dimethylphthalate	25.00	24.78	99.13	
40	Acenaphthylene	25.00	25.32	101.27	
41	2,6-Dinitrotoluene	25.00	26.53	106.12	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	27.37	109.47	
44	Acenaphthene	25.00	24.70	98.80	
45	2,4-Dinitrophenol	50.00	53.89	107.79	
46	Dibenzofuran	25.00	25.33	101.30	
47	4-Nitrophenol	25.00	26.88	107.54	
48	2,4-Dinitrotoluene	25.00	26.94	107.77	
49	Fluorene	25.00	25.86	103.43	
50	Diethylphthalate	25.00	25.63	102.50	
51	4-Chlorophenyl-phe	25.00	25.52	102.07	
52	4-Nitroaniline	25.00	25.60	102.39	
53	4,6-Dinitro-2-meth	50.00	55.73	111.46	
54	N-Nitrosodiphenyla	25.00	25.31	101.25	
56	4-Bromophenyl-phen	25.00	25.20	100.79	
57	Hexachlorobenzene	25.00	24.65	98.59	
58	Pentachlorophenol	25.00	26.33	105.31	
60	Phenanthrene	25.00	25.08	100.31	
61	Anthracene	25.00	25.51	102.03	
63	Di-n-butylphthalat	25.00	26.27	105.07	
64	Fluoranthene	25.00	25.55	102.20	
65	Pyrene	25.00	24.84	99.36	
67	Butylbenzylphthala	25.00	25.87	103.50	
68	Benzo(a)anthracene	25.00	25.08	100.32	
70	3,3'-Dichlorobenzi	25.00	25.69	102.74	
71	Chrysene	25.00	24.87	99.47	
72	bis(2-Ethylhexyl)p	25.00	26.37	105.48	
73	Di-n-octylphthalat	25.00	25.40	101.62	
74	Benzo(b)fluoranthe	25.00	24.65	98.61	
75	Benzo(k)fluoranthe	25.00	26.29	105.16	
76	Benzo(a)pyrene	25.00	25.84	103.36	
78	Indeno(1,2,3-cd)py	25.00	25.37	101.48	
79	Dibenzo(a,h)anthra	25.00	26.16	104.63	
80	Benzo(g,h,i)peryle	25.00	25.31	101.24	
90	N-Nitrosodimethyla	25.00	24.82	99.27	
91	Aniline	25.00	24.84	99.36	
93	Benzidine	25.00	23.66	94.63	
105	1-methylnaphthalen	25.00	24.63	98.50	
120	2,3,4,6-Tetrachlor	25.00	26.90	107.61	
151	1,2,4,5-Tetrachlor	25.00	24.70	98.82	
110	Tetrachloroguaiaco	50.00	52.65	105.30	
109	3,4,5-Trichlorogua	25.00	26.65	106.61	
181	3,4,6-Trichlorogua	25.00	26.88	107.54	
108	4,5,6-Trichlorogua	25.00	25.92	103.70	
184	3,4-Dichloroguaiac	25.00	25.40	101.61	
107	4,5-Dichloroguaiac	25.00	24.72	98.87	
182	4,6-Dichloroguaiac	25.00	26.16	104.65	
185	4-Chloroguaiacol	12.50	13.02	104.13	
106	Guaiacol	25.00	25.43	101.72	

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20100719
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

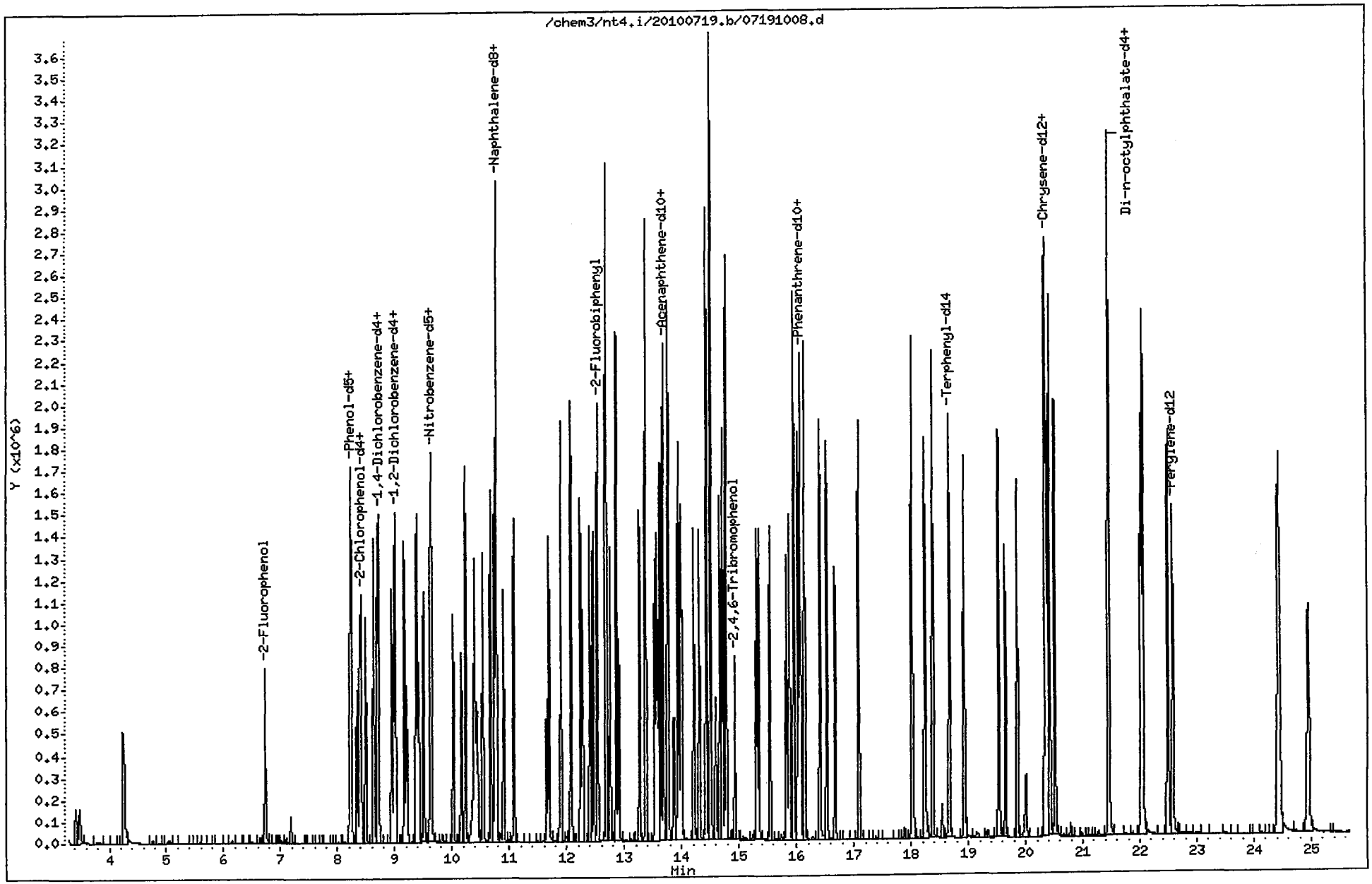
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.25	100.99	
$ 2 Phenol-d5	25.00	26.02	104.08	
$ 5 2-Chlorophenol-d4	25.00	25.66	102.63	
$ 10 1,2-Dichlorobenzen	25.00	25.24	100.95	
$ 18 Nitrobenzene-d5	25.00	26.61	106.46	
$ 36 2-Fluorobiphenyl	25.00	25.11	100.43	
$ 55 2,4,6-Tribromophen	25.00	27.17	108.67	
$ 66 Terphenyl-d14	25.00	25.15	100.61	
$ 137 d8-1,4-Dioxane	25.00	24.48	97.94	

Data File: /chem3/nt4.i/20100719.b/07191008.d
Date : 19-JUL-2010 20:21
Client ID: ICV0719
Sample Info: ICV0719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Semivolatile PAH Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG78

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/17/10 Analysis: 8270 Analyst: AR

GC Program: ABV.gpl Column No: 17217 Column Type: ZB-5MS,

Instrument Tune (.U or .CT.): cc0629 EM Voltage: 1543

Calibration File: 08160001 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1747-3, 1733-1	
	1736-1, 1736-1	
	15019, 1743-5	
	1754-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt6.i/20100817.b

	Time	Filename	LabID	ClientId	DF											
1	1003	08171001.D	CC0817	CC0817	1	6.95	146831	9.01	471677	11.85	271376	14.19	437424	18.46	496791	20.59	491254	19.71	591733
2	1035	08171002.D	RI24L	FD2-081110	5	6.95	162385	9.01	535205	11.85	307820	14.19	492228	18.46	552085	19.71	652824	20.60	591385
3	1116	08171003.D	RG78MBS1	RG78MBS1	1	9.01	574562	11.85	332601	14.19	530455	18.45	589806	20.59	569012				
4	1149	08171004.D	RG78LCSS1	RG78LCSS1	1	9.01	592795	11.85	340576	14.19	557562	18.46	599679	20.59	580813				
5	1222	08171005.D	RG78A	PSB9A-11-13.	1	9.01	573989	11.84	341380	14.18	543011	18.45	605965	20.58	566477				
6	1255	08171006.D	RG78B	PSB9A-1.5-2-	1	9.01	617580	11.84	367180	14.18	587454	18.45	637009	20.59	605504				
7	1328	08171007.D	RG78C	PSB9A-2-4-07	1	9.01	612112	11.84	361935	14.18	582060	18.45	636281	20.59	601646				
8	1401	08171008.D	RG78D	PSB9A-4-6-07	1	9.01	591661	11.84	342924	14.19	550666	18.45	612197	20.59	585871				
9	1435	08171009.D	RG78E	PSB9A-0-0.5-	1	9.01	610080	11.84	342543	14.19	529156	18.45	543728	20.59	546367				
10	1508	08171010.D	RG78F	PSB10-0-0.5-	3	9.01	512395	11.84	299721	14.19	472624	18.46	672437	20.61	748151				
11	1541	08171011.D	RG78G	PSB10-1.5-2-	1	9.01	610484	11.85	350790	14.19	549501	18.46	688289	20.59	742251				
12	1614	08171012.D	RG78H	PSB10-2-4-07	1	9.01	596735	11.85	338642	14.19	539987	18.46	676227	20.60	723009				
13	1647	08171013.D	RG78I	PSB10-4-6-07	1	9.01	582869	11.85	330859	14.19	524227	18.46	739045	20.61	812300				
14	1720	08171014.D	RG78J	PSB10-8.5-10	1	9.01	587430	11.85	335423	14.19	533260	18.46	671258	20.59	723584				
15	1754	08171015.D	RG58I	PSB23-2-4-07	1	9.01	973963	11.85	584224	14.19	932711	18.46	1171301	20.60	1220780				
16	1827	08171016.D	RG78JMS	PSB10-8.5-10	1	9.01	571458	11.85	321060	14.19	523652	18.46	647186	20.59	703203				
17	1900	08171017.D	RG78JMSD	PSB10-8.5-10	1	9.01	596947	11.85	336897	14.19	547711	18.46	702006	20.60	760326				
18	1933	08171018.D	RG58I	PSB23-2-4-07	1	9.01	544376	11.85	309944	14.19	496087	18.46	620437	20.59	645398				
19	2006	08171019.D	RG78K	PSB10-14-15.	1	9.01	1099777	11.85	651775	14.19	1031529	18.46	1300291	20.60	1325625				
20	2038	08171020.D	RG78L	PSB10-20-25-	1	9.01	603096	11.85	347854	14.19	551394	18.46	699310	20.59	720836				
21	2111	08171021.D	RG78S	PSB9-8.5-9.5	1	9.01	603766	11.84	352420	14.19	561483	18.45	702160	20.59	701047				

55 out Re-ext AR

25 out AR

35 amount doubled AR

35 out AR

Maintenance / Comments

AR 08/18/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RG78 Client ID: Floyd / Snider

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/23/10 Analysis Start Date: 8/17 ; 8/18/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

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

8/17: Samples A-E, G-J, LCS + MB/LCS + MS/MSD

8/18: Samples F & K

Sample E: SS, d14-p-Terphenyl, recovery out of QC limit at low bias. Will be re-extracted.

Forms included.

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 08/18/10

Reviewer: _____ **Date:** 8/19/10

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt6.i/20100817.b

ARI Job No.: CC08 Method: SW846072310.m Instrument: nt6.i Date: 17-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1003	08171001.D	CC0817	CC0817	1	NO MANUAL INTEGRATION
1116	08171003.D	RG78MBS1	RG78MBS1	1	NO MANUAL INTEGRATION
1149	08171004.D	RG78LCSS1	RG78LCSS1	1	NO MANUAL INTEGRATION
1222	08171005.D	RG78A	PSB9A-11-1	1	NO MANUAL INTEGRATION
1255	08171006.D	RG78B	PSB9A-1.5-	1	NO MANUAL INTEGRATION
1328	08171007.D	RG78C	PSB9A-2-4-	1	NO MANUAL INTEGRATION
1401	08171008.D	RG78D	PSB9A-4-6-	1	NO MANUAL INTEGRATION
1435	08171009.D	RG78E	PSB9A-0-0.	1	NO MANUAL INTEGRATION
1541	08171011.D	RG78G	PSB10-1.5-	1	NO MANUAL INTEGRATION
1614	08171012.D	RG78H	PSB10-2-4-	1	NO MANUAL INTEGRATION
1647	08171013.D	RG78I	PSB10-4-6-	1	NO MANUAL INTEGRATION
1720	08171014.D	RG78J	PSB10-8.5-	1	NO MANUAL INTEGRATION
1827	08171016.D	RG78JMS	PSB10-8.5-	1	NO MANUAL INTEGRATION
1900	08171017.D	RG78JMSD	PSB10-8.5-	1	NO MANUAL INTEGRATION
2038	08171020.D	RG78L	PSB10-20-2	1	NO MANUAL INTEGRATION
2111	08171021.D	RG78S	PSB9-8.5-9	1	NO MANUAL INTEGRATION

12 08/18/10

SS not Re-sat

8270C_GCMS_08171021.D

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt6.i/20100817.b

Instrument: nt6.i Date: 17-AUG-2010 Method: SW846072310.m

INITIAL CAL: 23-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

08/17/10

CONTINUING CAL: 17-AUG-2010

Compound	%D	
4-Nitrophenol	-21.8	NSC

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08171001.D
Analysis Type:
Lab Sample ID: CC0817
Method: /chem1/nt6.i/20100817.b/SW846072310.m

Injection Date: 17-AUG-2010 10:03
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

08/17/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.32873	1.32753	1.32753	0.010	-0.09043	20.00000	Averaged
$ 2 Phenol-d5	1.53477	1.50872	1.50872	0.010	-1.69720	20.00000	Averaged
3 Phenol	1.70453	1.74493	1.74493	0.010	2.37068	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.29631	1.27171	1.27171	0.010	-1.89752	20.00000	Averaged
4 Bis(2-Chloroethyl)ether	1.30667	1.28169	1.28169	0.010	-1.91239	20.00000	Averaged
6 2-Chlorophenol	1.47378	1.45992	1.45992	0.010	-0.94077	20.00000	Averaged
7 1,3-Dichlorobenzene	1.71678	1.69640	1.69640	0.010	-1.18725	20.00000	Averaged
9 1,4-Dichlorobenzene	1.68189	1.70428	1.70428	0.010	1.33096	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.89939	0.91173	0.91173	0.010	1.37210	20.00000	Averaged
12 1,2-Dichlorobenzene	1.56400	1.60389	1.60389	0.010	2.55031	20.00000	Averaged
11 Benzyl alcohol	0.80695	0.83637	0.83637	0.010	3.64640	20.00000	Averaged
14 2,2'-oxybis(1-Chloropropane	1.39331	1.53030	1.53030	0.010	9.83146	20.00000	Averaged
13 2-Methylphenol	1.27111	1.29222	1.29222	0.010	1.66086	20.00000	Averaged
17 Hexachloroethane	0.60757	0.62885	0.62885	0.010	3.50231	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	0.88368	0.88422	0.88422	0.005	0.06085	20.00000	Averaged
15 4-Methylphenol	1.25486	1.34244	1.34244	0.010	6.97899	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.38855	0.37516	0.37516	0.010	-3.44637	20.00000	Averaged
19 Nitrobenzene	0.43075	0.42742	0.42742	0.010	-0.77382	20.00000	Averaged
20 Isophorone	0.68600	0.69085	0.69085	0.010	0.70631	20.00000	Averaged
21 2-Nitrophenol	0.25274	0.26733	0.26733	0.010	5.77075	20.00000	Averaged
22 2,4-Dimethylphenol	0.41587	0.41651	0.41651	0.010	0.15500	20.00000	Averaged
23 Bis(2-Chloroethoxy)methane	0.47536	0.48103	0.48103	0.010	1.19284	20.00000	Averaged
24 Benzoic acid	0.30742	0.28383	0.28383	0.010	-7.67249	20.00000	Averaged
25 2,4-Dichlorophenol	0.36413	0.39446	0.39446	0.010	8.32866	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.39778	0.40339	0.40339	0.010	1.41076	20.00000	Averaged
28 Naphthalene	1.13038	1.15967	1.15967	0.010	2.59093	20.00000	Averaged
29 4-Chloroaniline	0.45282	0.45037	0.45037	0.010	-0.54076	20.00000	Averaged
30 Hexachlorobutadiene	0.23198	0.24129	0.24129	0.010	4.01447	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35105	0.35899	0.35899	0.010	2.26150	20.00000	Averaged
32 2-Methylnaphthalene	0.62036	0.62725	0.62725	0.010	1.11096	20.00000	Averaged
33 Hexachlorocyclopentadiene	22.79033	25.00000	0.37907	0.010	-8.83868	20.00000	Linear
34 2,4,6-Trichlorophenol	0.45790	0.49356	0.49356	0.010	7.78746	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.47246	0.50008	0.50008	0.010	5.84577	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.40011	1.34671	1.34671	0.010	-3.81409	20.00000	Averaged
37 2-Chloronaphthalene	1.32938	1.34818	1.34818	0.010	1.41445	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08171001.D
Analysis Type:
Lab Sample ID: CC0817
Method: /chem1/nt6.i/20100817.b/SW846072310.m

Injection Date: 17-AUG-2010 10:03
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.33095	0.31359	0.31359	0.010	-5.24467	20.00000	Averaged	
39 Dimethylphthalate	1.50119	1.42597	1.42597	0.010	-5.01097	20.00000	Averaged	
40 Acenaphthylene	2.05833	2.08759	2.08759	0.010	1.42143	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.35670	0.35654	0.35654	0.010	-0.04392	20.00000	Averaged	
43 3-Nitroaniline	0.31209	0.30318	0.30318	0.010	-2.85329	20.00000	Averaged	
44 Acenaphthene	1.28541	1.26242	1.26242	0.010	-1.78886	20.00000	Averaged	
45 2,4-Dinitrophenol	43.33250	50.00000	0.25403	0.010	-13.33499	20.00000	Linear	
46 Dibenzofuran	1.70738	1.66903	1.66903	0.010	-2.24628	20.00000	Averaged	
47 4-Nitrophenol	0.18552	0.14506	0.14506	0.010	-21.80907	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.45944	0.46051	0.46051	0.010	0.23139	20.00000	Averaged	
50 Diethylphthalate	1.39533	1.30804	1.30804	0.010	-6.25574	20.00000	Averaged	
49 Fluorene	1.45467	1.47301	1.47301	0.010	1.26044	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.71936	0.72165	0.72165	0.010	0.31785	20.00000	Averaged	
52 4-Nitroaniline	0.34745	0.31606	0.31606	0.010	-9.03279	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.19806	0.20469	0.20469	0.010	3.34643	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.68493	0.67298	0.67298	0.010	-1.74465	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.18223	0.21931	0.21931	0.010	20.34839	20.00000	Averaged	<-
56 4-Bromophenyl-phenylether	0.29331	0.30873	0.30873	0.010	5.25949	20.00000	Averaged	
57 Hexachlorobenzene	0.30899	0.33747	0.33747	0.010	9.21913	20.00000	Averaged	
58 Pentachlorophenol	0.18262	0.17779	0.17779	0.010	-2.64499	20.00000	Averaged	
60 Phenanthrene	1.24231	1.23016	1.23016	0.010	-0.97825	20.00000	Averaged	
61 Anthracene	1.28336	1.29714	1.29714	0.010	1.07372	20.00000	Averaged	
62 Carbazole	1.19107	1.15564	1.15564	0.010	-2.97432	20.00000	Averaged	
63 Di-n-butylphthalate	1.45976	1.47536	1.47536	0.010	1.06903	20.00000	Averaged	
64 Fluoranthene	1.34612	1.43896	1.43896	0.010	6.89658	20.00000	Averaged	
65 Pyrene	1.20453	1.24855	1.24855	0.010	3.65405	20.00000	Averaged	
$ 66 Terphenyl-d14	0.70850	0.74871	0.74871	0.010	5.67478	20.00000	Averaged	
67 Butylbenzylphthalate	0.58237	0.58353	0.58353	0.010	0.19980	20.00000	Averaged	
68 Benzo(a)anthracene	1.15615	1.23926	1.23926	0.010	7.18855	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37517	0.41472	0.41472	0.010	10.54098	20.00000	Averaged	
71 Chrysene	1.08220	1.12200	1.12200	0.010	3.67717	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.63407	0.66593	0.66593	0.010	5.02546	20.00000	Averaged	
73 Di-n-octylphthalate	1.08410	1.09573	1.09573	0.010	1.07220	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.33887	1.40020	1.40020	0.010	4.58009	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.38193	1.35318	1.35318	0.010	-2.08054	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08171001.D
Analysis Type:
Lab Sample ID: CC0817
Method: /chem1/nt6.i/20100817.b/SW846072310.m

Injection Date: 17-AUG-2010 10:03
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.28781	1.28833	1.28833	0.010	0.04046	20.00000	Averaged
76 Benzo(a)pyrene	1.26119	1.26577	1.26577	0.010	0.36326	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.68718	1.71198	1.71198	0.010	1.46993	20.00000	Averaged
79 Dibenzo(a,h)anthracene	1.29650	1.34958	1.34958	0.010	4.09417	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.52194	1.48812	1.48812	0.010	-2.22218	20.00000	Averaged
90 N-Nitrosodimethylamine	0.86213	0.87530	0.87530	0.010	1.52725	20.00000	Averaged
103 Pyridine	1.54116	1.60165	1.60165	0.010	3.92471	20.00000	Averaged
91 Aniline	1.95218	1.86382	1.86382	0.010	-4.52651	20.00000	Averaged
105 1-methylnaphthalene	0.64079	0.65317	0.65317	0.010	1.93282	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171001.D
Lab Smp Id: CC0817 Client Smp ID: CC0817
Inj Date : 17-AUG-2010 10:03
Operator : JZ Inst ID: nt6.i
Smp Info : CC0817
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 17-Aug-2010 11:06 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

AB 08/17/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.911	4.911	(0.706)	243653	25.0000	24.98
$	2 Phenol-d5	99	6.631	6.631	(0.954)	276909	25.0000	24.58
	3 Phenol	94	6.652	6.652	(0.957)	320263	25.0000	25.59
$	5 2-Chlorophenol-d4	132	6.658	6.658	(0.958)	233408	25.0000	24.53
	4 Bis(2-Chloroethyl)ether	93	6.658	6.658	(0.958)	235239	25.0000	24.52
	6 2-Chlorophenol	128	6.684	6.684	(0.962)	267951	25.0000	24.76
	7 1,3-Dichlorobenzene	146	6.882	6.882	(0.990)	311355	25.0000	24.70
*	8 1,4-Dichlorobenzene-d4	152	6.951	6.951	(1.000)	146831	20.0000	
	9 1,4-Dichlorobenzene	146	6.973	6.973	(1.003)	312801	25.0000	25.33
$	10 1,2-Dichlorobenzene-d4	152	7.251	7.251	(1.043)	167338	25.0000	25.34
	12 1,2-Dichlorobenzene	146	7.272	7.272	(1.046)	294376	25.0000	25.64
	11 Benzyl alcohol	108	7.293	7.293	(1.049)	153507	25.0000	25.91
	14 2,2'-oxybis(1-Chloropropane)	45	7.550	7.550	(1.086)	280869	25.0000	27.46
	13 2-Methylphenol	108	7.582	7.582	(1.091)	237172	25.0000	25.42
	17 Hexachloroethane	117	7.758	7.758	(1.116)	115418	25.0000	25.88
	16 N-Nitroso-di-n-propylamine	70	7.774	7.774	(1.118)	162288	25.0000	25.02
	15 4-Methylphenol	108	7.827	7.827	(1.126)	246389	25.0000	26.74
$	18 Nitrobenzene-d5	82	7.908	7.908	(0.877)	221194	25.0000	24.14
	19 Nitrobenzene	77	7.940	7.940	(0.881)	252006	25.0000	24.81
	20 Isophorone	82	8.335	8.335	(0.925)	407322	25.0000	25.18
	21 2-Nitrophenol	139	8.463	8.463	(0.939)	157614	25.0000	26.44
	22 2,4-Dimethylphenol	107	8.650	8.650	(0.960)	245574	25.0000	25.04
	23 Bis(2-Chloroethoxy)methane	93	8.767	8.767	(0.973)	283611	25.0000	25.30
	24 Benzoic acid	105	8.960	8.960	(0.994)	334689	50.0000	46.16
	25 2,4-Dichlorophenol	162	8.874	8.874	(0.985)	232570	25.0000	27.08
	26 1,2,4-Trichlorobenzene	180	8.965	8.965	(0.995)	237837	25.0000	25.35
*	27 Naphthalene-d8	136	9.013	9.013	(1.000)	471677	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.045	9.045	(1.004)	683736	25.0000	25.65
	29 4-Chloroaniline	127	9.227	9.227	(1.024)	265538	25.0000	24.86
	30 Hexachlorobutadiene	225	9.382	9.382	(1.041)	142265	25.0000	26.00
	31 4-Chloro-3-methylphenol	107	10.097	10.097	(1.120)	211659	25.0000	25.57
	32 2-Methylnaphthalene	141	10.167	10.167	(1.128)	369823	25.0000	25.28
	33 Hexachlorocyclopentadiene	237	10.546	10.546	(0.890)	128588	25.0000	22.79
	34 2,4,6-Trichlorophenol	196	10.712	10.712	(0.904)	167424	25.0000	26.95
	35 2,4,5-Trichlorophenol	196	10.770	10.770	(0.909)	169638	25.0000	26.46
$	36 2-Fluorobiphenyl	172	10.824	10.824	(0.913)	456831	25.0000	24.05
	37 2-Chloronaphthalene	162	10.931	10.931	(0.922)	457330	25.0000	25.35
	38 2-Nitroaniline	65	11.198	11.198	(0.945)	106377	25.0000	23.69
	39 Dimethylphthalate	163	11.593	11.593	(0.978)	483716	25.0000	23.75
	40 Acenaphthylene	152	11.598	11.598	(0.979)	708153	25.0000	25.36
	41 2,6-Dinitrotoluene	165	11.673	11.673	(0.985)	120946	25.0000	24.99
*	42 Acenaphthene-d10	164	11.849	11.849	(1.000)	271376	20.0000	
	43 3-Nitroaniline	138	11.881	11.881	(1.003)	102846	25.0000	24.29
	44 Acenaphthene	153	11.897	11.897	(1.004)	428237	25.0000	24.55
	45 2,4-Dinitrophenol	184	12.052	12.052	(1.017)	172341	50.0000	43.33
	46 Dibenzofuran	168	12.164	12.164	(1.027)	566169	25.0000	24.44
	47 4-Nitrophenol	109	12.271	12.271	(1.036)	49207	25.0000	19.55
	48 2,4-Dinitrotoluene	165	12.293	12.293	(1.037)	156213	25.0000	25.06
	50 Diethylphthalate	149	12.741	12.741	(1.075)	443715	25.0000	23.44
	49 Fluorene	166	12.714	12.714	(1.073)	499673	25.0000	25.32
	51 4-Chlorophenyl-phenylether	204	12.763	12.763	(1.077)	244798	25.0000	25.08
	52 4-Nitroaniline	138	12.864	12.864	(1.086)	107215	25.0000	22.74
	53 4,6-Dinitro-2-methylphenol	198	12.944	12.944	(0.912)	223839	50.0000	51.67
	54 N-Nitrosodiphenylamine	169	12.982	12.982	(0.915)	367970	25.0000	24.56
$	55 2,4,6-Tribromophenol	330	13.136	13.136	(1.109)	74396	25.0000	30.09
	56 4-Bromophenyl-phenylether	248	13.532	13.532	(0.953)	168809	25.0000	26.31
	57 Hexachlorobenzene	284	13.724	13.724	(0.967)	184523	25.0000	27.30
	58 Pentachlorophenol	266	14.050	14.050	(0.990)	97212	25.0000	24.34
*	59 Phenanthrene-d10	188	14.194	14.194	(1.000)	437424	20.0000	
	60 Phenanthrene	178	14.226	14.226	(1.002)	672627	25.0000	24.76
	61 Anthracene	178	14.301	14.301	(1.008)	709248	25.0000	25.27
	62 Carbazole	167	14.611	14.611	(1.029)	631883	25.0000	24.26
	63 Di-n-butylphthalate	149	15.374	15.374	(1.083)	806700	25.0000	25.27
	64 Fluoranthene	202	16.138	16.138	(1.137)	786795	25.0000	26.72
	65 Pyrene	202	16.480	16.480	(0.893)	775335	25.0000	25.91
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	464940	25.0000	26.42
	67 Butylbenzylphthalate	149	17.756	17.756	(0.962)	362367	25.0000	25.05
	68 Benzo(a)anthracene	228	18.435	18.435	(0.999)	769568	25.0000	26.80
*	69 Chrysene-d12	240	18.456	18.456	(1.000)	496791	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.483	18.483	(1.001)	257537	25.0000	27.64
	71 Chrysene	228	18.499	18.499	(1.002)	696748	25.0000	25.92
	72 bis(2-Ethylhexyl)phthalate	149	18.777	18.777	(0.953)	492567	25.0000	26.26
*	134 Di-n-octylphthalate-d4	153	19.711	19.711	(1.000)	591733	20.0000	
	73 Di-n-octylphthalate	149	19.717	19.717	(1.000)	810473	25.0000	25.27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.074	20.074	(0.975)	859815	25.0000	26.15
75	Benzo(k)fluoranthene	252	20.107	20.107	(0.977)	830943	25.0000	24.48
187	Total Benzofluoranthenes	252	20.107	20.107	(0.977)	1582246	50.0000	50.02
76	Benzo(a)pyrene	252	20.507	20.507	(0.996)	777266	25.0000	25.09
* 77	Perylene-d12	264	20.587	20.587	(1.000)	491254	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.939	21.939	(1.066)	1051274	25.0000	25.37
79	Dibenzo(a,h)anthracene	278	21.971	21.971	(1.067)	828736	25.0000	26.02
80	Benzo(g,h,i)perylene	276	22.232	22.232	(1.080)	913809	25.0000	24.44
90	N-Nitrosodimethylamine	74	2.022	2.022	(0.291)	160651	25.0000	25.38
103	Pyridine	79	2.006	2.006	(0.289)	293965	25.0000	25.98
91	Aniline	93	6.513	6.513	(0.937)	342083	25.0000	23.87
105	1-methylnaphthalene	141	10.332	10.332	(1.146)	385107	25.0000	25.48

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171001.D
Lab Smp Id: CC0817
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: CC0817
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	146831	-19.67
27 Naphthalene-d8	584137	292068	1168274	471677	-19.25
42 Acenaphthene-d10	320442	160221	640884	271376	-15.31
59 Phenanthrene-d10	503793	251896	1007586	437424	-13.17
69 Chrysene-d12	532343	266172	1064686	496791	-6.68
134 Di-n-octylphthala	719428	359714	1438856	591733	-17.75
77 Perylene-d12	517269	258634	1034538	491254	-5.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.95	6.45	7.45	6.95	0.00
27 Naphthalene-d8	9.01	8.51	9.51	9.01	0.00
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	0.00
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	0.00
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.00
134 Di-n-octylphthala	19.71	19.21	20.21	19.71	0.00
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

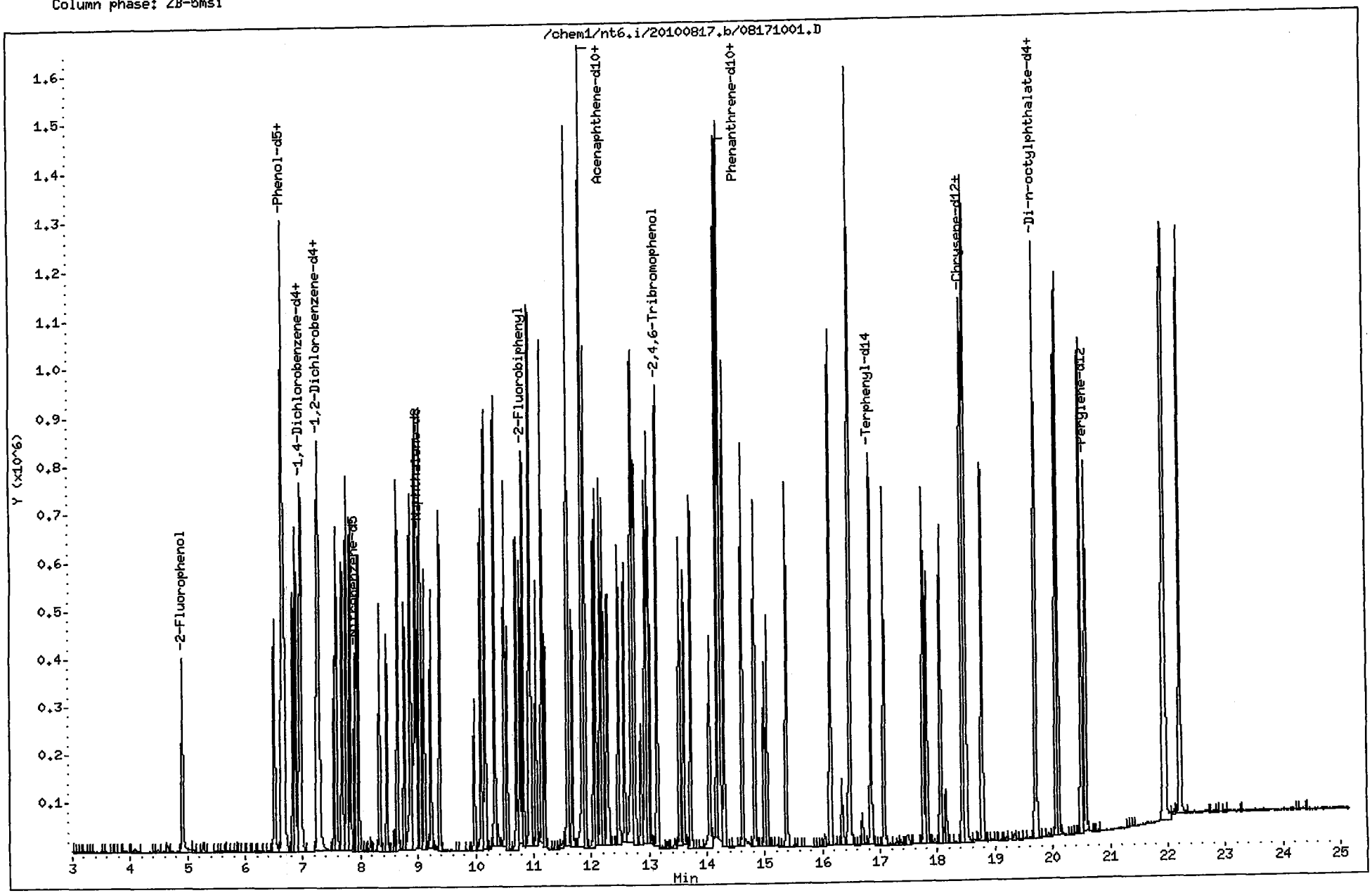
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100817.b/08171001.D
Date : 17-AUG-2010 10:03
Client ID: CC0817
Sample Info: CC0817

Instrument: nt6.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Data File: /chem1/nt6.i/20100817.b/tune.b/08171001.D

Date : 17-AUG-2010 10:03

Client ID: DFTPP0817

Instrument: nt6.i

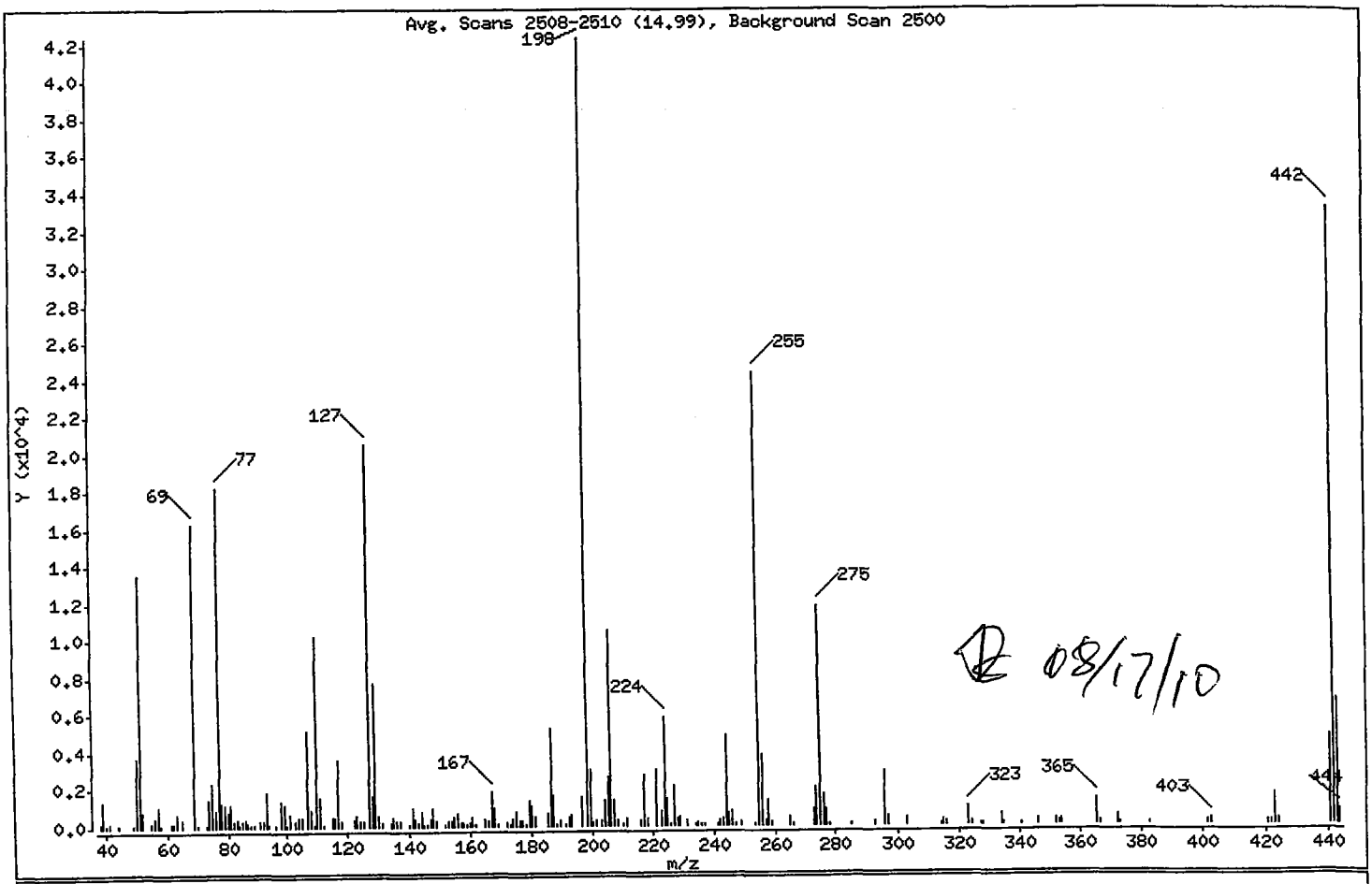
Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.87
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.38
70	Less than 2.00% of mass 69	0.12 (0.31)
127	10.00 - 80.00% of mass 198	48.61
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 60.00% of mass 198	27.71
365	Greater than 1.00% of mass 198	3.17
441	0.01 - 24.00% of mass 442	11.19 (14.28)
442	50.00 - 200.00% of mass 198	78.33
443	15.00 - 24.00% of mass 442	15.89 (20.28)

Data File: /chem1/nt6.i/20100817.b/tune.b/08171001.D

Date : 17-AUG-2010 10:03

Client ID: DFTPP0817

Instrument: nt6.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08171001.D

Spectrum: Avg. Scans 2508-2510 (14.99), Background Scan 2500

Location of Maximum: 198.00

Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	217	110.00	10212	177.00	340	255.00	24376
39.00	1339	111.00	1591	178.00	51	256.00	3782
40.00	61	112.00	83	179.00	1396	257.00	267
41.00	149	115.00	494	180.00	1072	258.00	1336
44.00	51	116.00	521	181.00	458	259.00	225
49.00	112	117.00	3585	185.00	676	265.00	532
50.00	3655	118.00	250	186.00	5280	266.00	53
51.00	13507	122.00	423	187.00	1674	273.00	888
52.00	791	123.00	591	188.00	70	274.00	2090
55.00	225	124.00	249	189.00	309	275.00	11744
56.00	471	125.00	311	191.00	123	276.00	1651
57.00	1079	127.00	20600	192.00	447	277.00	909
58.00	69	128.00	1609	193.00	602	278.00	120
61.00	208	129.00	7702	196.00	1536	285.00	145
62.00	237	130.00	620	198.00	42376	293.00	196
63.00	677	131.00	158	199.00	3024	296.00	2931
65.00	359	134.00	241	200.00	227	297.00	502
69.00	16266	135.00	521	201.00	269	303.00	380
70.00	51	136.00	285	203.00	318	314.00	135
73.00	132	137.00	309	204.00	1412	315.00	256
74.00	1502	140.00	111	205.00	2628	316.00	224
75.00	2312	141.00	931	206.00	10550	323.00	985
76.00	855	142.00	389	207.00	1373	324.00	200
77.00	18192	143.00	224	208.00	279	327.00	107
78.00	1312	144.00	820	210.00	57	328.00	76
79.00	1131	145.00	81	211.00	431	334.00	591
80.00	791	146.00	134	216.00	272	335.00	67
81.00	1167	147.00	427	217.00	2744	341.00	53
82.00	325	148.00	945	218.00	364	346.00	261
83.00	387	149.00	256	221.00	3056	352.00	316
84.00	106	152.00	115	223.00	733	353.00	224
85.00	272	153.00	278	224.00	5892	354.00	336
86.00	372	154.00	284	225.00	1440	365.00	1345
87.00	150	155.00	523	226.00	70	366.00	225
88.00	56	156.00	729	227.00	2137	372.00	508

Data File: /chem1/nt6.i/20100817.b/tune.b/08171001.D

Date : 17-AUG-2010 10:03

Client ID: DFTPP0817

Instrument: nt6.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08171001.D
Spectrum: Avg. Scans 2508-2510 (14.99), Background Scan 2500
Location of Maximum: 198.00
Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
89.00	53	157.00	229	228.00	343	373.00	102
91.00	336	158.00	172	229.00	524	383.00	132
92.00	301	159.00	63	231.00	245	402.00	147
93.00	1837	160.00	238	234.00	52	403.00	271
94.00	114	161.00	487	235.00	184	421.00	221
96.00	54	162.00	53	236.00	60	422.00	216
98.00	1382	165.00	365	237.00	126	423.00	1625
99.00	1150	166.00	253	241.00	110	424.00	313
100.00	58	167.00	1806	242.00	288	441.00	4741
101.00	707	168.00	944	243.00	351	442.00	33192
103.00	257	169.00	142	244.00	4843	443.00	6732
104.00	472	172.00	221	245.00	709	444.00	735
105.00	443	173.00	141	246.00	763		
107.00	5161	174.00	370	247.00	134		
108.00	900	175.00	754	249.00	170		
109.00	72	176.00	269	254.00	54		

Data File: /chem1/nt6.i/20100817.b/tune.b/08171001.D

Date : 17-AUG-2010 10:03

Client ID: DFTPP0817

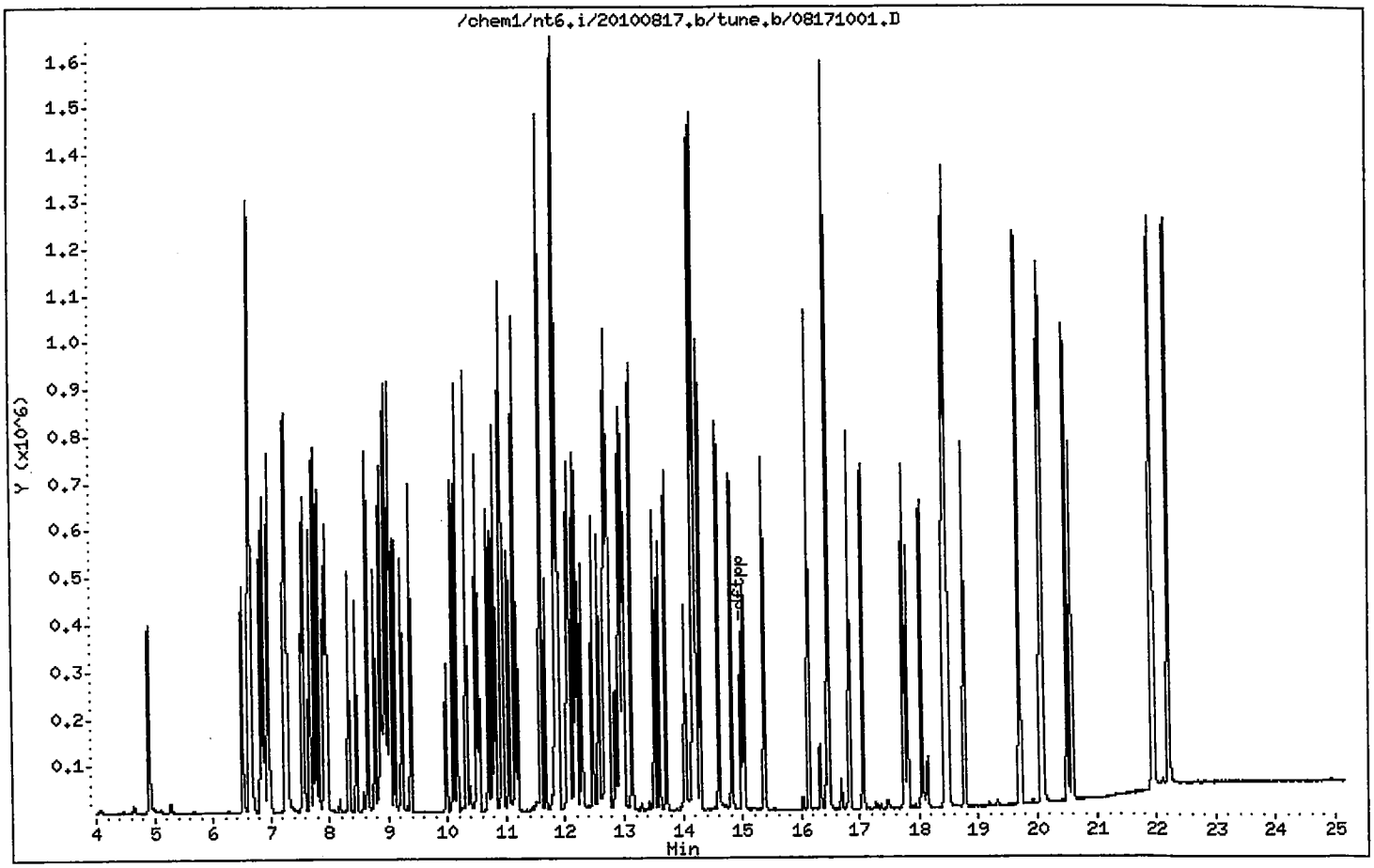
Instrument: nt6.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20100817.b/ddt.b/08171001.D ARI ID: CC0817
Method: /chem1/nt6.i/20100817.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 17-AUG-2010 10:03 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	14.050	97212
Benzidine	16.437	73075
4,4'-DDE	----	----
4,4'-DDD	17.356	4294
4,4'-DDT	17.815	215126

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

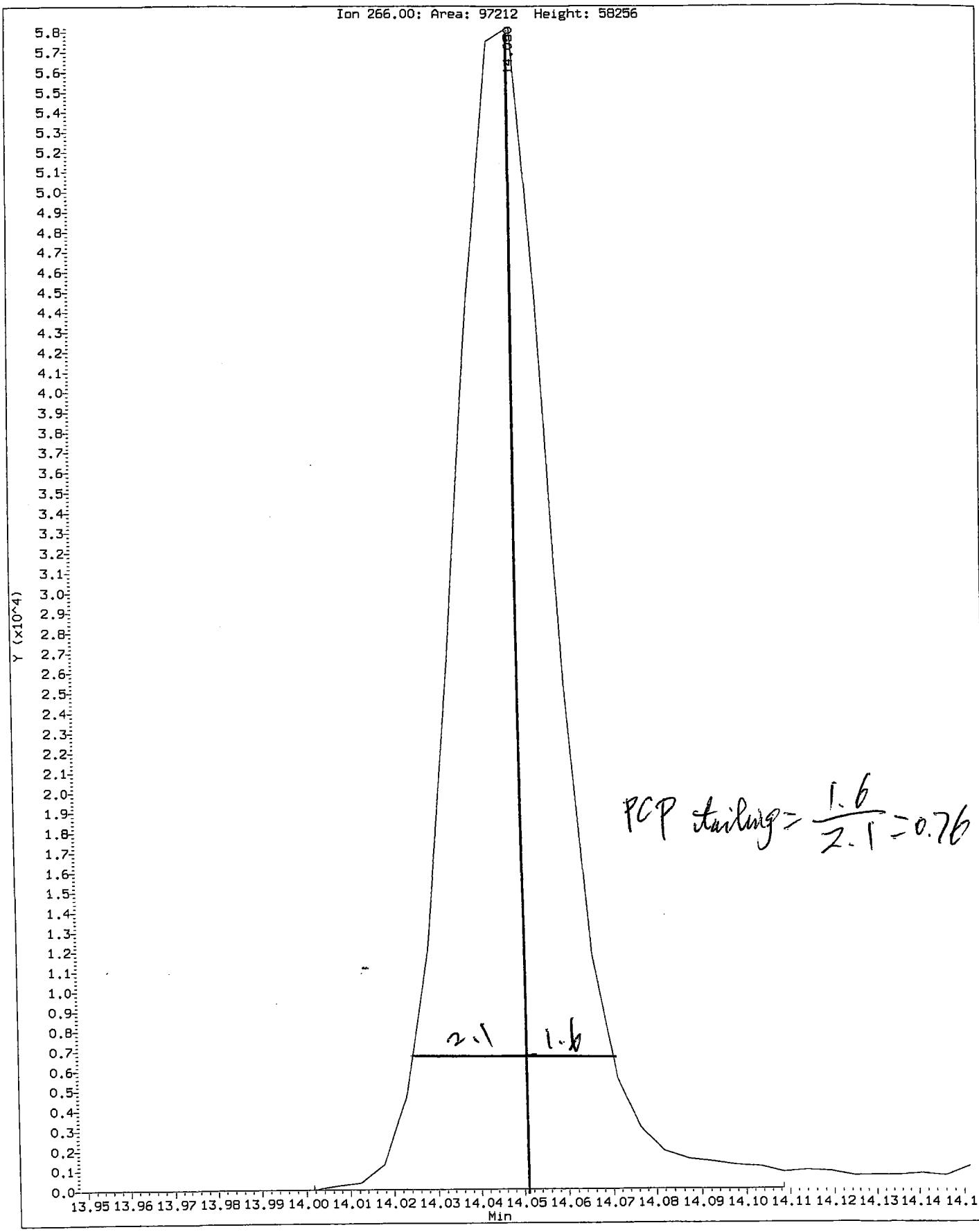
$$\text{DDT Percent Breakdown} = \frac{(0 + 4294) * 100}{(0 + 4294 + 215126)}$$

DDT Percent Breakdown = 2.0 %

08/17/10

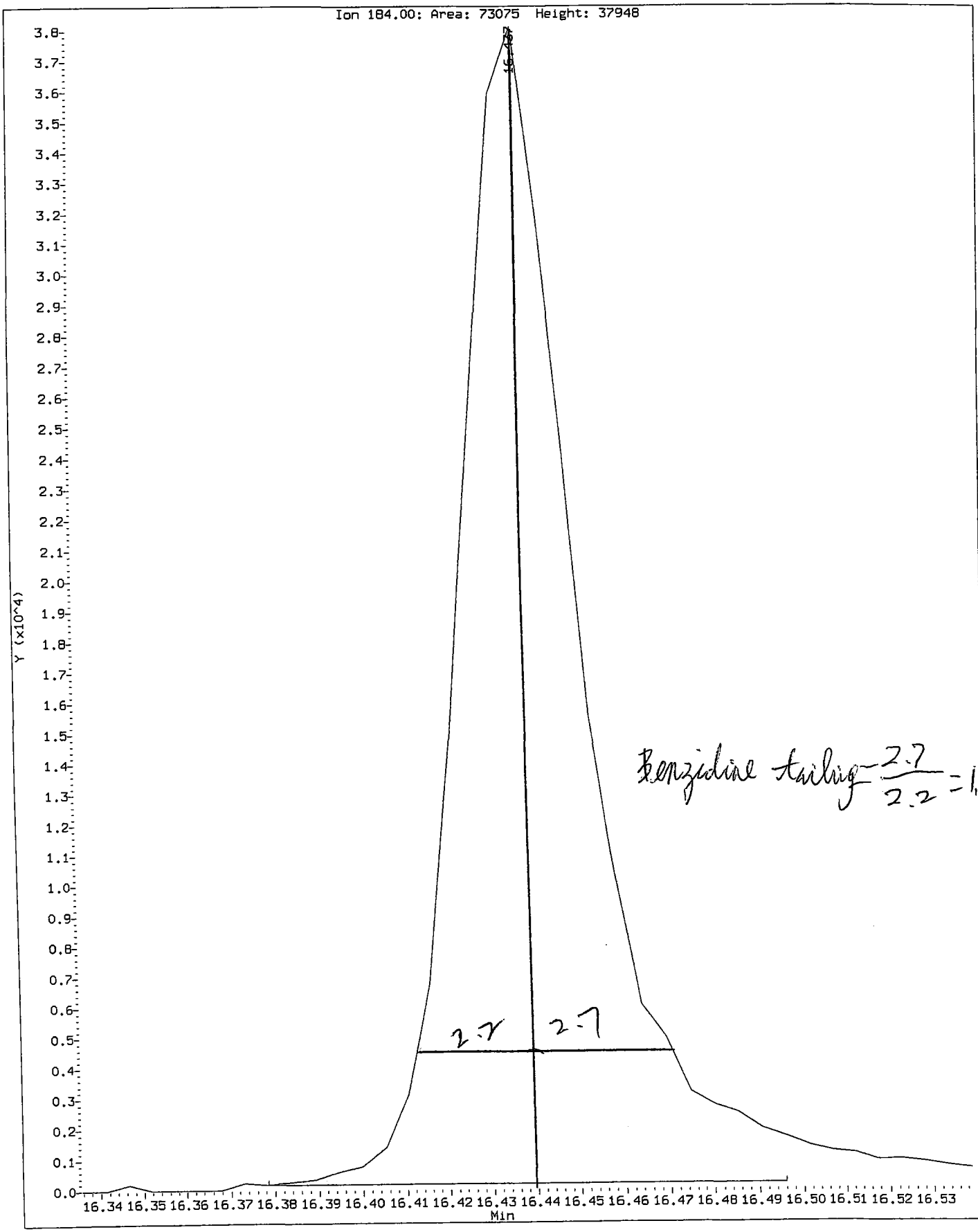
Data File: /chem1/nt6.i/20100817.b/ddt.b/08171001.D
Injection Date: 17-AUG-2010 10:03
Instrument: nt6.i
Client Sample ID: CC0817

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20100817.b/ddt.b/08171001.D
Injection Date: 17-AUG-2010 10:03
Instrument: nt6.i
Client Sample ID: CC0817

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171003.D
Lab Smp Id: RG78MBS1 Client Smp ID: RG78MBS1
Inj Date : 17-AUG-2010 11:16
Operator : JZ Inst ID: nt6.i
Smp Info : RG78MBS1,
Misc Info : 10-18442
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

D 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.007	9.013	(1.000)	574562	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.913)	318512	13.6795	273.6
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.849	11.849	(1.000)	332601	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	530455	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	445761	21.3344	426.7
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.450	18.456	(1.000)	589806	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.587	20.587	(1.000)	569012	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171003.D
Lab Smp Id: RG78MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: RG78MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	574562	-1.64
42 Acenaphthene-d10	320442	160221	640884	332601	3.79
59 Phenanthrene-d10	503793	251896	1007586	530455	5.29
69 Chrysene-d12	532343	266172	1064686	589806	10.79
77 Perylene-d12	517269	258634	1034538	569012	10.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	0.00
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

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

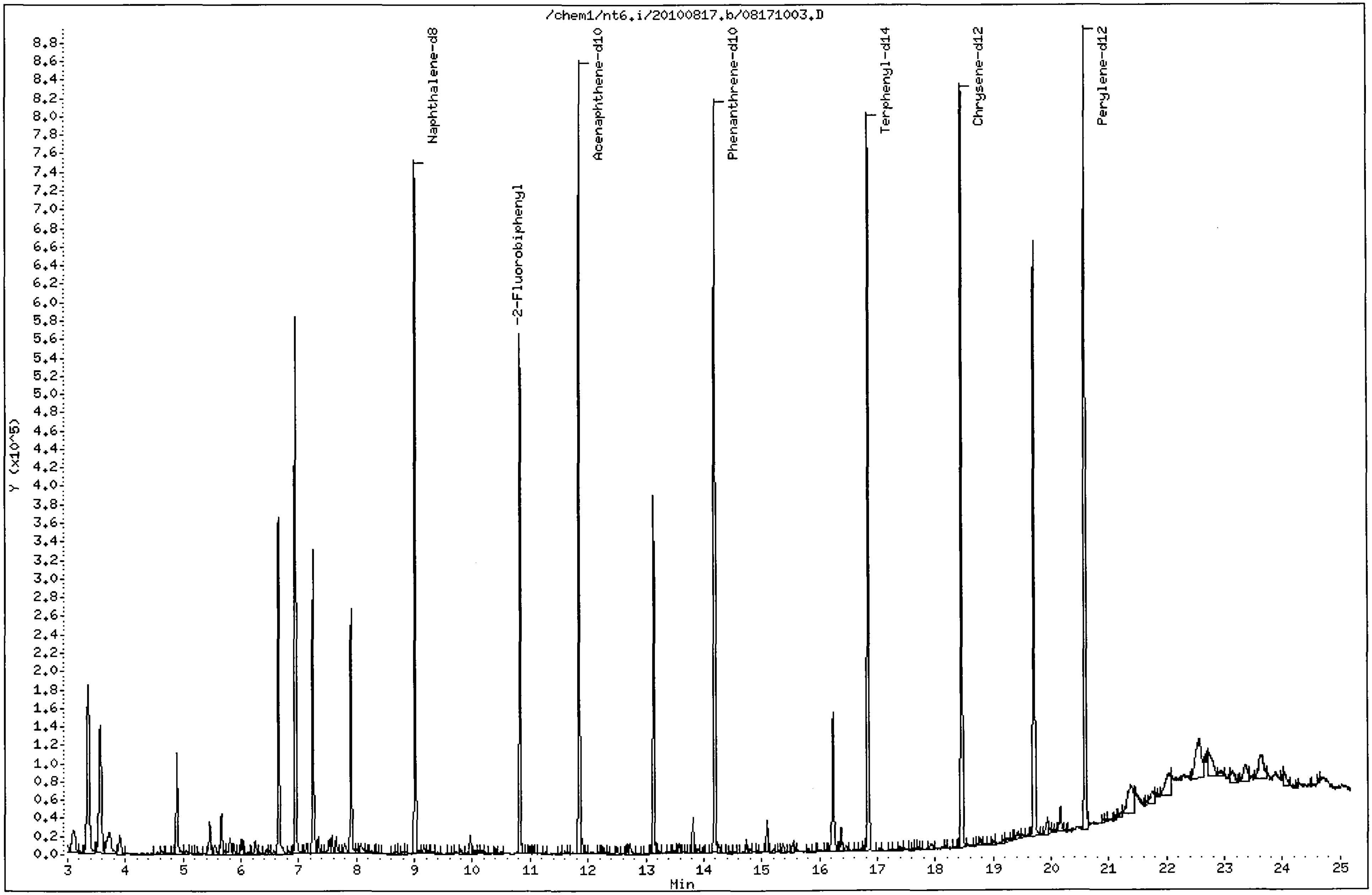
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78MBS1
Client Smp ID: RG78MBS1
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: BLANK
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	273.6	54.72	34-100
$ 66 Terphenyl-d14	500.0	426.7	85.34	35-112

Data File: /chem1/nt6.i/20100817.b/08171003.D
Date : 17-AUG-2010 11:16
Client ID: RG78MBS1 Instrument: nt6.i
Sample Info: RG78MBS1,
Volume Injected (uL): 1.0 Operator: JZ
Column phase: ZB-5msi Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171004.D
Lab Smp Id: RG78LCSS1 Client Smp ID: RG78LCSS1
Inj Date : 17-AUG-2010 11:49
Operator : JZ Inst ID: nt6.i
Smp Info : RG78LCSS1,
Misc Info : 10-18442
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:40 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.006	9.013	(1.000)	592795	20.0000	
28 Naphthalene	128	9.038	9.045	(1.004)	380615	11.3602	227.2
32 2-Methylnaphthalene	141	10.165	10.167	(1.129)	229230	12.4668	249.3
105 1-methylnaphthalene	141	10.331	10.332	(1.147)	230040	12.1120	242.2
$ 36 2-Fluorobiphenyl	172	10.822	10.824	(0.913)	341014	14.3029	286.1
40 Acenaphthylene	152	11.591	11.598	(0.978)	453088	12.9265	258.5
* 42 Acenaphthene-d10	164	11.848	11.849	(1.000)	340576	20.0000	
44 Acenaphthene	153	11.896	11.897	(1.004)	264591	12.0878	241.8
46 Dibenzofuran	168	12.157	12.164	(1.026)	405399	13.9433	278.9
49 Fluorene	166	12.708	12.714	(1.073)	340660	13.7522	275.0
* 59 Phenanthrene-d10	188	14.187	14.194	(1.000)	557562	20.0000	
60 Phenanthrene	178	14.224	14.226	(1.003)	506581	14.6270	292.5
61 Anthracene	178	14.294	14.301	(1.008)	509165	14.2314	284.6
64 Fluoranthene	202	16.137	16.138	(1.137)	633467	16.8801	337.6
65 Pyrene	202	16.478	16.480	(0.893)	641257	17.7551	355.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.842	16.843	(0.912)	469416	22.0967	441.9
	68 Benzo(a)anthracene	228	18.433	18.435	(0.999)	624377	18.0112	360.2
*	69 Chrysene-d12	240	18.460	18.456	(1.000)	599679	20.0000	
	71 Chrysene	228	18.497	18.499	(1.002)	561191	17.2947	345.9
	187 Total Benzofluoranthenes	252	20.105	20.107	(0.976)	1265346	33.8338	676.7
	76 Benzo(a)pyrene	252	20.506	20.507	(0.996)	551798	15.0659	301.3
*	77 Perylene-d12	264	20.591	20.587	(1.000)	580813	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.937	21.939	(1.065)	827384	16.8864	337.7
	79 Dibenzo(a,h)anthracene	278	21.964	21.971	(1.067)	639861	16.9944	339.9
	80 Benzo(g,h,i)perylene	276	22.225	22.232	(1.079)	702970	15.9049	318.1

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171004.D
Lab Smp Id: RG78LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: RG78LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	592795	1.48
42 Acenaphthene-d10	320442	160221	640884	340576	6.28
59 Phenanthrene-d10	503793	251896	1007586	557562	10.67
69 Chrysene-d12	532343	266172	1064686	599679	12.65
77 Perylene-d12	517269	258634	1034538	580813	12.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.08
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.01
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.05
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.02
77 Perylene-d12	20.59	20.09	21.09	20.59	0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Client SDG: RG78
Fraction: SV
Client Smp ID: RG78LCSS1
Operator: JZ
SampleType: LCS
Quant Type: ISTD

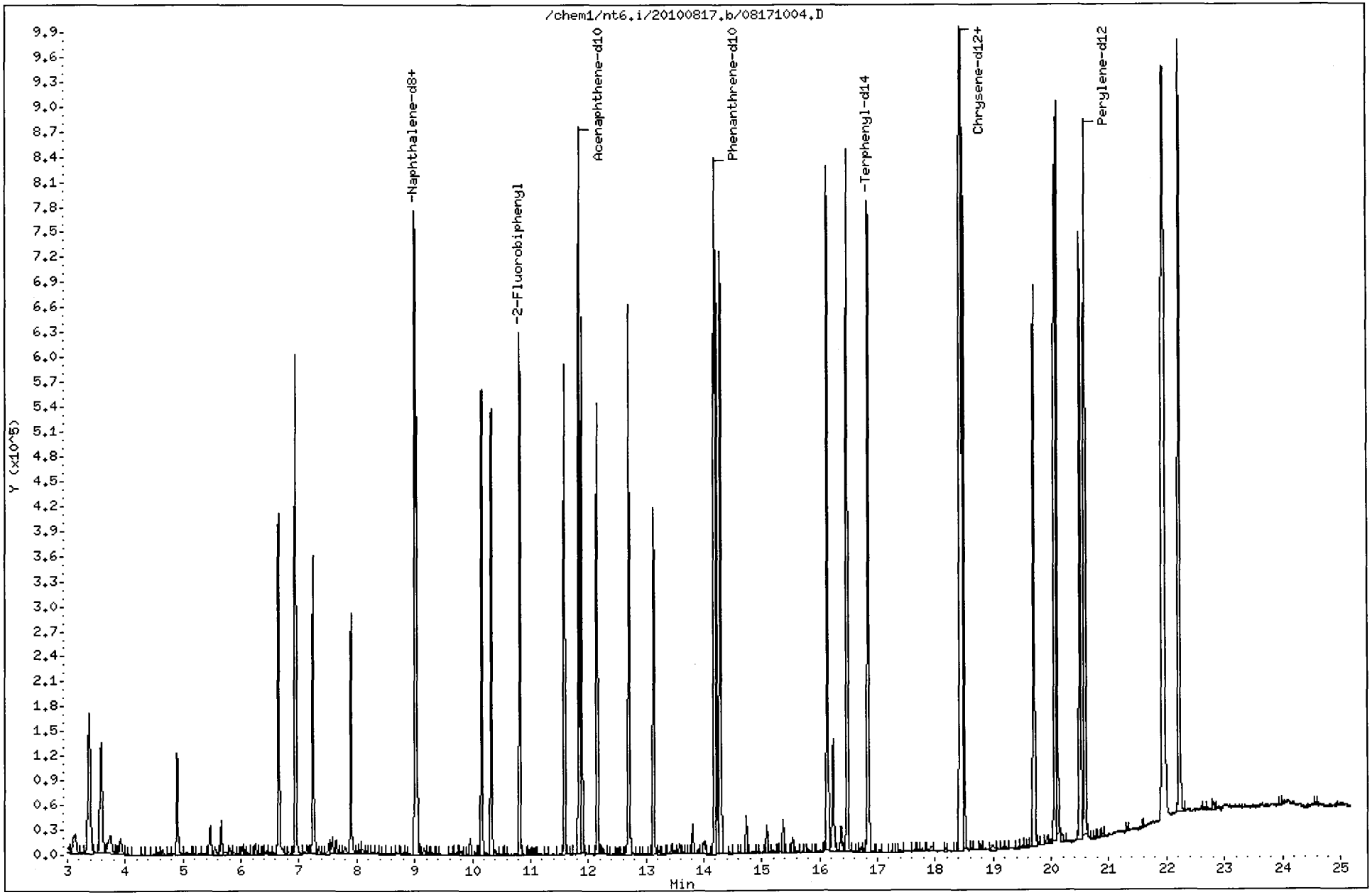
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	500.0	227.2	45.44	37-100
32 2-Methylnaphthalen	500.0	249.3	49.87	43-101
105 1-methylnaphthalen	500.0	242.2	48.45	39-100
40 Acenaphthylene	500.0	258.5	51.71	44-100
44 Acenaphthene	500.0	241.8	48.35	41-100
46 Dibenzofuran	500.0	278.9	55.77	44-100
49 Fluorene	500.0	275.0	55.01	49-100
60 Phenanthrene	500.0	292.5	58.51	48-100
61 Anthracene	500.0	284.6	56.93	50-100
64 Fluoranthene	500.0	337.6	67.52	54-100
65 Pyrene	500.0	355.1	71.02	41-105
68 Benzo(a)anthracene	500.0	360.2	72.04	49-100
71 Chrysene	500.0	345.9	69.18	50-100
187 Total Benzofluoran	1000	676.7	67.67	30-160
76 Benzo(a)pyrene	500.0	301.3	60.26	50-100
78 Indeno(1,2,3-cd)py	500.0	337.7	67.55	33-101
79 Dibenzo(a,h)anthra	500.0	339.9	67.98	37-104
80 Benzo(g,h,i)peryle	500.0	318.1	63.62	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	286.1	57.21	34-100
$ 66 Terphenyl-d14	500.0	441.9	88.39	35-112

Data File: /chem1/nt6.i/20100817.b/08171004.D
Date : 17-AUG-2010 11:49
Client ID: RG78LCSS1
Sample Info: RG78LCSS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78 : 66811



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171005.D
Lab Smp Id: RG78A Client Smp ID: PSB9A-11-13.5-07301
Inj Date : 17-AUG-2010 12:22
Operator : JZ Inst ID: nt6.i
Smp Info : RG78A
Misc Info : 10-18433
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	31.70000	Weight of sample extracted (g)
M	17.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	9.009	9.013	(1.000)	573989	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.819	10.824	(0.913)	362322	15.1609	288.5
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.845	11.849	(1.000)	341380	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.184	14.194	(1.000)	543011	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.839	16.843	(0.913)	440340	20.5130	390.3
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.452	18.456	(1.000)	605965	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.583	20.587	(1.000)	566477	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171005.D
Lab Smp Id: RG78A
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18433

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9A-11-13.5-07
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	573989	-1.74
42 Acenaphthene-d10	320442	160221	640884	341380	6.53
59 Phenanthrene-d10	503793	251896	1007586	543011	7.78
69 Chrysene-d12	532343	266172	1064686	605965	13.83
77 Perylene-d12	517269	258634	1034538	566477	9.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.05
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.04
59 Phenanthrene-d10	14.19	13.69	14.69	14.18	-0.07
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.02
77 Perylene-d12	20.59	20.09	21.09	20.58	-0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

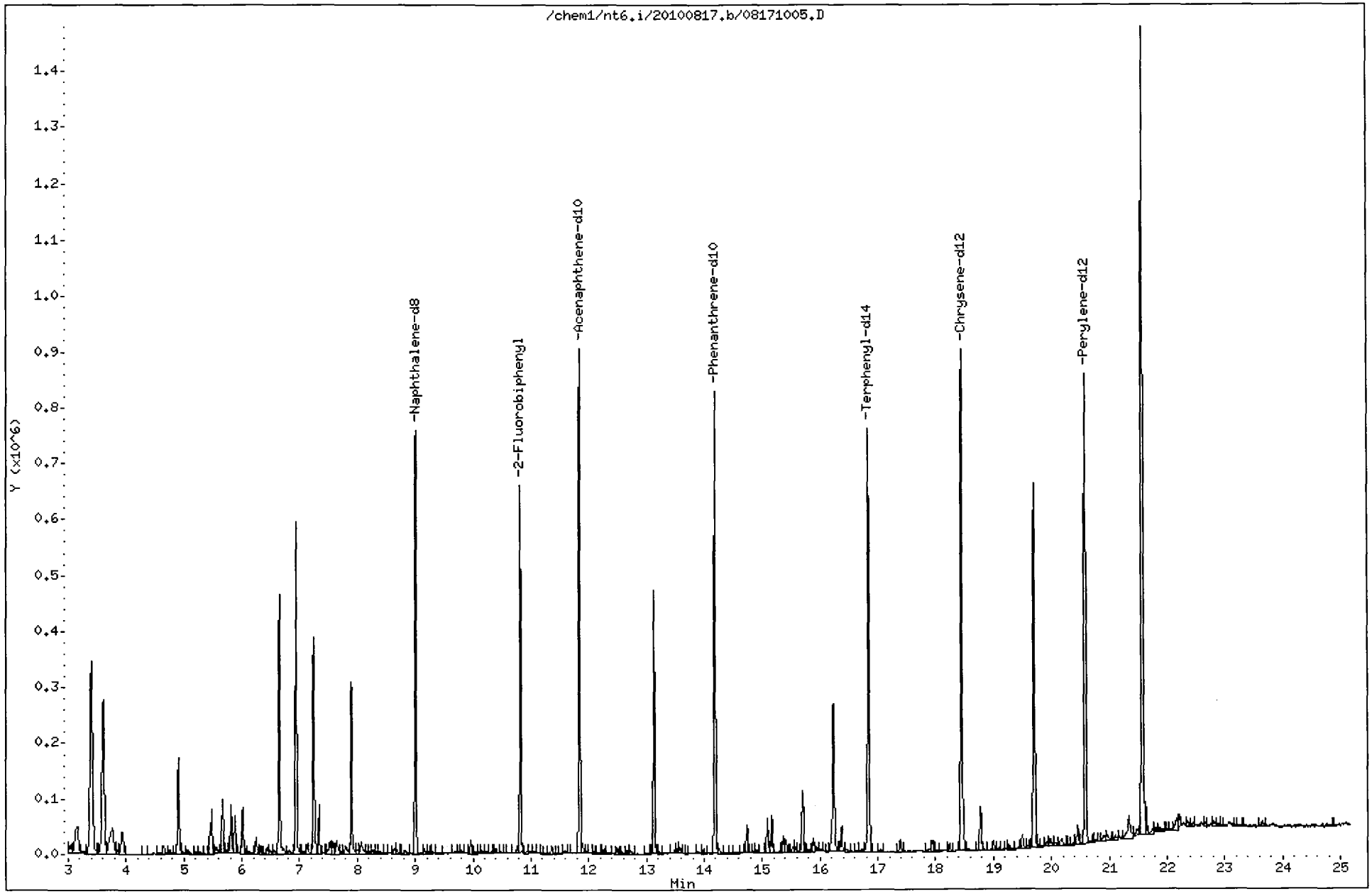
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78A
Client Smp ID: PSB9A-11-13.5-07301
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18433

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	475.7	288.5	60.64	34-100
$ 66 Terphenyl-d14	475.7	390.3	82.05	35-112

Data File: /chem1/nt6.i/20100817.b/08171005.D
Date : 17-AUG-2010 12:22
Client ID: PSB9A-11-13.5-07301
Sample Info: RG78A
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78 : 99999



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171006.D
Lab Smp Id: RG78B Client Smp ID: PSB9A-1.5-2-073010
Inj Date : 17-AUG-2010 12:55
Operator : JZ Inst ID: nt6.i
Smp Info : RG78B
Misc Info : 10-18434
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	26.70000	Weight of sample extracted (g)
M	3.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.007	9.013	(1.000)	617580	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.914)	309745	12.0502	232.9
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.844	11.849	(1.000)	367180	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.183	14.194	(1.000)	587454	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 66 Terphenyl-d14	244	16.843	16.843	(0.913)	368799	16.3430	315.8
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.450	18.456	(1.000)	637009	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.587	20.587	(1.000)	605504	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171006.D
Lab Smp Id: RG78B
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18434

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9A-1.5-2-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	617580	5.73
42 Acenaphthene-d10	320442	160221	640884	367180	14.59
59 Phenanthrene-d10	503793	251896	1007586	587454	16.61
69 Chrysene-d12	532343	266172	1064686	637009	19.66
77 Perylene-d12	517269	258634	1034538	605504	17.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.05
59 Phenanthrene-d10	14.19	13.69	14.69	14.18	-0.08
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

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

Analytical Resources, Inc.

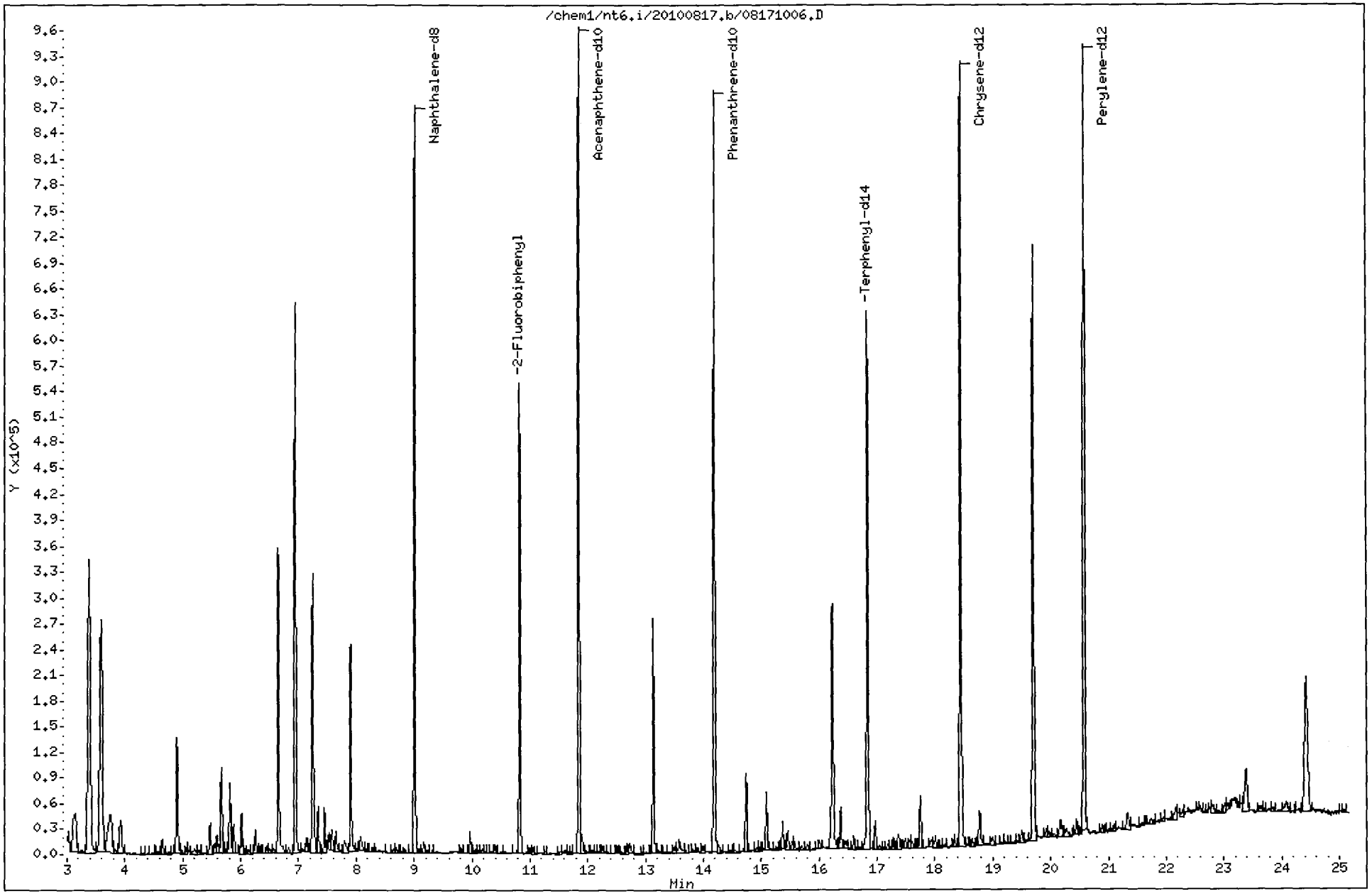
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78B
Client Smp ID: PSB9A-1.5-2-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18434

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	483.1	232.9	48.20	34-100
$ 66 Terphenyl-d14	483.1	315.8	65.37	35-112

Data File: /chem1/nt6.i/20100817.b/08171006.D
Date : 17-AUG-2010 12:55
Client ID: PSB9A-1.5-2-073010
Sample Info: RG78B
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



RG78 : 080817

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171007.D
Lab Smp Id: RG78C Client Smp ID: PSB9A-2-4-073010
Inj Date : 17-AUG-2010 13:28
Operator : JZ Inst ID: nt6.i
Smp Info : RG78C
Misc Info : 10-18435
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	28.00000	Weight of sample extracted (g)
M	4.90000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	9.007	9.013	(1.000)	612112	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.818	10.824	(0.913)	244451	9.64781	181.2
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.843	11.849	(1.000)	361935	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.183	14.194	(1.000)	582060	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	276992	12.2887	230.7
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.450	18.456	(1.000)	636281	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.587	20.587	(1.000)	601646	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171007.D
Lab Smp Id: RG78C
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18435

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9A-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	612112	4.79
42 Acenaphthene-d10	320442	160221	640884	361935	12.95
59 Phenanthrene-d10	503793	251896	1007586	582060	15.54
69 Chrysene-d12	532343	266172	1064686	636281	19.52
77 Perylene-d12	517269	258634	1034538	601646	16.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.05
59 Phenanthrene-d10	14.19	13.69	14.69	14.18	-0.08
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

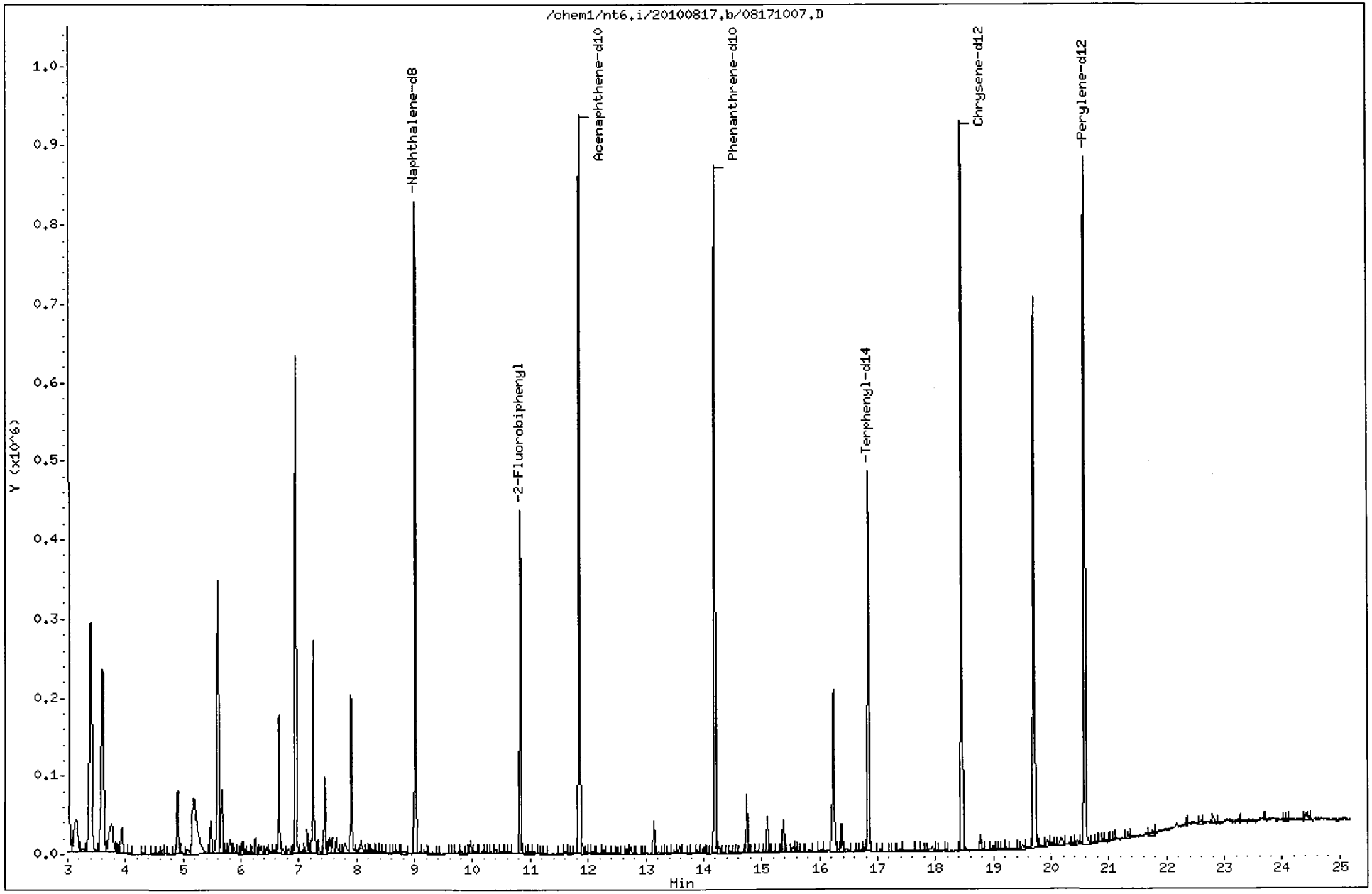
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78C
Client Smp ID: PSB9A-2-4-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18435

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	469.4	181.2	38.59	34-100
$ 66 Terphenyl-d14	469.4	230.7	49.15	35-112

Data File: /chem1/nt6.i/20100817.b/08171007.D
Date : 17-AUG-2010 13:28
Client ID: PSB9A-2-4-073010
Sample Info: RG78C
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:08819



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171008.D
Lab Smp Id: RG78D Client Smp ID: PSB9A-4-6-073010
Inj Date : 17-AUG-2010 14:01
Operator : JZ Inst ID: nt6.i
Smp Info : RG78D
Misc Info : 10-18436
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	28.60000	Weight of sample extracted (g)
M	8.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.007	9.013	(1.000)	591661	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.914)	262831	10.9483	208.3
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.844	11.849	(1.000)	342924	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	550666	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.837	16.843	(0.913)	328871	15.1643	288.5
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.450	18.456	(1.000)	612197	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.587	20.587	(1.000)	585871	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171008.D
Lab Smp Id: RG78D
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18436

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9A-4-6-07301C
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	591661	1.29
42 Acenaphthene-d10	320442	160221	640884	342924	7.02
59 Phenanthrene-d10	503793	251896	1007586	550666	9.30
69 Chrysene-d12	532343	266172	1064686	612197	15.00
77 Perylene-d12	517269	258634	1034538	585871	13.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.05
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

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

Analytical Resources, Inc.

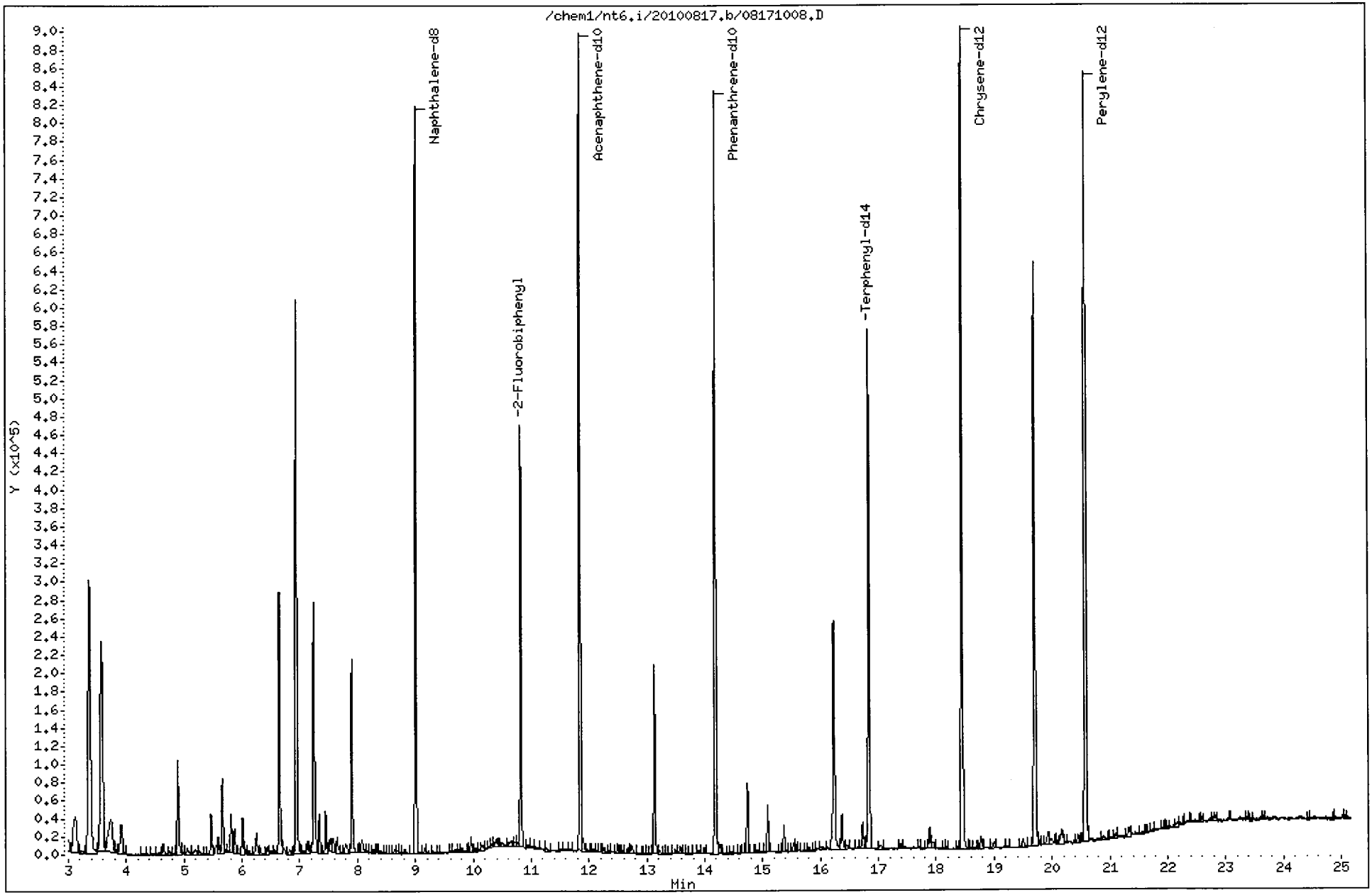
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78D
Client Smp ID: PSB9A-4-6-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18436

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	475.6	208.3	43.79	34-100
$ 66 Terphenyl-d14	475.6	288.5	60.66	35-112

Data File: /chem1/nt6.i/20100817.b/08171008.D
Date : 17-AUG-2010 14:01
Client ID: PSB9A-4-6-073010
Sample Info: RG78D
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



RG78 : 08821

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171009.D
Lab Smp Id: RG78E Client Smp ID: PSB9A-0-0.5-073010
Inj Date : 17-AUG-2010 14:35
Operator : JZ Inst ID: nt6.i
Smp Info : RG78E
Misc Info : 10-18437
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AD 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	26.20000	Weight of sample extracted (g)
M	3.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.008	9.013	(1.000)	610080	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.914)	265788	11.0838	219.2
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.844	11.849	(1.000)	342543	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	529156	20.0000	
60 Phenanthrene	178	14.220	14.226	(1.002)	35430	1.07792	21.32
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	16.132	16.138	(1.137)	52532	1.47498	29.17
65 Pyrene	202	16.474	16.480	(0.893)	59443	1.81522	35.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.837	16.843	(0.913)	23986	1.24527	24.63(R)
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.451	18.456	(1.000)	543728	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	20.064	20.107	(0.975)	23429	0.66596	13.17(a)
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.587	20.587	(1.000)	546367	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171009.D
Lab Smp Id: RG78E
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18437

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9A-0-0.5-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	610080	4.44
42 Acenaphthene-d10	320442	160221	640884	342543	6.90
59 Phenanthrene-d10	503793	251896	1007586	529156	5.03
69 Chrysene-d12	532343	266172	1064686	543728	2.14
77 Perylene-d12	517269	258634	1034538	546367	5.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.05
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

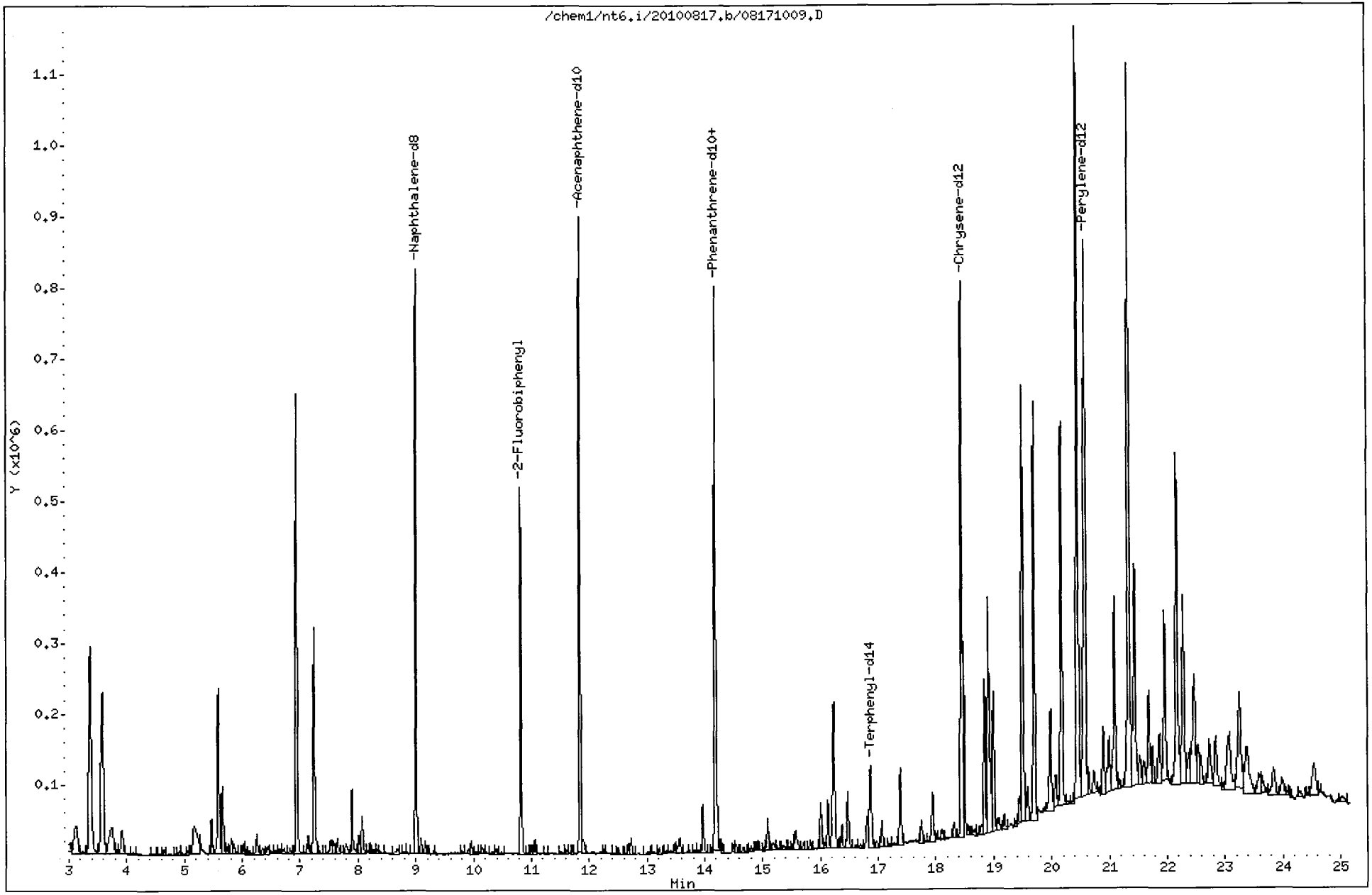
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78E
Client Smp ID: PSB9A-0-0.5-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18437

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	494.4	219.2	44.34	34-100
$ 66 Terphenyl-d14	494.4	24.63	4.98*	35-112

Data File: /chem1/nt6.i/20100817.b/08171009.D
Date : 17-AUG-2010 14:35
Client ID: PSB9A-0-0.5-073010
Sample Info: RG78E
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78 : 99329



Data File: /chem1/nt6.i/20100817.b/08171009.D

Date : 17-AUG-2010 14:35

Client ID: PSB9A-0-0.5-073010

Instrument: nt6.i

Sample Info: RG78E

Volume Injected (uL): 1.0

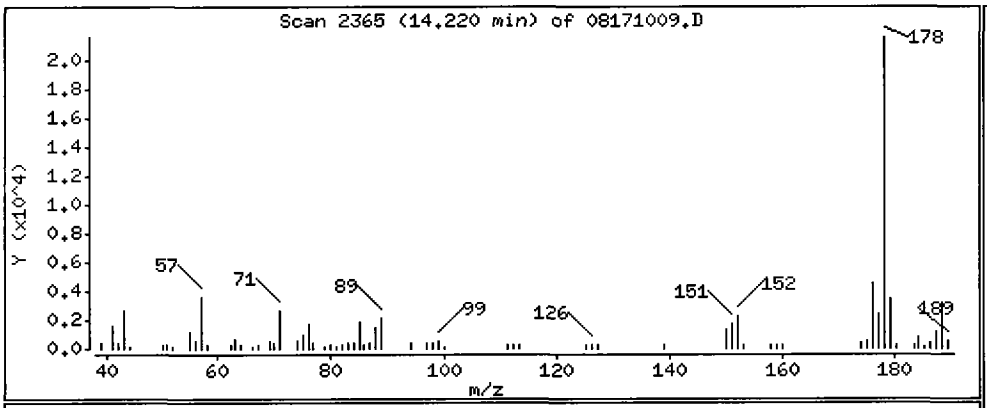
Operator: JZ

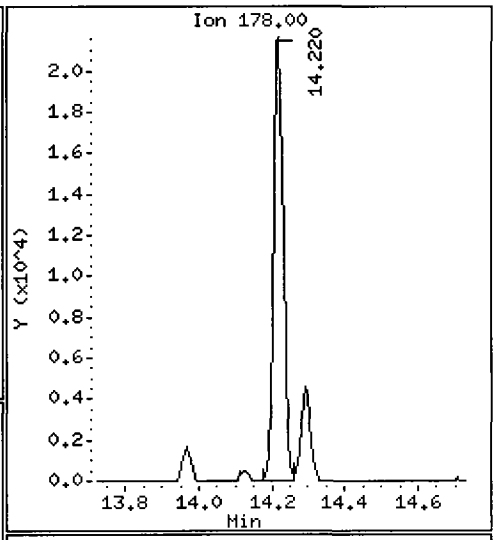
Column phase: ZB-5msi

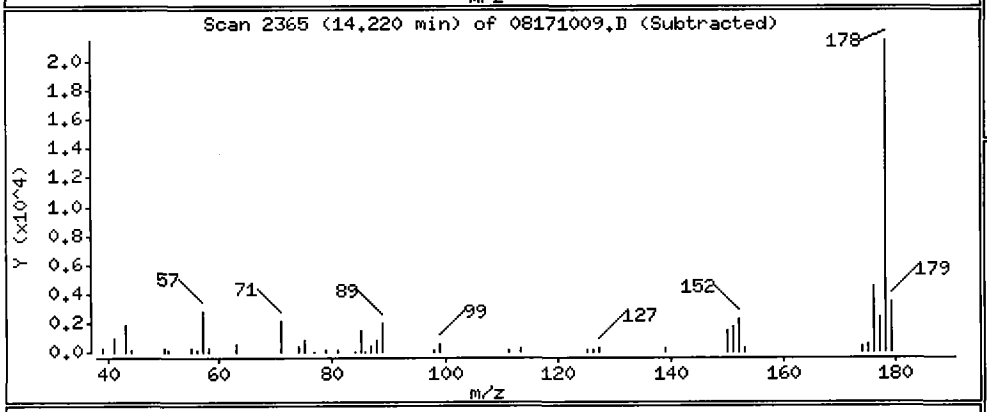
Column diameter: 0.32

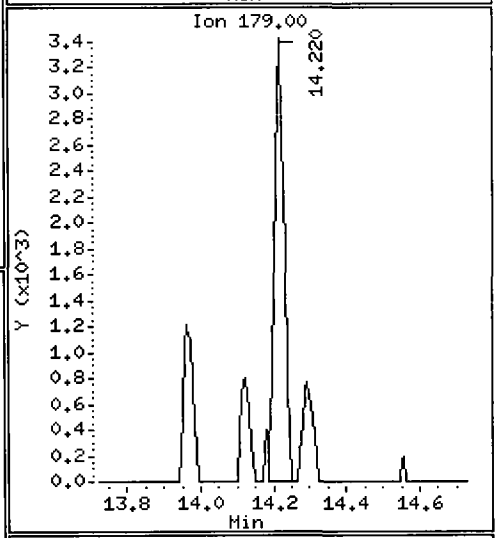
60 Phenanthrene

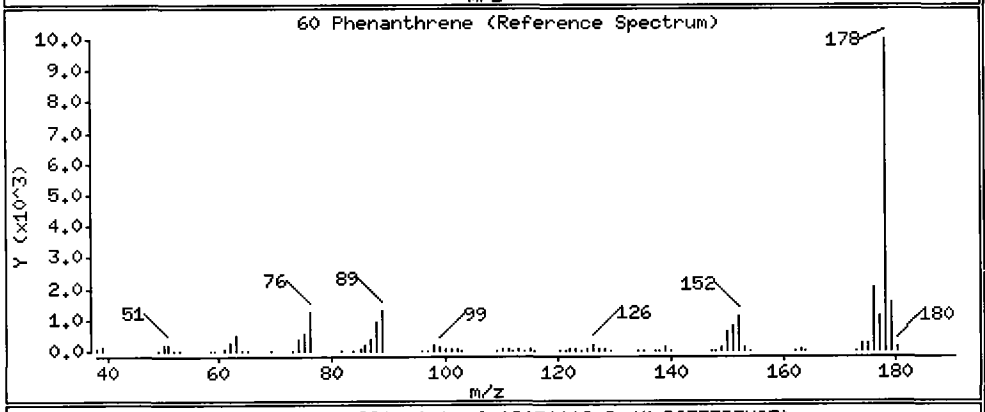
Concentration: 21.32 ug/kg

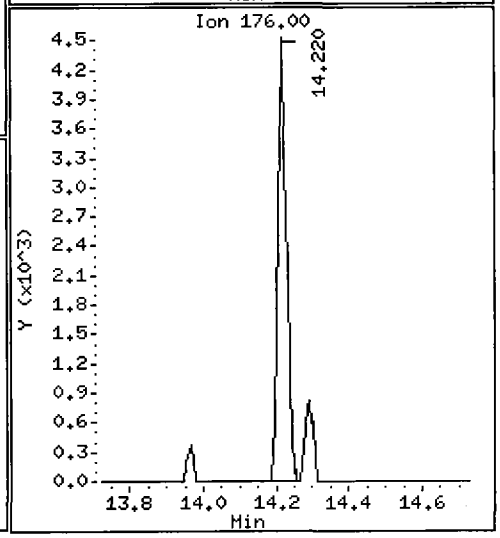


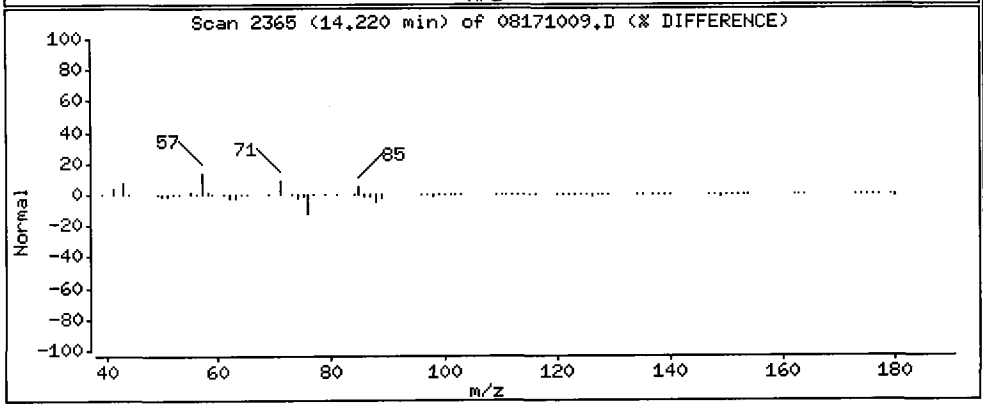












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Date : 17-AUG-2010 14:35

Client ID: PSB9A-0-0.5-073010

Instrument: nt6.i

Sample Info: RG78E

Volume Injected (uL): 1.0

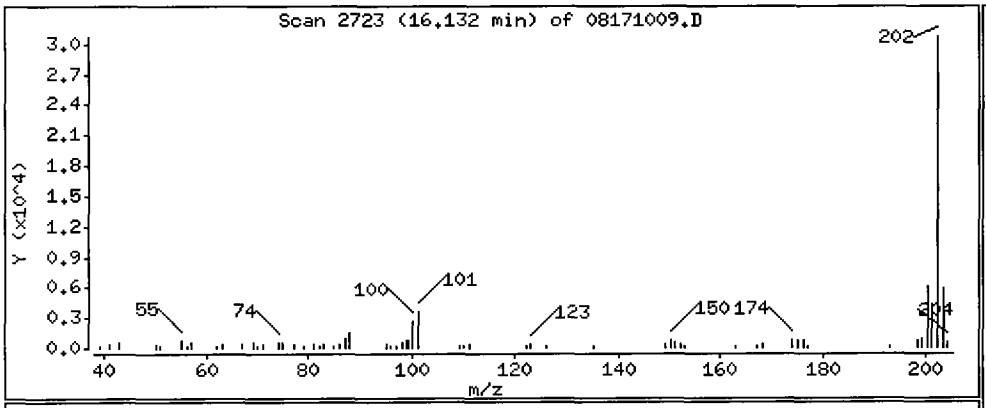
Operator: JZ

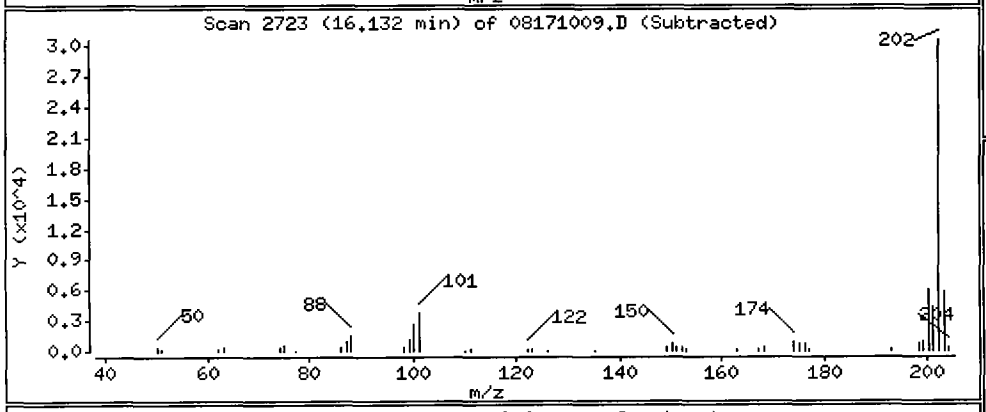
Column phase: ZB-5msi

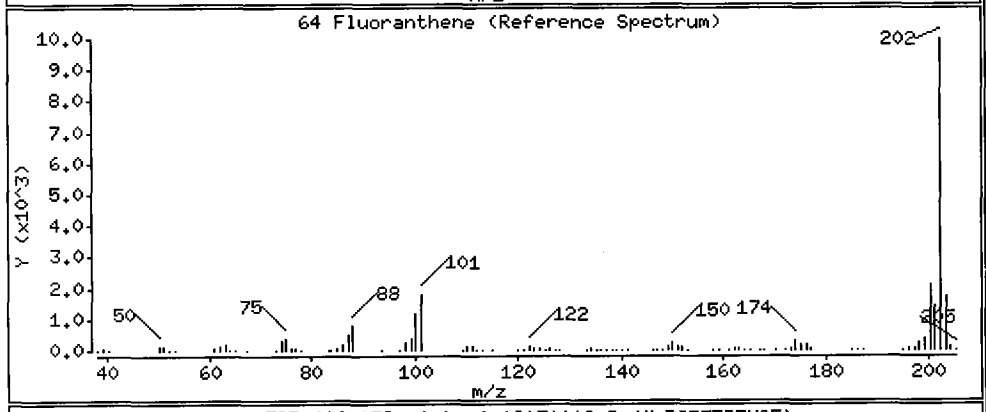
Column diameter: 0.32

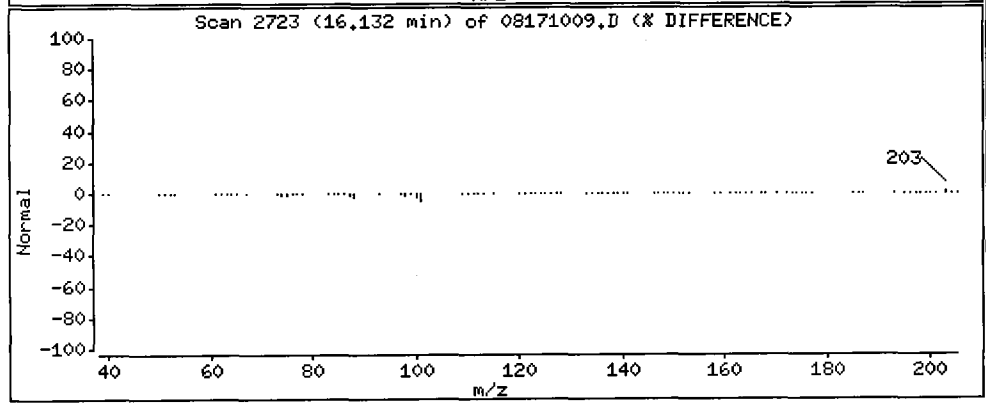
64 Fluoranthene

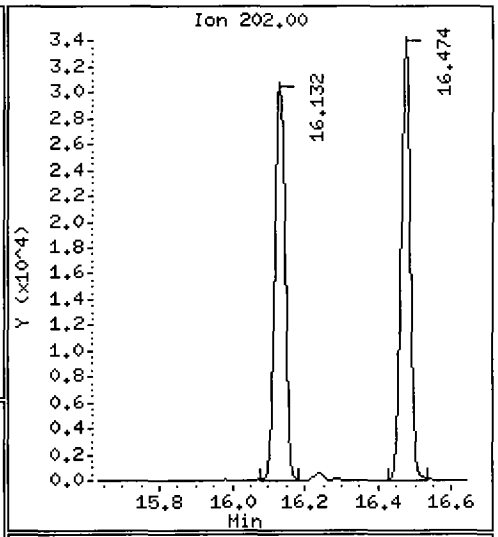
Concentration: 29.17 ug/kg

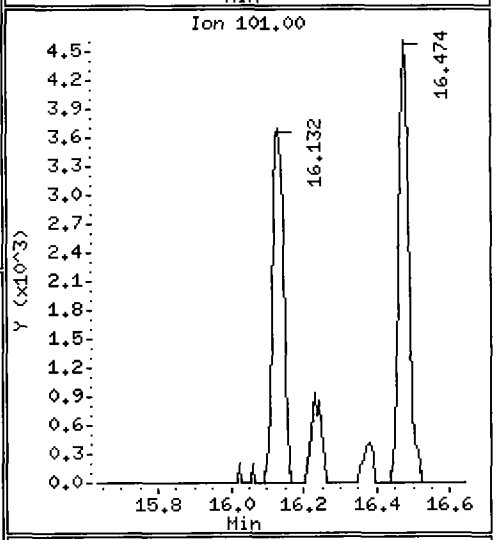


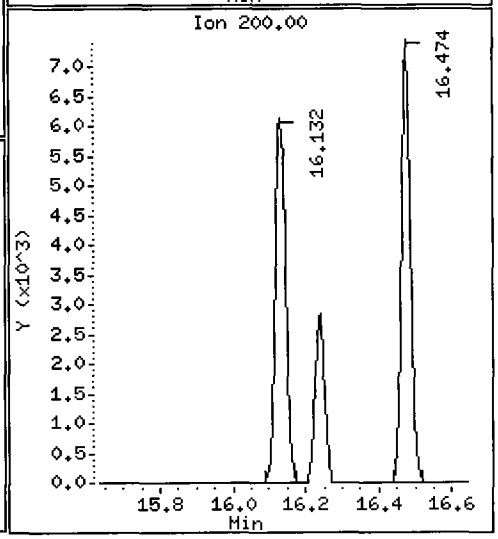












Data File: /chem1/nt6.i/20100817.b/08171009.D

Date : 17-AUG-2010 14:35

Client ID: PSB9A-0-0.5-073010

Instrument: nt6.i

Sample Info: RG78E

Volume Injected (uL): 1.0

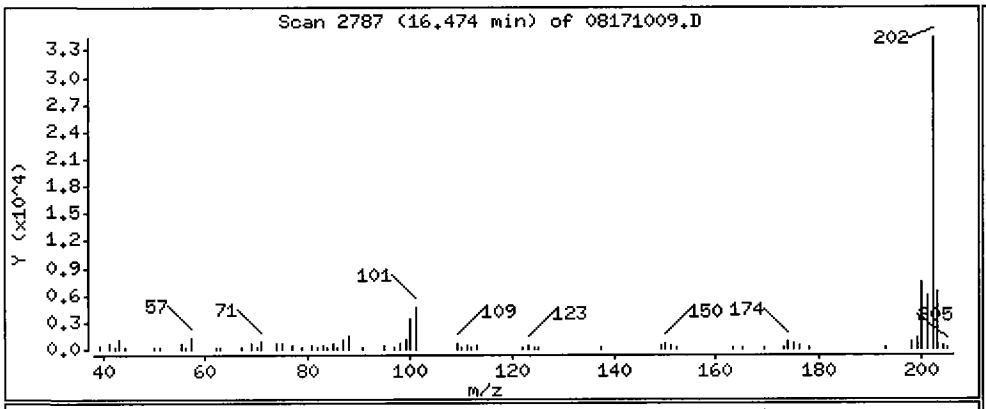
Operator: JZ

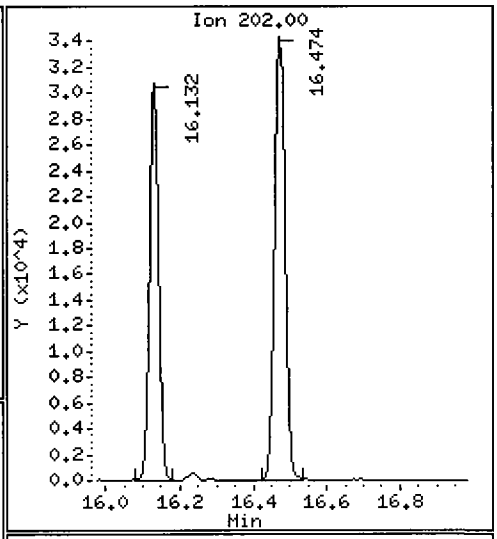
Column phase: ZB-5msi

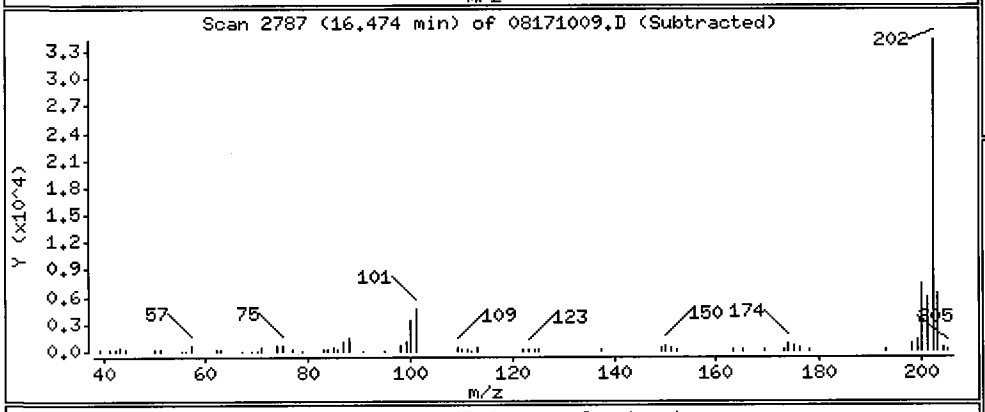
Column diameter: 0.32

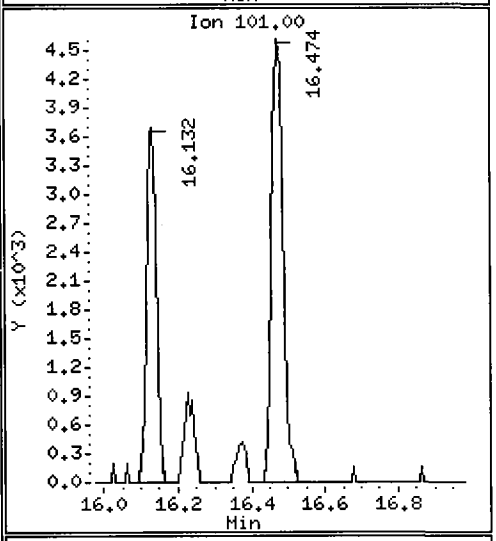
65 Pyrene

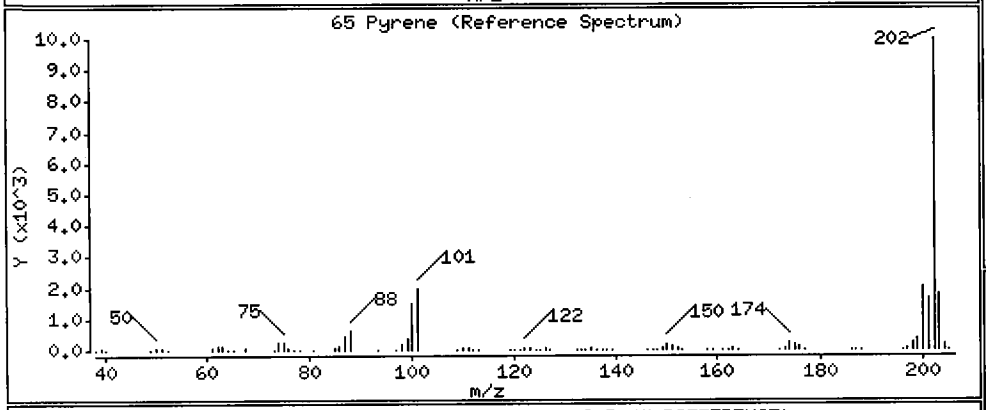
Concentration: 35.90 ug/kg

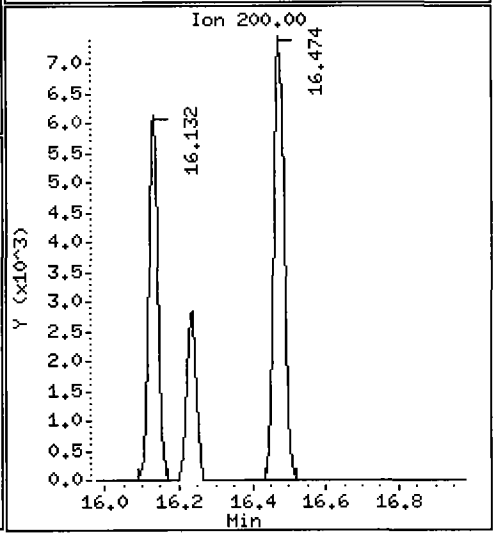


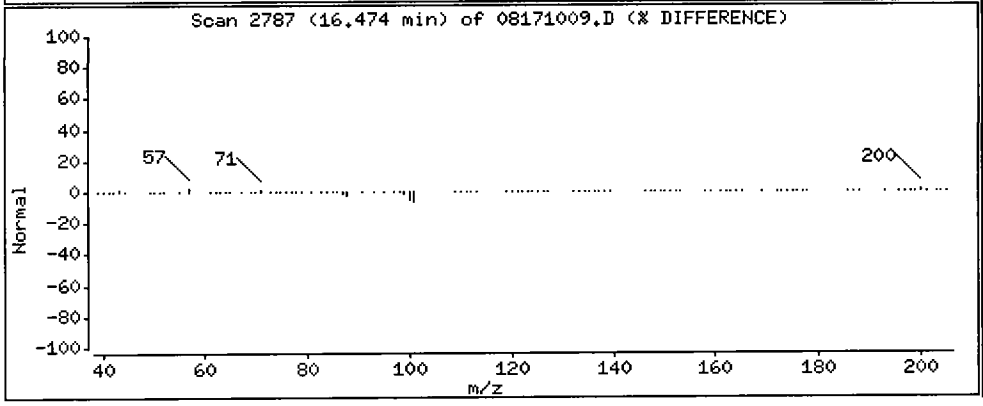












Data File: /chem1/nt6.i/20100817.b/08171009.D

Date : 17-AUG-2010 14:35

Client ID: PSB9A-0-0.5-073010

Instrument: nt6.i

Sample Info: RG78E

Volume Injected (uL): 1.0

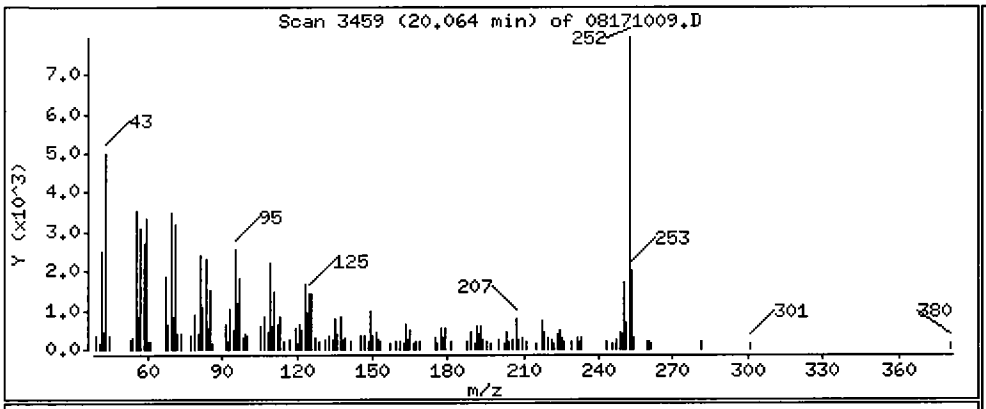
Operator: JZ

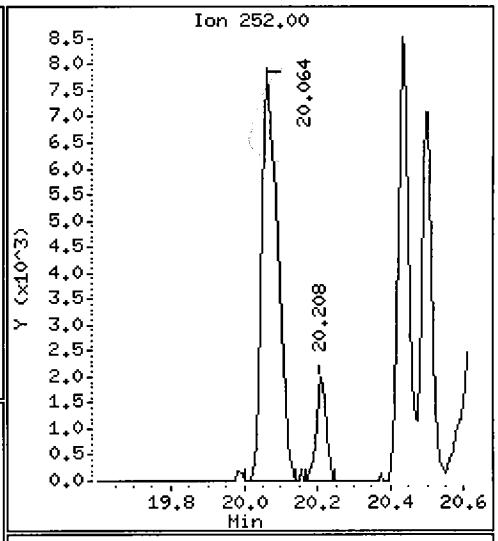
Column phase: ZB-5msi

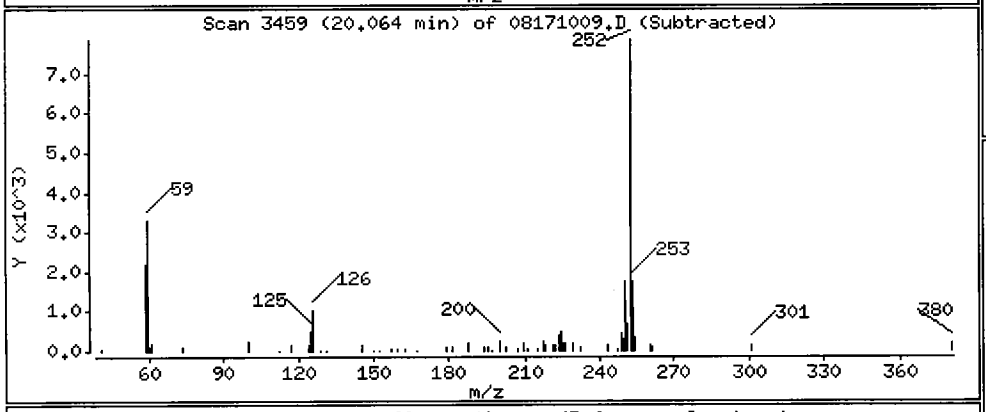
Column diameter: 0.32

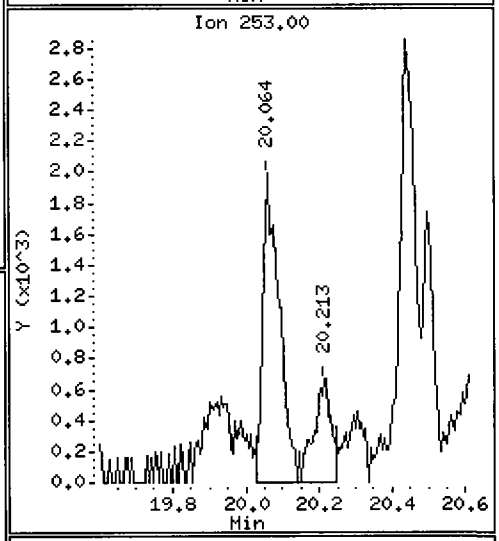
187 Total Benzofluoranthenes

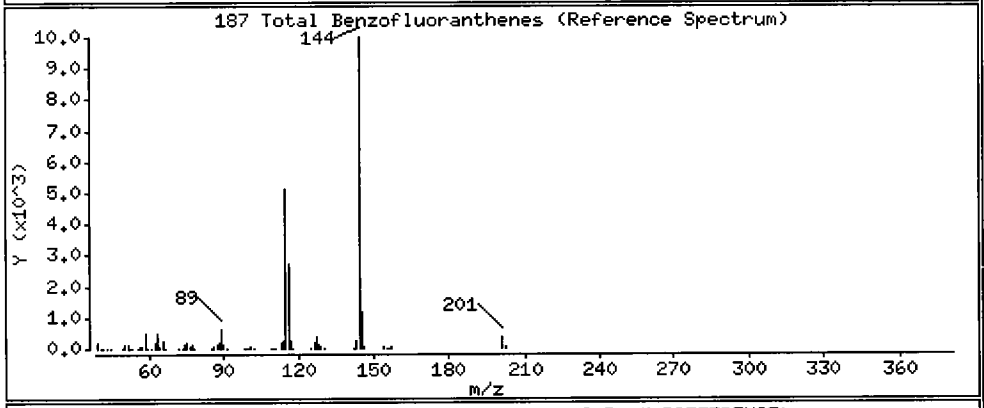
Concentration: 13.17 ug/kg

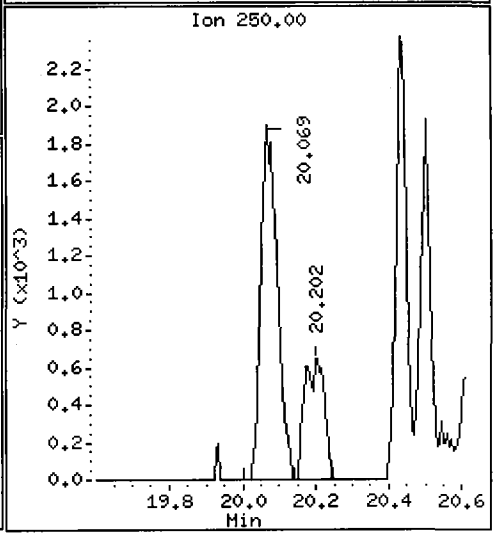


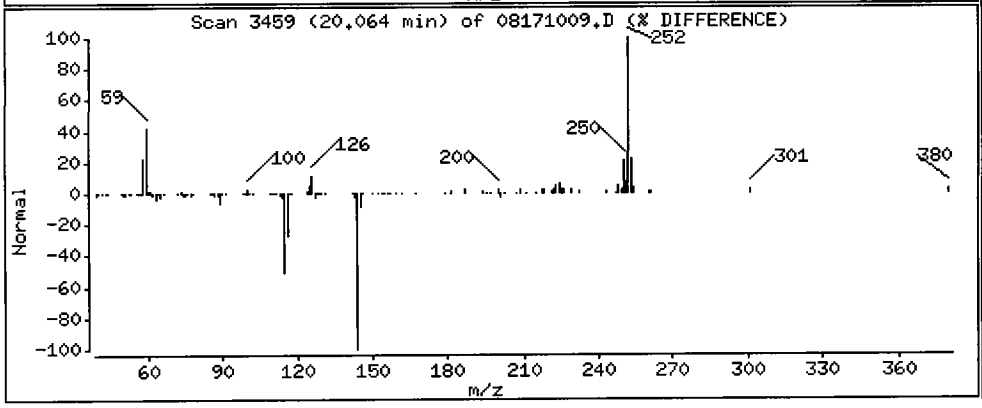












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171011.D
Lab Smp Id: RG78G Client Smp ID: PSB10-1.5-2-073010
Inj Date : 17-AUG-2010 15:41
Operator : JZ Inst ID: nt6.i
Smp Info : RG78G
Misc Info : 10-18439
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	27.70000	Weight of sample extracted (g)
M	7.30000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.012	9.013	(1.000)	610484	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.913)	346364	14.1043	274.6
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.849	11.849	(1.000)	350790	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	549501	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	256434	10.5170	204.8
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.456	18.456	(1.000)	688289	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.592	20.587	(1.000)	742251	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171011.D
Lab Smp Id: RG78G
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18439

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-1.5-2-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	610484	4.51
42 Acenaphthene-d10	320442	160221	640884	350790	9.47
59 Phenanthrene-d10	503793	251896	1007586	549501	9.07
69 Chrysene-d12	532343	266172	1064686	688289	29.29
77 Perylene-d12	517269	258634	1034538	742251	43.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.01
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.01
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.00
77 Perylene-d12	20.59	20.09	21.09	20.59	0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78G
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18439

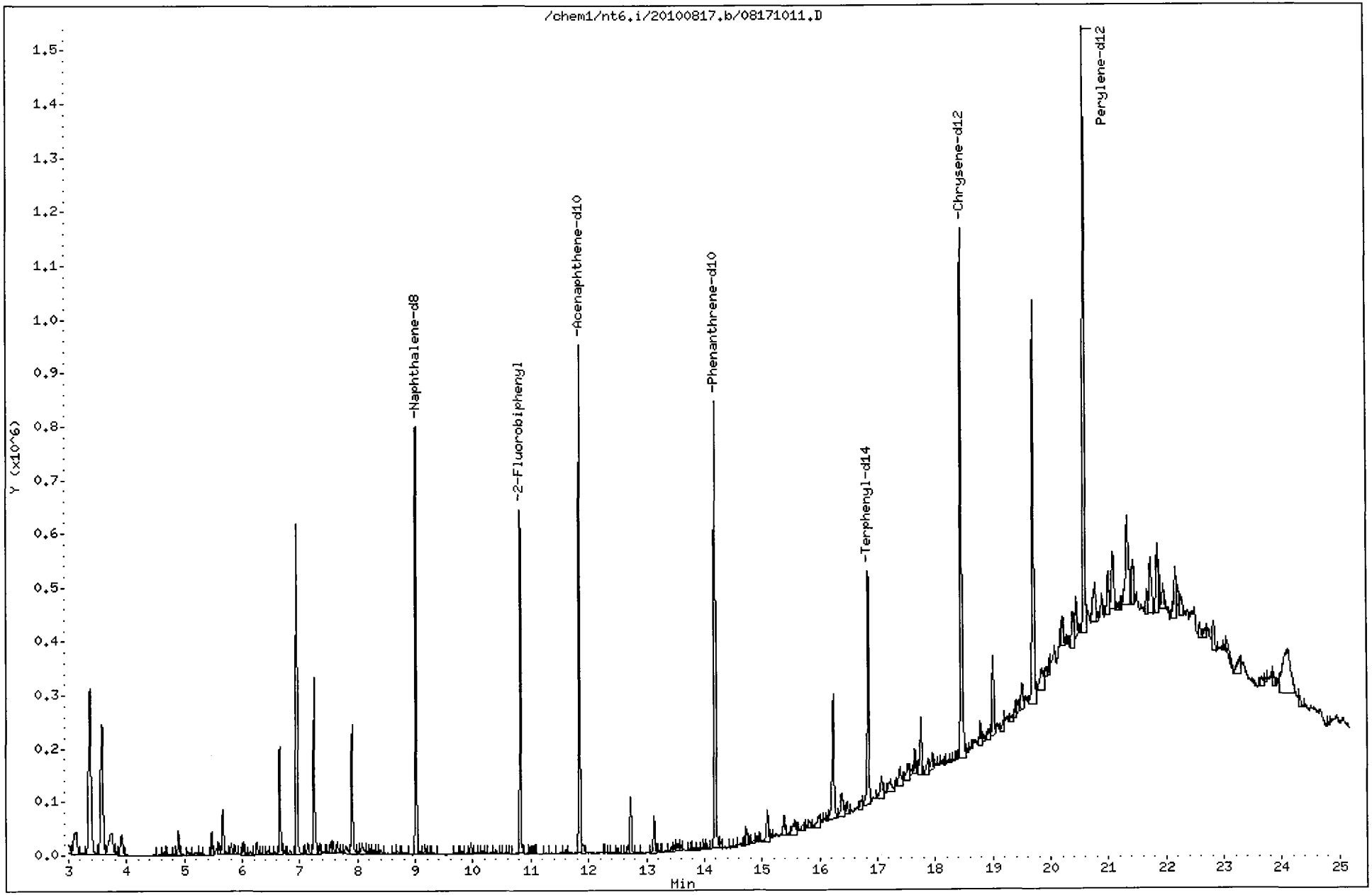
Client SDG: RG78
Fraction: SV
Client Smp ID: PSB10-1.5-2-073010
Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	486.8	274.6	56.42	34-100
$ 66 Terphenyl-d14	486.8	204.8	42.07	35-112

Data File: /chem1/nt6.i/20100817.b/08171011.D
Date : 17-AUG-2010 15:41
Client ID: PSB10-1.5-2-073010
Sample Info: RG78G
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:08839



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171012.D
Lab Smp Id: RG78H Client Smp ID: PSB10-2-4-073010
Inj Date : 17-AUG-2010 16:14
Operator : JZ Inst ID: nt6.i
Smp Info : RG78H
Misc Info : 10-18440
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	28.40000	Weight of sample extracted (g)
M	7.70000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.008	9.013	(1.000)	596735	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.824	10.824	(0.913)	341569	14.4080	274.8
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.849	11.849	(1.000)	338642	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.189	14.194	(1.000)	539987	20.0000	
60 Phenanthrene	178	14.221	14.226	(1.002)	36369	1.08429	20.68
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	16.138	16.138	(1.137)	66441	1.82809	34.87
65 Pyrene	202	16.480	16.480	(0.893)	61593	1.51234	28.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	312044	13.0260	248.5
	68 Benzo(a)anthracene	228	18.435	18.435	(0.999)	32014	0.81896	15.62
*	69 Chrysene-d12	240	18.456	18.456	(1.000)	676227	20.0000	
	71 Chrysene	228	18.494	18.499	(1.002)	32029	0.87533	16.70
	187 Total Benzofluoranthenes	252	20.075	20.107	(0.975)	52731	1.13266	21.60
	76 Benzo(a)pyrene	252	20.512	20.507	(0.996)	25146	0.55154	10.52
*	77 Perylene-d12	264	20.598	20.587	(1.000)	723009	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171012.D
Lab Smp Id: RG78H
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18440

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	596735	2.16
42 Acenaphthene-d10	320442	160221	640884	338642	5.68
59 Phenanthrene-d10	503793	251896	1007586	539987	7.18
69 Chrysene-d12	532343	266172	1064686	676227	27.03
77 Perylene-d12	517269	258634	1034538	723009	39.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	0.00
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.00
77 Perylene-d12	20.59	20.09	21.09	20.60	0.05

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78H
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18440

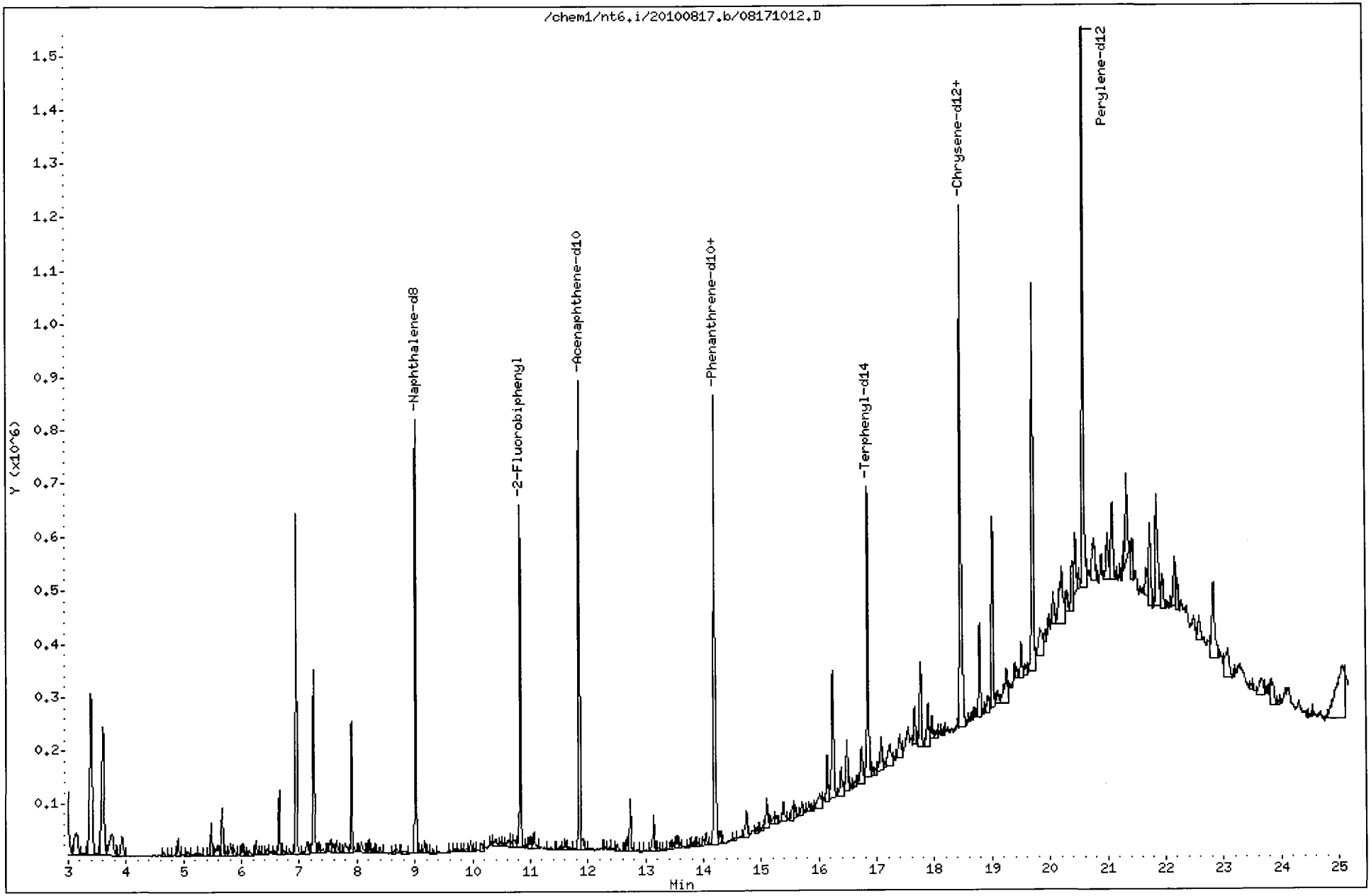
Client SDG: RG78
Fraction: SV
Client Smp ID: PSB10-2-4-073010
Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	476.9	274.8	57.63	34-100
$ 66 Terphenyl-d14	476.9	248.5	52.10	35-112

Data File: /chem1/nt6.i/20100817.b/08171012.D
Date : 17-AUG-2010 16:14
Client ID: PSB10-2-4-073010
Sample Info: RG78H
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:08813



Data File: /chem1/nt6.i/20100817.b/08171012.D

Date : 17-AUG-2010 16:14

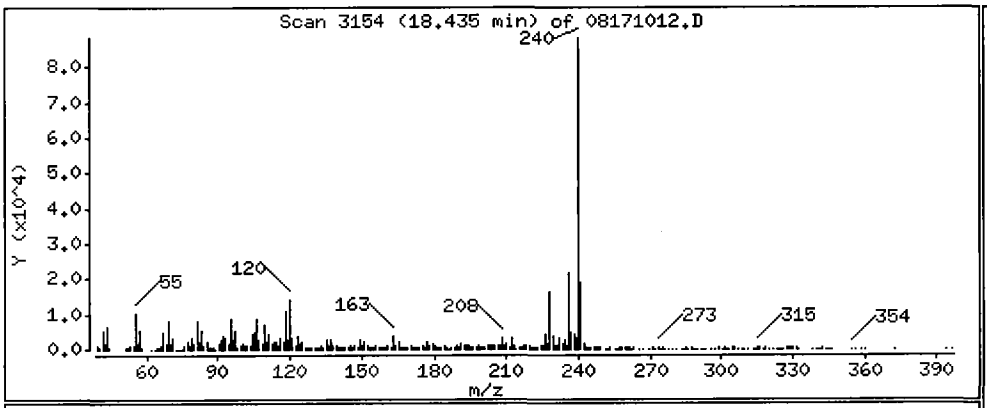
Client ID: PSB10-2-4-073010 Instrument: nt6.i

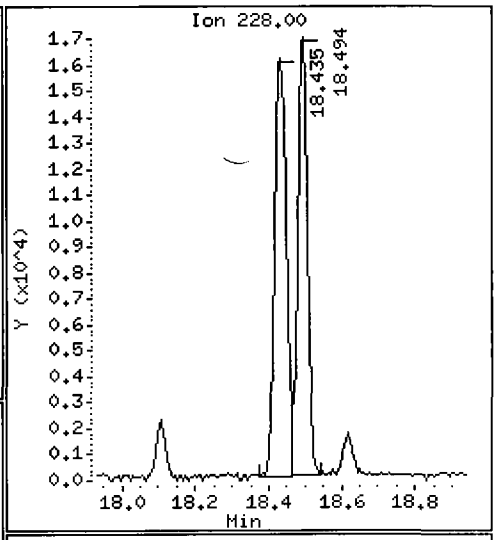
Sample Info: RG78H

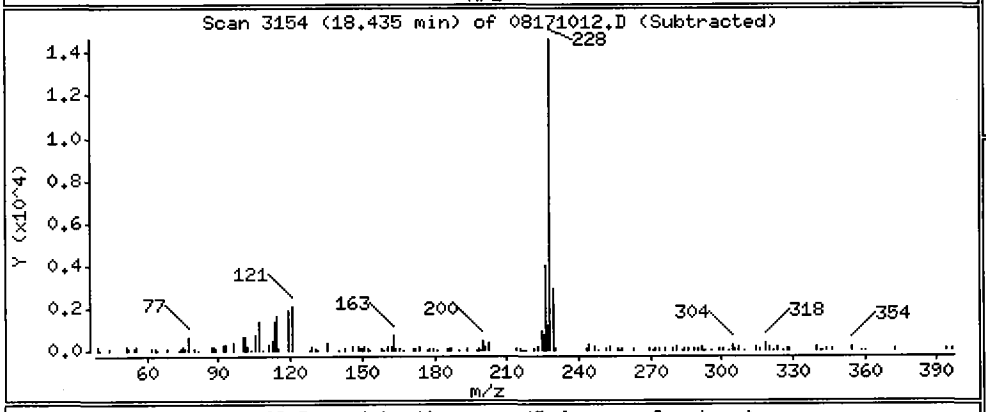
Volume Injected (uL): 1.0 Operator: JZ

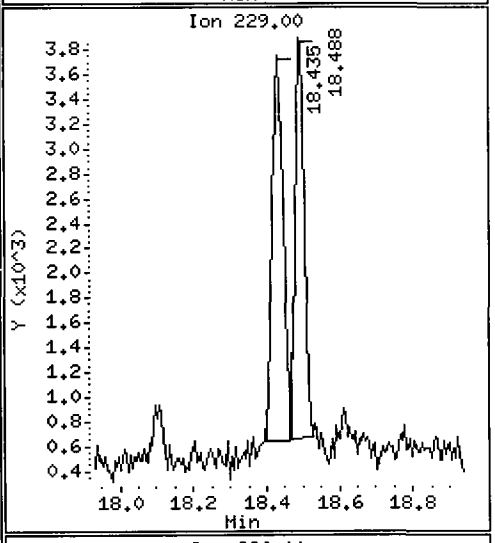
Column phase: ZB-5msi Column diameter: 0.32

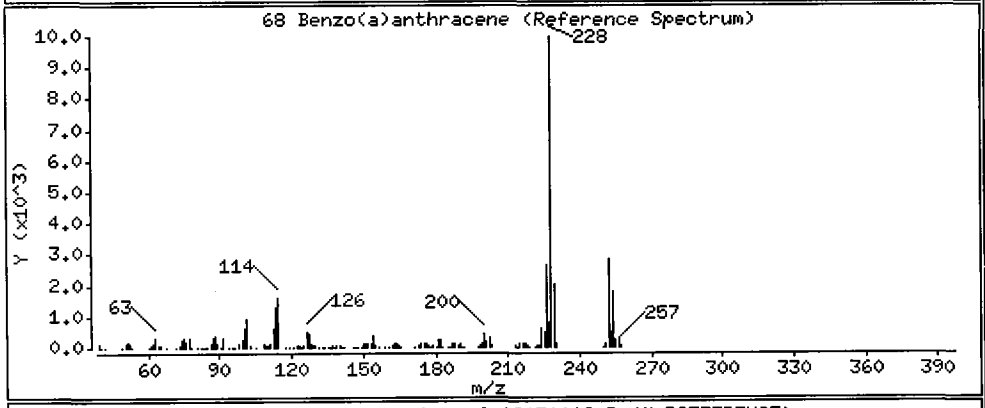
68 Benzo(a)anthracene Concentration: 15.62 ug/kg

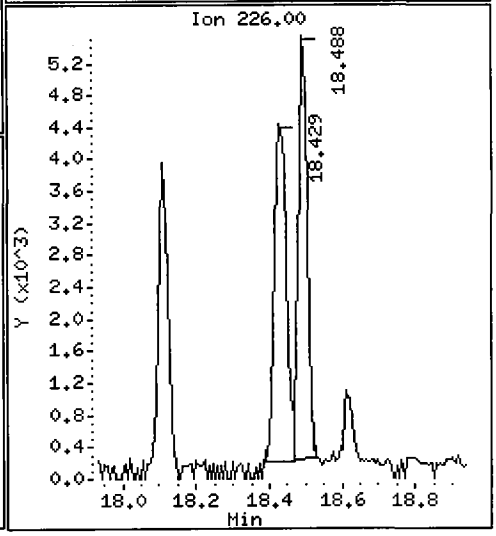


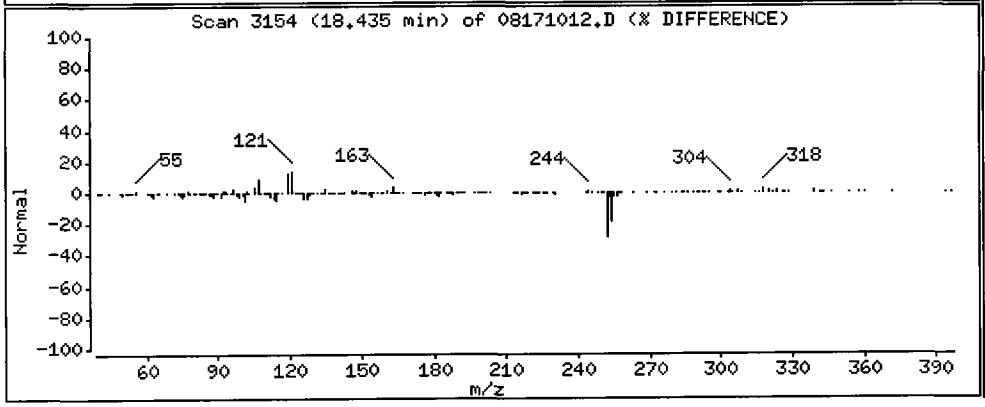












Data File: /chem1/nt6.i/20100817.b/08171012.D

Date : 17-AUG-2010 16:14

Client ID: PSB10-2-4-073010

Instrument: nt6.i

Sample Info: RG78H

Volume Injected (uL): 1.0

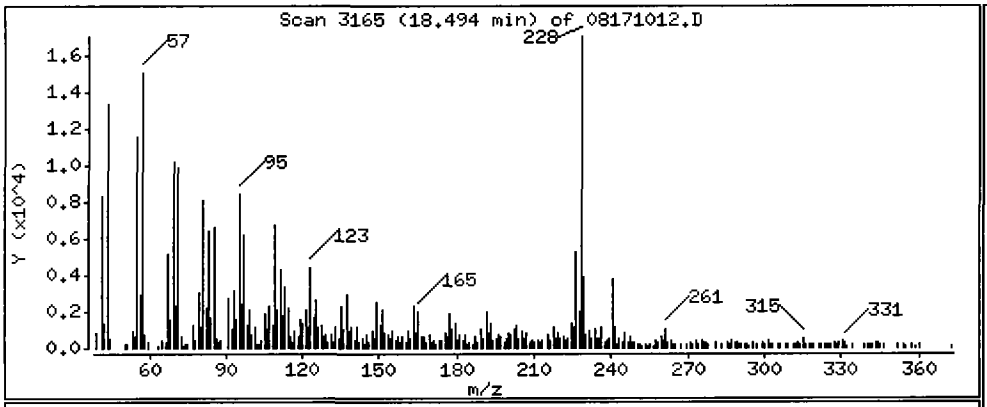
Operator: JZ

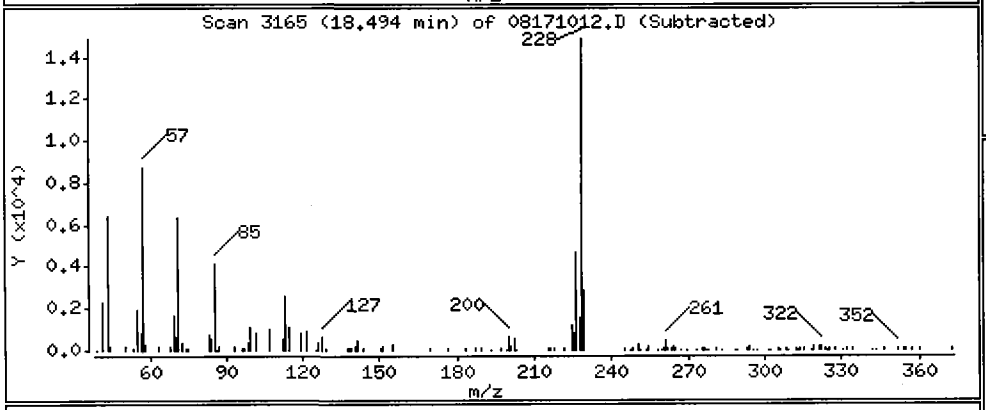
Column phase: ZB-5msi

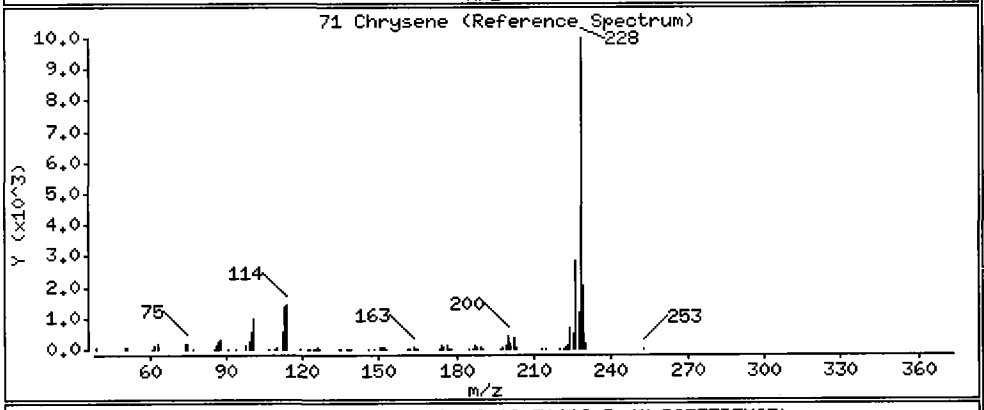
Column diameter: 0.32

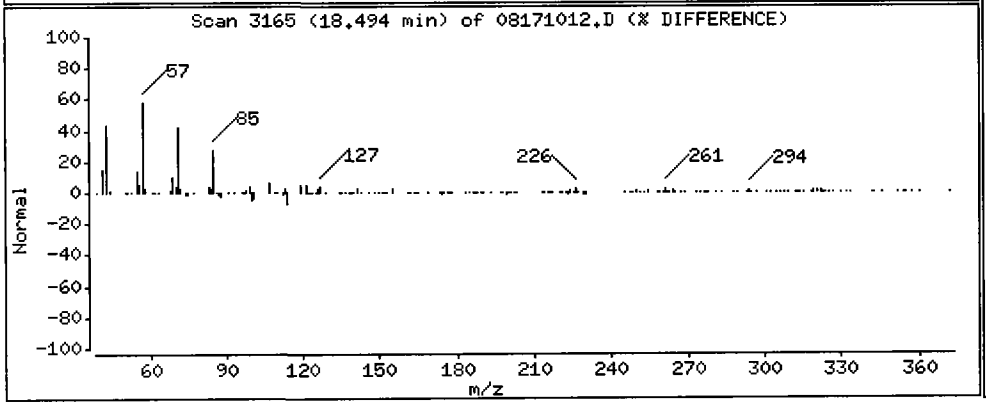
71 Chrysene

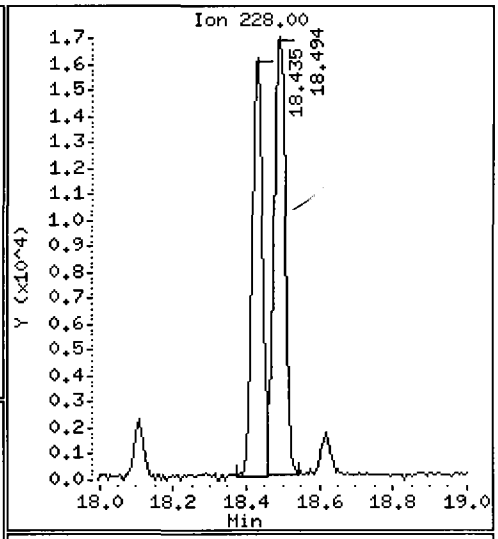
Concentration: 16.70 ug/kg

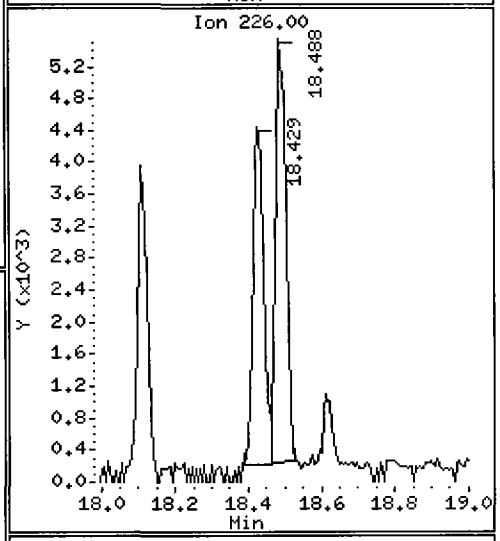


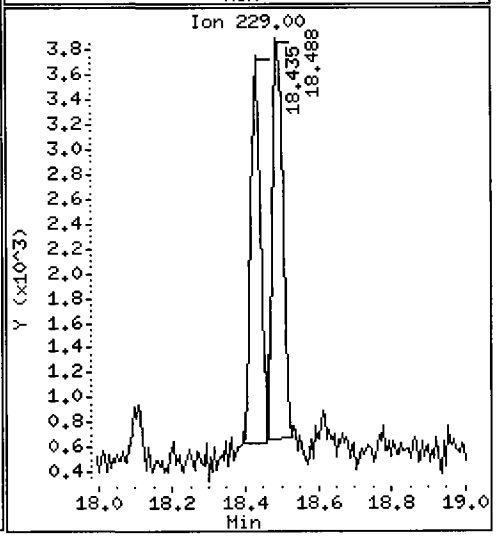












Data File: /chem1/nt6.i/20100817.b/08171012.D

Date : 17-AUG-2010 16:14

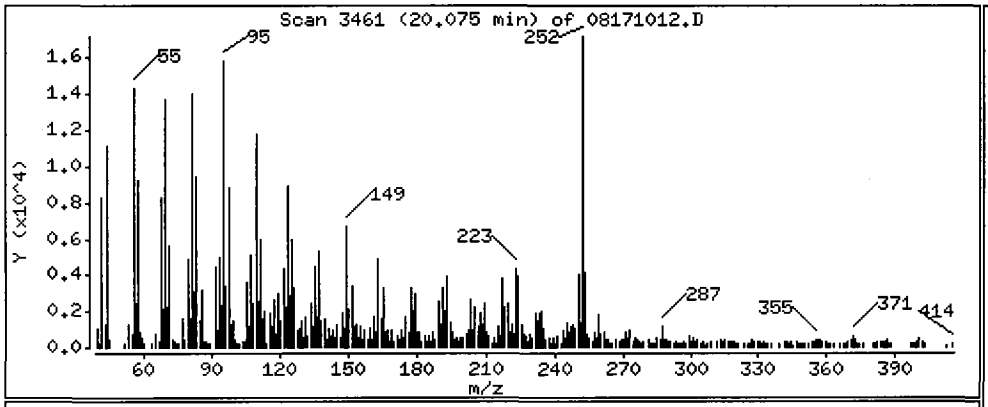
Client ID: PSB10-2-4-073010 Instrument: nt6.i

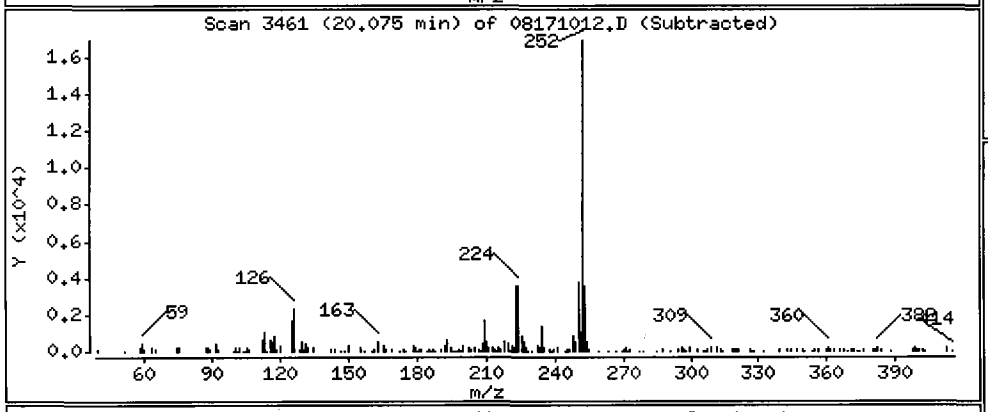
Sample Info: RG78H

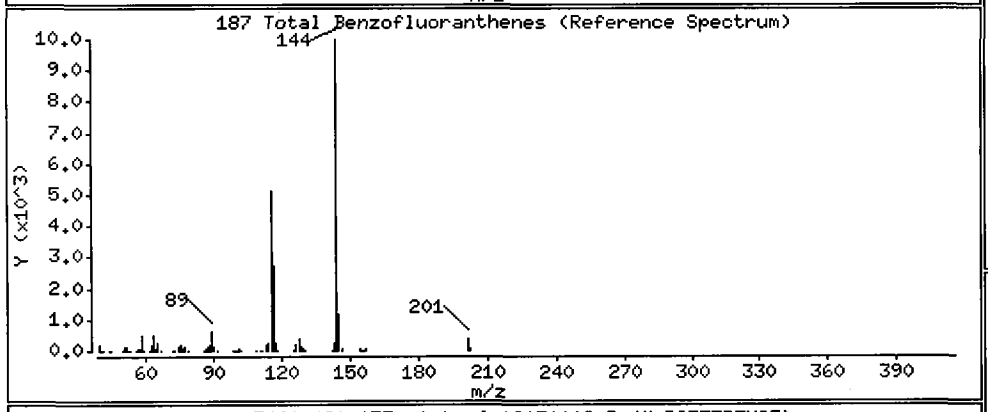
Volume Injected (uL): 1.0 Operator: JZ

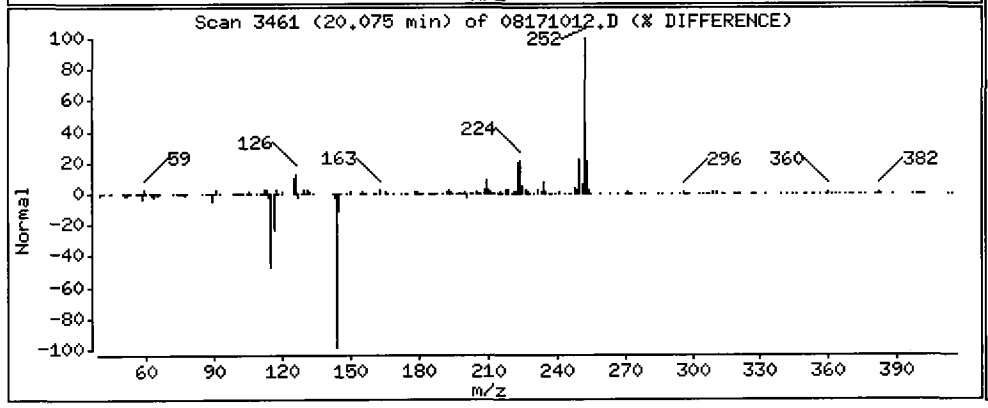
Column phase: ZB-5msi Column diameter: 0.32

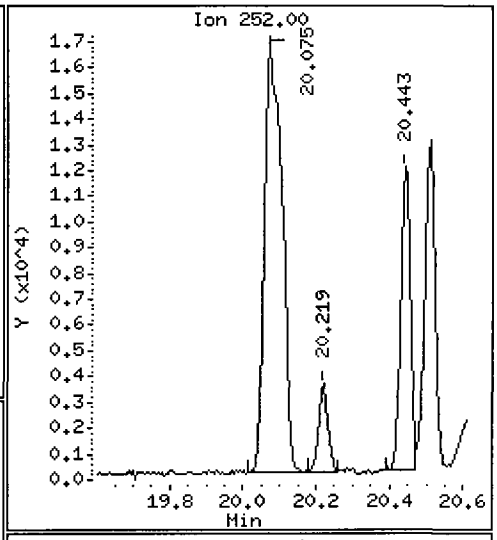
187 Total Benzofluoranthenes Concentration: 21.60 ug/kg

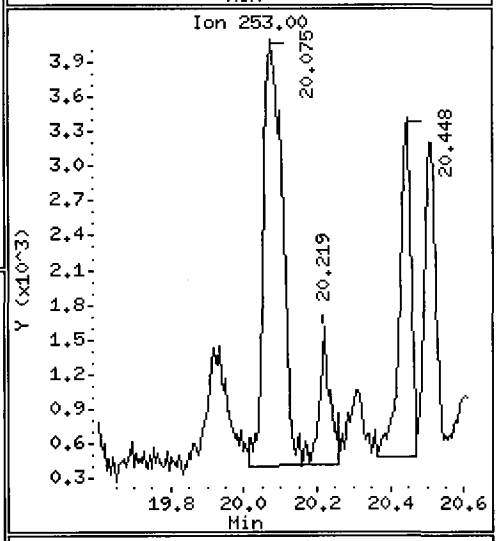


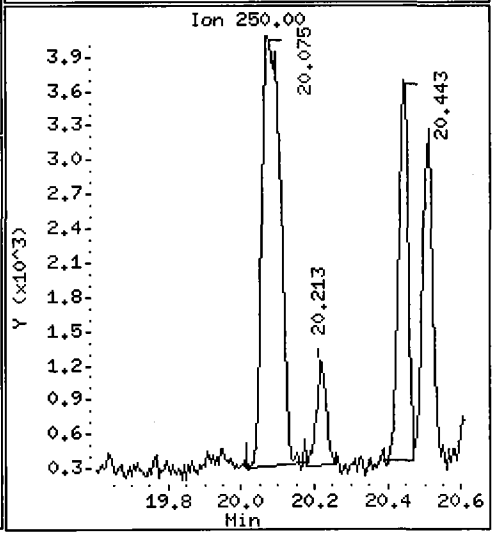












Data File: /chem1/nt6.i/20100817.b/08171012.D

Date : 17-AUG-2010 16:14

Client ID: PSB10-2-4-073010

Instrument: nt6.i

Sample Info: RG78H

Volume Injected (uL): 1.0

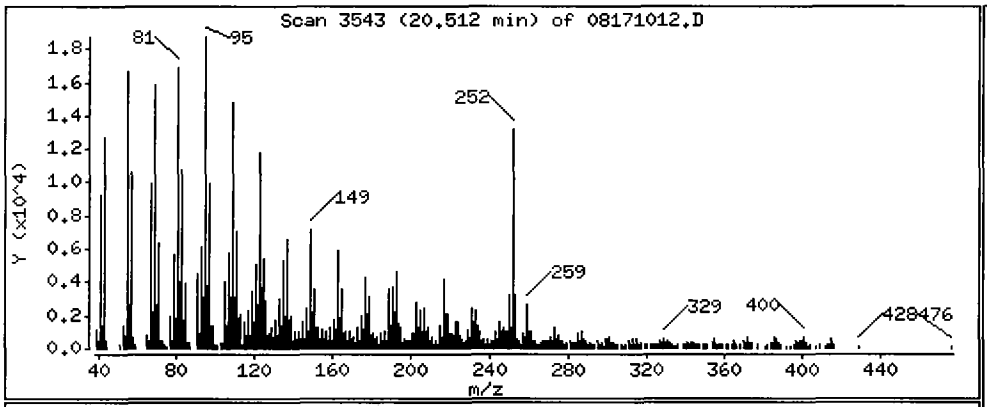
Operator: JZ

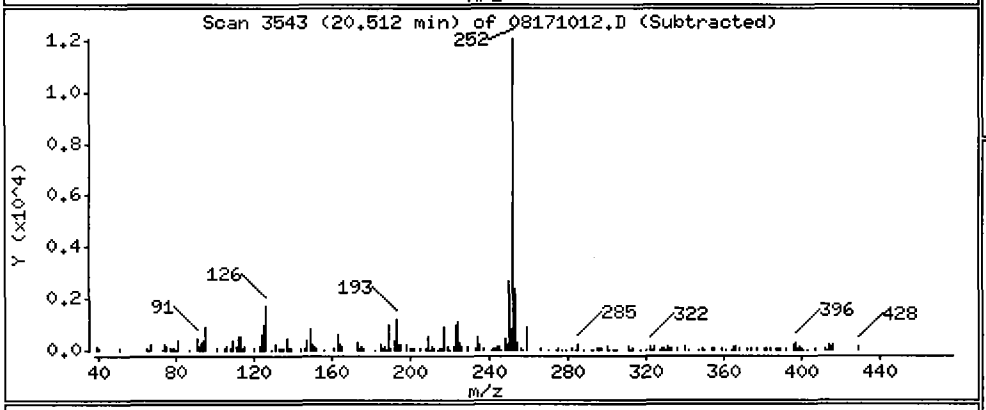
Column phase: ZB-5msi

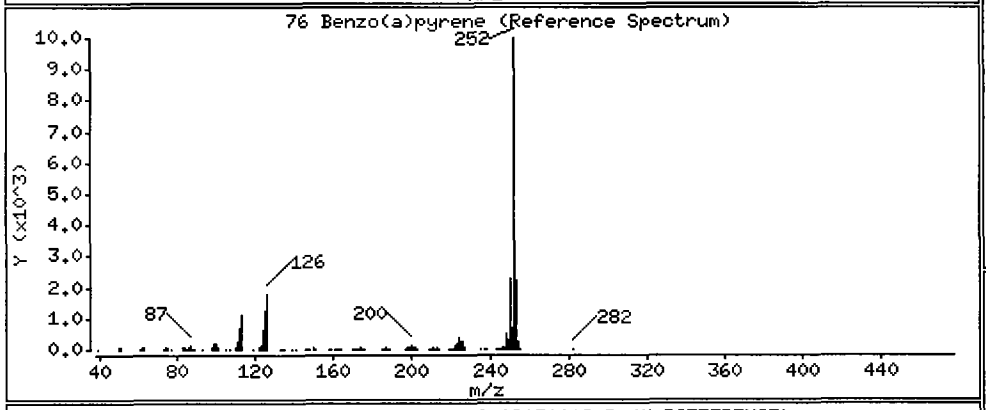
Column diameter: 0.32

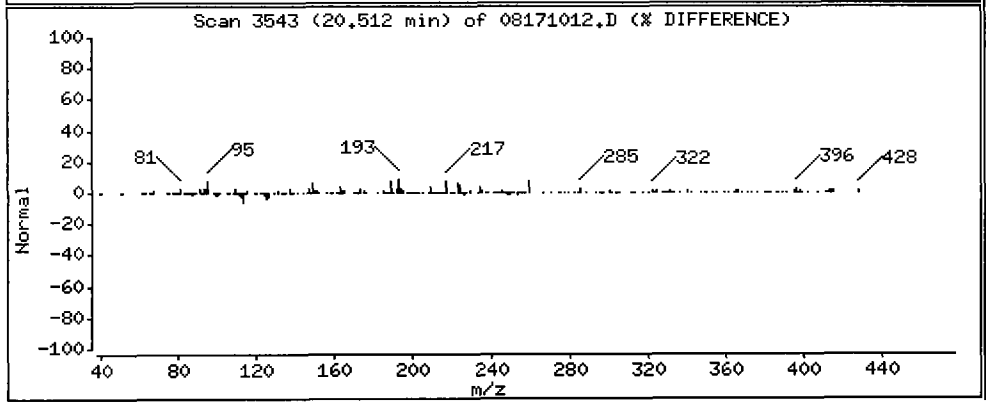
76 Benzo(a)pyrene

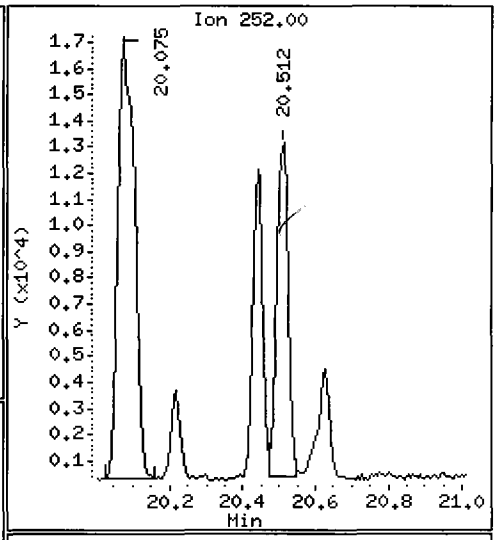
Concentration: 10.52 ug/kg

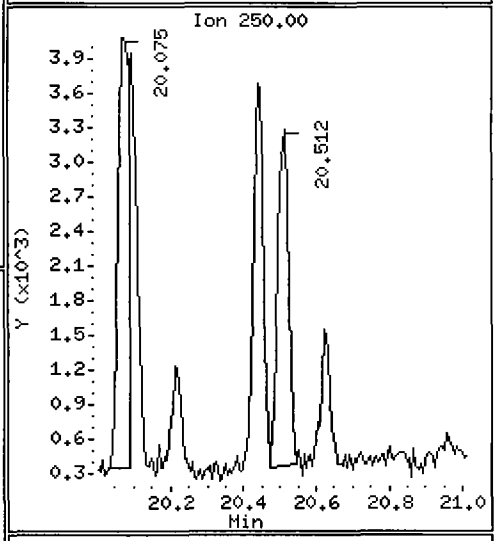


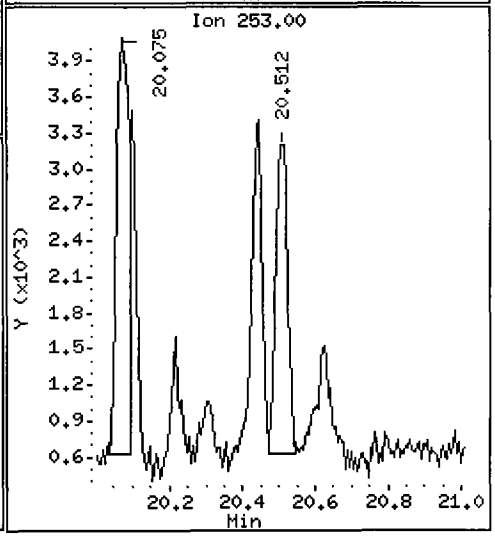












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171013.D
Lab Smp Id: RG78I Client Smp ID: PSB10-4-6-073010
Inj Date : 17-AUG-2010 16:47
Operator : JZ Inst ID: nt6.i
Smp Info : RG78I
Misc Info : 10-18441
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

DL 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	27.50000	Weight of sample extracted (g)
M	7.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.010	9.013	(1.000)	582869	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.821	10.824	(0.913)	384557	16.6029	325.3
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.846	11.849	(1.000)	330859	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.191	14.194	(1.000)	524227	20.0000	
60 Phenanthrene	178	14.223	14.226	(1.002)	23826	0.73170	14.34
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	16.135	16.138	(1.137)	22653	0.64202	12.58
65 Pyrene	202	16.477	16.480	(0.892)	27768	0.62386	12.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.846	16.843	(0.912)	379963	14.5130	284.3
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.464	18.456	(1.000)	739045	20.0000	
	71 Chrysene	228	18.496	18.499	(1.002)	33231	0.83099	16.28
	187 Total Benzofluoranthenes	252	20.093	20.107	(0.975)	33455	0.63962	12.53(a)
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.611	20.587	(1.000)	812300	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171013.D
Lab Smp Id: RG78I
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18441

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	582869	-0.22
42 Acenaphthene-d10	320442	160221	640884	330859	3.25
59 Phenanthrene-d10	503793	251896	1007586	524227	4.06
69 Chrysene-d12	532343	266172	1064686	739045	38.83
77 Perylene-d12	517269	258634	1034538	812300	57.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.03
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.02
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.02
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.04
77 Perylene-d12	20.59	20.09	21.09	20.61	0.12

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

Analytical Resources, Inc.

RECOVERY REPORT

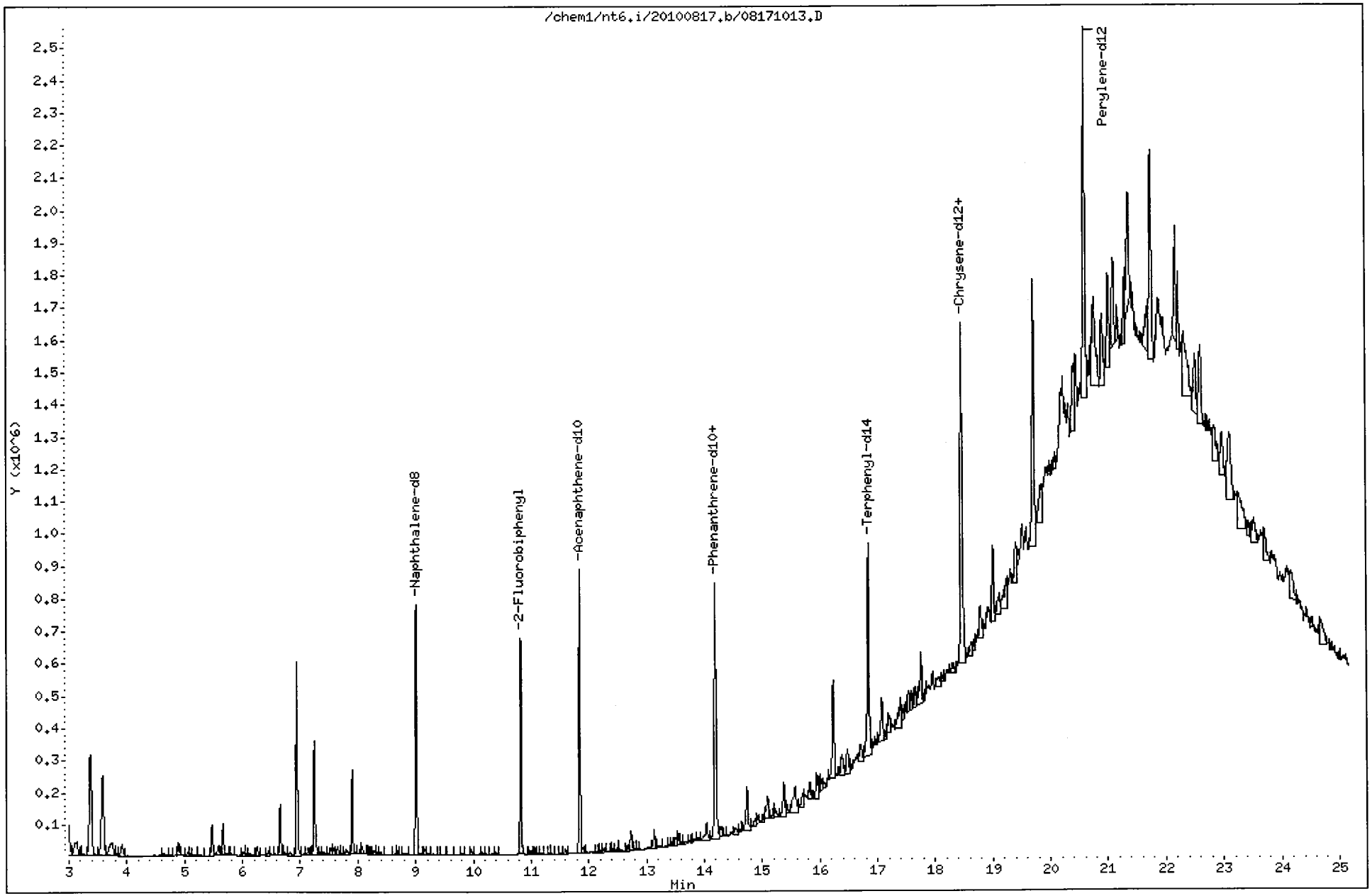
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78I
Client Smp ID: PSB10-4-6-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18441

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	489.8	325.3	66.41	34-100
$ 66 Terphenyl-d14	489.8	284.3	58.05	35-112

Data File: /chem1/nt6.i/20100817.b/08171013.D
Date : 17-AUG-2010 16:47
Client ID: PSB10-4-6-073010
Sample Info: RG78I
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:00852



Data File: /chem1/nt6.i/20100817.b/08171013.D

Date : 17-AUG-2010 16:47

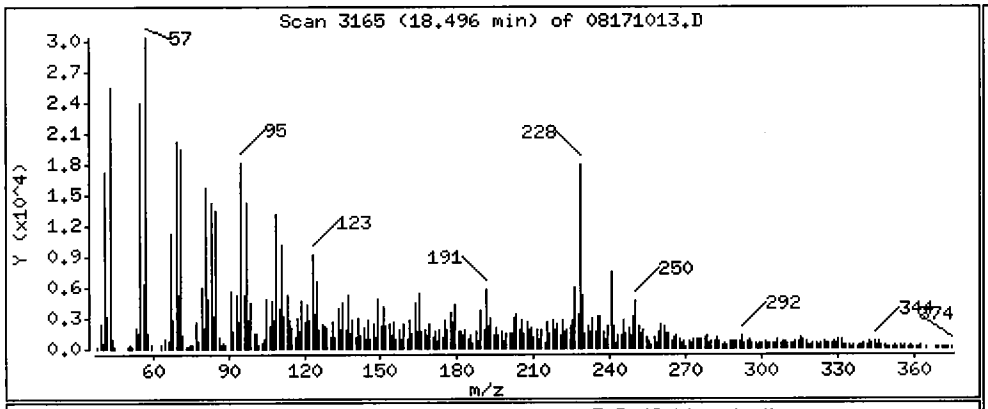
Client ID: PSB10-4-6-073010 Instrument: nt6.i

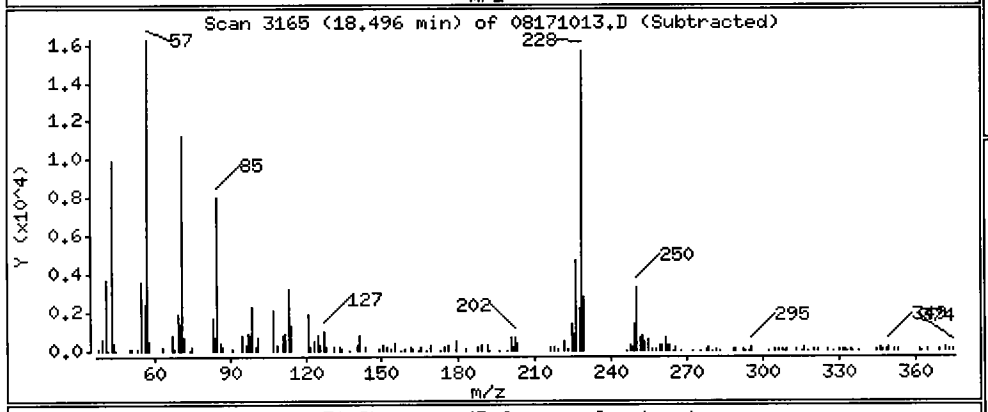
Sample Info: RG78I

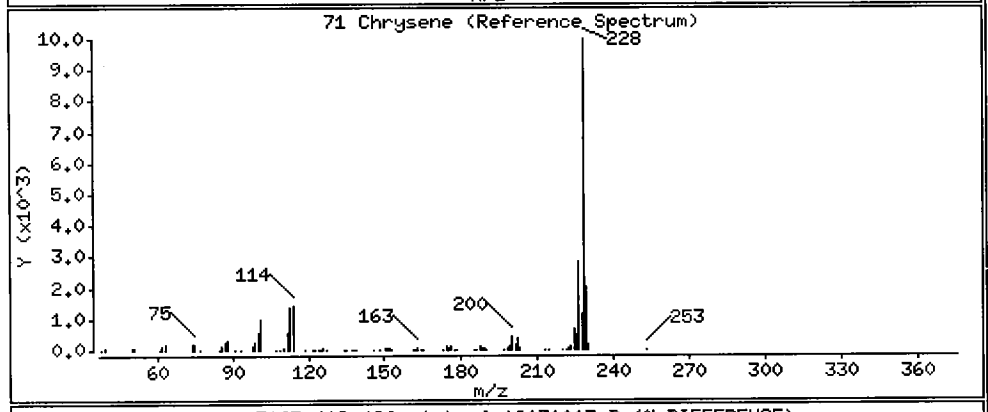
Volume Injected (uL): 1.0 Operator: JZ

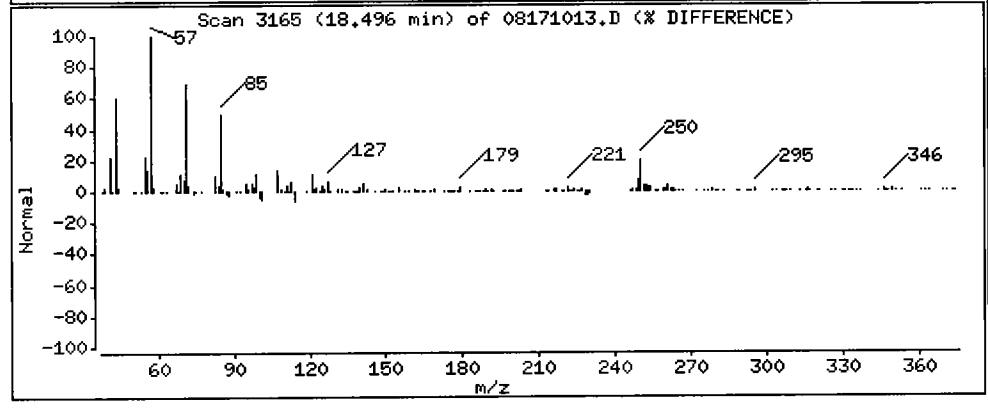
Column phase: ZB-5msi Column diameter: 0.32

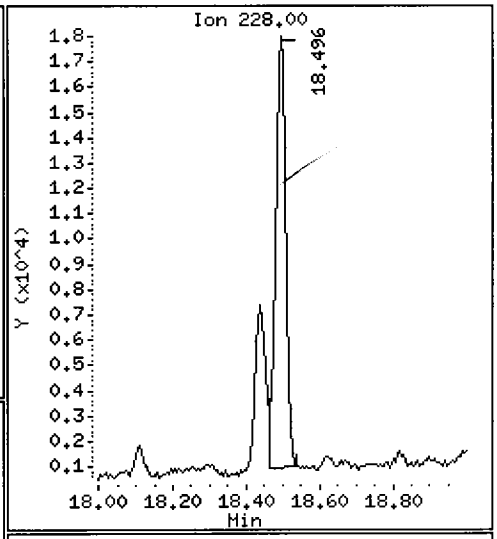
71 Chrysene Concentration: 16.28 ug/kg

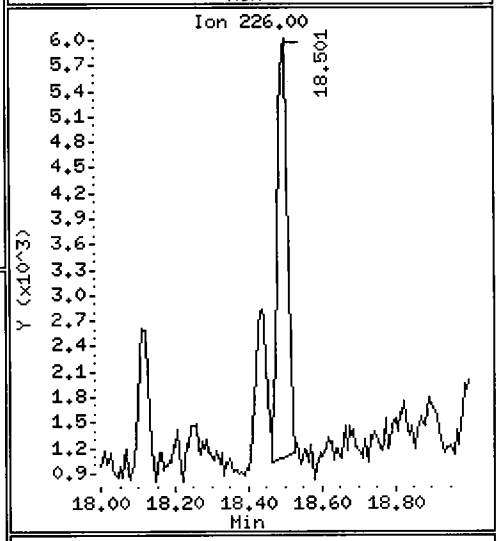


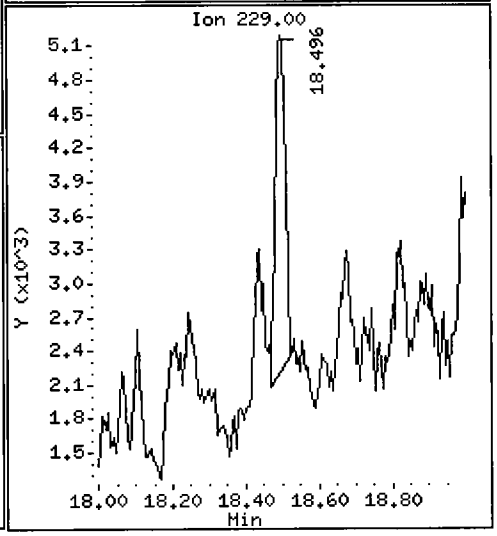












Data File: /chem1/nt6.i/20100817.b/08171013.D

Date : 17-AUG-2010 16:47

Client ID: PSB10-4-6-073010 Instrument: nt6.i

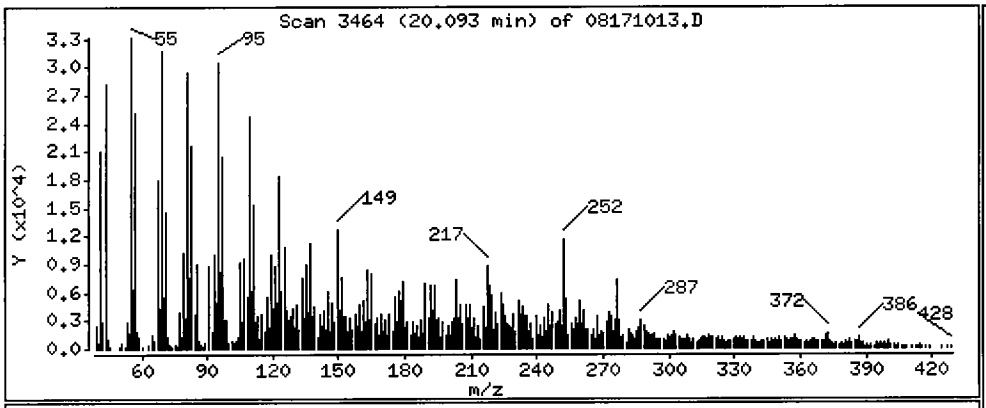
Sample Info: RG78I

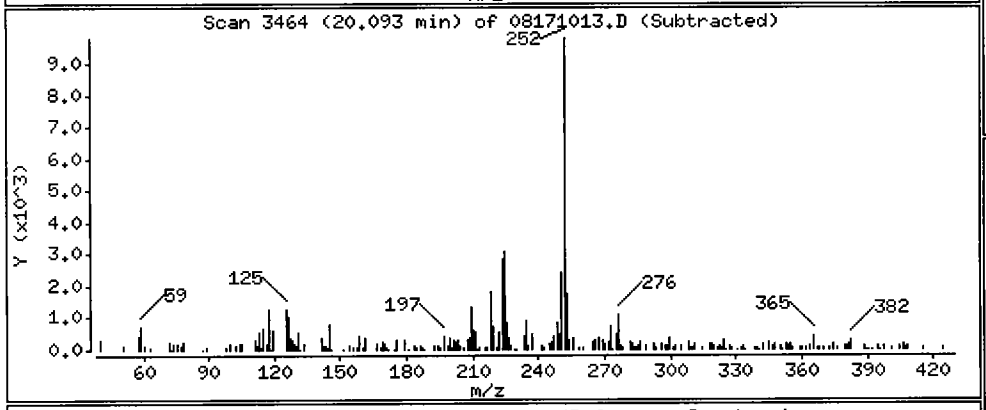
Volume Injected (uL): 1.0 Operator: JZ

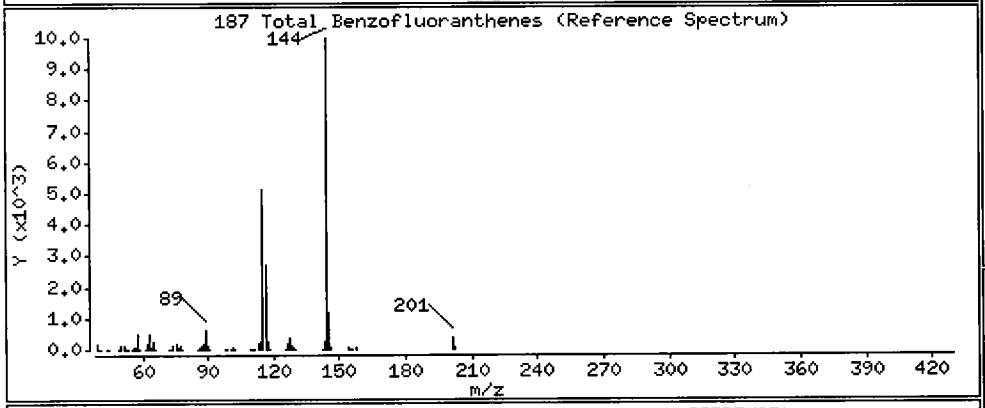
Column phase: ZB-5msi Column diameter: 0.32

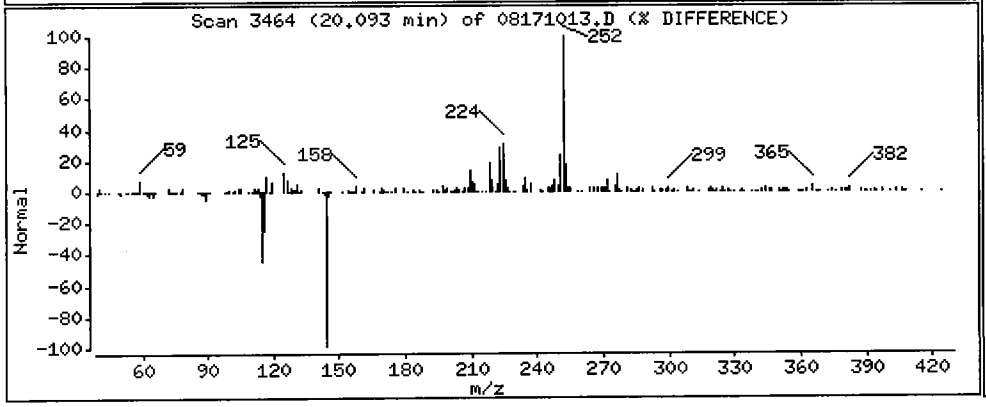
187 Total Benzofluoranthenes Concentration: 12.53 ug/kg

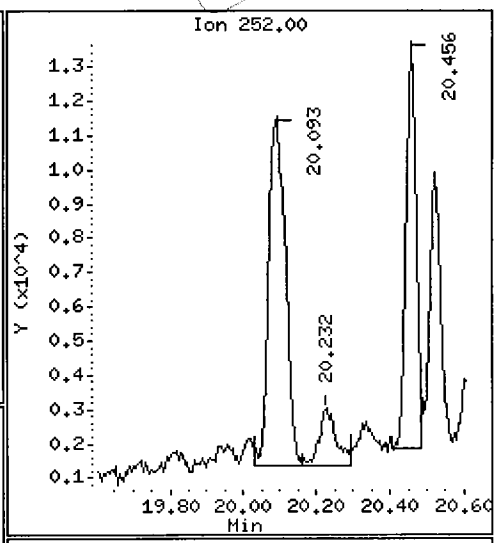
(J CRL

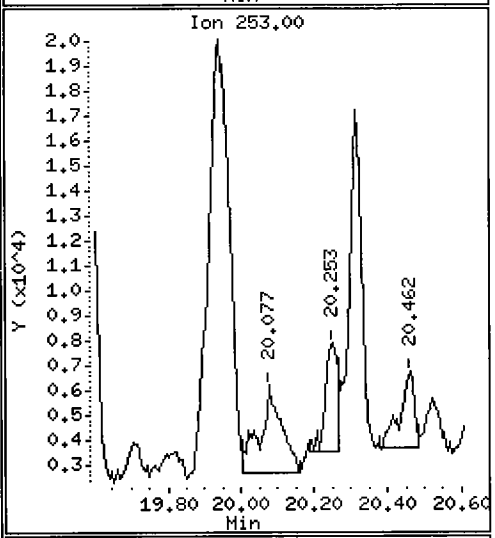


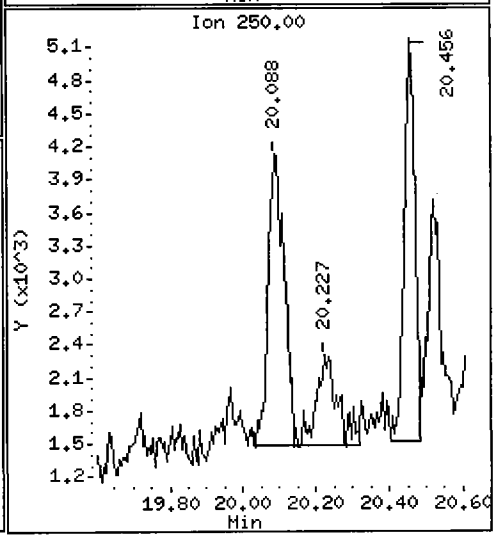












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171014.D
Lab Smp Id: RG78J Client Smp ID: PSB10-8.5-10-073010
Inj Date : 17-AUG-2010 17:20
Operator : JZ Inst ID: nt6.i
Smp Info : RG78J
Misc Info : 10-18442
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.20000	Weight of sample extracted (g)
M	11.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.009	9.013	(1.000)	587430	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.825	10.824	(0.914)	347453	14.7969	285.0
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.845	11.849	(1.000)	335423	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.190	14.194	(1.000)	533260	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.845	16.843	(0.913)	369411	15.5349	299.2
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.458	18.456	(1.000)	671258	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.594	20.587	(1.000)	723584	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171014.D
Lab Smp Id: RG78J
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-8.5-10-073
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	587430	0.56
42 Acenaphthene-d10	320442	160221	640884	335423	4.68
59 Phenanthrene-d10	503793	251896	1007586	533260	5.85
69 Chrysene-d12	532343	266172	1064686	671258	26.10
77 Perylene-d12	517269	258634	1034538	723584	39.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.04
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.03
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.03
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.01
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

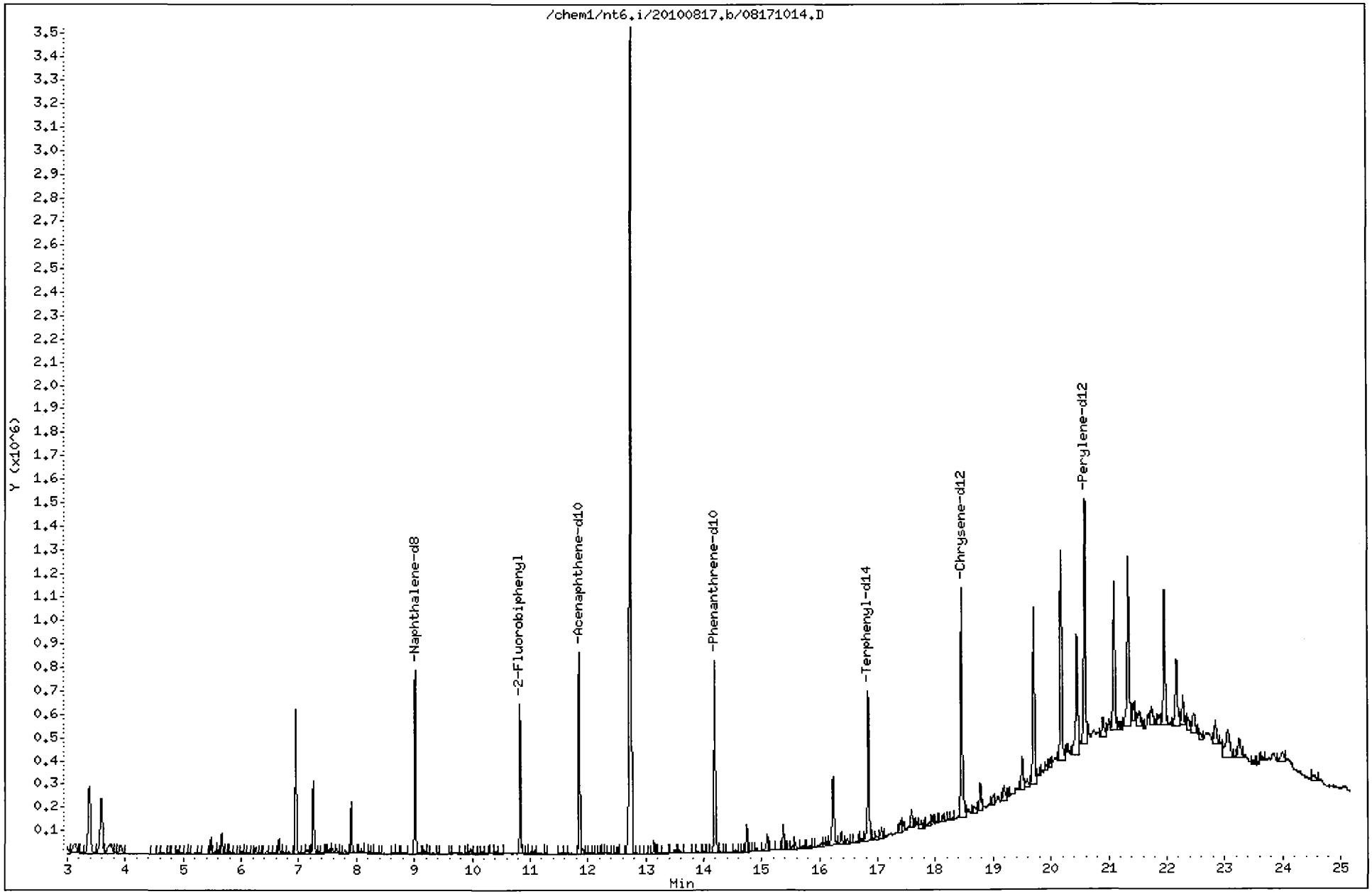
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78J
Client Smp ID: PSB10-8.5-10-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	481.5	285.0	59.19	34-100
$ 66 Terphenyl-d14	481.5	299.2	62.14	35-112

Data File: /chem1/nt6.i/20100817.b/08171014.D
Date : 17-AUG-2010 17:20
Client ID: PSB10-8.5-10-073010
Sample Info: RG78J
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78 : 66959



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171016.D
Lab Smp Id: RG78JMS Client Smp ID: PSB10-8.5-10-07 MS
Inj Date : 17-AUG-2010 18:27
Operator : JZ Inst ID: nt6.i
Smp Info : RG78JMS
Misc Info : 10-18442
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:40 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 16 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.00000	Weight of sample extracted (g)
M	11.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.008	9.013	(1.000)	571458	20.0000	
28 Naphthalene	128	9.040	9.045	(1.004)	358162	11.0892	215.1
32 2-Methylnaphthalene	141	10.167	10.167	(1.129)	221698	12.5074	242.6
105 1-methylnaphthalene	141	10.332	10.332	(1.147)	225318	12.3064	238.7
$ 36 2-Fluorobiphenyl	172	10.824	10.824	(0.913)	336095	14.9535	290.0
40 Acenaphthylene	152	11.593	11.598	(0.978)	437218	13.2320	256.6
* 42 Acenaphthene-d10	164	11.849	11.849	(1.000)	321060	20.0000	
44 Acenaphthene	153	11.897	11.897	(1.004)	263683	12.7786	247.8
46 Dibenzofuran	168	12.159	12.164	(1.026)	396262	14.4575	280.4
49 Fluorene	166	12.709	12.714	(1.073)	329491	14.1099	273.6
* 59 Phenanthrene-d10	188	14.189	14.194	(1.000)	523652	20.0000	
60 Phenanthrene	178	14.226	14.226	(1.003)	461255	14.1807	275.0
61 Anthracene	178	14.295	14.301	(1.008)	447390	13.3145	258.2
64 Fluoranthene	202	16.138	16.138	(1.137)	540929	15.3477	297.7
65 Pyrene	202	16.480	16.480	(0.893)	551990	14.1616	274.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 66 Terphenyl-d14	244	16.843	16.843	(0.912)	356288	15.5404	301.4
68 Benzo(a)anthracene	228	18.435	18.435	(0.999)	528483	14.1259	274.0
* 69 Chrysene-d12	240	18.461	18.456	(1.000)	647186	20.0000	
71 Chrysene	228	18.499	18.499	(1.002)	480311	13.7156	266.0
187 Total Benzofluoranthenes	252	20.106	20.107	(0.976)	1110816	24.5324	475.8
76 Benzo(a)pyrene	252	20.512	20.507	(0.996)	462961	10.4404	202.5(R)
* 77 Perylene-d12	264	20.592	20.587	(1.000)	703203	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.938	21.939	(1.065)	596924	10.0625	195.2
79 Dibenzo(a,h)anthracene	278	21.970	21.971	(1.067)	451483	9.90416	192.1
80 Benzo(g,h,i)perylene	276	22.232	22.232	(1.080)	519194	9.70242	188.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171016.D
Lab Smp Id: RG78JMS
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-8.5-10-07
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	571458	-2.17
42 Acenaphthene-d10	320442	160221	640884	321060	0.19
59 Phenanthrene-d10	503793	251896	1007586	523652	3.94
69 Chrysene-d12	532343	266172	1064686	647186	21.57
77 Perylene-d12	517269	258634	1034538	703203	35.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	0.00
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: FSI
Sample Matrix: SOLID
Lab Smp Id: RG78JMS
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Client SDG: RG78
Fraction: SV
Client Smp ID: PSB10-8.5-10-07 MS
Operator: JZ
SampleType: MS
Quant Type: ISTD

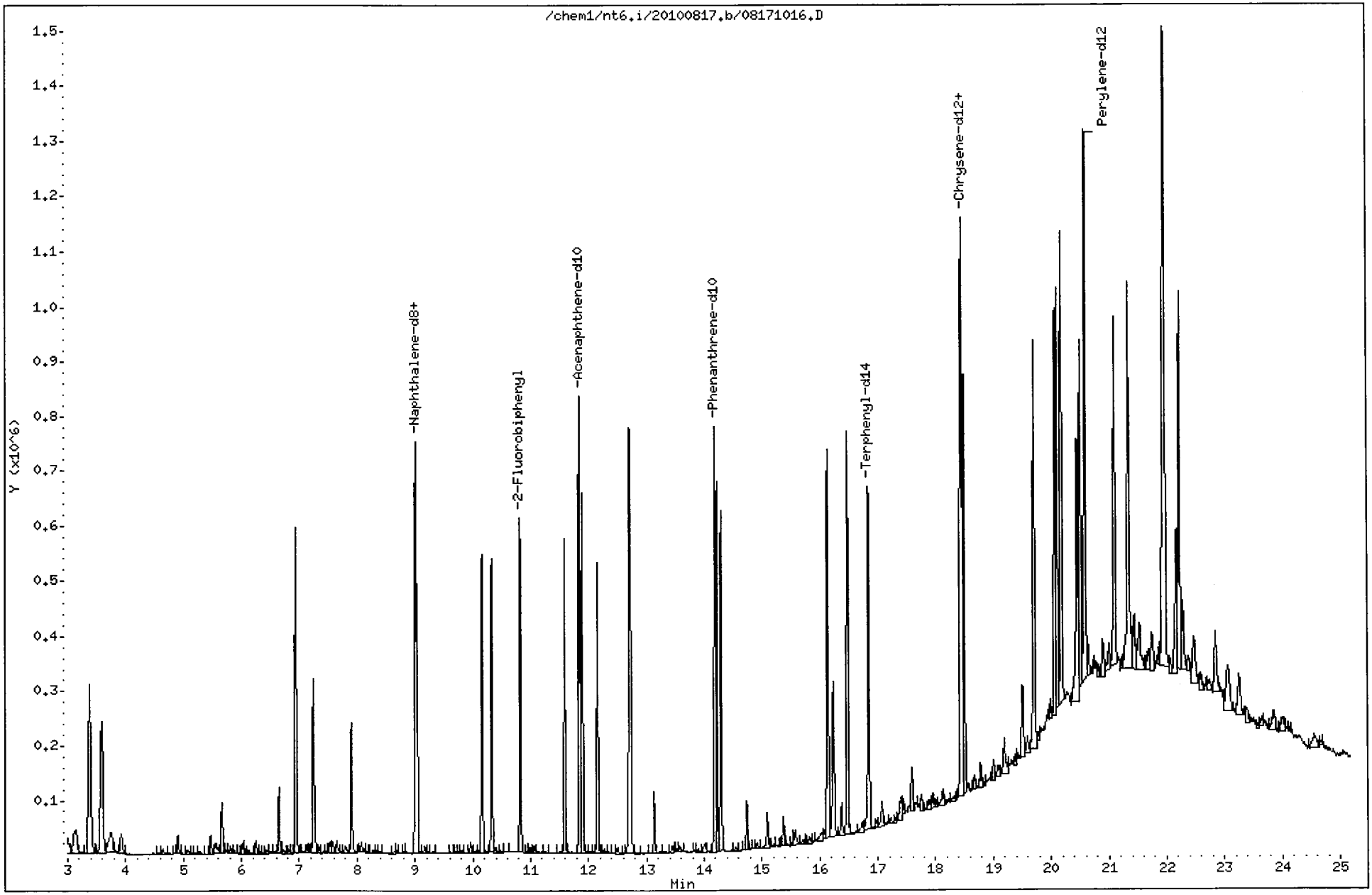
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	484.9	215.1	44.36	37-100
32 2-Methylnaphthalen	484.9	242.6	50.03	43-101
105 1-methylnaphthalen	484.9	238.7	49.23	39-100
40 Acenaphthylene	484.9	256.6	52.93	44-100
44 Acenaphthene	484.9	247.8	51.11	41-100
46 Dibenzofuran	484.9	280.4	57.83	44-100
49 Fluorene	484.9	273.6	56.44	49-100
60 Phenanthrene	484.9	275.0	56.72	48-100
61 Anthracene	484.9	258.2	53.26	50-100
64 Fluoranthene	484.9	297.7	61.39	54-100
65 Pyrene	484.9	274.7	56.65	41-105
68 Benzo(a)anthracene	484.9	274.0	56.50	49-100
71 Chrysene	484.9	266.0	54.86	50-100
187 Total Benzofluoran	969.7	475.8	49.06	30-160
76 Benzo(a)pyrene	484.9	202.5	41.76*	50-100
78 Indeno(1,2,3-cd)py	484.9	195.2	40.25	33-101
79 Dibenzo(a,h)anthra	484.9	192.1	39.62	37-104
80 Benzo(g,h,i)peryle	484.9	188.2	38.81	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	484.9	290.0	59.81	34-100
$ 66 Terphenyl-d14	484.9	301.4	62.16	35-112

Data File: /chem1/nt6.i/20100817.b/08171016.D
Date : 17-AUG-2010 18:27
Client ID: PSB10-8.5-10-07 MS
Sample Info: RG78JMS
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78JMS



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171017.D
Lab Smp Id: RG78JMSD Client Smp ID: PSB10-8.5-10-07 MSD
Inj Date : 17-AUG-2010 19:00
Operator : JZ Inst ID: nt6.i
Smp Info : RG78JMSD
Misc Info : 10-18442
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:40 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

D 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.70000	Weight of sample extracted (g)
M	11.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.007	9.013	(1.000)	596947	20.0000	
28 Naphthalene	128	9.039	9.045	(1.004)	379405	11.2453	213.0
32 2-Methylnaphthalene	141	10.166	10.167	(1.129)	242916	13.1193	248.4
105 1-methylnaphthalene	141	10.331	10.332	(1.147)	245146	12.8176	242.7
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.913)	362421	15.3668	291.0
40 Acenaphthylene	152	11.592	11.598	(0.978)	496888	14.3310	271.4
* 42 Acenaphthene-d10	164	11.848	11.849	(1.000)	336897	20.0000	
44 Acenaphthene	153	11.896	11.897	(1.004)	298591	13.7901	261.1
46 Dibenzofuran	168	12.158	12.164	(1.026)	455147	15.8253	299.7
49 Fluorene	166	12.708	12.714	(1.073)	378691	15.4544	292.7
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	547711	20.0000	
60 Phenanthrene	178	14.225	14.226	(1.003)	537327	15.7938	299.1
61 Anthracene	178	14.295	14.301	(1.008)	532426	15.1492	286.9
64 Fluoranthene	202	16.137	16.138	(1.137)	651641	17.6767	334.7
65 Pyrene	202	16.479	16.480	(0.893)	664717	15.7220	297.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.842	16.843	(0.912)	450616	18.1198	343.1
	68 Benzo(a)anthracene	228	18.439	18.435	(0.999)	714202	17.5993	333.3
*	69 Chrysene-d12	240	18.461	18.456	(1.000)	702006	20.0000	
	71 Chrysene	228	18.498	18.499	(1.002)	661278	17.4086	329.7
	187 Total Benzofluoranthenes	252	20.111	20.107	(0.976)	1582412	32.3219	612.1
	76 Benzo(a)pyrene	252	20.517	20.507	(0.996)	684994	14.2869	270.6
*	77 Perylene-d12	264	20.602	20.587	(1.000)	760326	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.948	21.939	(1.065)	990137	15.4370	292.3
	79 Dibenzo(a,h)anthracene	278	21.975	21.971	(1.067)	779859	15.8224	299.6
	80 Benzo(g,h,i)perylene	276	22.237	22.232	(1.079)	801927	13.8601	262.5

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171017.D
Lab Smp Id: RG78JMSD
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-8.5-10-07
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	596947	2.19
42 Acenaphthene-d10	320442	160221	640884	336897	5.14
59 Phenanthrene-d10	503793	251896	1007586	547711	8.72
69 Chrysene-d12	532343	266172	1064686	702006	31.87
77 Perylene-d12	517269	258634	1034538	760326	46.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.07
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.01
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.02
77 Perylene-d12	20.59	20.09	21.09	20.60	0.07

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: FSI
Sample Matrix: SOLID
Lab Smp Id: RG78JMSD
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18442

Client SDG: RG78
Fraction: SV
Client Smp ID: PSB10-8.5-10-07 MSD
Operator: JZ
SampleType: MSD
Quant Type: ISTD

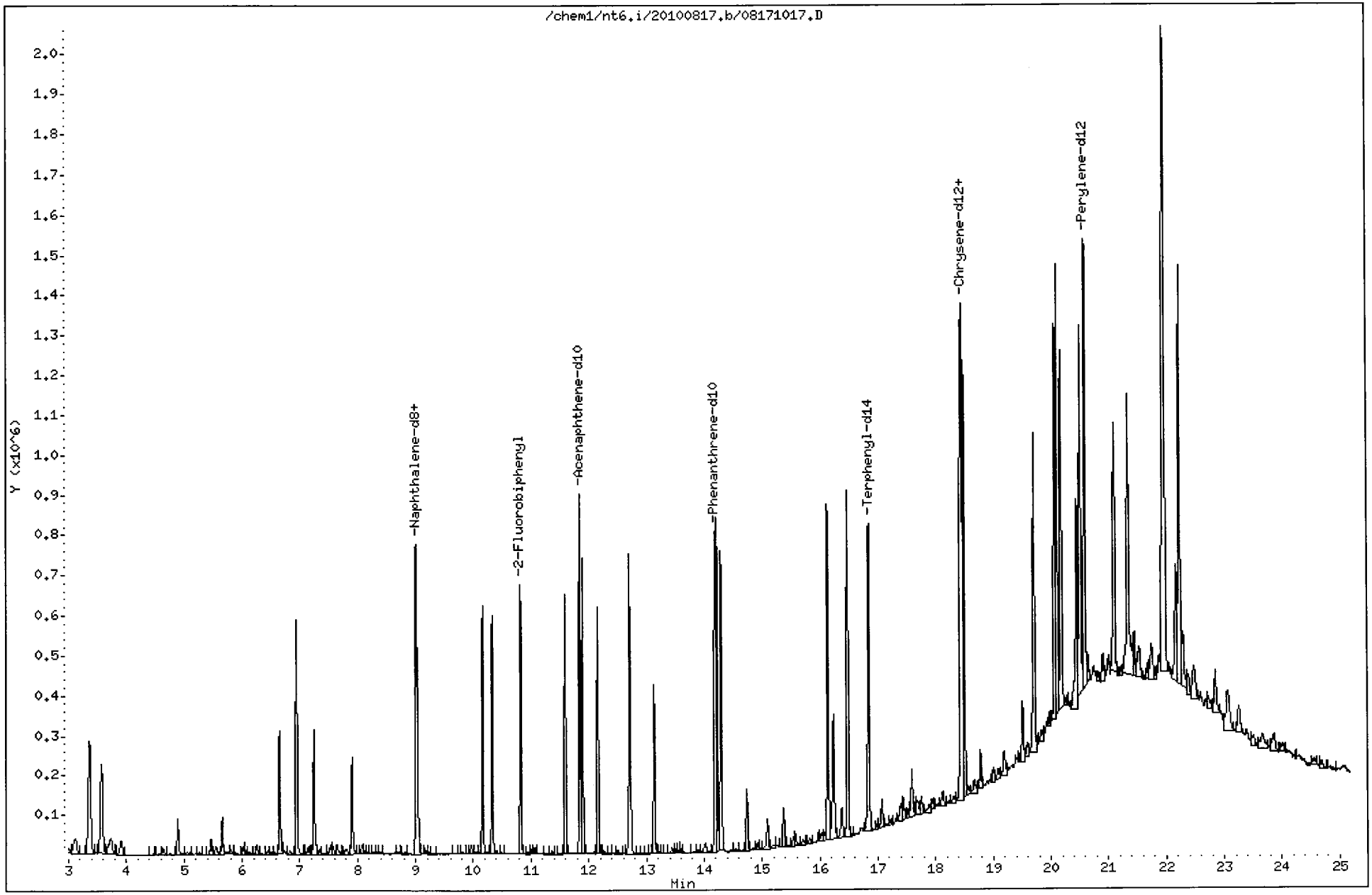
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	473.4	213.0	44.98	37-100
32 2-Methylnaphthalen	473.4	248.4	52.48	43-101
105 1-methylnaphthalen	473.4	242.7	51.27	39-100
40 Acenaphthylene	473.4	271.4	57.32	44-100
44 Acenaphthene	473.4	261.1	55.16	41-100
46 Dibenzofuran	473.4	299.7	63.30	44-100
49 Fluorene	473.4	292.7	61.82	49-100
60 Phenanthrene	473.4	299.1	63.18	48-100
61 Anthracene	473.4	286.9	60.60	50-100
64 Fluoranthene	473.4	334.7	70.71	54-100
65 Pyrene	473.4	297.7	62.89	41-105
68 Benzo(a)anthracene	473.4	333.3	70.40	49-100
71 Chrysene	473.4	329.7	69.63	50-100
187 Total Benzofluoran	946.9	612.1	64.64	30-160
76 Benzo(a)pyrene	473.4	270.6	57.15	50-100
78 Indeno(1,2,3-cd)py	473.4	292.3	61.75	33-101
79 Dibenzo(a,h)anthra	473.4	299.6	63.29	37-104
80 Benzo(g,h,i)peryle	473.4	262.5	55.44	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	473.4	291.0	61.47	34-100
$ 66 Terphenyl-d14	473.4	343.1	72.48	35-112

Data File: /chem1/nt6.i/20100817.b/08171017.D
Date : 17-AUG-2010 19:00
Client ID: PSB10-8.5-10-07 MSD
Sample Info: RG78JMSD
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:66863



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171020.D
Lab Smp Id: RG78L Client Smp ID: PSB10-20-25-073010
Inj Date : 17-AUG-2010 20:38
Operator : JZ Inst ID: nt6.i
Smp Info : RG78L
Misc Info : 10-18444
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	32.70000	Weight of sample extracted (g)
M	20.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.007	9.013	(1.000)	603096	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.823	10.824	(0.913)	284510	11.6834	223.9
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.848	11.849	(1.000)	347854	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.188	14.194	(1.000)	551394	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.842	16.843	(0.913)	453779	18.3174	351.0
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.455	18.456	(1.000)	699310	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.592	20.587	(1.000)	720836	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171020.D
Lab Smp Id: RG78L
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18444

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB10-20-25-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	603096	3.25
42 Acenaphthene-d10	320442	160221	640884	347854	8.55
59 Phenanthrene-d10	503793	251896	1007586	551394	9.45
69 Chrysene-d12	532343	266172	1064686	699310	31.36
77 Perylene-d12	517269	258634	1034538	720836	39.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.07
42 Acenaphthene-d10	11.85	11.35	12.35	11.85	-0.01
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.46	0.00
77 Perylene-d12	20.59	20.09	21.09	20.59	0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

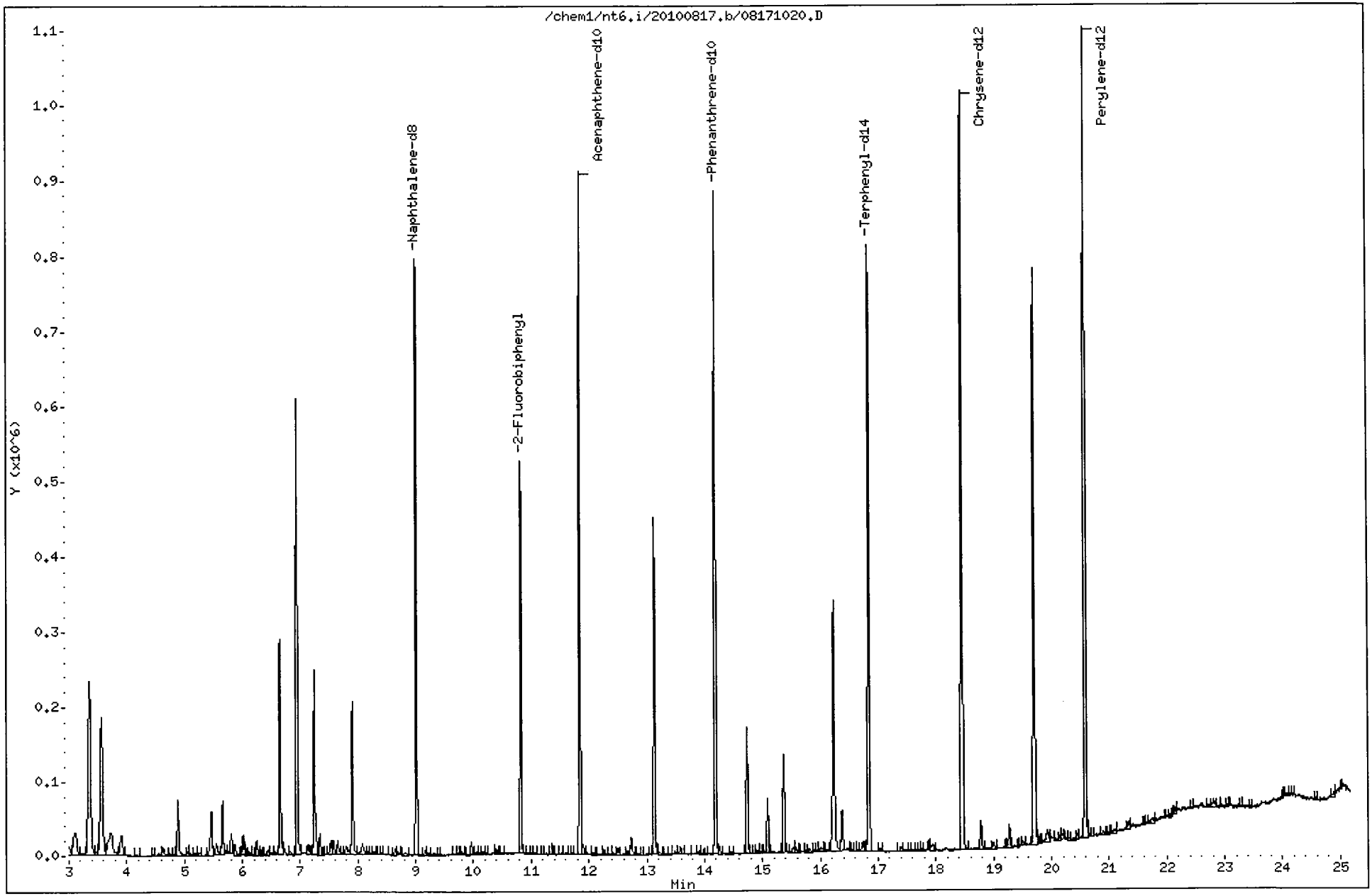
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78L
Client Smp ID: PSB10-20-25-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18444

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	479.0	223.9	46.73	34-100
$ 66 Terphenyl-d14	479.0	351.0	73.27	35-112

Data File: /chem1/nt6.i/20100817.b/08171020.D
Date : 17-AUG-2010 20:38
Client ID: PSB10-20-25-073010
Sample Info: RG78L
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78 : 08171



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100817.b/08171021.D
Lab Smp Id: RG78S Client Smp ID: PSB9-8.5-9.5-073010
Inj Date : 17-AUG-2010 21:11
Operator : JZ Inst ID: nt6.i
Smp Info : RG78S
Misc Info : 10-18451
Comment : 1ul Injection
Method : /chem1/nt6.i/20100817.b/SW846072310.m
Meth Date : 18-Aug-2010 12:44 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

IZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	28.60000	Weight of sample extracted (g)
M	8.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.008	9.013	(1.000)	603766	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.824	10.824	(0.914)	291264	11.8058	226.6
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.844	11.849	(1.000)	352420	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.189	14.194	(1.000)	561483	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.843	16.843	(0.913)	377060	15.1587	290.9
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.451	18.456	(1.000)	702160	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.593	20.587	(1.000)	701047	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08171021.D
Lab Smp Id: RG78S
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18451

Calibration Date: 17-AUG-2010
Calibration Time: 10:03
Client Smp ID: PSB9-8.5-9.5-073
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	603766	3.36
42 Acenaphthene-d10	320442	160221	640884	352420	9.98
59 Phenanthrene-d10	503793	251896	1007586	561483	11.45
69 Chrysene-d12	532343	266172	1064686	702160	31.90
77 Perylene-d12	517269	258634	1034538	701047	35.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.01	8.51	9.51	9.01	-0.06
42 Acenaphthene-d10	11.85	11.35	12.35	11.84	-0.05
59 Phenanthrene-d10	14.19	13.69	14.69	14.19	-0.04
69 Chrysene-d12	18.46	17.96	18.96	18.45	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

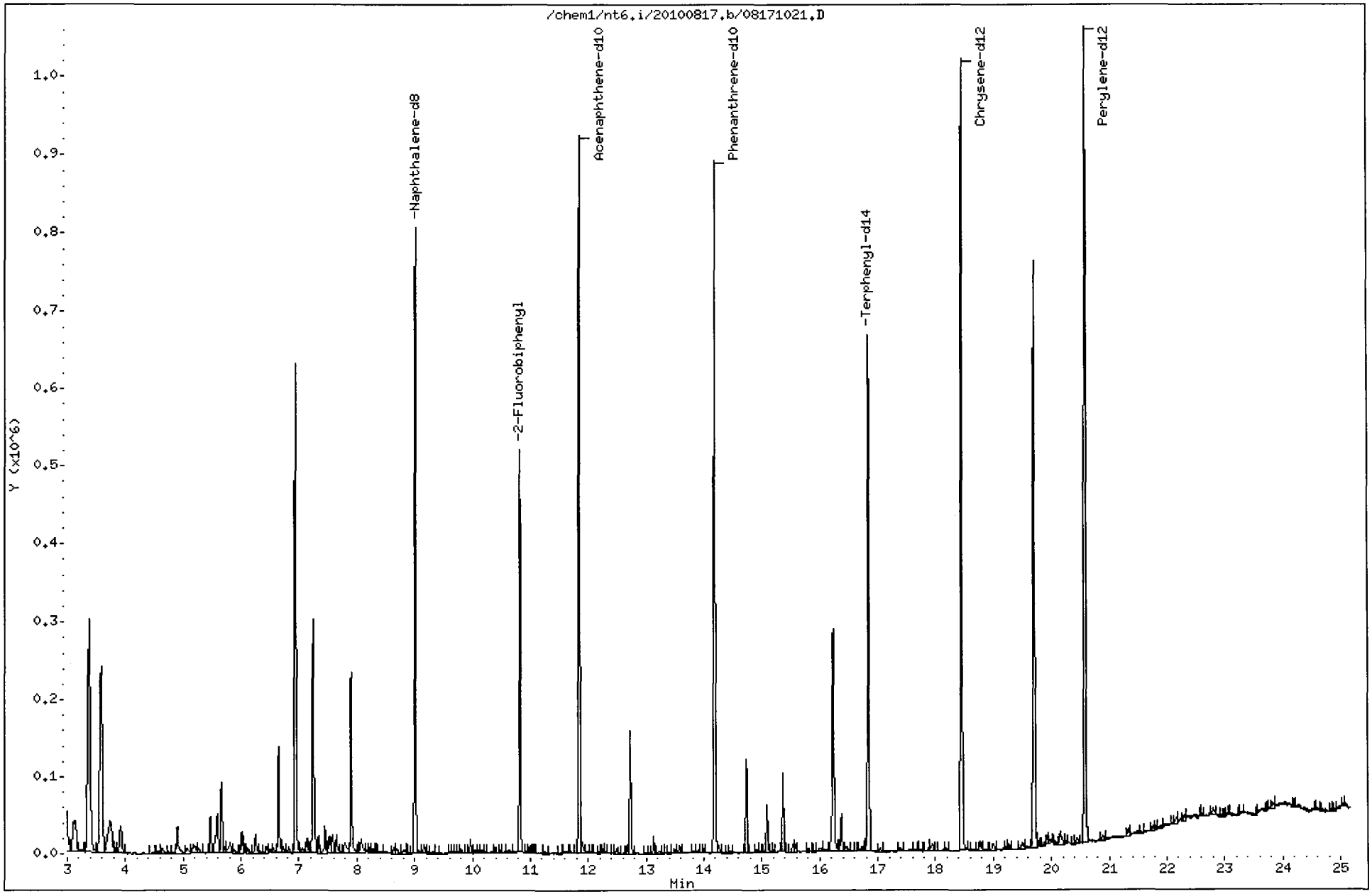
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78S
Client Smp ID: PSB9-8.5-9.5-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100817.b/SW846072310.m
Misc Info: 10-18451

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	479.8	226.6	47.22	34-100
$ 66 Terphenyl-d14	479.8	290.9	60.63	35-112

Data File: /chem1/nt6.i/20100817.b/08171021.D
Date : 17-AUG-2010 21:11
Client ID: PSB9-8.5-9.5-073010
Sample Info: RG78S
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:08879



Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/18/10 Analysis: 8270 Analyst: AB

GC Program: ABN_UW Column No: 172127 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 100629 EM Voltage: 1553

Calibration File: 08180001 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1747-3, 1733-1	
	1734-1, 1736-1	
	1501A, 1753-5	
	1750-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

	Time	Filename	LabID	ClientId	DF											
1	1223	08181001.D	CC0818	CC0818	1	6.88	172311	8.94	546358	11.77	307752	14.11	488731	18.37	578337	20.50	580924	19.63	693606
2	1302	08181002.D	RG94MBW1	RG94MBW1	1	8.94	599179	11.77	359581	14.11	575665	18.36	636315	20.49	607941				
3	1334	08181003.D	RG94LCSW1	RG94LCSW1	1	8.94	601952	11.77	348479	14.11	573375	18.36	616150	20.49	584320				
4	1407	08181004.D	RG94LCSDW1	RG94LCSDW1	1	8.94	596145	11.77	341816	14.11	564252	18.37	616413	20.49	586055				
5	1440	08181005.D	RG94K	MW12-ER-0802	1	8.93	583098	11.77	347883	14.11	557256	18.36	625212	20.49	593383				
6	1513	08181006.D	RG78F	PSB10-0-0.5- 5X	5	8.94	526934	11.77	319472	14.11	516243	18.36	700835	20.50	765105				
7	1545	08181007.D	RG78K	PSB10-14-15-	1	8.94	528564	11.77	316621	14.11	514126	18.36	606545	20.50	627072				
8	1618	08181008.D	RG78E	PSB9A-0-0.5- conf AR	3	8.94	548259	11.77	328205	14.11	527600	18.36	652872	20.50	675677				

AB 08/18/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

ARI Job No.: CC08 Method: SW846072310.m Instrument: nt6.i Date: 18-AUG-2010

AB 08/18/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	08181001.D	CC0818	CC0818	1	NO MANUAL INTEGRATION
1513	08181006.D	RG78F	PSB10-0-0.	5	NO MANUAL INTEGRATION
1545	08181007.D	RG78K	PSB10-14-1	1	NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

Instrument: nt6.i Date: 18-AUG-2010 Method: SW846072310.m

INITIAL CAL: 23-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

DR 08/18/10

CONTINUING CAL: 18-AUG-2010

Compound	%D
4-Nitrophenol	-21.1

NTC

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08181001.D
Analysis Type:
Lab Sample ID: CC0818
Method: /chem1/nt6.i/20100818.b/SW846072310.m

Injection Date: 18-AUG-2010 12:23
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

DB 08/18/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.32873	1.34555	1.34555	0.010	1.26551	20.00000	Averaged
$ 2 Phenol-d5	1.53477	1.48000	1.48000	0.010	-3.56874	20.00000	Averaged
3 Phenol	1.70453	1.70917	1.70917	0.010	0.27276	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.29631	1.26309	1.26309	0.010	-2.56225	20.00000	Averaged
4 Bis(2-Chloroethyl)ether	1.30667	1.27270	1.27270	0.010	-2.60040	20.00000	Averaged
6 2-Chlorophenol	1.47378	1.45243	1.45243	0.010	-1.44881	20.00000	Averaged
7 1,3-Dichlorobenzene	1.71678	1.69715	1.69715	0.010	-1.14378	20.00000	Averaged
9 1,4-Dichlorobenzene	1.68189	1.69611	1.69611	0.010	0.84518	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.89939	0.91257	0.91257	0.010	1.46563	20.00000	Averaged
12 1,2-Dichlorobenzene	1.56400	1.60639	1.60639	0.010	2.70986	20.00000	Averaged
11 Benzyl alcohol	0.80695	0.82061	0.82061	0.010	1.69247	20.00000	Averaged
14 2,2'-oxybis(1-Chloropropane	1.39331	1.51756	1.51756	0.010	8.91752	20.00000	Averaged
13 2-Methylphenol	1.27111	1.26627	1.26627	0.010	-0.38026	20.00000	Averaged
17 Hexachloroethane	0.60757	0.63326	0.63326	0.010	4.22799	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	0.88368	0.87675	0.87675	0.005	-0.78415	20.00000	Averaged
15 4-Methylphenol	1.25486	1.30385	1.30385	0.010	3.90429	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.38855	0.37478	0.37478	0.010	-3.54589	20.00000	Averaged
19 Nitrobenzene	0.43075	0.43069	0.43069	0.010	-0.01594	20.00000	Averaged
20 Isophorone	0.68600	0.69481	0.69481	0.010	1.28388	20.00000	Averaged
21 2-Nitrophenol	0.25274	0.26737	0.26737	0.010	5.78723	20.00000	Averaged
22 2,4-Dimethylphenol	0.41587	0.42088	0.42088	0.010	1.20564	20.00000	Averaged
23 Bis(2-Chloroethoxy)methane	0.47536	0.46320	0.46320	0.010	-2.55680	20.00000	Averaged
24 Benzoic acid	0.30742	0.28496	0.28496	0.010	-7.30321	20.00000	Averaged
25 2,4-Dichlorophenol	0.36413	0.39524	0.39524	0.010	8.54299	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.39778	0.41226	0.41226	0.010	3.64153	20.00000	Averaged
28 Naphthalene	1.13038	1.14892	1.14892	0.010	1.63979	20.00000	Averaged
29 4-Chloroaniline	0.45282	0.45590	0.45590	0.010	0.67974	20.00000	Averaged
30 Hexachlorobutadiene	0.23198	0.25083	0.25083	0.010	8.12775	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35105	0.35591	0.35591	0.010	1.38514	20.00000	Averaged
32 2-Methylnaphthalene	0.62036	0.61302	0.61302	0.010	-1.18223	20.00000	Averaged
33 Hexachlorocyclopentadiene	21.88844	25.00000	0.36407	0.010	-12.44623	20.00000	Linear
34 2,4,6-Trichlorophenol	0.45790	0.50721	0.50721	0.010	10.77039	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.47246	0.49237	0.49237	0.010	4.21289	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.40011	1.33205	1.33205	0.010	-4.86108	20.00000	Averaged
37 2-Chloronaphthalene	1.32938	1.34590	1.34590	0.010	1.24317	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 18-AUG-2010 12:23
Lab File ID: 08181001.D Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: Init. Cal. Times: 15:01 18:38
Lab Sample ID: CC0818 Quant Type: ISTD
Method: /chem1/nt6.i/20100818.b/SW846072310.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.33095	0.31750	0.31750	0.010	-4.06525	20.00000	Averaged	
39 Dimethylphthalate	1.50119	1.37232	1.37232	0.010	-8.58461	20.00000	Averaged	
40 Acenaphthylene	2.05833	2.04797	2.04797	0.010	-0.50350	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.35670	0.35144	0.35144	0.010	-1.47488	20.00000	Averaged	
43 3-Nitroaniline	0.31209	0.30306	0.30306	0.010	-2.89401	20.00000	Averaged	
44 Acenaphthene	1.28541	1.24385	1.24385	0.010	-3.23348	20.00000	Averaged	
45 2,4-Dinitrophenol	40.97460	50.00000	0.24020	0.010	-18.05080	20.00000	Linear	
46 Dibenzofuran	1.70738	1.65368	1.65368	0.010	-3.14546	20.00000	Averaged	
47 4-Nitrophenol	0.18552	0.14645	0.14645	0.010	-21.05786	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.45944	0.44508	0.44508	0.010	-3.12720	20.00000	Averaged	
50 Diethylphthalate	1.39533	1.28470	1.28470	0.010	-7.92915	20.00000	Averaged	
49 Fluorene	1.45467	1.44466	1.44466	0.010	-0.68819	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.71936	0.70896	0.70896	0.010	-1.44594	20.00000	Averaged	
52 4-Nitroaniline	0.34745	0.31943	0.31943	0.010	-8.06287	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.19806	0.20409	0.20409	0.010	3.04626	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.68493	0.65356	0.65356	0.010	-4.57900	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.18223	0.23065	0.23065	0.010	26.56843	20.00000	Averaged	<-
56 4-Bromophenyl-phenylether	0.29331	0.31736	0.31736	0.010	8.20120	20.00000	Averaged	
57 Hexachlorobenzene	0.30899	0.35126	0.35126	0.010	13.68236	20.00000	Averaged	
58 Pentachlorophenol	0.18262	0.20496	0.20496	0.010	12.23051	20.00000	Averaged	
60 Phenanthrene	1.24231	1.22811	1.22811	0.010	-1.14350	20.00000	Averaged	
61 Anthracene	1.28336	1.29752	1.29752	0.010	1.10369	20.00000	Averaged	
62 Carbazole	1.19107	1.17227	1.17227	0.010	-1.57823	20.00000	Averaged	
63 Di-n-butylphthalate	1.45976	1.47306	1.47306	0.010	0.91125	20.00000	Averaged	
64 Fluoranthene	1.34612	1.46526	1.46526	0.010	8.85065	20.00000	Averaged	
65 Pyrene	1.20453	1.22491	1.22491	0.010	1.69175	20.00000	Averaged	
$ 66 Terphenyl-d14	0.70850	0.73302	0.73302	0.010	3.46010	20.00000	Averaged	
67 Butylbenzylphthalate	0.58237	0.56823	0.56823	0.010	-2.42843	20.00000	Averaged	
68 Benzo(a)anthracene	1.15615	1.20910	1.20910	0.010	4.58005	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37517	0.42919	0.42919	0.010	14.39861	20.00000	Averaged	
71 Chrysene	1.08220	1.12959	1.12959	0.010	4.37839	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.63407	0.64730	0.64730	0.010	2.08753	20.00000	Averaged	
73 Di-n-octylphthalate	1.08410	1.08285	1.08285	0.010	-0.11586	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.33887	1.38999	1.38999	0.010	3.81751	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.38193	1.34627	1.34627	0.010	-2.58020	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 18-AUG-2010 12:23
Lab File ID: 08181001.D Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: Init. Cal. Times: 15:01 18:38
Lab Sample ID: CC0818 Quant Type: ISTD
Method: /chem1/nt6.i/20100818.b/SW846072310.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.28781	1.28178	1.28178	0.010	-0.46804	20.00000	Averaged
76 Benzo(a)pyrene	1.26119	1.26131	1.26131	0.010	0.00993	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.68718	1.75802	1.75802	0.010	4.19844	20.00000	Averaged
79 Dibenzo(a,h)anthracene	1.29650	1.37392	1.37392	0.010	5.97142	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.52194	1.56382	1.56382	0.010	2.75144	20.00000	Averaged
90 N-Nitrosodimethylamine	0.86213	0.88254	0.88254	0.010	2.36747	20.00000	Averaged
103 Pyridine	1.54116	1.60272	1.60272	0.010	3.99414	20.00000	Averaged
91 Aniline	1.95218	1.81743	1.81743	0.010	-6.90256	20.00000	Averaged
105 1-methylnaphthalene	0.64079	0.65810	0.65810	0.010	2.70145	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181001.D
Lab Smp Id: CC0818 Client Smp ID: CC0818
Inj Date : 18-AUG-2010 12:23
Operator : JZ Inst ID: nt6.i
Smp Info : CC0818
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:19 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

08/18/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.831	4.831	(0.702)	289815	25.0000	25.32
$	2 Phenol-d5	99	6.566	6.566	(0.954)	318775	25.0000	24.11
	3 Phenol	94	6.582	6.582	(0.957)	368137	25.0000	25.07
$	5 2-Chlorophenol-d4	132	6.588	6.588	(0.957)	272056	25.0000	24.36
	4 Bis(2-Chloroethyl)ether	93	6.588	6.588	(0.957)	274124	25.0000	24.35
	6 2-Chlorophenol	128	6.614	6.614	(0.961)	312836	25.0000	24.64
	7 1,3-Dichlorobenzene	146	6.807	6.807	(0.989)	365546	25.0000	24.71
*	8 1,4-Dichlorobenzene-d4	152	6.881	6.881	(1.000)	172311	20.0000	
	9 1,4-Dichlorobenzene	146	6.908	6.908	(1.004)	365322	25.0000	25.21
$	10 1,2-Dichlorobenzene-d4	152	7.181	7.181	(1.043)	196557	25.0000	25.37
	12 1,2-Dichlorobenzene	146	7.202	7.202	(1.047)	345997	25.0000	25.68
	11 Benzyl alcohol	108	7.223	7.223	(1.050)	176749	25.0000	25.42
	14 2,2'-oxybis(1-Chloropropane)	45	7.485	7.485	(1.088)	326866	25.0000	27.23
	13 2-Methylphenol	108	7.517	7.517	(1.092)	272741	25.0000	24.90
	17 Hexachloroethane	117	7.688	7.688	(1.117)	136396	25.0000	26.06
	16 N-Nitroso-di-n-propylamine	70	7.709	7.709	(1.120)	188842	25.0000	24.80
	15 4-Methylphenol	108	7.763	7.763	(1.128)	280835	25.0000	25.98
$	18 Nitrobenzene-d5	82	7.843	7.843	(0.877)	255951	25.0000	24.11
	19 Nitrobenzene	77	7.870	7.870	(0.880)	294135	25.0000	25.00
	20 Isophorone	82	8.265	8.265	(0.924)	474519	25.0000	25.32
	21 2-Nitrophenol	139	8.393	8.393	(0.938)	182597	25.0000	26.45
	22 2,4-Dimethylphenol	107	8.580	8.580	(0.959)	287439	25.0000	25.30
	23 Bis(2-Chloroethoxy)methane	93	8.703	8.703	(0.973)	316342	25.0000	24.36
	24 Benzoic acid	105	8.911	8.911	(0.996)	389231	50.0000	46.35
	25 2,4-Dichlorophenol	162	8.804	8.804	(0.984)	269926	25.0000	27.14
	26 1,2,4-Trichlorobenzene	180	8.900	8.900	(0.995)	281554	25.0000	25.91
*	27 Naphthalene-d8	136	8.943	8.943	(1.000)	546358	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	8.975	8.975	(1.004)	784649	25.0000	25.41
	29 4-Chloroaniline	127	9.157	9.157	(1.024)	311355	25.0000	25.17
	30 Hexachlorobutadiene	225	9.312	9.312	(1.041)	171306	25.0000	27.03
	31 4-Chloro-3-methylphenol	107	10.027	10.027	(1.121)	243070	25.0000	25.35
	32 2-Methylnaphthalene	141	10.097	10.097	(1.129)	418661	25.0000	24.70
	33 Hexachlorocyclopentadiene	237	10.476	10.476	(0.890)	140053	25.0000	21.89
	34 2,4,6-Trichlorophenol	196	10.636	10.636	(0.903)	195120	25.0000	27.69
	35 2,4,5-Trichlorophenol	196	10.700	10.700	(0.909)	189409	25.0000	26.05
$	36 2-Fluorobiphenyl	172	10.759	10.759	(0.914)	512427	25.0000	23.78
	37 2-Chloronaphthalene	162	10.861	10.861	(0.922)	517757	25.0000	25.31
	38 2-Nitroaniline	65	11.128	11.128	(0.945)	122137	25.0000	23.98
	39 Dimethylphthalate	163	11.523	11.523	(0.979)	527918	25.0000	22.85
	40 Acenaphthylene	152	11.523	11.523	(0.979)	787835	25.0000	24.87
	41 2,6-Dinitrotoluene	165	11.603	11.603	(0.985)	135194	25.0000	24.63
*	42 Acenaphthene-d10	164	11.774	11.774	(1.000)	307752	20.0000	
	43 3-Nitroaniline	138	11.806	11.806	(1.003)	116583	25.0000	24.28
	44 Acenaphthene	153	11.827	11.827	(1.005)	478496	25.0000	24.19
	45 2,4-Dinitrophenol	184	11.977	11.977	(1.017)	184807	50.0000	40.97
	46 Dibenzofuran	168	12.089	12.089	(1.027)	636155	25.0000	24.21
	47 4-Nitrophenol	109	12.196	12.196	(1.036)	56339	25.0000	19.74
	48 2,4-Dinitrotoluene	165	12.223	12.223	(1.038)	171216	25.0000	24.22
	50 Diethylphthalate	149	12.671	12.671	(1.076)	494210	25.0000	23.02
	49 Fluorene	166	12.639	12.639	(1.073)	555747	25.0000	24.83
	51 4-Chlorophenyl-phenylether	204	12.693	12.693	(1.078)	272731	25.0000	24.64
	52 4-Nitroaniline	138	12.794	12.794	(1.087)	122883	25.0000	22.98
	53 4,6-Dinitro-2-methylphenol	198	12.869	12.869	(0.912)	249367	50.0000	51.52
	54 N-Nitrosodiphenylamine	169	12.912	12.912	(0.915)	399271	25.0000	23.86
$	55 2,4,6-Tribromophenol	330	13.061	13.061	(1.109)	88728	25.0000	31.64
	56 4-Bromophenyl-phenylether	248	13.456	13.456	(0.953)	193880	25.0000	27.05
	57 Hexachlorobenzene	284	13.649	13.649	(0.967)	214591	25.0000	28.42
	58 Pentachlorophenol	266	13.969	13.969	(0.990)	125210	25.0000	28.06
*	59 Phenanthrene-d10	188	14.113	14.113	(1.000)	488731	20.0000	
	60 Phenanthrene	178	14.151	14.151	(1.003)	750268	25.0000	24.71
	61 Anthracene	178	14.220	14.220	(1.008)	792674	25.0000	25.28
	62 Carbazole	167	14.530	14.530	(1.030)	716158	25.0000	24.61
	63 Di-n-butylphthalate	149	15.299	15.299	(1.084)	899914	25.0000	25.23
	64 Fluoranthene	202	16.057	16.057	(1.138)	895151	25.0000	27.21
	65 Pyrene	202	16.394	16.394	(0.892)	885516	25.0000	25.42
$	66 Terphenyl-d14	244	16.762	16.762	(0.912)	529915	25.0000	25.87
	67 Butylbenzylphthalate	149	17.676	17.676	(0.962)	410783	25.0000	24.39
	68 Benzo(a)anthracene	228	18.349	18.349	(0.999)	874088	25.0000	26.15
*	69 Chrysene-d12	240	18.370	18.370	(1.000)	578337	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.397	18.397	(1.001)	310273	25.0000	28.60
	71 Chrysene	228	18.413	18.413	(1.002)	816603	25.0000	26.09
	72 bis(2-Ethylhexyl)phthalate	149	18.696	18.696	(0.953)	561217	25.0000	25.52
*	134 Di-n-octylphthalate-d4	153	19.625	19.625	(1.000)	693606	20.0000	
	73 Di-n-octylphthalate	149	19.636	19.636	(1.001)	938838	25.0000	24.97

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	19.983	19.983	(0.975)	1009346	25.0000	25.95
75	Benzo(k)fluoranthene	252	20.015	20.015	(0.977)	977604	25.0000	24.35
187	Total Benzofluoranthenes	252	20.015	20.015	(0.977)	1861549	50.0000	49.77
76	Benzo(a)pyrene	252	20.416	20.416	(0.996)	915907	25.0000	25.00
* 77	Perylene-d12	264	20.496	20.496	(1.000)	580924	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.842	21.842	(1.066)	1276596	25.0000	26.05
79	Dibenzo(a,h)anthracene	278	21.874	21.874	(1.067)	997682	25.0000	26.49
80	Benzo(g,h,i)perylene	276	22.136	22.136	(1.080)	1135577	25.0000	25.69
90	N-Nitrosodimethylamine	74	1.978	1.978	(0.287)	190089	25.0000	25.59
103	Pyridine	79	1.957	1.957	(0.284)	345208	25.0000	26.00
91	Aniline	93	6.444	6.444	(0.936)	391455	25.0000	23.27
105	1-methylnaphthalene	141	10.262	10.262	(1.147)	449445	25.0000	25.68

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181001.D
Lab Smp Id: CC0818
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: CC0818
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	172311	-5.73
27 Naphthalene-d8	584137	292068	1168274	546358	-6.47
42 Acenaphthene-d10	320442	160221	640884	307752	-3.96
59 Phenanthrene-d10	503793	251896	1007586	488731	-2.99
69 Chrysene-d12	532343	266172	1064686	578337	8.64
134 Di-n-octylphthala	719428	359714	1438856	693606	-3.59
77 Perylene-d12	517269	258634	1034538	580924	12.31

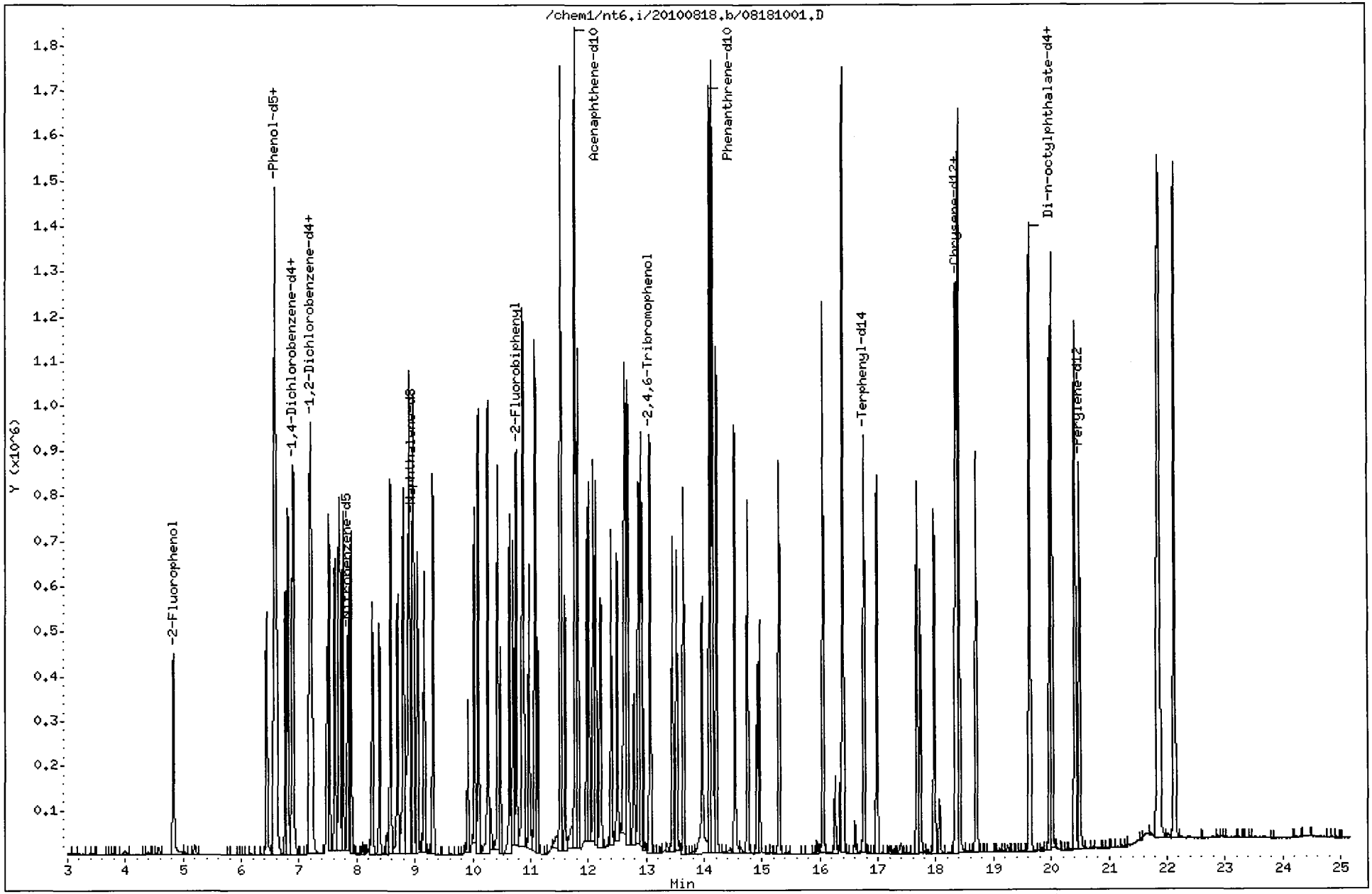
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.88	0.00
27 Naphthalene-d8	8.94	8.44	9.44	8.94	0.00
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	0.00
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
134 Di-n-octylphthala	19.63	19.13	20.13	19.63	0.00
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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

Data File: /chem1/nt6.i/20100818.b/08181001.D
Date : 18-AUG-2010 12:23
Client ID: CC0818
Sample Info: CC0818

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RG78:00890

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818

Instrument: nt6.i

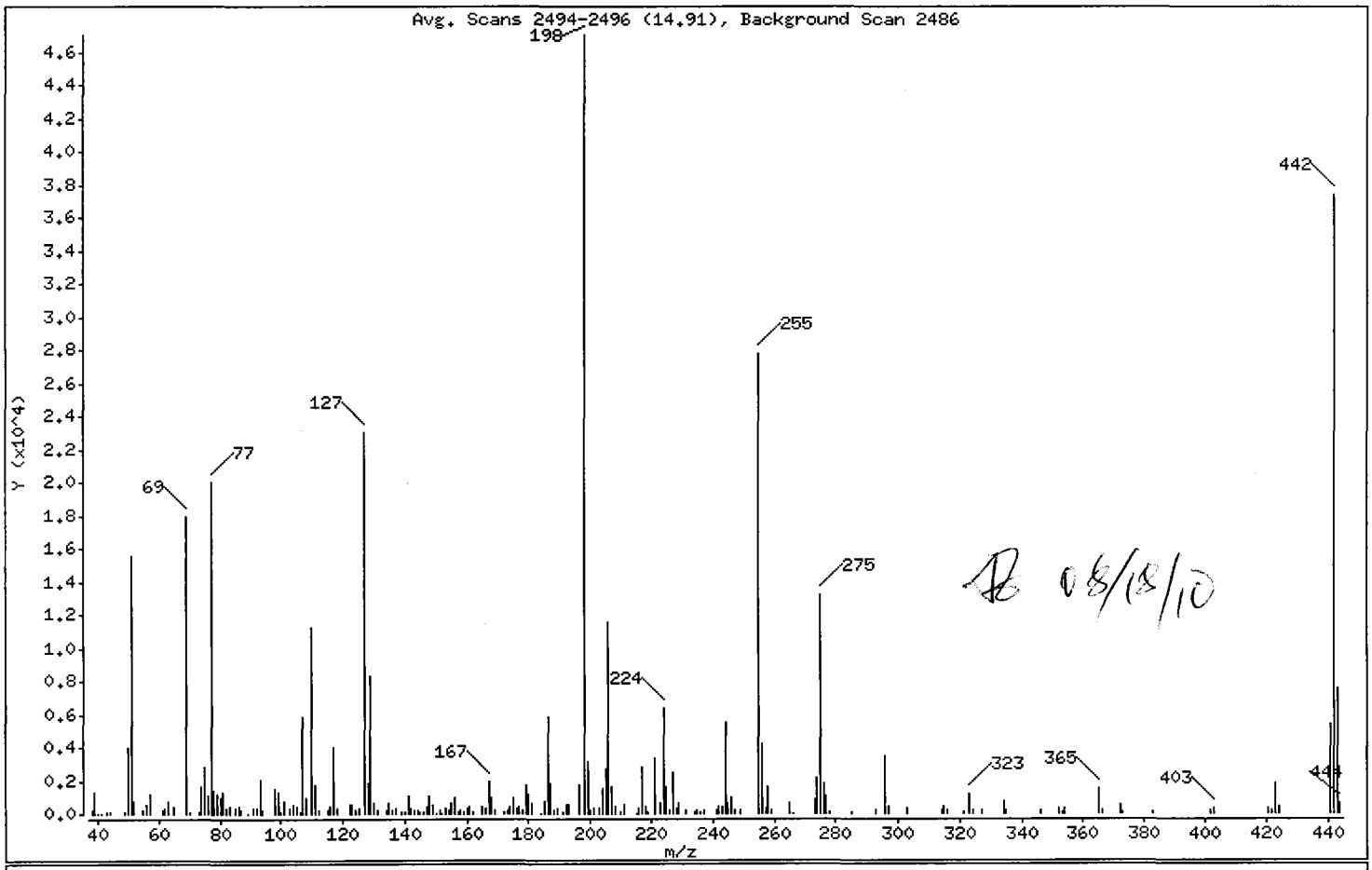
Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.25
70	Less than 2.00% of mass 69	0.12 (0.31)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 60.00% of mass 198	27.93
365	Greater than 1.00% of mass 198	3.14
441	0.01 - 24.00% of mass 442	11.50 (14.47)
442	50.00 - 200.00% of mass 198	79.48
443	15.00 - 24.00% of mass 442	16.12 (20.28)

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818 Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08181001.D
Spectrum: Avg. Scans 2494-2496 (14.91), Background Scan 2486
Location of Maximum: 198.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	253	115.00	220	177.00	419	247.00	222
39.00	1318	116.00	446	178.00	185	249.00	214
40.00	52	117.00	4051	179.00	1724	255.00	27768
41.00	7	118.00	325	180.00	1180	256.00	4218
43.00	59	122.00	551	181.00	621	257.00	374
44.00	57	123.00	565	184.00	52	258.00	1618
49.00	116	124.00	257	185.00	760	259.00	231
50.00	3997	125.00	304	186.00	5895	265.00	641
51.00	15546	127.00	23000	187.00	1806	266.00	54
52.00	809	128.00	1810	188.00	198	273.00	915
55.00	221	129.00	8286	189.00	326	274.00	2148
56.00	559	130.00	664	191.00	127	275.00	13145
57.00	1181	131.00	177	192.00	537	276.00	1807
61.00	230	134.00	237	193.00	583	277.00	1102
62.00	276	135.00	609	196.00	1686	278.00	60
63.00	718	136.00	251	198.00	47056	285.00	61
65.00	465	137.00	310	199.00	3121	293.00	255
69.00	18000	139.00	66	200.00	264	296.00	3455
70.00	55	140.00	118	201.00	308	297.00	480
73.00	133	141.00	1087	203.00	279	303.00	367
74.00	1663	142.00	333	204.00	1471	314.00	178
75.00	2777	143.00	214	205.00	2719	315.00	394
76.00	1057	144.00	178	206.00	11622	316.00	233
77.00	20000	145.00	61	207.00	1660	321.00	60
78.00	1380	146.00	59	208.00	384	323.00	1236
79.00	1177	147.00	455	210.00	134	324.00	240
80.00	949	148.00	1090	211.00	553	327.00	206
81.00	1334	149.00	567	215.00	51	334.00	737
82.00	361	150.00	52	216.00	275	335.00	205
83.00	402	151.00	206	217.00	2789	346.00	208
85.00	286	152.00	52	218.00	414	352.00	301
86.00	395	153.00	301	219.00	62	353.00	147
87.00	222	154.00	253	221.00	3390	354.00	357
89.00	51	155.00	599	223.00	677	365.00	1477
91.00	340	156.00	987	224.00	6418	366.00	214

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818 Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08181001.D
Spectrum: Avg. Scans 2494-2496 (14.91), Background Scan 2486
Location of Maximum: 198.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	329	157.00	122	225.00	1648	372.00	574
93.00	2038	158.00	193	226.00	200	373.00	129
94.00	188	159.00	128	227.00	2459	383.00	65
98.00	1464	160.00	350	228.00	377	402.00	221
99.00	1273	161.00	471	229.00	612	403.00	300
100.00	56	162.00	55	231.00	253	421.00	316
101.00	757	165.00	399	234.00	141	422.00	235
103.00	280	166.00	305	235.00	193	423.00	1791
104.00	504	167.00	1992	236.00	55	424.00	380
105.00	476	168.00	1024	237.00	267	441.00	5412
106.00	152	169.00	198	241.00	172	442.00	37400
107.00	5789	172.00	105	242.00	415	443.00	7584
108.00	984	173.00	258	243.00	385	444.00	622
110.00	11256	174.00	444	244.00	5510		
111.00	1694	175.00	931	245.00	700		
112.00	260	176.00	281	246.00	933		

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818

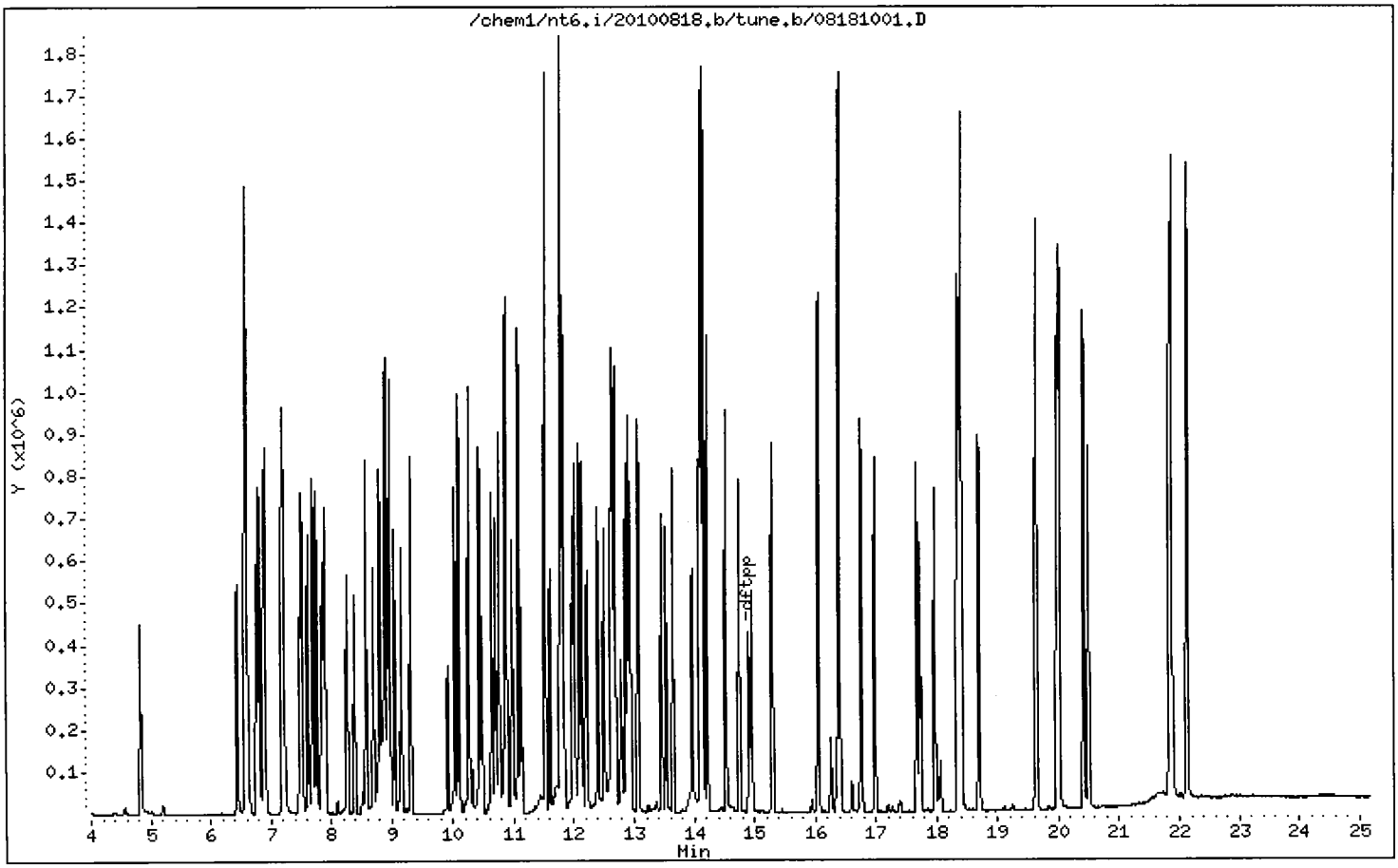
Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20100818.b/ddt.b/08181001.D ARI ID: CC0818
Method: /chem1/nt6.i/20100818.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 18-AUG-2010 12:23 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	13.969	125210
Benzidine	16.351	138709
4,4'-DDE	----	----
4,4'-DDD	17.270	4370
4,4'-DDT	17.735	245454

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

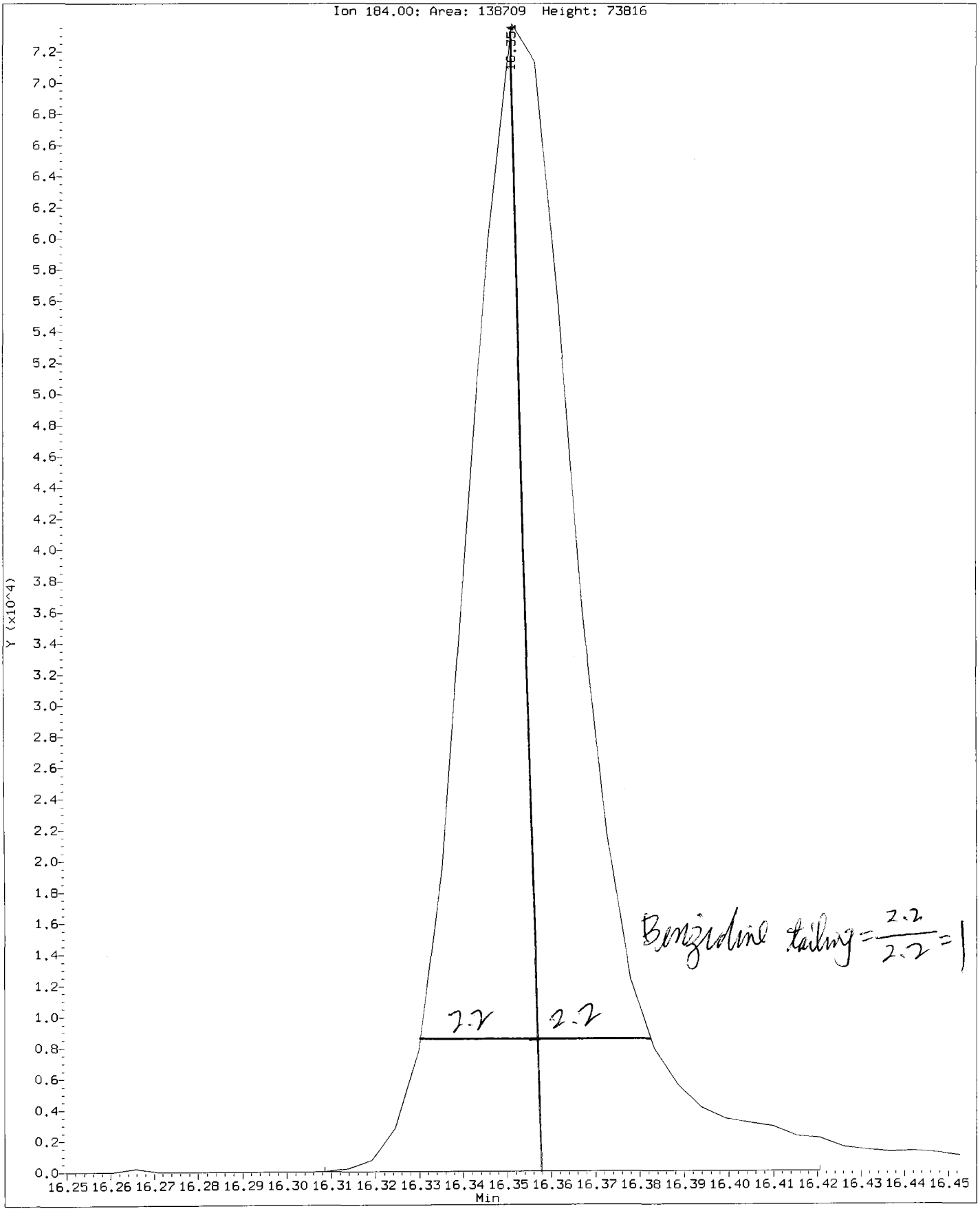
$$\text{DDT Percent Breakdown} = \frac{(0 + 4370) * 100}{(0 + 4370 + 245454)}$$

DDT Percent Breakdown = 1.7 %

OK AR 08/18/10

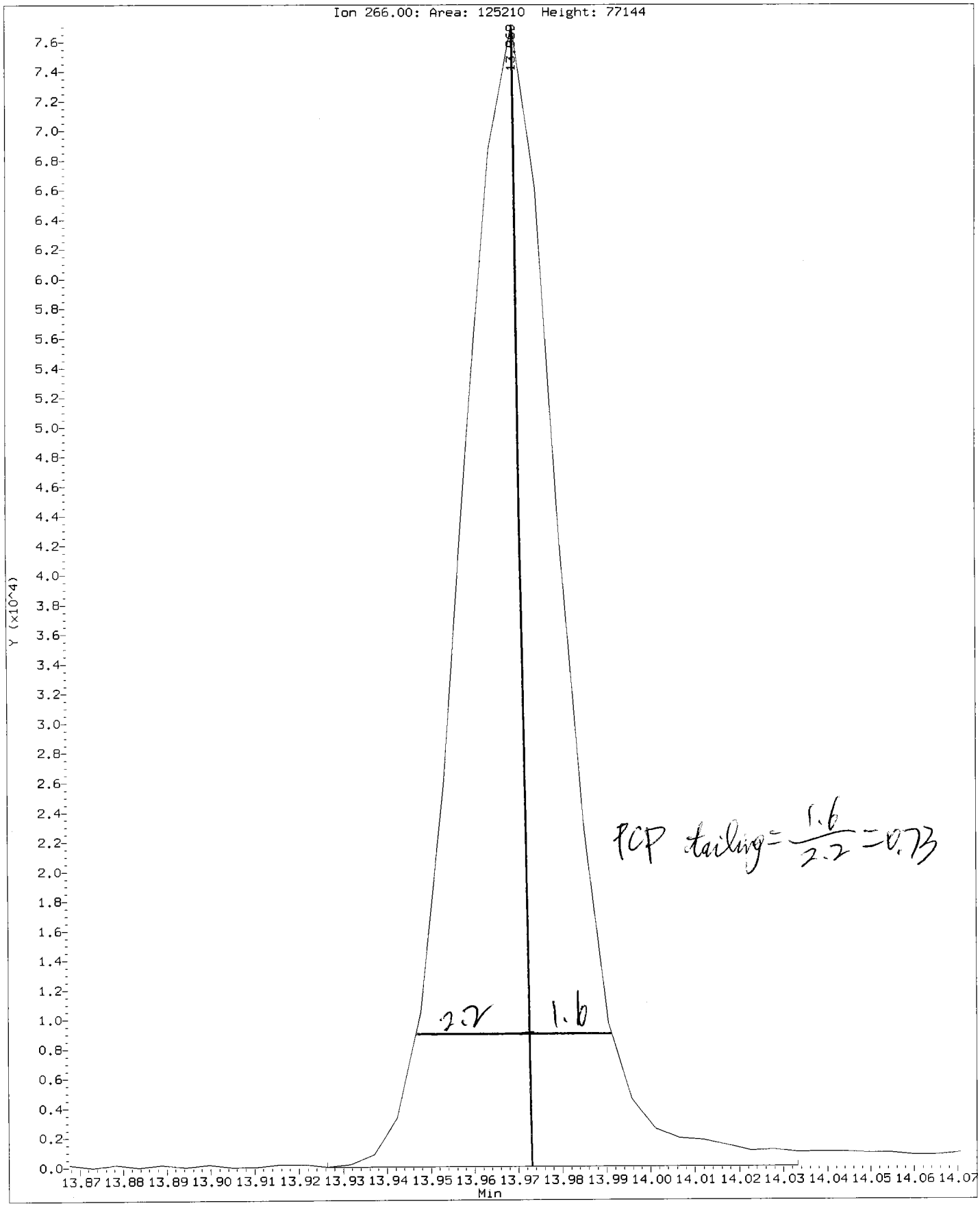
Data File: /chem1/nt6.i/20100818.b/ddt.b/08181001.D
Injection Date: 18-AUG-2010 12:23
Instrument: nt6.i
Client Sample ID: CC0818

Compound: Benzidine
CAS Number:



Data File: /chem1/nt6.i/20100818.b/ddt.b/08181001.D
Injection Date: 18-AUG-2010 12:23
Instrument: nt6.i
Client Sample ID: CC0818

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181006.D
Lab Smp Id: RG78F Client Smp ID: PSB10-0-0.5-073010
Inj Date : 18-AUG-2010 15:13
Operator : JZ Inst ID: nt6.i
Smp Info : RG78F,5,
Misc Info : 10-18438
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 18:00 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 6
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	27.90000	Weight of sample extracted (g)
M	6.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.937	8.943	(1.000)	526934	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.753	10.759	(0.913)	76827	3.43518	327.8
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.773	11.774	(1.000)	319472	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.107	14.113	(1.000)	516243	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 66 Terphenyl-d14	244	16.761	16.762	(0.913)	50157	2.02027	192.8
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.364	18.370	(1.000)	700835	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	19.982	20.015	(0.975)	25988	0.52752	50.34(a)
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.500	20.496	(1.000)	765105	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.846	21.842	(1.066)	32564	0.50454	48.15
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	22.135	22.136	(1.080)	34178	0.58703	56.02

T

J LMDL

SB 8/19/10

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181006.D
Lab Smp Id: RG78F
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18438

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: PSB10-0-0.5-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	526934	-9.79
42 Acenaphthene-d10	320442	160221	640884	319472	-0.30
59 Phenanthrene-d10	503793	251896	1007586	516243	2.47
69 Chrysene-d12	532343	266172	1064686	700835	31.65
77 Perylene-d12	517269	258634	1034538	765105	47.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.07
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.01
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.05
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

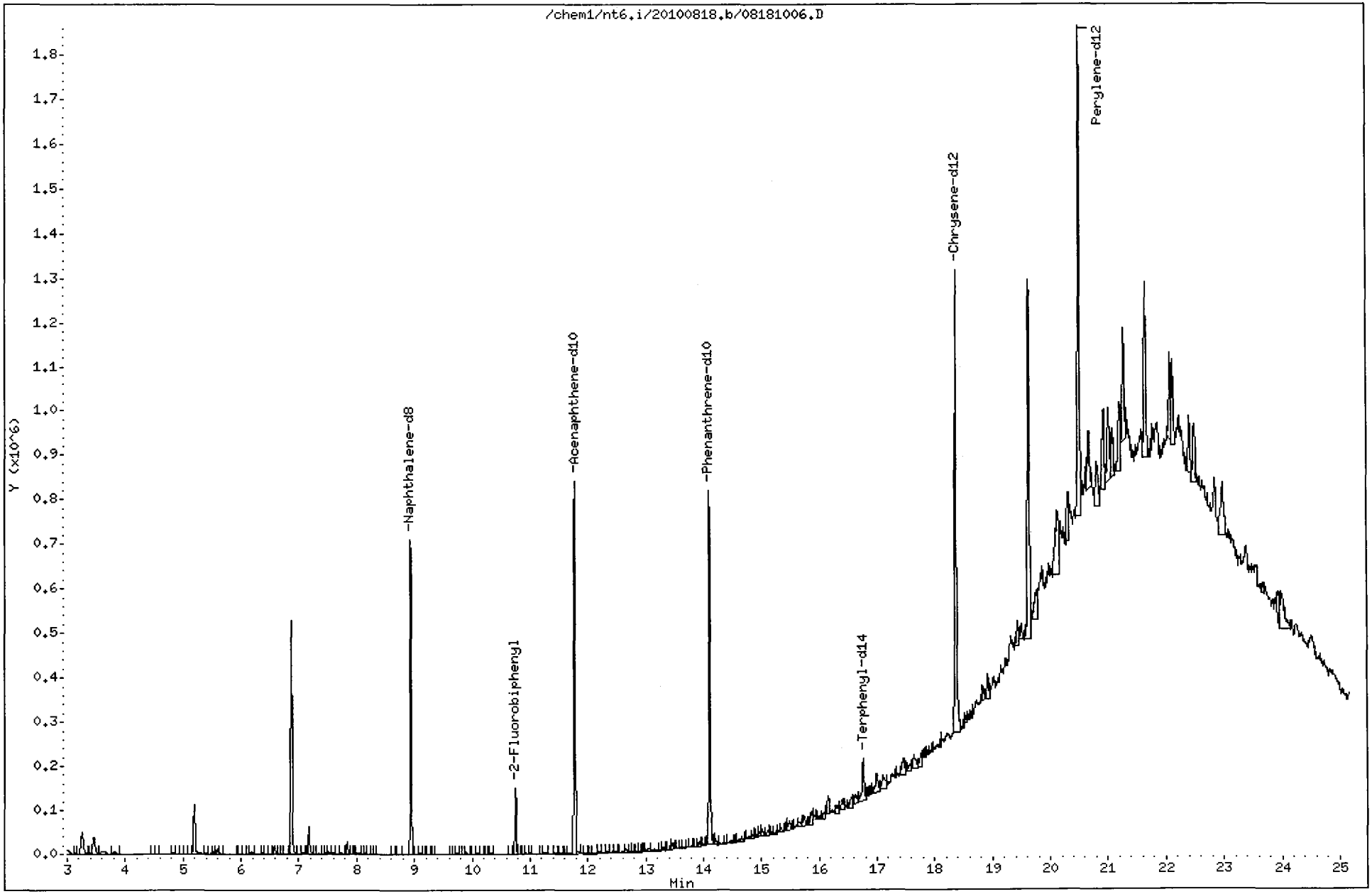
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78F
Client Smp ID: PSB10-0-0.5-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18438

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	477.1	327.8	68.70	34-100
$ 66 Terphenyl-d14	477.1	192.8	40.41	35-112

Data File: /chem1/nt6.i/20100818.b/08181006.D
Date : 18-AUG-2010 15:13
Client ID: PSB10-0-0.5-073010
Sample Info: RG78F,5,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:00962



Data File: /chem1/nt6.i/20100818.b/08181006.D

Date : 18-AUG-2010 15:13

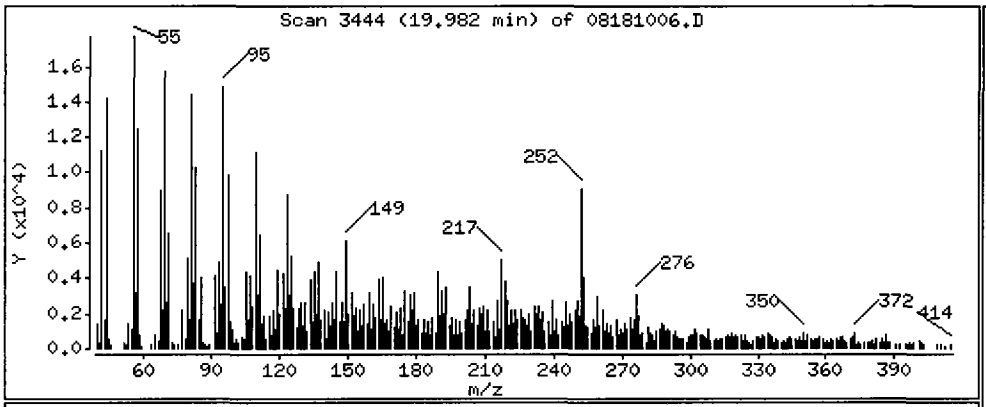
Client ID: PSB10-0-0.5-073010 Instrument: nt6.i

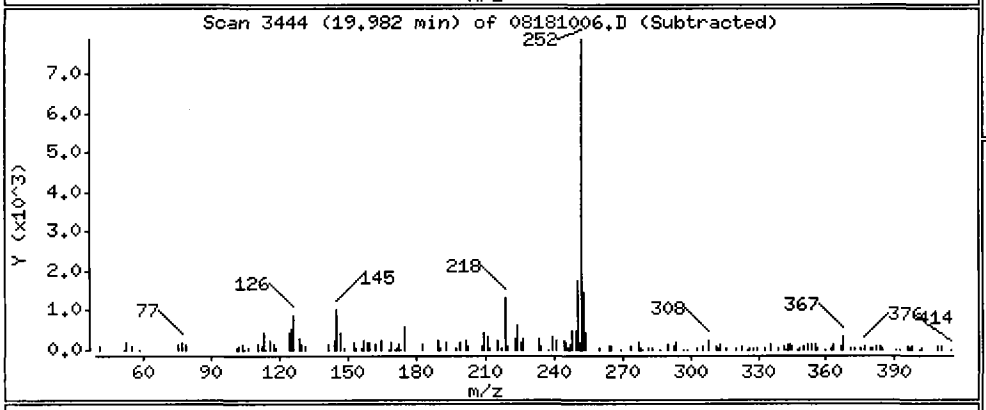
Sample Info: RG78F,5,

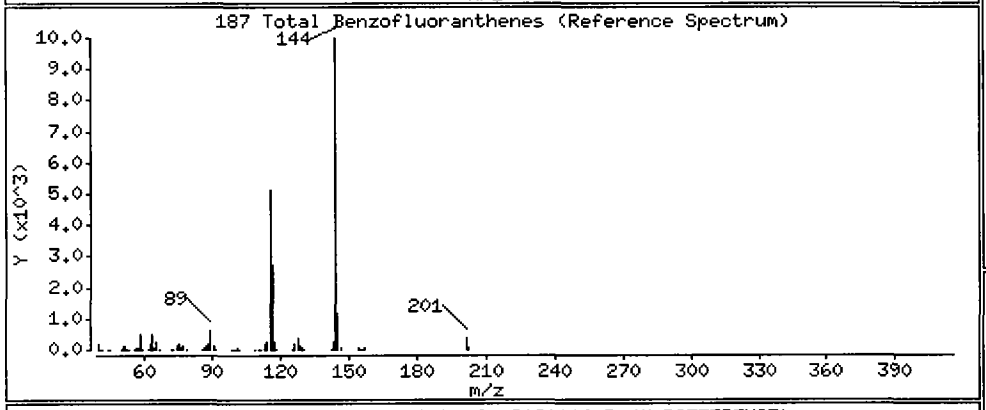
Volume Injected (uL): 1.0 Operator: JZ

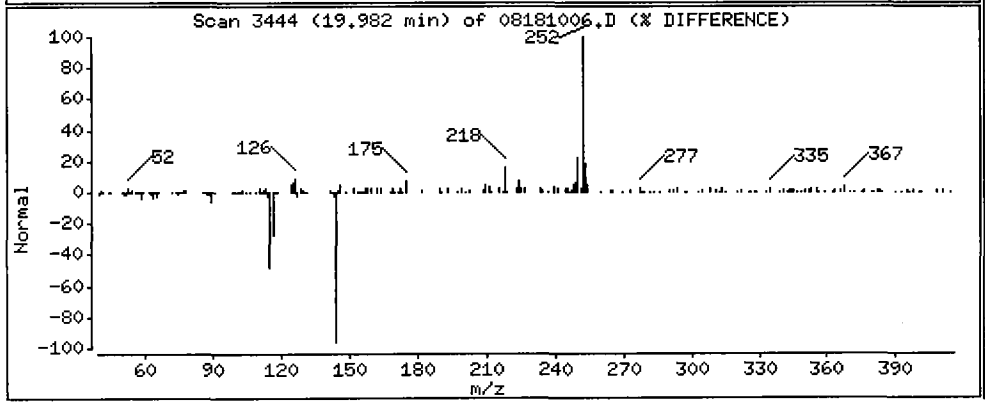
Column phase: ZB-5msi Column diameter: 0.32

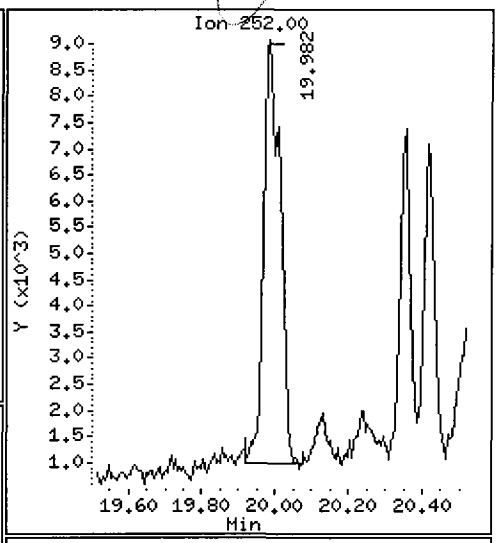
187 Total Benzofluoranthenes Concentration: 50.34 ug/kg

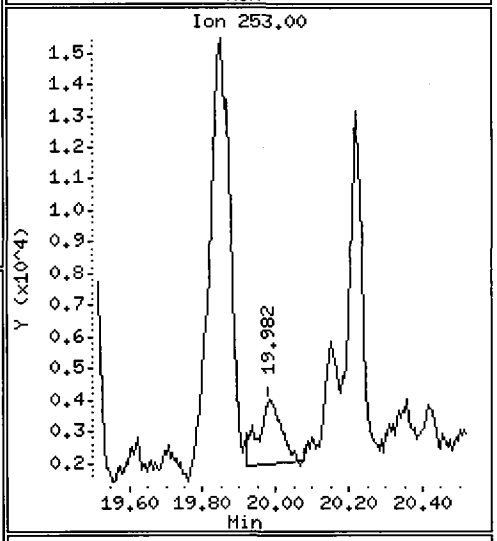


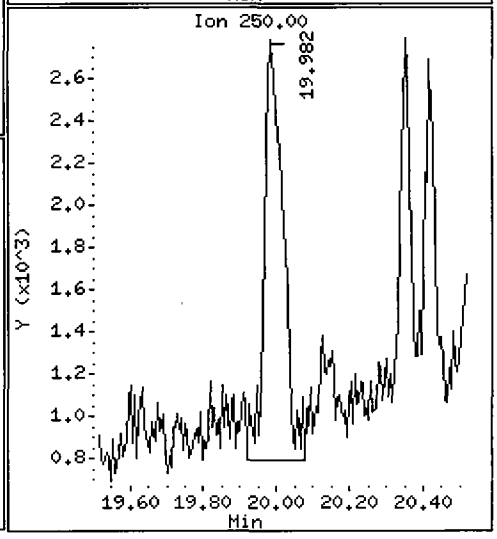












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181007.D
Lab Smp Id: RG78K Client Smp ID: PSB10-14-15-073010
Inj Date : 18-AUG-2010 15:45
Operator : JZ Inst ID: nt6.i
Smp Info : RG78K
Misc Info : 10-18443
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 18:00 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	26.10000	Weight of sample extracted (g)
M	3.20000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.938	8.943	(1.000)	528564	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.754	10.759	(0.913)	335805	15.1501	299.8
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.774	11.774	(1.000)	316621	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.108	14.113	(1.000)	514126	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.757	16.762	(0.912)	417891	19.4486	384.9
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	606545	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.496	20.496	(1.000)	627072	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181007.D
Lab Smp Id: RG78K
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18443

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: PSB10-14-15-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	528564	-9.51
42 Acenaphthene-d10	320442	160221	640884	316621	-1.19
59 Phenanthrene-d10	503793	251896	1007586	514126	2.05
69 Chrysene-d12	532343	266172	1064686	606545	13.94
77 Perylene-d12	517269	258634	1034538	627072	21.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78K
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18443

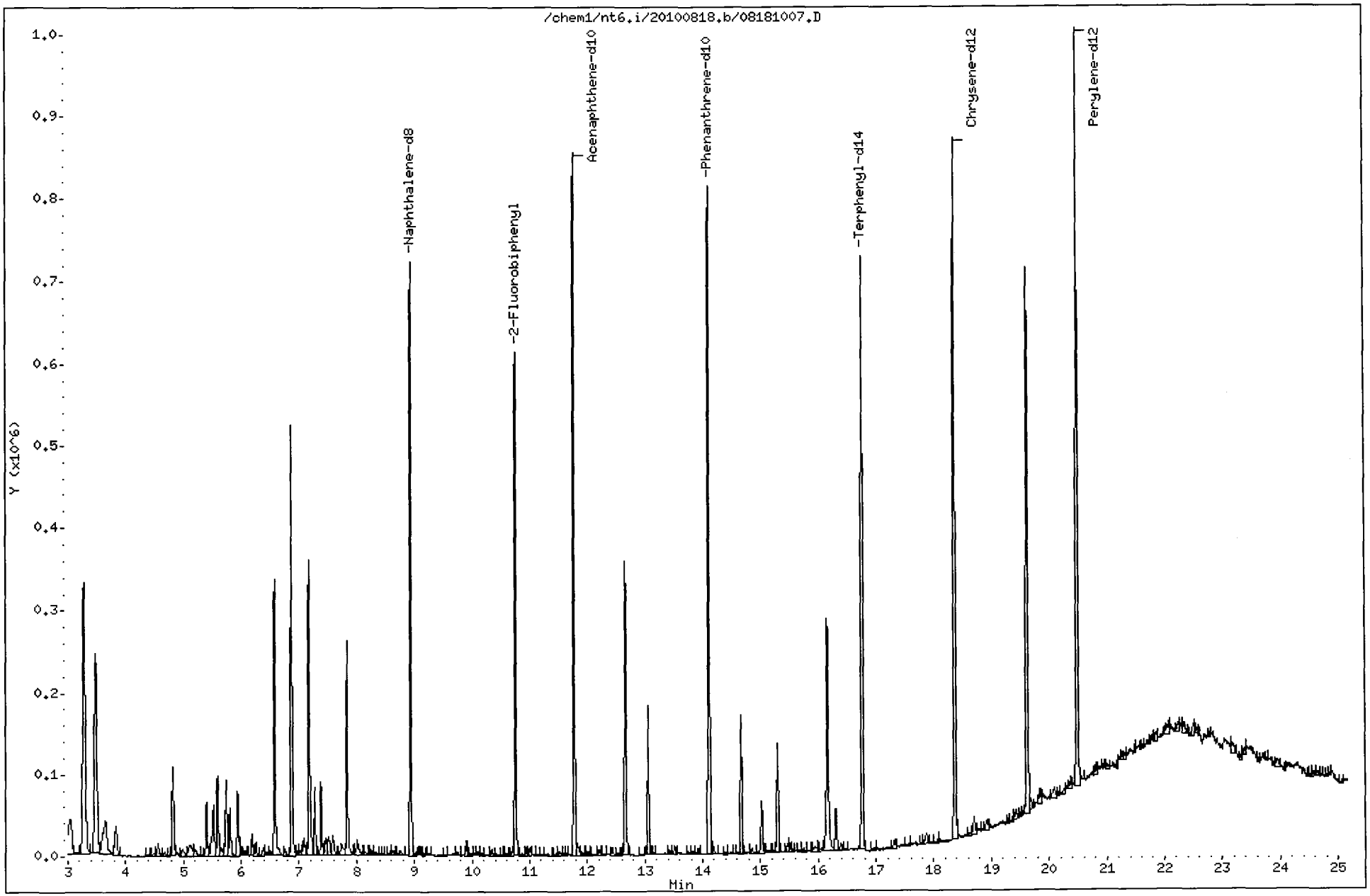
Client SDG: RG78
Fraction: SV
Client Smp ID: PSB10-14-15-073010
Operator: JZ
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	494.8	299.8	60.60	34-100
$ 66 Terphenyl-d14	494.8	384.9	77.79	35-112

Data File: /chem1/nt6.i/20100818.b/08181007.D
Date : 18-AUG-2010 15:45
Client ID: PSB10-14-15-073010
Sample Info: RG78K
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG78:09966



Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/25/10 Analysis: 8270 Analyst: JB

GC Program: ABN Column No: 172294 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08240001 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1747-3, 1733-1	
	1735-1, 1736-1	
	1601?, 1753-5	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100825.b

	Time	Filename	LabID	ClientId	DF															
1	1054	08251001.d	CC0825	CC0825	1	7.52	398586	9.56	1359281	12.40	795834	14.75	1279774	19.03	1003908	21.17	1186080	20.22	1590251	
2	1142	08251002.d	RG78MBS2	RG78MBS2	1	9.56	1760219	12.40	1044927	14.75	1628771	19.03	1348280	21.17	1426142					
3	1216	08251003.d	RG78LCSS2	RG78LCSS2	1	9.55	1722044	12.40	1033820	14.75	1584991	19.03	1299858	21.17	1457844					
4	1249	08251004.d	RG78ERE	PSB9A-0-0.5-	1	9.55	1762005	12.40	1050442	14.75	1580793	19.02	1315117	21.17	1466690					
5	1323	08251005.d	RG79ORE	PSB15-13-15-	1	9.55	1761958	12.39	1038825	14.75	1584948	19.03	1451077	21.18	1555973					
6	1357	08251006.d	RI55B 3X	CB27B-081210	3	7.52	448983	9.56	1529861	12.40	741353	14.74	202747	19.15	1166521	20.28	1623886	21.25	820401	
7	1431	08251007.d	RI55C	CB27A-081210	1	7.52	428801	9.56	1466185	12.41	887101	14.76	1566851	20.33	1048163	21.32	501758			
8	1505	08251008.d	RI14MBS1	RI14MBS1	1	7.52	348905	9.56	1228328	12.40	762432	14.75	1156224	19.03	1106360	20.22	1602493	21.18	1168938	
9	1539	08251009.d	RI14LCSS1	RI14LCSS1	1	7.52	395857	9.56	1383894	12.40	829930	14.75	1284109	19.03	1179676	20.22	1772609	21.18	1404068	
10	1613	08251010.d	RI14A 3X	SLW-VC-02-0-	3	7.52	507650	9.56	1701091	12.40	1022982	14.75	1576977	19.04	1559370	20.22	2330086	21.18	1686829	
11	1647	08251011.d	RI14B	SLW-VC-02-3-	1	7.52	474472	9.56	1570662	12.40	920038	14.75	1440492	19.04	1415395	20.22	2157677	21.18	1483968	
12	1721	08251012.d	RI14BMS	SLW-VC-02-3-	1	7.52	491784	9.56	1674310	12.40	945555	14.76	1502085	19.04	1553036	20.23	2341000	21.18	1584592	
13	1755	08251013.d	RI14BMSD	SLW-VC-02-3-	1	7.52	487676	9.56	1654643	12.41	992270	14.75	1519027	19.04	1523418	20.22	2249116	21.18	1553843	
14	1829	08251014.d	RH70A 10X	PortCB6-0809	10	7.52	434495	9.56	1429359	12.40	825669	14.75	1300949	19.05	1351479	20.24	1958547	21.21	1137724	
15	1902	08251015.d	RI14C	SLW-VC-03-0-	1	7.52	507886	9.56	1645897	12.40	970828	14.75	1507682	19.04	1535497	20.22	2327147	21.18	1517390	
16	1936	08251016.d	RI14D 3X	SLW-VC-03-3-	3	7.52	629272	9.56	2101333	12.40	1220486	14.75	1902450	19.04	1991290	20.23	2977378	21.19	1647463	
17	2010	08251017.d	RI14E 3X	LSW-VC-04-0-	3	7.52	600601	9.56	1950275	12.40	1156899	14.75	1799571	19.05	1905026	20.23	2785371	21.20	1513420	
18	2044	08251018.d	RI14F 3X	SLW-VC-04-3-	3	7.52	540369	9.56	1783200	12.40	1055858	14.75	1625192	19.03	1621355	20.23	2431399	21.18	1295882	
19	2118	08251019.d	RI55B 10X	CB27B-081210	10	7.52	437369	9.56	1460444	12.40	867239	14.76	1367603	19.08	1582044	20.25	2108907	21.21	942896	
20	2151	08251020.d	RI55C 10X	CB27A-081210	10	7.52	482029	9.56	1526450	12.40	882651	14.75	1391737	19.05	1704548	20.24	2320864	21.20	1225092	

Maintenance / Comments

JB 08/26/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RG78 & RG79 Client ID: Floyd / Snyder

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 8/24/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

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

Samples RG78ERZ & RG79RE + MB/LCS

Forms included

Batch QC: RG78 & RG79

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 08/26/10

Reviewer: _____ **Date:** 8/26/10

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100825.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 25-AUG-2010

JZ 08/26/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1054	08251001.d	CC0825	CC0825	1	NO MANUAL INTEGRATION
1142	08251002.d	RG78MBS2	RG78MBS2	1	NO MANUAL INTEGRATION
1216	08251003.d	RG78LCSS2	RG78LCSS2	1	NO MANUAL INTEGRATION
1249	08251004.d	RG78ERE	PSB9A-0-0.	1	NO MANUAL INTEGRATION
1323	08251005.d	RG79ORE	PSB15-13-1	1	NO MANUAL INTEGRATION

RG78-0951

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100825.b

Instrument: nt4.i Date: 25-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

D 08/25/10

CONTINUING CAL: 25-AUG-2010

Compound	%D
Hexachlorocyclopentadiene	-31.5
Pentachlorophenol	-30.9

> NTC.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08251001.d
Analysis Type:
Lab Sample ID: CC0825
Method: /chem3/nt4.i/20100825.b/SW846100719.m

Injection Date: 25-AUG-2010 10:54
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

08/25/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 2-Fluorophenol	1.08371	1.05687	1.05687	0.010	-2.47708	20.00000	Averaged	
$ 2 Phenol-d5	1.06604	1.07185	1.07185	0.010	0.54414	20.00000	Averaged	
3 Phenol	1.37947	1.30766	1.30766	0.100	-5.20574	20.00000	Averaged	
$ 5 2-Chlorophenol-d4	1.14386	1.08155	1.08155	0.010	-5.44736	20.00000	Averaged	
4 Bis(2-Chloroethyl)ether	1.02875	1.01204	1.01204	0.700	-1.62456	20.00000	Averaged	
6 2-Chlorophenol	1.31278	1.22362	1.22362	0.800	-6.79177	20.00000	Averaged	
7 1,3-Dichlorobenzene	1.49159	1.39537	1.39537	0.010	-6.45082	20.00000	Averaged	
9 1,4-Dichlorobenzene	1.50653	1.40809	1.40809	0.010	-6.53460	20.00000	Averaged	
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.76853	0.76853	0.010	-9.93073	20.00000	Averaged	
12 1,2-Dichlorobenzene	1.40311	1.29713	1.29713	0.010	-7.55299	20.00000	Averaged	
11 Benzyl alcohol	0.78176	0.62836	0.62836	0.010	-19.62254	20.00000	Averaged	
14 2,2'-oxybis(1-Chloropropane	0.96702	0.93412	0.93412	0.010	-3.40204	20.00000	Averaged	
13 2-Methylphenol	1.05383	0.97228	0.97228	0.700	-7.73861	20.00000	Averaged	
17 Hexachloroethane	0.55799	0.49468	0.49468	0.300	-11.34743	20.00000	Averaged	
16 N-Nitroso-di-n-propylamine	0.72131	0.66649	0.66649	0.500	-7.60022	20.00000	Averaged	
15 4-Methylphenol	1.09383	1.00647	1.00647	0.600	-7.98720	20.00000	Averaged	
$ 18 Nitrobenzene-d5	0.30955	0.29385	0.29385	0.010	-5.06965	20.00000	Averaged	
19 Nitrobenzene	0.30648	0.29808	0.29808	0.200	-2.73873	20.00000	Averaged	
20 Isophorone	0.50898	0.47415	0.47415	0.300	-6.84182	20.00000	Averaged	
21 2-Nitrophenol	0.19148	0.19321	0.19321	0.100	0.90655	20.00000	Averaged	
22 2,4-Dimethylphenol	0.34090	0.31356	0.31356	0.200	-8.02024	20.00000	Averaged	
23 Bis(2-Chloroethoxy)methane	0.35475	0.34927	0.34927	0.050	-1.54348	20.00000	Averaged	
24 Benzoic acid	42.63901	50.00000	0.23380	0.010	-14.72198	20.00000	Linear	
25 2,4-Dichlorophenol	0.29949	0.28704	0.28704	0.100	-4.15722	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.33353	0.31128	0.31128	0.010	-6.67251	20.00000	Averaged	
28 Naphthalene	0.94898	0.91374	0.91374	0.100	-3.71403	20.00000	Averaged	
29 4-Chloroaniline	0.37840	0.36209	0.36209	0.010	-4.30875	20.00000	Averaged	
30 Hexachlorobutadiene	0.18923	0.16766	0.16766	0.010	-11.39728	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.27464	0.26540	0.26540	0.200	-3.36580	20.00000	Averaged	
32 2-Methylnaphthalene	0.64492	0.59421	0.59421	0.300	-7.86263	20.00000	Averaged	
33 Hexachlorocyclopentadiene	0.29263	0.20051	0.20051	0.001	-31.47972	20.00000	Averaged	<-
34 2,4,6-Trichlorophenol	0.36003	0.34188	0.34188	0.200	-5.03888	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.36654	0.36180	0.36180	0.200	-1.29221	20.00000	Averaged	
$ 36 2-Fluorobiphenyl	1.22512	1.11460	1.11460	0.010	-9.02052	20.00000	Averaged	
37 2-Chloronaphthalene	1.08775	1.02899	1.02899	0.700	-5.40204	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08251001.d
Analysis Type:
Lab Sample ID: CC0825
Method: /chem3/nt4.i/20100825.b/SW846100719.m

Injection Date: 25-AUG-2010 10:54
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.22324	0.22324	0.010	6.30006	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.16776	1.16776	0.010	-8.60328	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.59475	1.59475	0.900	-2.80462	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.28478	0.28478	0.100	-0.94983	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.26186	0.26186	0.010	3.29296	20.00000	Averaged	
44 Acenaphthene	1.06825	0.99553	0.99553	0.100	-6.80731	20.00000	Averaged	
45 2,4-Dinitrophenol	44.66517	50.00000	0.14996	0.030	-10.66966	20.00000	Quadratic	
46 Dibenzofuran	1.42396	1.33907	1.33907	0.800	-5.96161	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.14425	0.14425	0.010	-19.50583	20.00000	Averaged	
48 2,4-Dinitrotoluene	0.37910	0.36800	0.36800	0.200	-2.92686	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.13920	1.13920	0.010	-13.80691	20.00000	Averaged	
49 Fluorene	1.23204	1.13668	1.13668	0.100	-7.74006	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.55918	0.55918	0.100	-6.42266	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.25763	0.25763	0.010	-6.19533	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.12876	0.12876	0.001	-6.69222	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.52926	0.52926	0.010	-6.18481	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.13501	0.13501	0.010	-5.60212	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.19231	0.19231	0.100	-5.93437	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.19303	0.19303	0.100	-7.82359	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.09853	0.09853	0.010	-30.94853	20.00000	Averaged	<-
60 Phenanthrene	1.03607	0.93915	0.93915	0.700	-9.35426	20.00000	Averaged	
61 Anthracene	1.05988	0.97396	0.97396	0.700	-8.10648	20.00000	Averaged	
62 Carbazole	0.96311	0.88816	0.88816	0.010	-7.78262	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.13226	1.13226	0.010	-7.79750	20.00000	Averaged	
64 Fluoranthene	1.07347	0.96233	0.96233	0.600	-10.35317	20.00000	Averaged	
65 Pyrene	1.26819	1.25301	1.25301	0.600	-1.19744	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.71963	0.71963	0.010	-7.07719	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.64020	0.64020	0.010	-0.52682	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.13282	1.13282	0.800	-3.37404	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.43735	0.43735	0.010	15.34326	20.00000	Averaged	
71 Chrysene	1.14746	1.10317	1.10317	0.700	-3.85986	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.55355	0.55355	0.010	-2.51293	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.91815	0.91815	0.010	-7.66377	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.03341	1.03341	0.700	-16.98891	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.21197	1.21197	0.700	-3.89237	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08251001.d
Analysis Type:
Lab Sample ID: CC0825
Method: /chem3/nt4.i/20100825.b/SW846100719.m

Injection Date: 25-AUG-2010 10:54
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.05135	1.05135	0.010	-10.91843	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.03447	1.03447	0.700	-6.32520	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.21826	1.21826	0.500	2.73631	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	1.00942	1.00942	0.400	5.88853	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	1.08197	1.08197	0.500	6.74365	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.55561	0.55561	0.010	-4.63809	20.00000	Averaged
103 Pyridine	1.00478	0.99541	0.99541	0.010	-0.93284	20.00000	Averaged
91 Aniline	1.43987	1.31307	1.31307	0.010	-8.80593	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.58089	0.58089	0.010	-8.05253	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100825.b/08251001.d
Lab Smp Id: CC0825 Client Smp ID: CC0825
Inj Date : 25-AUG-2010 10:54
Operator : JZ Inst ID: nt4.i
Smp Info : CC0825
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100825.b/SW846100719.m
Meth Date : 25-Aug-2010 18:44 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

08/24/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.553	5.553	(0.739)	526567	25.0000	24.38
$	2 Phenol-d5	99	7.151	7.151	(0.952)	534028	25.0000	25.14
	3 Phenol	94	7.169	7.169	(0.954)	651519	25.0000	23.70
$	5 2-Chlorophenol-d4	132	7.228	7.228	(0.962)	538862	25.0000	23.64
	4 Bis(2-Chloroethyl)ether	93	7.210	7.210	(0.959)	504231	25.0000	24.59
	6 2-Chlorophenol	128	7.251	7.251	(0.965)	609649	25.0000	23.30
	7 1,3-Dichlorobenzene	146	7.451	7.451	(0.991)	695218	25.0000	23.39
*	8 1,4-Dichlorobenzene-d4	152	7.516	7.516	(1.000)	398586	20.0000	
	9 1,4-Dichlorobenzene	146	7.545	7.545	(1.004)	701555	25.0000	23.37
$	10 1,2-Dichlorobenzene-d4	152	7.815	7.815	(1.040)	382908	25.0000	22.52
	12 1,2-Dichlorobenzene	146	7.839	7.839	(1.043)	646272	25.0000	23.11
	11 Benzyl alcohol	108	7.827	7.827	(1.041)	313070	25.0000	20.09
	14 2,2'-oxybis(1-Chloropropane)	45	8.079	8.079	(1.075)	465410	25.0000	24.15
	13 2-Methylphenol	108	8.091	8.091	(1.077)	484420	25.0000	23.07
	17 Hexachloroethane	117	8.320	8.320	(1.107)	246463	25.0000	22.16
	16 N-Nitroso-di-n-propylamine	70	8.303	8.303	(1.105)	332066	25.0000	23.10
	15 4-Methylphenol	108	8.326	8.326	(1.108)	501454	25.0000	23.00
$	18 Nitrobenzene-d5	82	8.455	8.455	(0.884)	499286	25.0000	23.73
	19 Nitrobenzene	77	8.485	8.485	(0.888)	506476	25.0000	24.32
	20 Isophorone	82	8.872	8.872	(0.928)	805632	25.0000	23.29
	21 2-Nitrophenol	139	9.002	9.002	(0.942)	328291	25.0000	25.23
	22 2,4-Dimethylphenol	107	9.149	9.149	(0.957)	532774	25.0000	22.99
	23 Bis(2-Chloroethoxy)methane	93	9.278	9.278	(0.970)	593452	25.0000	24.61
	24 Benzoic acid	105	9.436	9.436	(0.987)	794483	50.0000	42.64
	25 2,4-Dichlorophenol	162	9.401	9.401	(0.983)	487716	25.0000	23.96
	26 1,2,4-Trichlorobenzene	180	9.507	9.507	(0.994)	528894	25.0000	23.33
*	27 Naphthalene-d8	136	9.560	9.560	(1.000)	1359281	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.589	9.589	(1.003)	1552529	25.0000	24.07
	29 4-Chloroaniline	127	9.754	9.754	(1.020)	615232	25.0000	23.92
	30 Hexachlorobutadiene	225	9.912	9.912	(1.037)	284874	25.0000	22.15
	31 4-Chloro-3-methylphenol	107	10.594	10.594	(1.108)	450939	25.0000	24.16
	32 2-Methylnaphthalene	142	10.705	10.705	(1.120)	1009626	25.0000	23.03
	33 Hexachlorocyclopentadiene	237	11.087	11.087	(0.894)	199467	25.0000	17.13
	34 2,4,6-Trichlorophenol	196	11.234	11.234	(0.906)	340104	25.0000	23.74
	35 2,4,5-Trichlorophenol	196	11.299	11.299	(0.911)	359919	25.0000	24.68
$	36 2-Fluorobiphenyl	172	11.357	11.357	(0.916)	1108800	25.0000	22.74
	37 2-Chloronaphthalene	162	11.475	11.475	(0.926)	1023635	25.0000	23.65
	38 2-Nitroaniline	65	11.727	11.727	(0.946)	222078	25.0000	26.58
	39 Dimethylphthalate	163	12.109	12.109	(0.977)	1161681	25.0000	22.85
	40 Acenaphthylene	152	12.145	12.145	(0.980)	1586445	25.0000	24.30
	41 2,6-Dinitrotoluene	165	12.197	12.197	(0.984)	283292	25.0000	24.76
*	42 Acenaphthene-d10	164	12.397	12.397	(1.000)	795834	20.0000	
	43 3-Nitroaniline	138	12.403	12.403	(1.000)	260495	25.0000	25.82
	44 Acenaphthene	153	12.450	12.450	(1.004)	990350	25.0000	23.30
	45 2,4-Dinitrophenol	184	12.573	12.573	(1.014)	298358	50.0000	44.67
	46 Dibenzofuran	168	12.708	12.708	(1.025)	1332092	25.0000	23.51
	47 4-Nitrophenol	109	12.761	12.761	(1.029)	143496	25.0000	20.12
	48 2,4-Dinitrotoluene	165	12.814	12.814	(1.034)	366085	25.0000	24.27
	50 Diethylphthalate	149	13.255	13.255	(1.069)	1133272	25.0000	21.55
	49 Fluorene	166	13.261	13.261	(1.070)	1130757	25.0000	23.06
	51 4-Chlorophenyl-phenylether	204	13.296	13.296	(1.072)	556267	25.0000	23.39
	52 4-Nitroaniline	138	13.390	13.390	(1.080)	256285	25.0000	23.45
	53 4,6-Dinitro-2-methylphenol	198	13.472	13.472	(0.914)	411968	50.0000	46.65
	54 N-Nitrosodiphenylamine	169	13.507	13.507	(0.916)	846660	25.0000	23.45
$	55 2,4,6-Tribromophenol	330	13.684	13.684	(1.104)	134307	25.0000	23.60
	56 4-Bromophenyl-phenylether	248	14.071	14.071	(0.954)	307648	25.0000	23.52
	57 Hexachlorobenzene	284	14.277	14.277	(0.968)	308788	25.0000	23.04
	58 Pentachlorophenol	266	14.588	14.588	(0.989)	157613	25.0000	17.26
*	59 Phenanthrene-d10	188	14.747	14.747	(1.000)	1279774	20.0000	
	60 Phenanthrene	178	14.788	14.788	(1.003)	1502383	25.0000	22.66
	61 Anthracene	178	14.858	14.858	(1.008)	1558064	25.0000	22.97
	62 Carbazole	167	15.152	15.152	(1.027)	1420797	25.0000	23.05
	63 Di-n-butylphthalate	149	15.887	15.887	(1.077)	1811302	25.0000	23.05
	64 Fluoranthene	202	16.703	16.703	(1.133)	1539460	25.0000	22.41
	65 Pyrene	202	17.050	17.050	(0.896)	1572380	25.0000	24.70
$	66 Terphenyl-d14	244	17.384	17.384	(0.914)	903049	25.0000	23.23
	67 Butylbenzylphthalate	149	18.277	18.277	(0.960)	803382	25.0000	24.87
	68 Benzo(a)anthracene	228	19.006	19.006	(0.999)	1421560	25.0000	24.16
*	69 Chrysene-d12	240	19.029	19.029	(1.000)	1003908	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.029	19.029	(1.000)	548826	25.0000	28.84
	71 Chrysene	228	19.070	19.070	(1.002)	1384352	25.0000	24.04
	72 bis(2-Ethylhexyl)phthalate	149	19.288	19.288	(0.954)	1100357	25.0000	24.37
*	134 Di-n-octylphthalate-d4	153	20.216	20.216	(1.000)	1590251	20.0000	
	73 Di-n-octylphthalate	149	20.228	20.228	(1.001)	1825114	25.0000	23.08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.651	20.651	(0.976)	1532138	25.0000	20.75
75	Benzo(k)fluoranthene	252	20.680	20.680	(0.977)	1796874	25.0000	24.03
187	Total Benzofluoranthenes	252	20.680	20.680	(0.977)	3117464	50.0000	44.54
76	Benzo(a)pyrene	252	21.091	21.091	(0.996)	1533711	25.0000	23.42
* 77	Perylene-d12	264	21.168	21.168	(1.000)	1186080	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.542	22.542	(1.065)	1806188	25.0000	25.68
79	Dibenzo(a,h)anthracene	278	22.566	22.566	(1.066)	1496567	25.0000	26.47
80	Benzo(g,h,i)perylene	276	22.883	22.883	(1.081)	1604134	25.0000	26.69
90	N-Nitrosodimethylamine	74	2.687	2.687	(0.357)	276820	25.0000	23.84
103	Pyridine	79	2.657	2.657	(0.354)	495943	25.0000	24.77
91	Aniline	93	7.081	7.081	(0.942)	654215	25.0000	22.80
105	1-methylnaphthalene	142	10.876	10.876	(1.138)	986987	25.0000	22.99

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08251001.d
Lab Smp Id: CC0825
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-

Calibration Date: 25-AUG-2010
Calibration Time: 10:54
Client Smp ID: CC0825
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	398586	11.81
27 Naphthalene-d8	1293412	646706	2586824	1359281	5.09
42 Acenaphthene-d10	785897	392948	1571794	795834	1.26
59 Phenanthrene-d10	1313990	656995	2627980	1279774	-2.60
69 Chrysene-d12	1155293	577646	2310586	1003908	-13.10
134 Di-n-octylphthala	1825297	912648	3650594	1590251	-12.88
77 Perylene-d12	1146289	573144	2292578	1186080	3.47

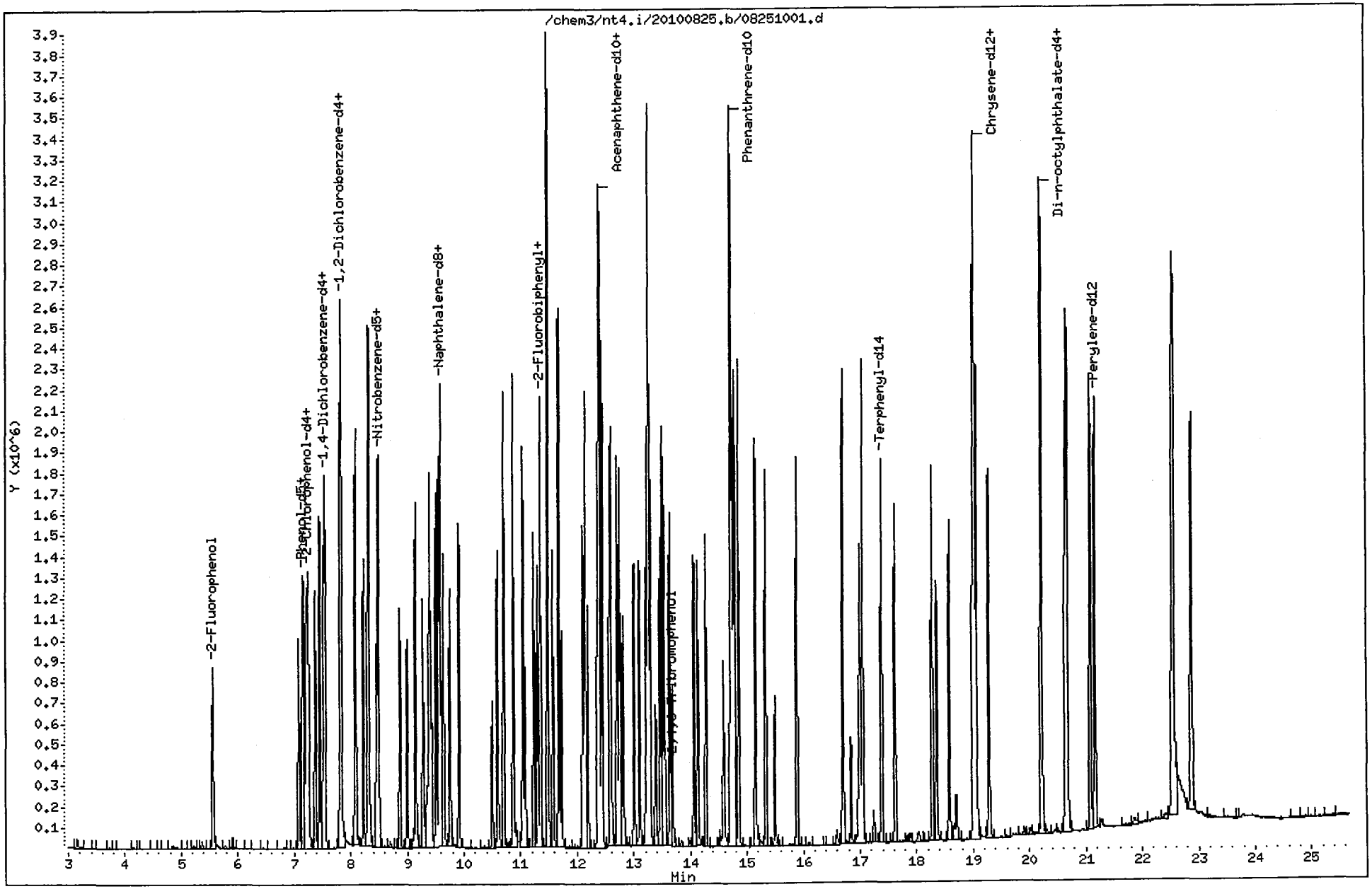
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00
27 Naphthalene-d8	9.56	9.06	10.06	9.56	0.00
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.00
69 Chrysene-d12	19.03	18.53	19.53	19.03	0.00
134 Di-n-octylphthala	20.22	19.72	20.72	20.22	0.00
77 Perylene-d12	21.17	20.67	21.67	21.17	0.00

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

Data File: /chem3/nt4.i/20100825.b/08251001.d
Date : 25-AUG-2010 10:54
Client ID: CC0825
Sample Info: CC0825

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Data File: /chem3/nt4.i/20100825.b/tune.b/08251001.d

Date : 25-AUG-2010 10:54

Client ID: DFTPP0825

Instrument: nt4.i

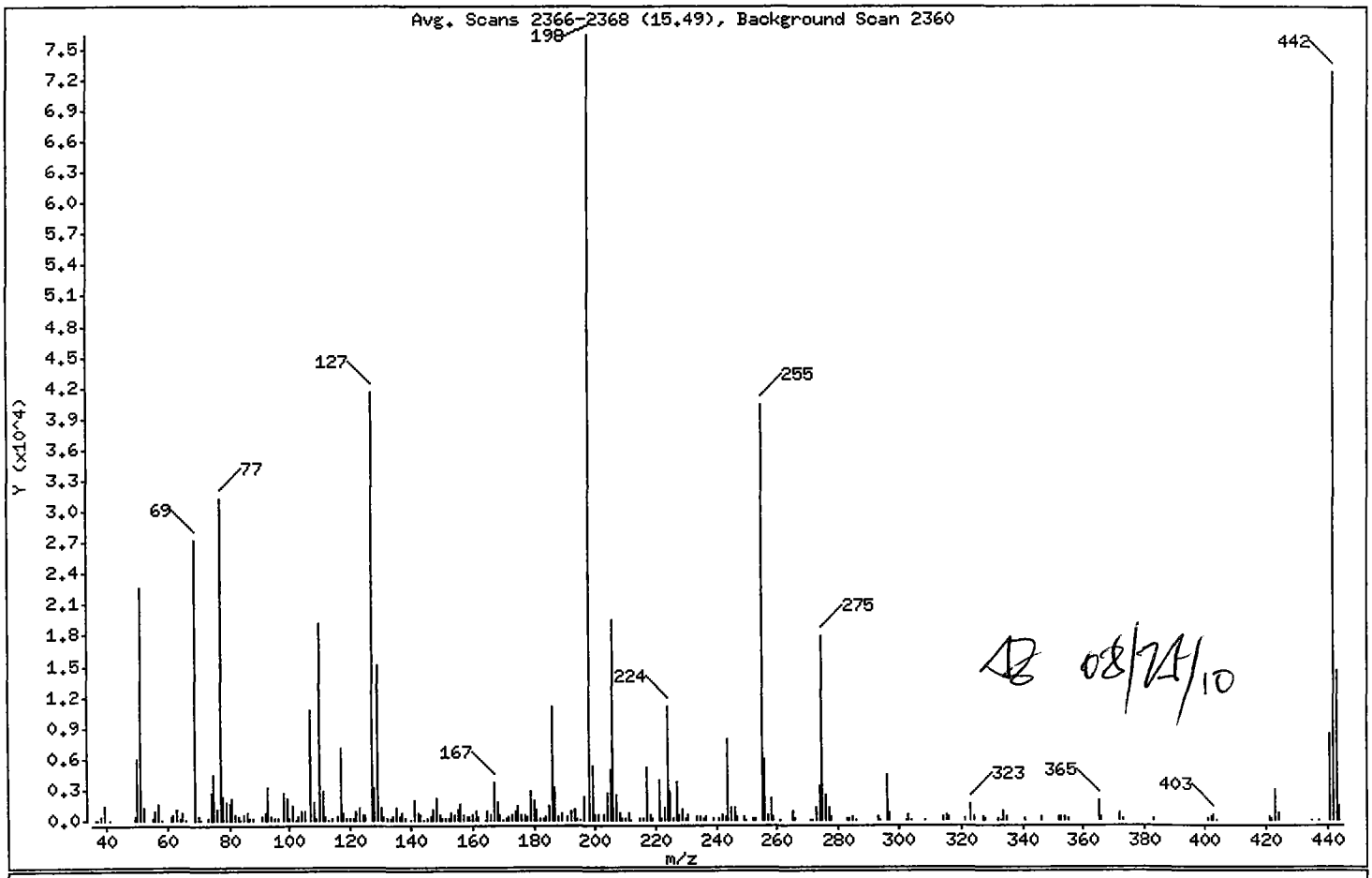
Sample Info: DFTPP0825

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.54
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	35.54
70	Less than 2.00% of mass 69	0.36 (1.02)
127	10.00 - 80.00% of mass 198	54.55
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	23.54
365	Greater than 1.00% of mass 198	2.49
441	0.01 - 24.00% of mass 442	11.07 (11.59)
442	50.00 - 200.00% of mass 198	95.49
443	15.00 - 24.00% of mass 442	19.04 (19.94)

Data File: /chem3/nt4.i/20100825.b/tune.b/08251001.d

Date : 25-AUG-2010 10:54

Client ID: DFTPP0825

Instrument: nt4.i

Sample Info: DFTPP0825

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08251001.d

Spectrum: Avg. Scans 2366-2368 (15.49), Background Scan 2360

Location of Maximum: 198.00

Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	56	119.00	118	185.00	1333	265.00	834
37.00	58	120.00	183	186.00	11141	266.00	156
38.00	394	121.00	137	187.00	3177	271.00	56
39.00	1447	122.00	846	188.00	341	272.00	52
41.00	17	123.00	1282	189.00	660	273.00	1187
49.00	276	124.00	551	191.00	314	274.00	3341
50.00	5956	125.00	494	192.00	817	275.00	17976
51.00	22560	127.00	41656	193.00	1057	276.00	2439
52.00	1197	128.00	3110	194.00	256	277.00	1248
55.00	96	129.00	15148	195.00	68	278.00	305
56.00	898	130.00	1261	196.00	2325	283.00	196
57.00	1565	131.00	296	198.00	76368	284.00	174
58.00	61	132.00	192	199.00	5280	285.00	268
61.00	303	133.00	232	200.00	498	286.00	56
62.00	538	134.00	406	201.00	553	293.00	355
63.00	1097	135.00	1227	203.00	495	294.00	51
64.00	230	136.00	408	204.00	2670	296.00	4355
65.00	707	137.00	708	205.00	4906	297.00	621
66.00	83	138.00	198	206.00	19400	302.00	52
69.00	27144	140.00	68	207.00	2475	303.00	610
70.00	276	141.00	1858	208.00	668	304.00	57
71.00	53	142.00	702	209.00	184	308.00	63
73.00	178	143.00	564	210.00	199	314.00	285
74.00	2668	144.00	61	211.00	723	315.00	520
75.00	4363	145.00	190	212.00	60	316.00	340
76.00	1034	146.00	343	215.00	211	321.00	90
77.00	31208	147.00	1072	216.00	157	323.00	1580
78.00	2327	148.00	2057	217.00	5063	324.00	321
79.00	1765	149.00	588	218.00	594	327.00	316
80.00	1535	150.00	225	219.00	106	328.00	172
81.00	2081	151.00	259	221.00	3925	332.00	149
82.00	486	152.00	190	222.00	176	333.00	81
83.00	366	153.00	632	223.00	1158	334.00	912
84.00	37	154.00	495	224.00	10995	335.00	296
85.00	466	155.00	1077	225.00	2749	341.00	194

Data File: /chem3/nt4.i/20100825.b/tune.b/08251001.d

Date : 25-AUG-2010 10:54

Client ID: DFTPP0825

Instrument: nt4.i

Sample Info: DFTPP0825

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08251001.d
Spectrum: Avg. Scans 2366-2368 (15.49), Background Scan 2360
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	737	156.00	1640	226.00	167	346.00	323
87.00	129	157.00	448	227.00	3689	352.00	391
88.00	111	158.00	333	228.00	511	353.00	355
91.00	418	159.00	315	229.00	1051	354.00	363
92.00	660	160.00	575	230.00	144	355.00	131
93.00	3239	161.00	857	231.00	447	365.00	1900
94.00	290	162.00	305	234.00	269	366.00	279
95.00	171	164.00	59	235.00	282	372.00	765
96.00	212	165.00	798	236.00	198	373.00	240
98.00	2677	166.00	559	237.00	349	383.00	144
99.00	2131	167.00	3636	239.00	110	401.00	137
100.00	211	168.00	1752	241.00	185	402.00	265
101.00	1324	169.00	448	242.00	508	403.00	472
102.00	59	170.00	64	243.00	375	404.00	63
103.00	437	171.00	205	244.00	7889	421.00	429
104.00	805	172.00	341	245.00	1207	422.00	154
105.00	849	173.00	472	246.00	1315	423.00	3045
107.00	10636	174.00	864	247.00	417	424.00	735
108.00	1721	175.00	1332	249.00	279	435.00	50
109.00	152	176.00	564	250.00	57	437.00	50
110.00	19080	177.00	597	252.00	108	441.00	8455
111.00	2841	178.00	432	253.00	170	442.00	72920
112.00	435	179.00	2862	255.00	40360	443.00	14539
113.00	51	180.00	1911	256.00	5952	444.00	1396
114.00	121	181.00	1093	257.00	531		
116.00	378	182.00	134	258.00	2128		
117.00	7020	183.00	137	259.00	328		
118.00	617	184.00	334	261.00	52		

Data File: /chem3/nt4.i/20100825.b/tune.b/08251001.d

Date : 25-AUG-2010 10:54

Client ID: DFTPP0825

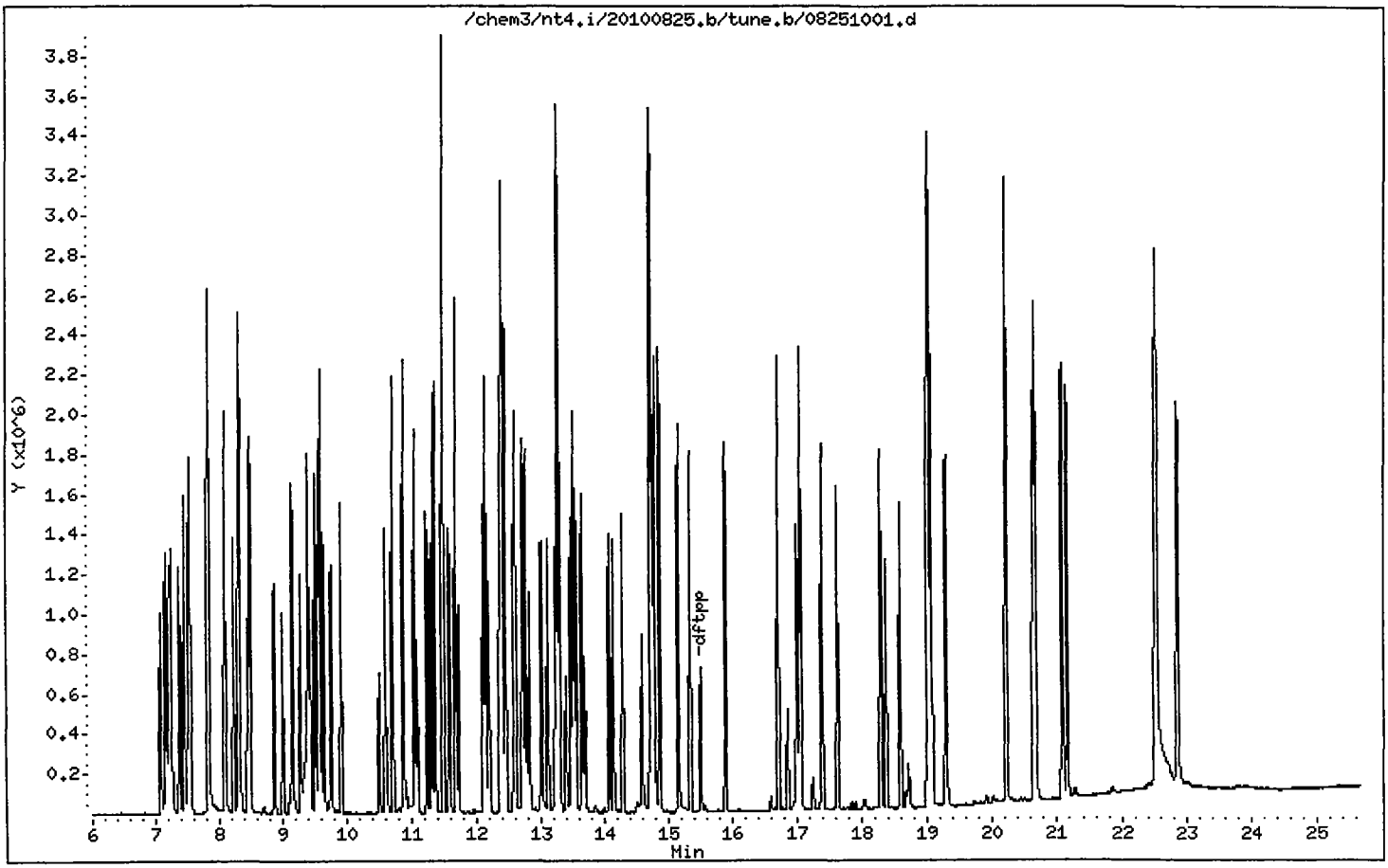
Instrument: nt4.i

Sample Info: DFTPP0825

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100825.b/ddt.b/08251001.d ARI ID: CC0825
Method: /chem3/nt4.i/20100825.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 25-AUG-2010 10:54 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	14.588	157049
Benzidine	12.573	298358
4,4'-DDE	----	----
4,4'-DDD	17.890	11532
4,4'-DDT	18.360	400744

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

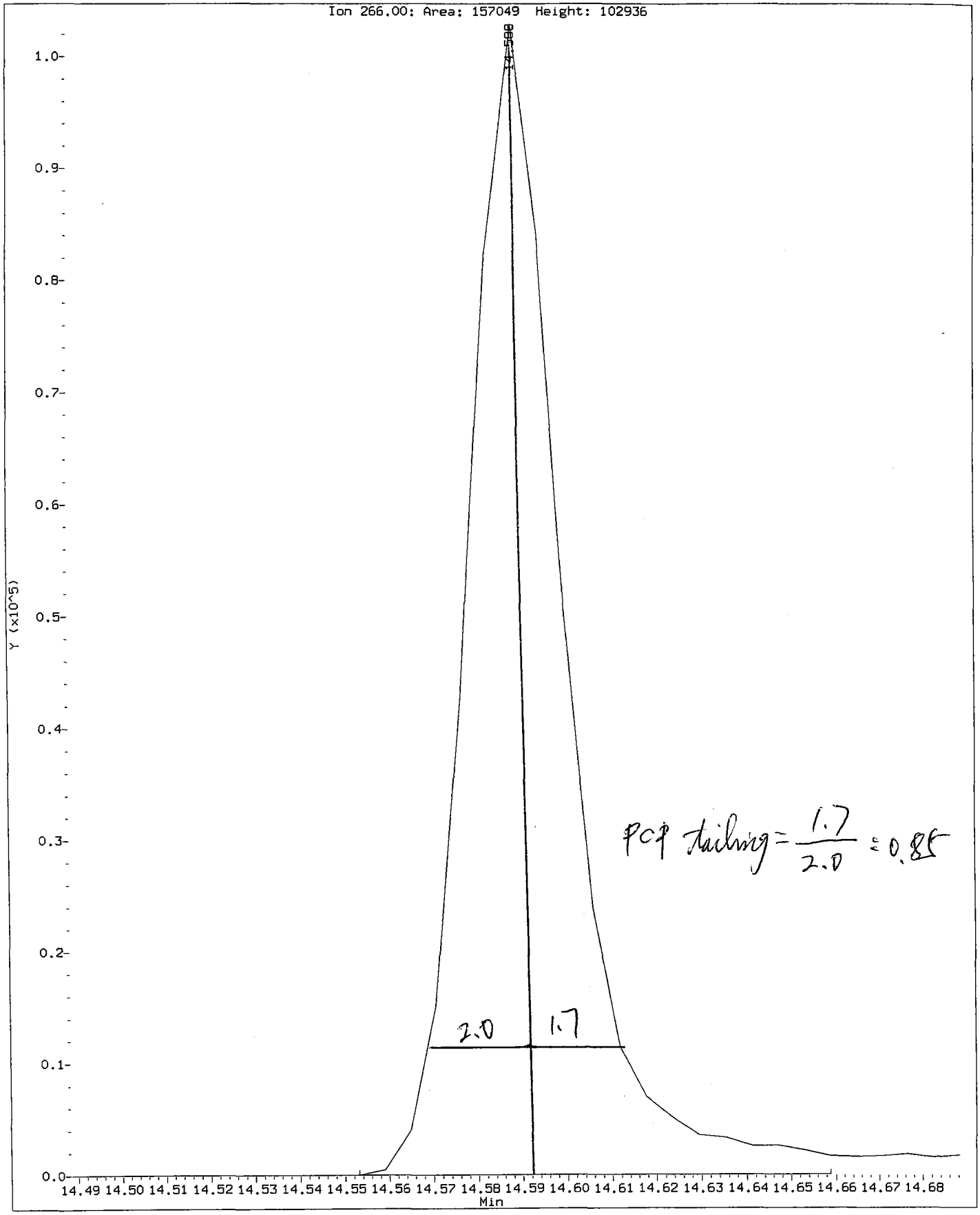
$$\text{DDT Percent Breakdown} = \frac{(0 + 11532) * 100}{(0 + 11532 + 400744)}$$

DDT Percent Breakdown = 2.8 %

ob 09/24/10

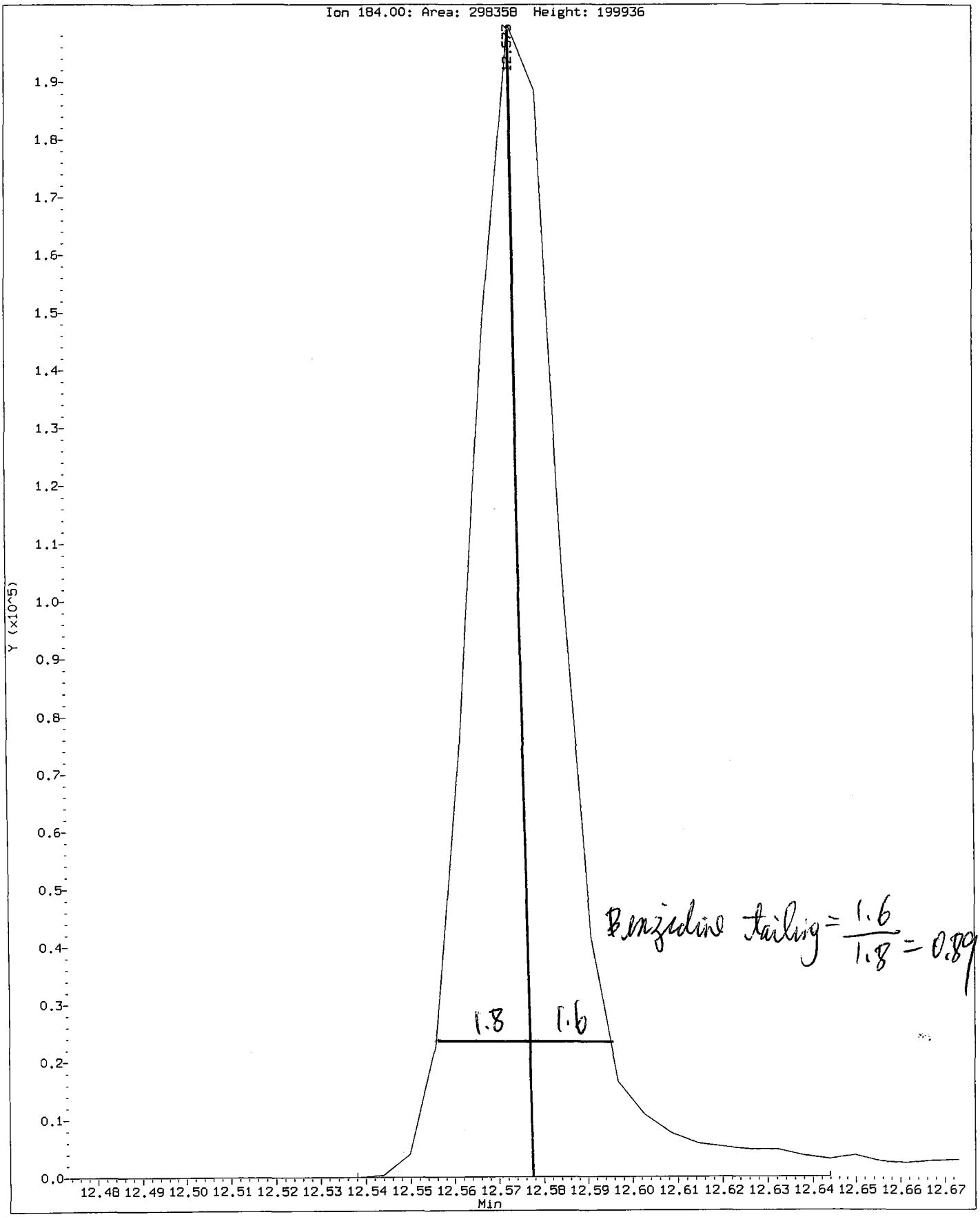
Data File: /chem3/nt4.i/20100825.b/ddt.b/08251001.d
Injection Date: 25-AUG-2010 10:54
Instrument: nt4.i
Client Sample ID: CC0825

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100825.b/ddt.b/08251001.d
Injection Date: 25-AUG-2010 10:54
Instrument: nt4.i
Client Sample ID: CC0825

Compound: Benzidine
CAS Number:



RG78 : 00927

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100825.b/08251002.d
Lab Smp Id: RG78MBS2 Client Smp ID: RG78MBS2
Inj Date : 25-AUG-2010 11:42
Operator : JZ Inst ID: nt4.i
Smp Info : RG78MBS2,
Misc Info : 10-18437
Comment : 1ul Injection
Method : /chem3/nt4.i/20100825.b/SW846100719.m
Meth Date : 26-Aug-2010 12:25 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/26/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	9.556	9.560	(1.000)	1760219	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.353	11.357	(0.916)	953375	14.8947	297.9
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.399	12.397	(1.000)	1044927	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.748	14.747	(1.000)	1628771	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.386	17.384	(0.914)	969967	18.5790	371.6
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	19.025	19.029	(1.000)	1348280	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	21.169	21.168	(1.000)	1426142	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08251002.d
Lab Smp Id: RG78MBS2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

Calibration Date: 25-AUG-2010
Calibration Time: 10:54
Client Smp ID: RG78MBS2
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1760219	36.09
42 Acenaphthene-d10	785897	392948	1571794	1044927	32.96
59 Phenanthrene-d10	1313990	656995	2627980	1628771	23.96
69 Chrysene-d12	1155293	577646	2310586	1348280	16.70
77 Perylene-d12	1146289	573144	2292578	1426142	24.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.56	9.06	10.06	9.56	-0.04
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.01
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.01
69 Chrysene-d12	19.03	18.53	19.53	19.03	-0.02
77 Perylene-d12	21.17	20.67	21.67	21.17	0.01

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

Analytical Resources, Inc.

RECOVERY REPORT

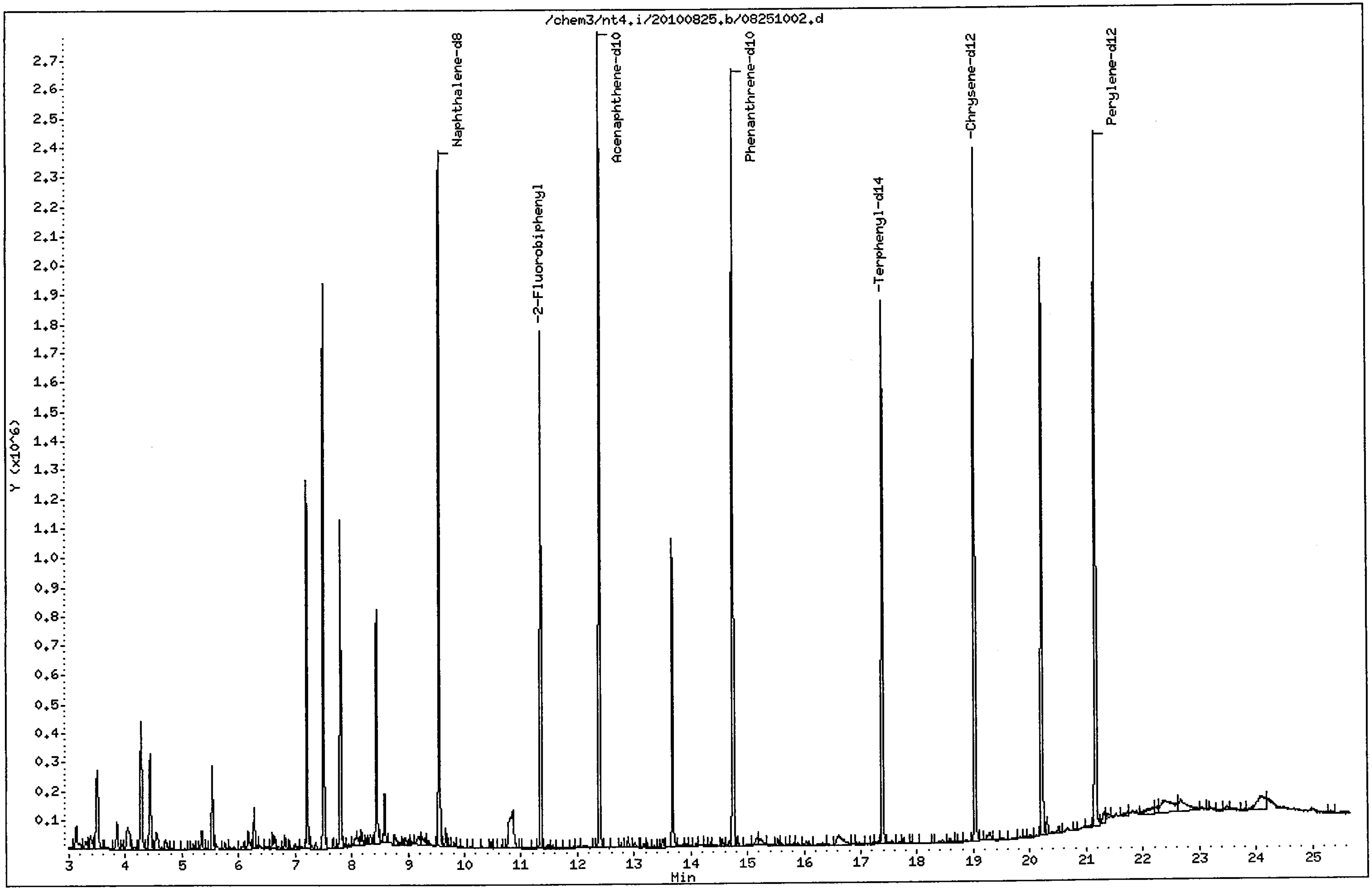
Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78MBS2
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

Client SDG: RG78
Fraction: SV
Client Smp ID: RG78MBS2
Operator: JZ
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	297.9	59.58	34-100
$ 66 Terphenyl-d14	500.0	371.6	74.32	35-112

Data File: /chem3/nt4.i/20100825.b/08251002.d
Date : 25-AUG-2010 11:42
Client ID: RG78MBS2
Sample Info: RG78MBS2,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100825.b/08251003.d
Lab Smp Id: RG78LCSS2 Client Smp ID: RG78LCSS2
Inj Date : 25-AUG-2010 12:16
Operator : JZ Inst ID: nt4.i
Smp Info : RG78LCSS2,
Misc Info : 10-18437
Comment : 1ul Injection
Method : /chem3/nt4.i/20100825.b/SW846100719.m
Meth Date : 26-Aug-2010 12:25 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/26/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.555	9.560	(1.000)	1722044	20.0000	
28 Naphthalene	128	9.584	9.589	(1.003)	1184701	14.4990	290.0
32 2-Methylnaphthalene	142	10.706	10.705	(1.121)	815366	14.6836	293.7
105 1-methylnaphthalene	142	10.871	10.876	(1.138)	802884	14.7600	295.2
$ 36 2-Fluorobiphenyl	172	11.352	11.357	(0.916)	1021863	16.1362	322.7
40 Acenaphthylene	152	12.140	12.145	(0.979)	1300005	15.3279	306.6
* 42 Acenaphthene-d10	164	12.398	12.397	(1.000)	1033820	20.0000	
44 Acenaphthene	153	12.445	12.450	(1.004)	785262	14.2208	284.4
46 Dibenzofuran	168	12.704	12.708	(1.025)	1187900	16.1387	322.8
49 Fluorene	166	13.256	13.261	(1.069)	960818	15.0870	301.7
* 59 Phenanthrene-d10	188	14.748	14.747	(1.000)	1584991	20.0000	
60 Phenanthrene	178	14.783	14.788	(1.002)	1317548	16.0465	320.9
61 Anthracene	178	14.854	14.858	(1.007)	1355312	16.1356	322.7
64 Fluoranthene	202	16.704	16.703	(1.133)	1438202	16.9057	338.1
65 Pyrene	202	17.051	17.050	(0.896)	1474302	17.8869	357.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.385	17.384	(0.914)	987076	19.6110	392.2
	68 Benzo(a)anthracene	228	19.001	19.006	(0.998)	1355206	17.7857	355.7
*	69 Chrysene-d12	240	19.030	19.029	(1.000)	1299858	20.0000	
	71 Chrysene	228	19.066	19.070	(1.002)	1293140	17.3397	346.8
	187 Total Benzofluoranthenes	252	20.681	20.680	(0.977)	2892440	33.6220	672.4
	76 Benzo(a)pyrene	252	21.086	21.091	(0.996)	1314412	16.3288	326.6
*	77 Perylene-d12	264	21.174	21.168	(1.000)	1457844	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.537	22.542	(1.064)	1693411	19.5914	391.8
	79 Dibenzo(a,h)anthracene	278	22.561	22.566	(1.065)	1373867	19.7715	395.4
	80 Benzo(g,h,i)perylene	276	22.878	22.883	(1.080)	1467445	19.8612	397.2

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08251003.d
Lab Smp Id: RG78LCSS2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

Calibration Date: 25-AUG-2010
Calibration Time: 10:54
Client Smp ID: RG78LCSS2
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1722044	33.14
42 Acenaphthene-d10	785897	392948	1571794	1033820	31.55
59 Phenanthrene-d10	1313990	656995	2627980	1584991	20.62
69 Chrysene-d12	1155293	577646	2310586	1299858	12.51
77 Perylene-d12	1146289	573144	2292578	1457844	27.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.56	9.06	10.06	9.55	-0.05
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.01
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.01
69 Chrysene-d12	19.03	18.53	19.53	19.03	0.01
77 Perylene-d12	21.17	20.67	21.67	21.17	0.03

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG78LCSS2
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

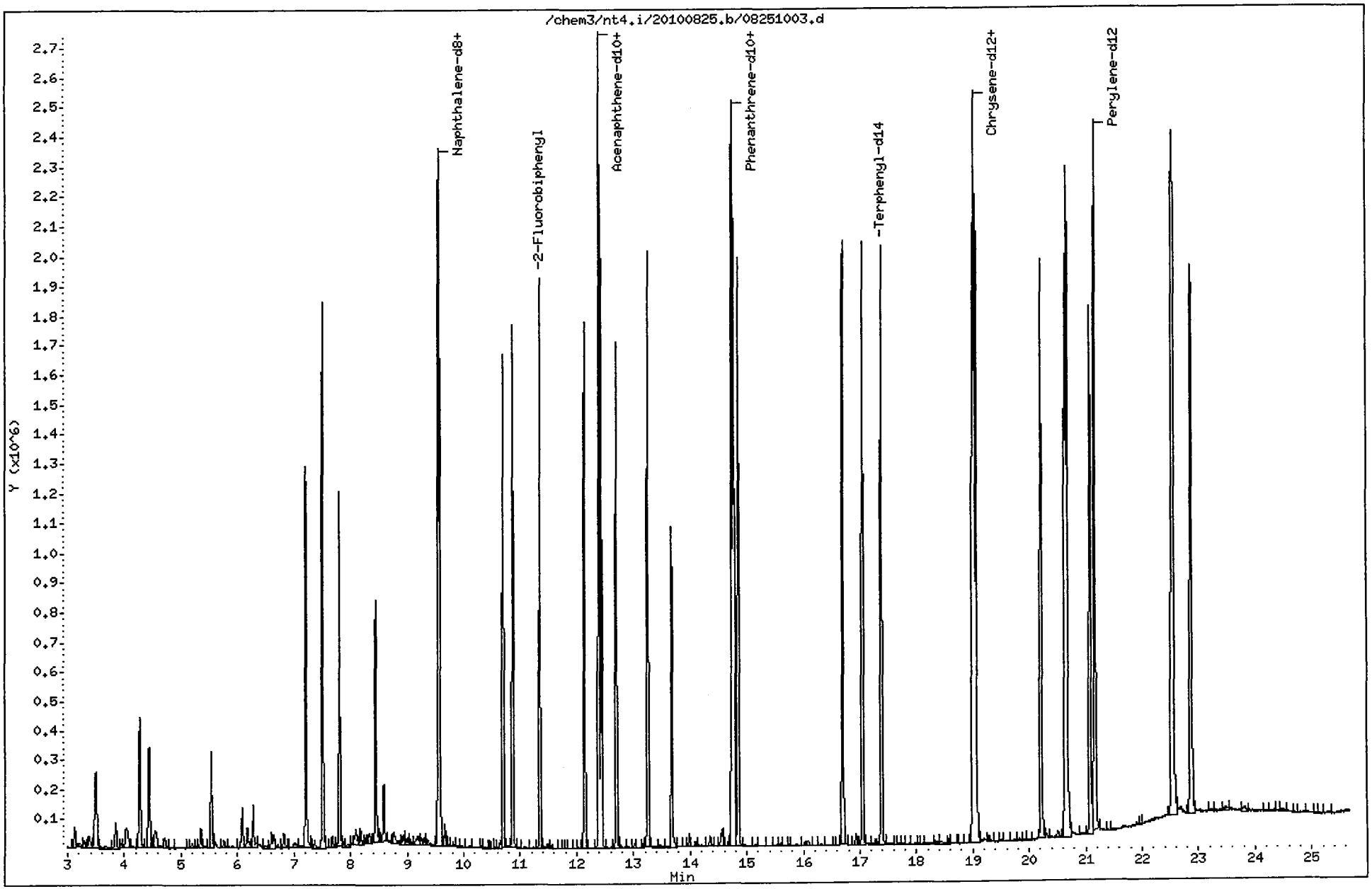
Client SDG: RG78
Fraction: SV
Client Smp ID: RG78LCSS2
Operator: JZ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	500.0	290.0	58.00	37-100
32 2-Methylnaphthalen	500.0	293.7	58.73	43-101
105 1-methylnaphthalen	500.0	295.2	59.04	39-100
40 Acenaphthylene	500.0	306.6	61.31	44-100
44 Acenaphthene	500.0	284.4	56.88	41-100
46 Dibenzofuran	500.0	322.8	64.55	44-100
49 Fluorene	500.0	301.7	60.35	49-100
60 Phenanthrene	500.0	320.9	64.19	48-100
61 Anthracene	500.0	322.7	64.54	50-100
64 Fluoranthene	500.0	338.1	67.62	54-100
65 Pyrene	500.0	357.7	71.55	41-105
68 Benzo(a)anthracene	500.0	355.7	71.14	49-100
71 Chrysene	500.0	346.8	69.36	50-100
187 Total Benzofluoran	1000	672.4	67.24	30-160
76 Benzo(a)pyrene	500.0	326.6	65.32	50-100
78 Indeno(1,2,3-cd)py	500.0	391.8	78.37	33-101
79 Dibenzo(a,h)anthra	500.0	395.4	79.09	37-104
80 Benzo(g,h,i)peryle	500.0	397.2	79.44	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	322.7	64.54	34-100
$ 66 Terphenyl-d14	500.0	392.2	78.44	35-112

Data File: /chem3/nt4.i/20100825.b/08251003.d
Date : 25-AUG-2010 12:16
Client ID: RG78LCSS2
Sample Info: RG78LCSS2,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100825.b/08251004.d
Lab Smp Id: RG78ERE Client Smp ID: PSB9A-0-0.5-073010
Inj Date : 25-AUG-2010 12:49
Operator : JZ Inst ID: nt4.i
Smp Info : RG78ERE
Misc Info : 10-18437
Comment : 1ul Injection
Method : /chem3/nt4.i/20100825.b/SW846100719.m
Meth Date : 25-Aug-2010 19:08 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

LZ 08/24/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	15.00000	Weight of sample extracted (g)
M	3.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.553	9.560	(1.000)	1762005	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	142	Compound Not Detected.					
105 1-methylnaphthalene	142	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	11.351	11.357	(0.916)	863600	13.4213	463.6
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	12.397	12.397	(1.000)	1050442	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.746	14.747	(1.000)	1580793	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.384	17.384	(0.914)	627957	12.3313	426.0
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	19.023	19.029	(1.000)	1315117	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	21.173	21.168	(1.000)	1466690	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08251004.d
Lab Smp Id: RG78ERE
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

Calibration Date: 25-AUG-2010
Calibration Time: 10:54
Client Smp ID: PSB9A-0-0.5-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1762005	36.23
42 Acenaphthene-d10	785897	392948	1571794	1050442	33.66
59 Phenanthrene-d10	1313990	656995	2627980	1580793	20.30
69 Chrysene-d12	1155293	577646	2310586	1315117	13.83
77 Perylene-d12	1146289	573144	2292578	1466690	27.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.56	9.06	10.06	9.55	-0.07
42 Acenaphthene-d10	12.40	11.90	12.90	12.40	0.00
59 Phenanthrene-d10	14.75	14.25	15.25	14.75	0.00
69 Chrysene-d12	19.03	18.53	19.53	19.02	-0.03
77 Perylene-d12	21.17	20.67	21.67	21.17	0.02

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

Analytical Resources, Inc.

RECOVERY REPORT

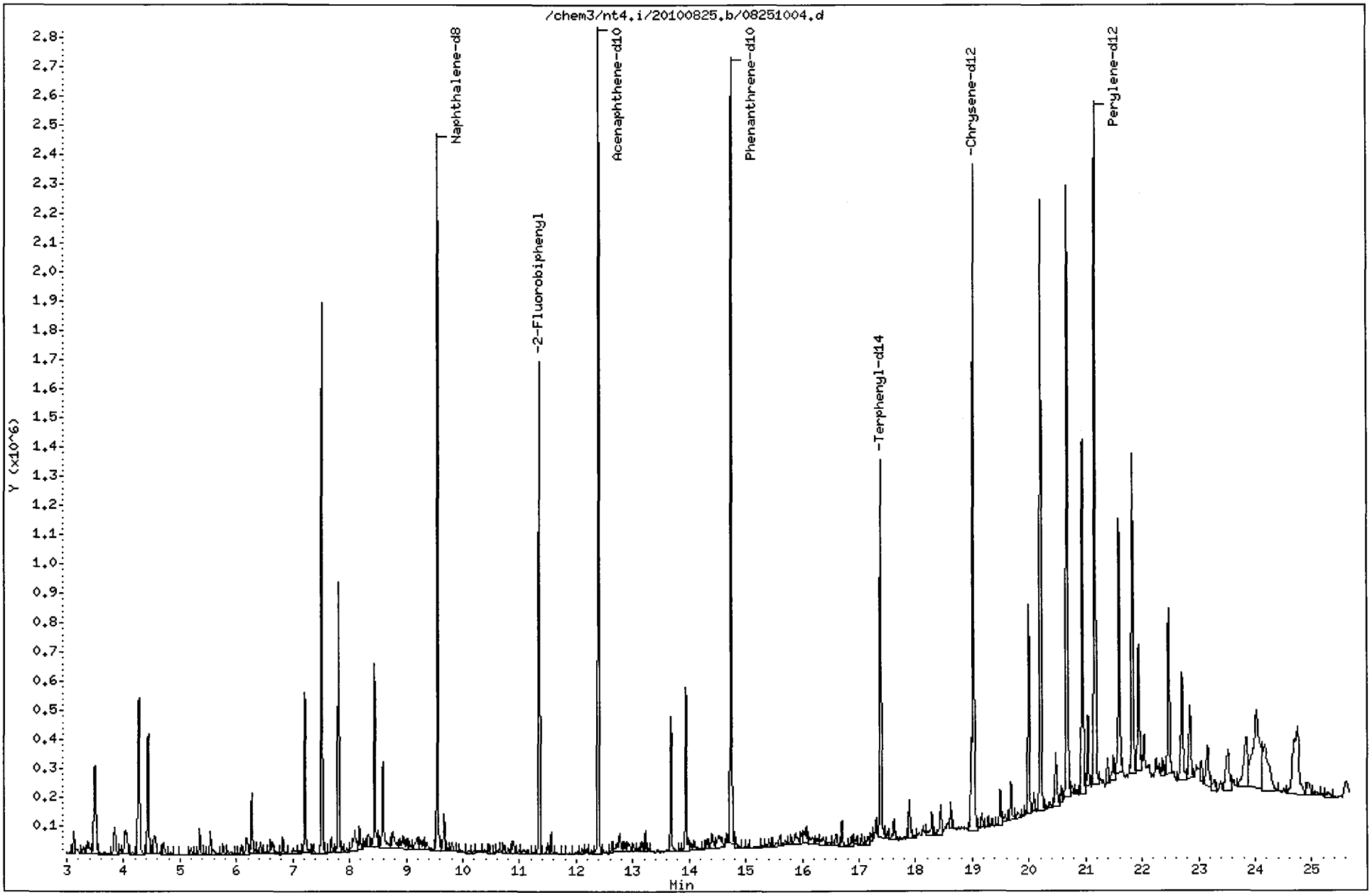
Client Name: Floyd/Snider
Client SDG: RG78
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG78ERE
Client Smp ID: PSB9A-0-0.5-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100825.b/SW846100719.m
Misc Info: 10-18437

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	863.6	463.6	53.69	34-100
$ 66 Terphenyl-d14	863.6	426.0	49.33	35-112

Data File: /chem3/nt4.i/20100825.b/08251004.d
Date : 25-AUG-2010 12:49
Client ID: PSB9A-0-0.5-073010
Sample Info: RG78ERE
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RG78:08912



PCP/Chlorophenols Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – Soil / Sediment
Sonication (3550B) (SOP # 3304S)

Preparation Test PCP # 3

ARI Job No(s) RG78

In-House (6.25ppb)
Batch set up by: JP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Sonic Horn ID	KD **Exchange To Hexane (X2)**	Turbo Vap 103	Final Effective Volume	Volume to Lab	Derivitize	Comments
	RG78 MB	Date 8/12/12	10.00g	1			25mL	1-2mL		
	SB	↓	↓	2						
#7	A	verified	10.10g	3						
	B		10.29g	4						
	C		10.20g	5						
	D		10.45g	6						
	E		10.21g	7						
	F		10.62g	8						
	G		10.22g	9						
	H		10.07g	10						
	I		10.18g	1						
#18	J		10.17g	2						
	JMS		10.23g	3						
	JMSD		10.40g	4						
#7	K		10.95g	5						
	L		10.04g	6						
	S		10.88g	7						
Analyst/Date	TH 8/12/12				RR/TS 8/16/12	08/16/10	08/16/10	08/16/10		

+C 8-13-12 Sonication →

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F 1683-3	50µL 12.5	12/9/10		TH
Spike	6 1702-2	50µL 12.5/125	2/18/11		TH
Extraction Time: 13:55	Balance ID: 3804092	Derivitized by:		Diazald ID:	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Use neutral sulfate to dry samples.

3. Acidify all with ¼ pipet conc. Sulfuric Acid. 4. Add surr/spike. 5. Leave in DCM overnight. 6. Extract 3X DCM.

7. Pour directly into KD (NO Glasswool). 8. KD to 5mL at 80°. 9. Exchange (2 X with 20mL) Hexane at 100°.

10. *Note: if filtering is necessary: Pre-rinse filter with 0.05% HCL in Acetone+Post Rinse with Hexane or centrifuge.

11. Turbo Vap to 1mL 11. Vial using a pipet into Herb Tubes with a Hexane rinse. 12. GC Analyst to Derivitize.

A. Need Total Solids Y / (N) B. Archive / Freeze Y / (N)

5 ppl

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG 78

Client ID: Floyd / Snider

Parameter: PCP

Client Project: Lara Lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: ~~Soil~~/Sediment/Solid/Other: Soil	WC 8/17/10
☒ No Anomalies (standard soil/sediment) A, C, D	↓
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☒ Rocks/Organics= Rock (B, E, F G H I J K L S)	WC 8/17/10
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Serial # 555 00546

REQUEST FOR RE-EXTRACTION / RE-ANALYSIS
(Organic Analyses)

Todays Date:	8/24/2010	**Client Name:**	Floyd/Snider
ARI Project Number:	RG78	**Client Project:**	Lora Lake RI
Analysis:	PCP	**Turn Around Time:**	8/11/2010
Project Manager:	Sue	**Date Sampled:**	7/30/2010
Sample Matrix	Soil		

Criteria Flagged

Unacceptable Blank:	☐	**Unacceptable Surrogate:**	☒
Unacceptable Duplicate:	☐	**Instrument Problem:**	☐
Unacceptable Spike:	☐	**Other:**	☐
Overwrite LIMS:	☐	**Enter as Re-extract:**	☐

Details of Problem / Recommended Corrective Action

Sample has ~~no~~ low to no surr recovery. 5-12.4 ER
AR 8/24

Samples Affected

5

Corrective Action Taken

Re-extract at same level

Analyst: AR
Date: 8/24/2010

Supervisor:
Date: 8/24/10

Form 0030F

Revision 005
6/26/08

RG78 : 00946

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – Soil / Sediment
Sonication (3550C) (SOP # 3304S)

Preparation Test PCP # 3

ARI Job No(s) RG78(RX) / RG94 (RX)

In-House (6.25ppb)
Batch set up by: ~~SH~~

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Sonic Horn ID + Check	KD Exchange To Hexane (X 2)	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Derivitize	Comments
	RG78(RX) MB	Date 08/27/10	10.00g	1			25mL	1-2mL		
	SB	↓	↓	2			↓	↓		
2	S2	checked	10.08	3						
6	RG94(RX) A2		10.07	4						
6	E2		10.01	5						
7	F2		10.00	6						
					CJZ					
Analyst/Date	08/27/10 →				8/28/10	SE	8/30/10 →			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F	50µL	12/24/14		WD 8/27/10
Spike	6	50µL	2/18/11		WD 8/27/10
Extraction Time: 10:18	Balance ID: 21754520		Derivitized by:		Diazald ID:

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Use neutral sulfate to dry samples.

3. Acidify all with ¼ pipet conc. Sulfuric Acid. 4. Add surr/spike. 5. Leave in DCM overnight. 6. Extract 3X DCM.

7. Pour directly into KD (NO Glasswool). 8. KD to 5mL at 80°. 9. Exchange (2 X with 20mL) Hexane at 100°.

10. *Note: if filtering is necessary: Pre-rinse filter with 0.05% HCL in Acetone+Post Rinse with Hexane or centrifuge.

11. Turbo Vap to 1mL 11. Vial using a pipet into Herb Tubes with a Hexane rinse. 12. GC Analyst to Derivitize.

A. Need Total Solids Y (N) B. ~~Archive~~ Freeze Y / N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG78(RX)/RG94(RX) Client ID: Floyd/Snider

Parameter: PCP Client Project: Lora Lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

PCP/Chlorophenols Raw Data
Initial Calibration

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: PCP Curve Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): _____

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

Dates: Curve: 8/9/2010 Analysis Start: 8/11/2010

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? ~~YES / NO~~ (NA)

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? AP 8/12/10 ~~YES / NO~~ (NA)

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):

2nd col : Quadratic-forced : 2,4-Dichlorophenol, 2,4,5-Trichlorophenol, 2,3,4-Trichlorophenol

1st col : Quadratic-forced : 2,4-Dichlorophenol, 2,4,6-TCP, 2,3,6-TCP, 2,3,4,5-Tetrachlorophenol, Pentachlorophenol & 2,4,6-Tribromophenol.

Additional Details on Reverse: Yes / (No)

Analyst: _____ **Date:** 8/12/2010

Reviewer: _____ **Date:** 8/13/10

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/9/2010 Analysis: ~~Herbicides~~ Cl. Phenols AR 8/11/2010 Analyst: AR

GC Program: HERB.M & Column No: 150608/148146 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): ~~AR~~ PCPFAST.M EM Voltage: NA

Calibration File: ~~HERB20100802~~FPCP20100809.b Curve Date: ~~8/2/2010~~ AR 8/9/2010

IS/SS AR	Ical/Ccal	LCS/ICV
	1663-2	1703-2
	1739-1	1731-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	09-AUG-2010 12:23	0809A005.d	1	PCPD	
2	09-AUG-2010 12:43	0809A006.d	1	PCPA	
3	09-AUG-2010 13:03	0809A007.d	1	PCPB	
4	09-AUG-2010 13:23	0809A008.d	1	PCPC	
5	09-AUG-2010 13:43	0809A009.d	1	PCPE	
6	09-AUG-2010 14:03	0809A010.d	1	PCPF	
7	09-AUG-2010 14:23	0809A011.d	1	PCP ICV	

AR 8/12/2010

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	09-AUG-2010 12:23	0809A005.d	1	PCPD	
2	09-AUG-2010 12:43	0809A006.d	1	PCPA	
3	09-AUG-2010 13:03	0809A007.d	1	PCPB	
4	09-AUG-2010 13:23	0809A008.d	1	PCPC	
5	09-AUG-2010 13:43	0809A009.d	1	PCPE	
6	09-AUG-2010 14:03	0809A010.d	1	PCPF	
7	09-AUG-2010 14:23	0809A011.d	1	PCP ICV	

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Batch File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b
Inst ID: ecd1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A011
INJ.DATE:	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010
INJ.TIME:	12:23	12:43	13:03	13:23	13:43	14:03	14:23

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	6.887	6.897	6.893	6.890	6.884	6.884	6.888	6.893	6.823-6.963	6.889	0.005
2 2,4,6-Trichlorophenol	7.261	7.263	7.264	7.263	7.259	7.260	7.262	7.264	7.194-7.334	7.262	0.002
3 2,3,6-Trichlorophenol	7.615	7.622	7.619	7.617	7.611	7.612	7.616	7.619	7.549-7.689	7.616	0.004
4 2,4,5-Trichlorophenol	8.221	8.253	8.242	8.232	8.212	8.209	8.230	8.242	8.172-8.312	8.228	0.016
5 2,3,4-Trichlorophenol	8.770	8.806	8.792	8.780	8.760	8.756	8.781	8.792	8.722-8.862	8.778	0.017
6 2,3,5,6-Tetrachlorophe	8.996	9.013	9.007	9.002	8.990	8.990	9.000	9.007	8.937-9.077	9.000	0.009
$ 7 2,4,6-Tribromophenol (	9.990	10.010	10.002	9.996	9.984	9.983	9.997	10.002	9.932-10.072	9.995	0.010
8 2,3,4,5-Tetrachlorophe	10.397	10.421	10.413	10.406	10.389	10.387	10.405	10.413	10.343-10.483	10.402	0.012
9 Pentachlorophenol	11.212	11.225	11.219	11.215	11.206	11.206	11.215	11.219	11.149-11.289	11.214	0.007

Reviewer 1 AR Date: 8/12/2010
Reviewer 2 Date: 8/13/10

R678.0053

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Batch File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b
Inst ID: ecd1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A011
INJ.DATE:	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010
INJ.TIME:	12:23	12:43	13:03	13:23	13:43	14:03	14:23

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	7.156	7.166	7.163	7.160	7.153	7.153	7.158	7.166	7.096-7.236	7.158	0.005
2 2,4,6-Trichlorophenol	7.329	7.333	7.333	7.331	7.327	7.328	7.330	7.333	7.263-7.403	7.330	0.002
3 2,3,6-Trichlorophenol	7.858	7.864	7.862	7.860	7.855	7.856	7.859	7.864	7.794-7.934	7.859	0.003
4 2,4,5-Trichlorophenol	8.593	8.615	8.607	8.600	8.586	8.584	8.599	8.615	8.545-8.685	8.598	0.011
5 2,3,5,6-Tetrachlorophe	9.262	9.277	9.270	9.266	9.256	9.257	9.265	9.277	9.207-9.347	9.265	0.007
6 2,3,4-Trichlorophenol	9.359	9.380	9.373	9.365	9.351	9.349	9.365	9.380	9.310-9.450	9.363	0.011
$ 7 2,4,6-Tribromophenol (	10.632	10.646	10.640	10.636	10.626	10.627	10.636	10.646	10.576-10.716	10.635	0.007
8 2,3,4,5-Tetrachlorophe	11.109	11.126	11.119	11.115	11.103	11.103	11.114	11.126	11.056-11.196	11.113	0.009
9 Pentachlorophenol	11.649	11.658	11.654	11.652	11.645	11.646	11.652	11.658	11.588-11.728	11.651	0.005

Reviewer 1 AR Date: 8/12/2010
Reviewer 2 [signature] Date: 8/13/10

RG78:00954

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

ARI Job No.: PCPD Method: FPCP.m Instrument: ecd1.i Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1303	0809A007.d	PCPB		1	2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-2.b

ARI Job No.: PCPD Method: FPCPB.m Instrument: ecd1.i Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1303	0809A007.d	PCPB		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	2,3,4-Trichlorophenol,

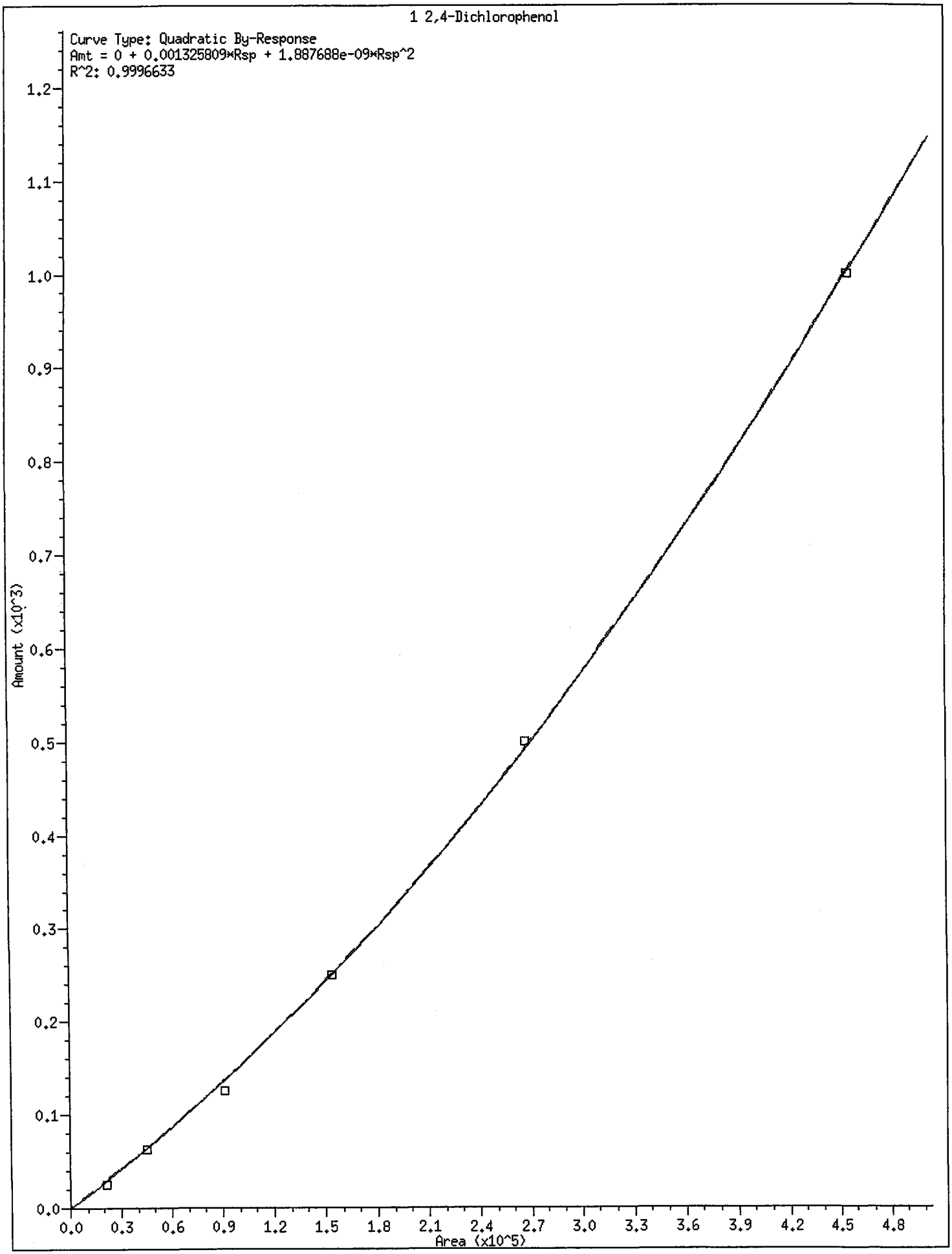
Analytical Resources, Inc.

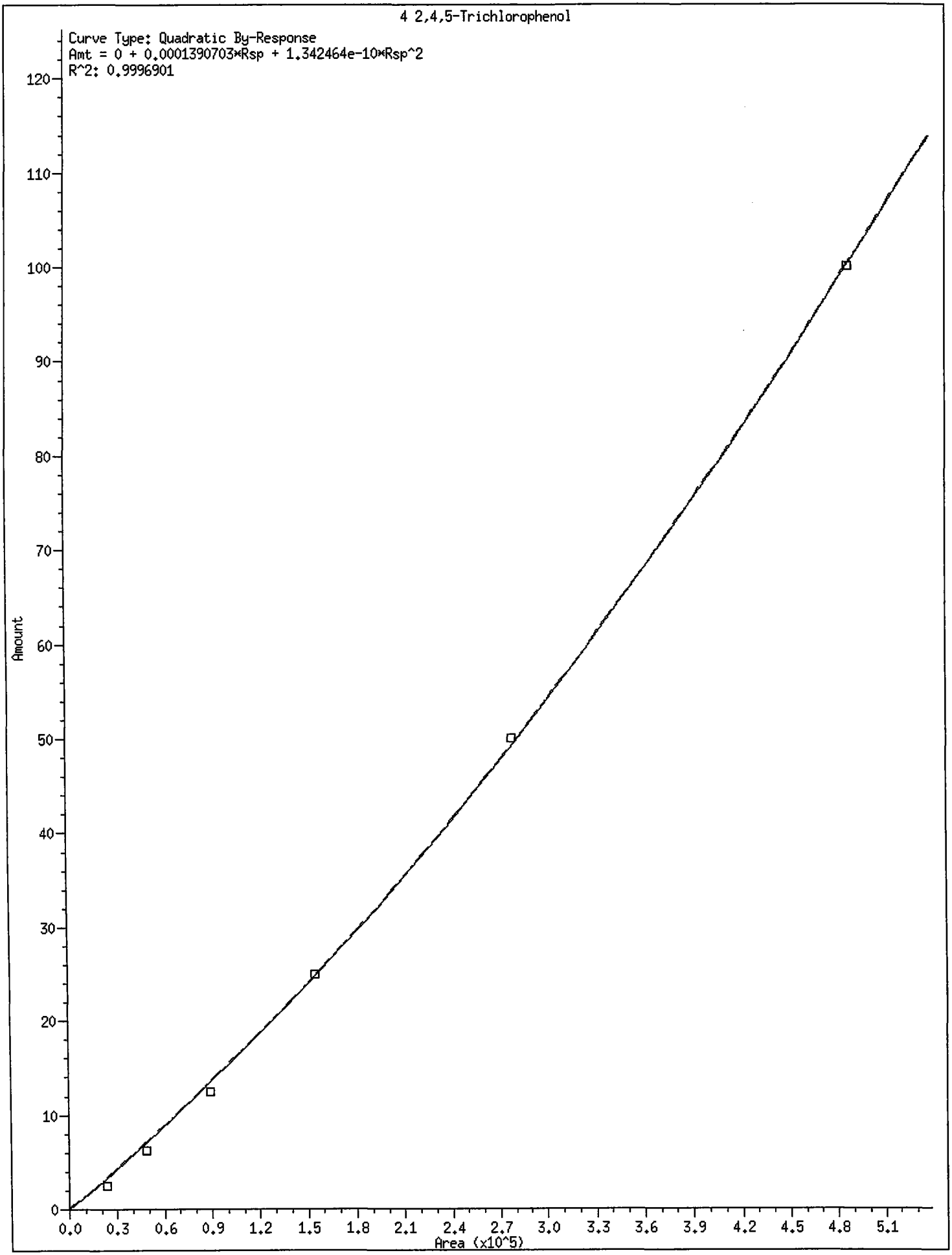
INITIAL CALIBRATION DATA AR 8/12/2010

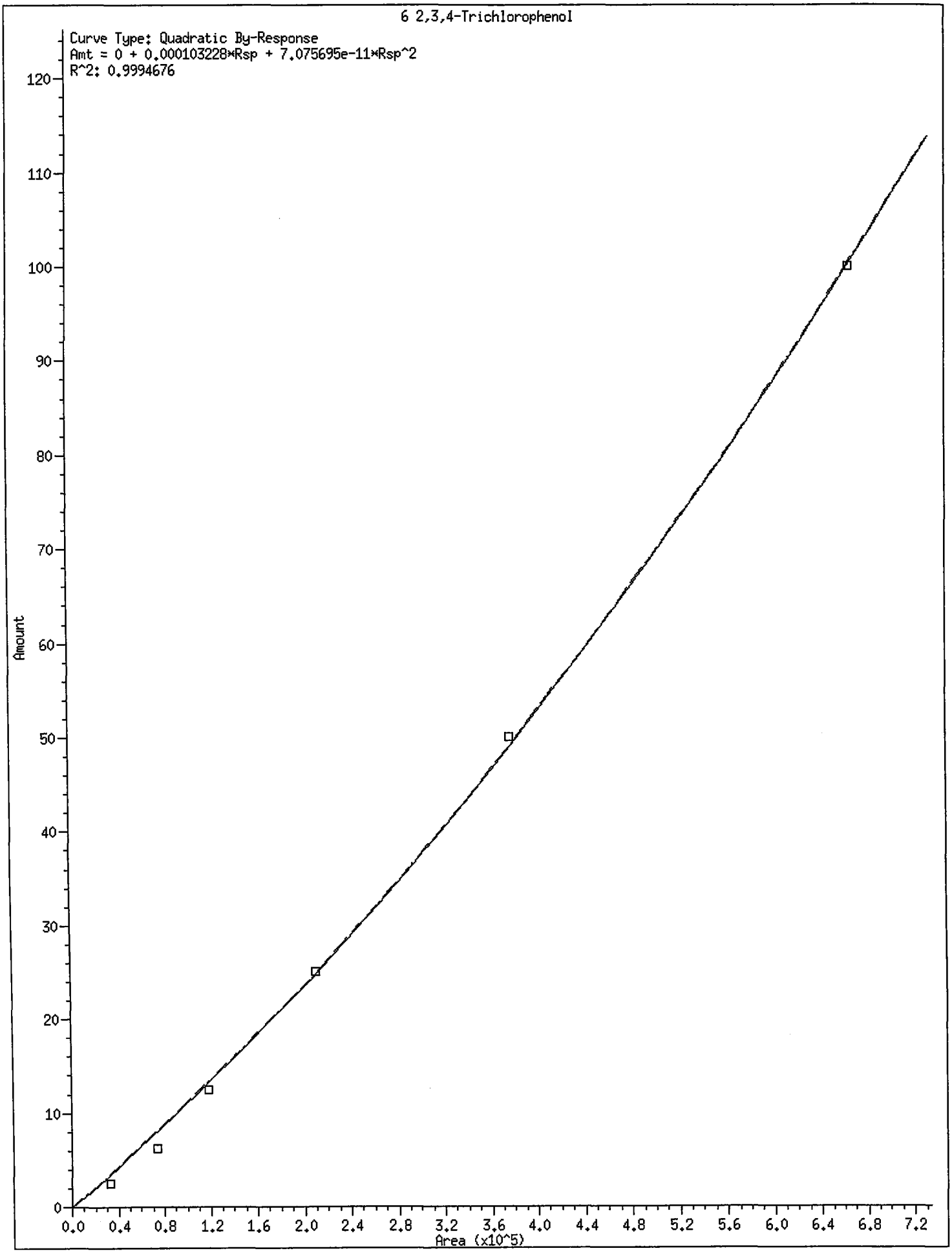
Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

	Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
1	2,4-Dichlorophenol	859	720	733	619	536	458	654	22.290	<-
2	2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	12485	13.991	
3	2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	12409	14.584	
4	2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	6832	24.049	<-
5	2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	18515	14.186	
6	2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	9482	26.352	<-
8	2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	14591	17.013	
9	Pentachlorophenol	28790	24995	23903	21206	20507	18368	22961	16.202	
$ 7	2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	18667	12.211	


1 2,4-Dichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.001325809*Rsp + 1.887688e-09*Rsp^2
R^2: 0.9996633
Amount (x10^3)
Area (x10^5)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8


4 2,4,5-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001390703*Rsp + 1.342464e-10*Rsp^2
R^2: 0.9996901
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1


6 2,3,4-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.000103228*Rsp + 7.075695e-11*Rsp^2
R^2: 0.9994676
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

	2	6	12	25	50	100		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
1 2,4-Dichlorophenol	21466	45023	91643	154741	267768	457854	QUAD	0.000e+00	0.00133	1.888e-09	0.99966
2 2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	AVRG		12485		13.99132
3 2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	AVRG		12409		14.58387
4 2,4,5-Trichlorophenol	23627	48273	89400	155087	278412	489569	QUAD	0.000e+00	0.00014	1.342e-10	0.99969
5 2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	AVRG		18515		14.18619
6 2,3,4-Trichlorophenol	32846	73211	117878	210189	376624	666942	QUAD	0.000e+00	0.00010	7.076e-11	0.99947
8 2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	AVRG		14591		17.01254
9 Pentachlorophenol	28790	24995	23903	21206	20507	18368	AVRG		22961		16.20188
7 2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	AVRG		18667		12.21092

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron

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

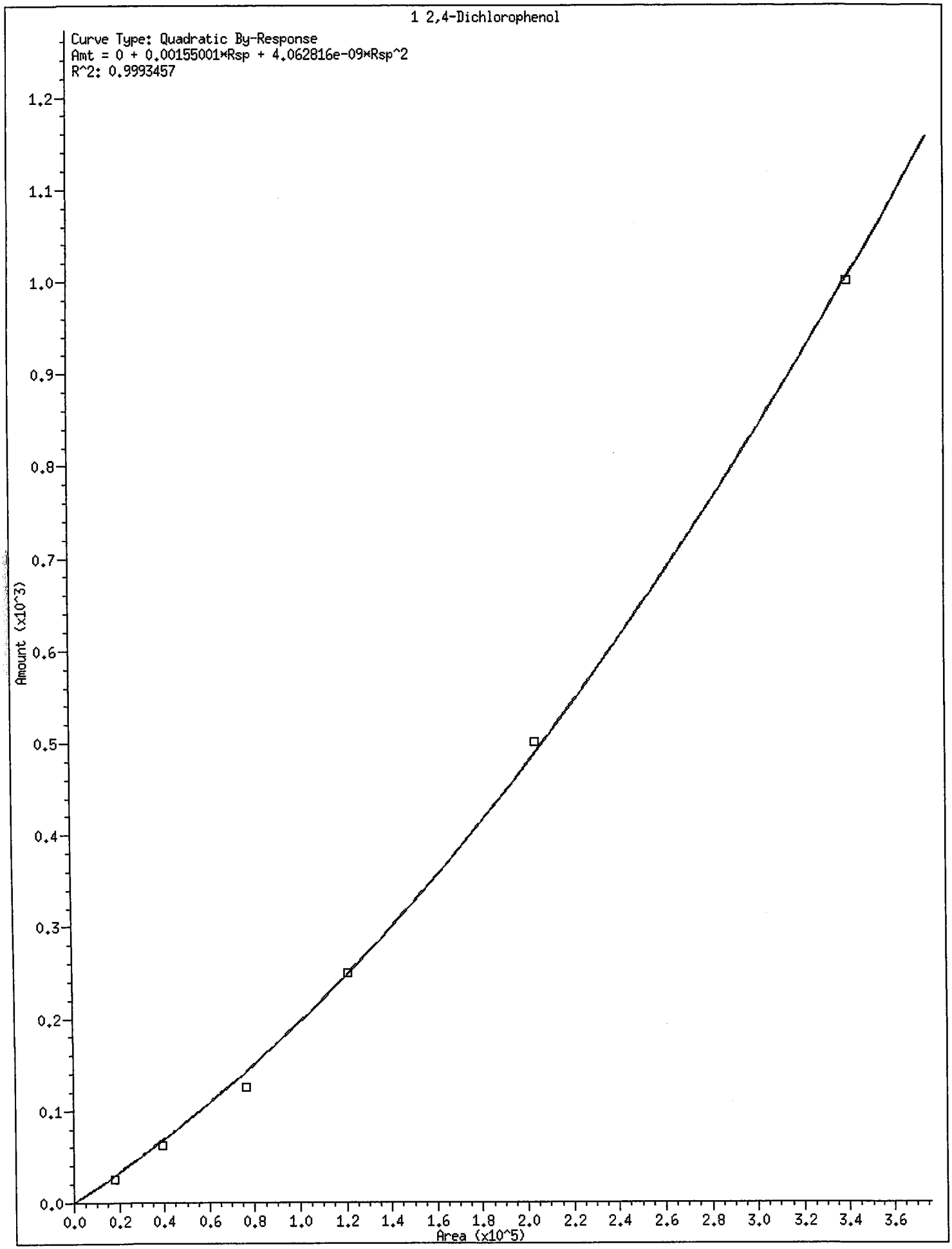
Analytical Resources, Inc.

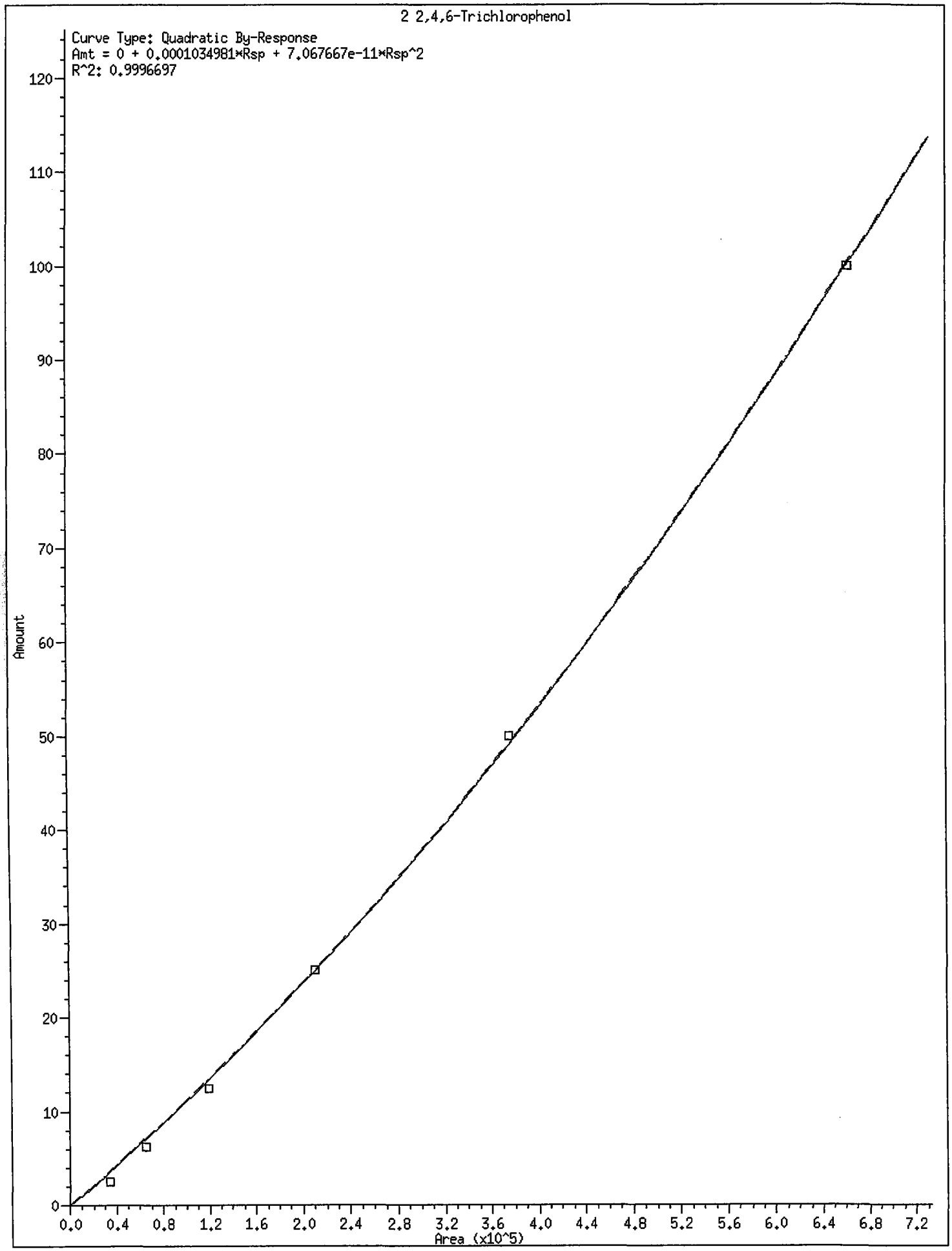
INITIAL CALIBRATION DATA

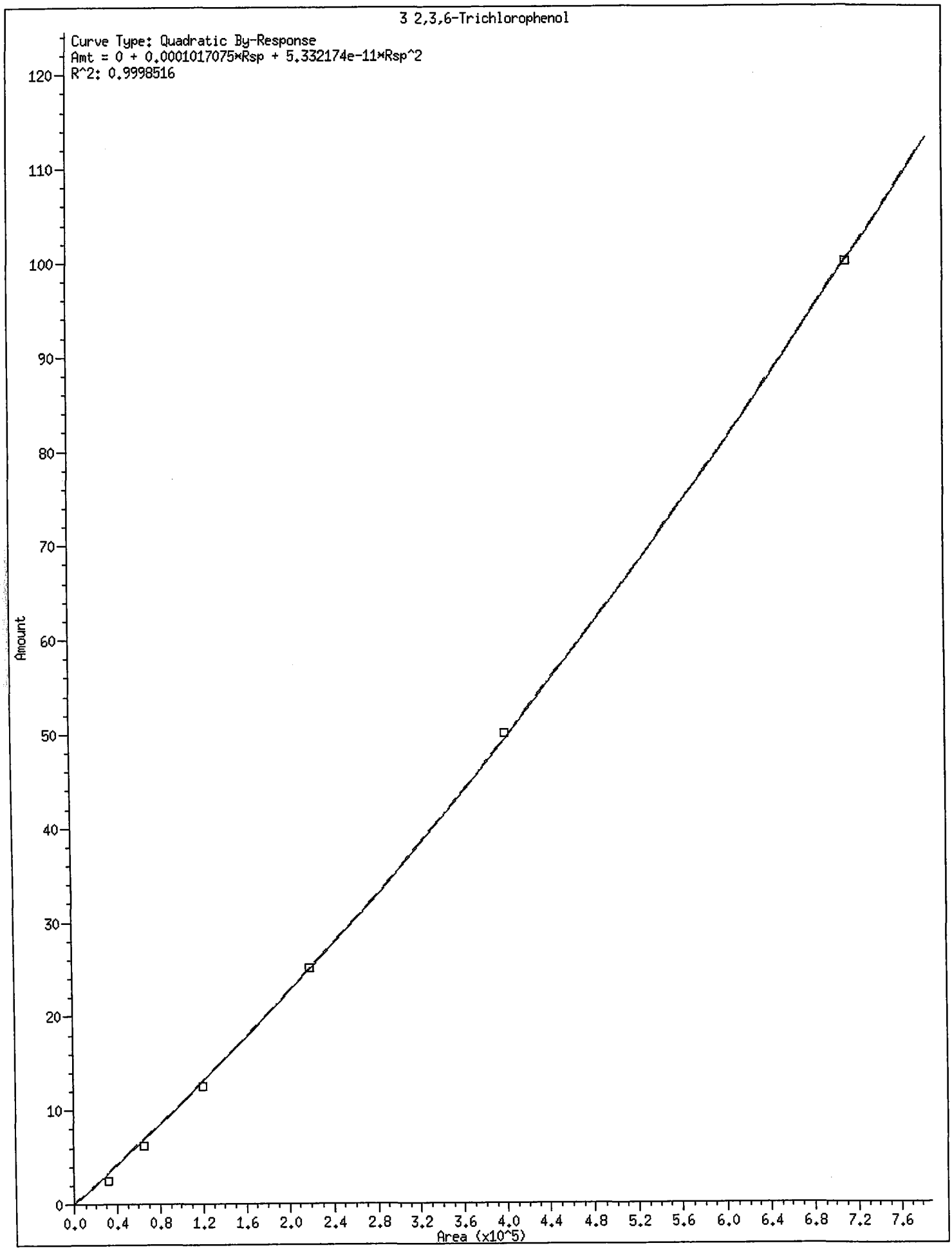
Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron
Curve Type : Average

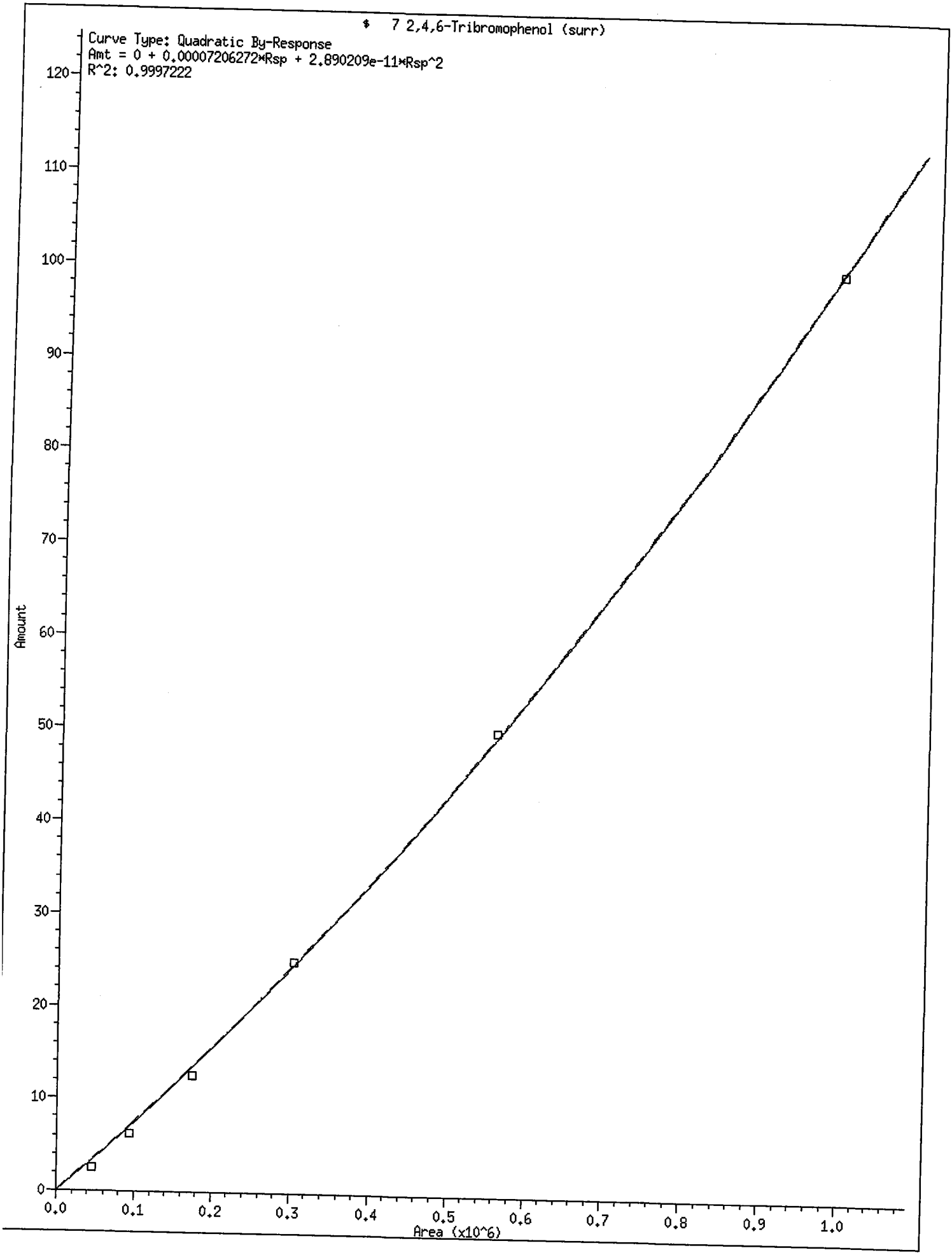
Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

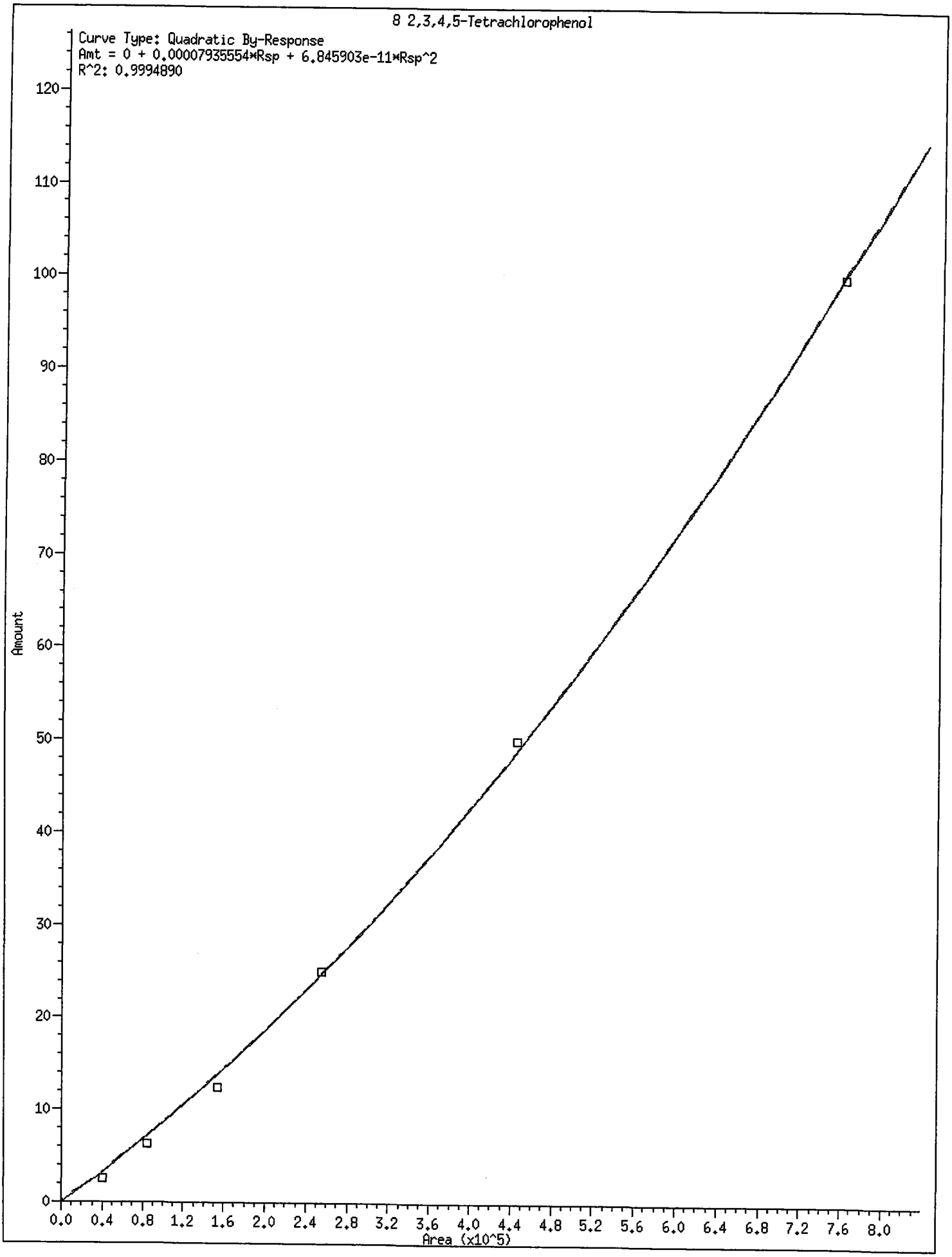
	Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	1 2,4-Dichlorophenol	721	627	611	486	409	342	533	27.140	<-
	2 2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	9364	26.271	<-
	3 2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	9499	21.431	<-
	4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	5048	19.727	
	5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	6841	19.373	
	6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	14106	18.400	
	8 2,3,4,5-Tetrachlorophenol	16324	13459	12294	10216	8895	7628	11469	27.892	<-
	9 Pentachlorophenol	24528	19824	17830	15337	13686	11965	17195	26.550	<-
$	7 2,4,6-Tribromophenol (surr)	18561	14999	13969	12135	11200	9940	13467	22.982	<-

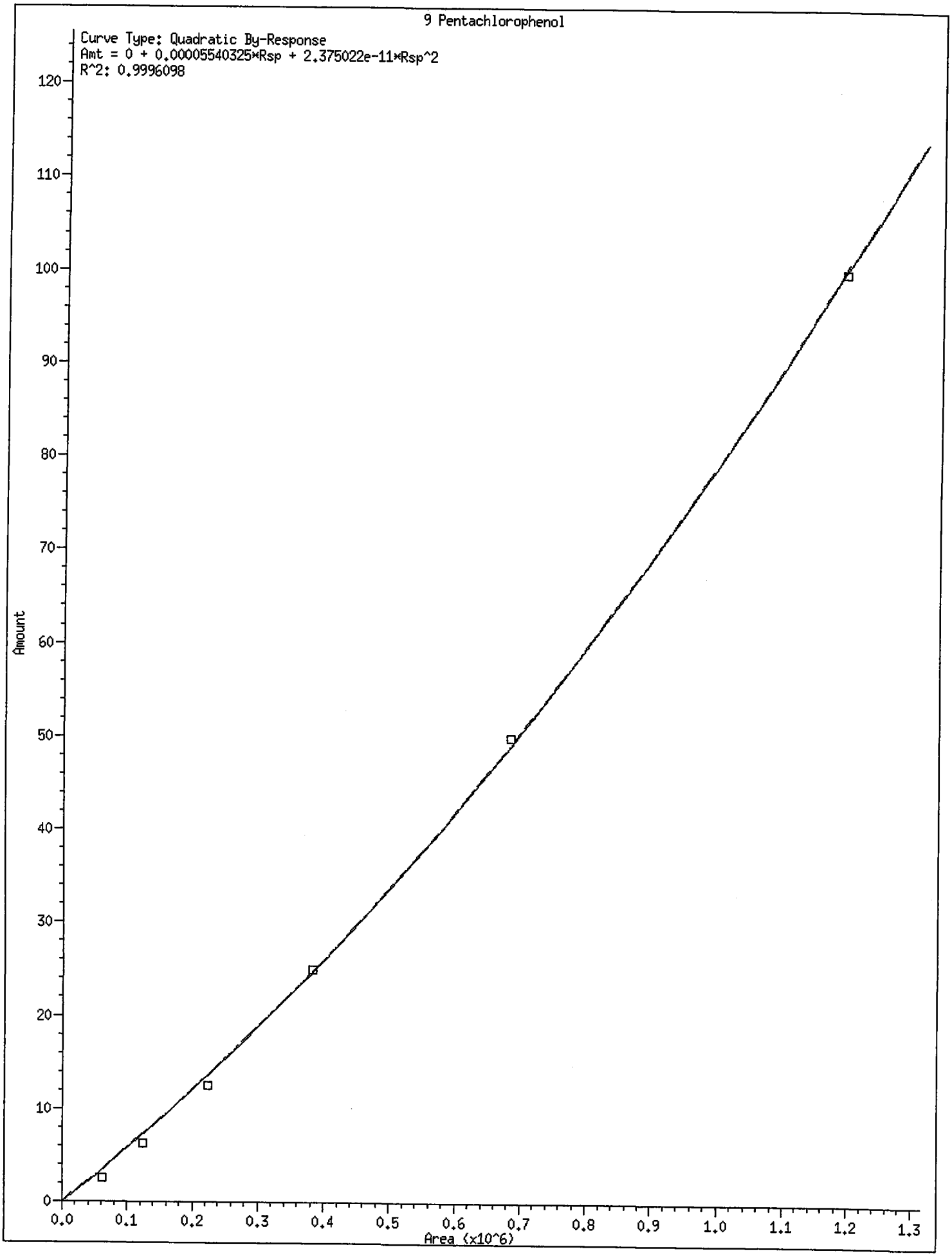

1 2,4-Dichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00155001*Rsp + 4.062816e-09*Rsp^2
R^2: 0.9993457
Amount (x10^3)
Area (x10^5)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6


2 2,4,6-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001034981*Rsp + 7.067667e-11*Rsp^2
R^2: 0.9996697
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2


3 2,3,6-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001017075*Rsp + 5.332174e-11*Rsp^2
R^2: 0.9998516
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6


$ 7 2,4,6-Tribromophenol (surr)
Curve Type: Quadratic By-Response
Amt = 0 + 0.00007206272*Rsp + 2.890209e-11*Rsp^2
R^2: 0.9997222
Amount
Area (x10^6)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0


8 2,3,4,5-Tetrachlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00007935554*Rsp + 6.845903e-11*Rsp^2
R^2: 0.9994890
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0


9 Pentachlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00005540325*Rsp + 2.375022e-11*Rsp^2
R^2: 0.9996098
Amount
Area (x10^6)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

	2	6	12	25	50	100		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
1 2,4-Dichlorophenol	18020	39212	76337	121400	204471	341711	QUAD	0.000e+00	0.00155	4.063e-09	0.99935
2 2,4,6-Trichlorophenol	33851	65457	119503	210327	376941	665977	QUAD	0.000e+00	0.00010	7.068e-11	0.99967
3 2,3,6-Trichlorophenol	32256	65624	120087	220036	401238	716085	QUAD	0.000e+00	0.00010	5.332e-11	0.99985
4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	AVRG		5048		19.72715
5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	AVRG		6841		19.37297
6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	AVRG		14106		18.40050
8 2,3,4,5-Tetrachlorophenol	40811	84118	153678	255392	444734	762767	QUAD	0.000e+00	0.00008	6.846e-11	0.99949
9 Pentachlorophenol	61320	123902	222874	383426	684285	1196534	QUAD	0.000e+00	0.00006	2.375e-11	0.99961
$ 7 2,4,6-Tribromophenol (surr)	46402	93741	174610	303374	559983	994034	QUAD	0.000e+00	0.00007	2.890e-11	0.99972

FCP1_3

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron

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

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/12/2010

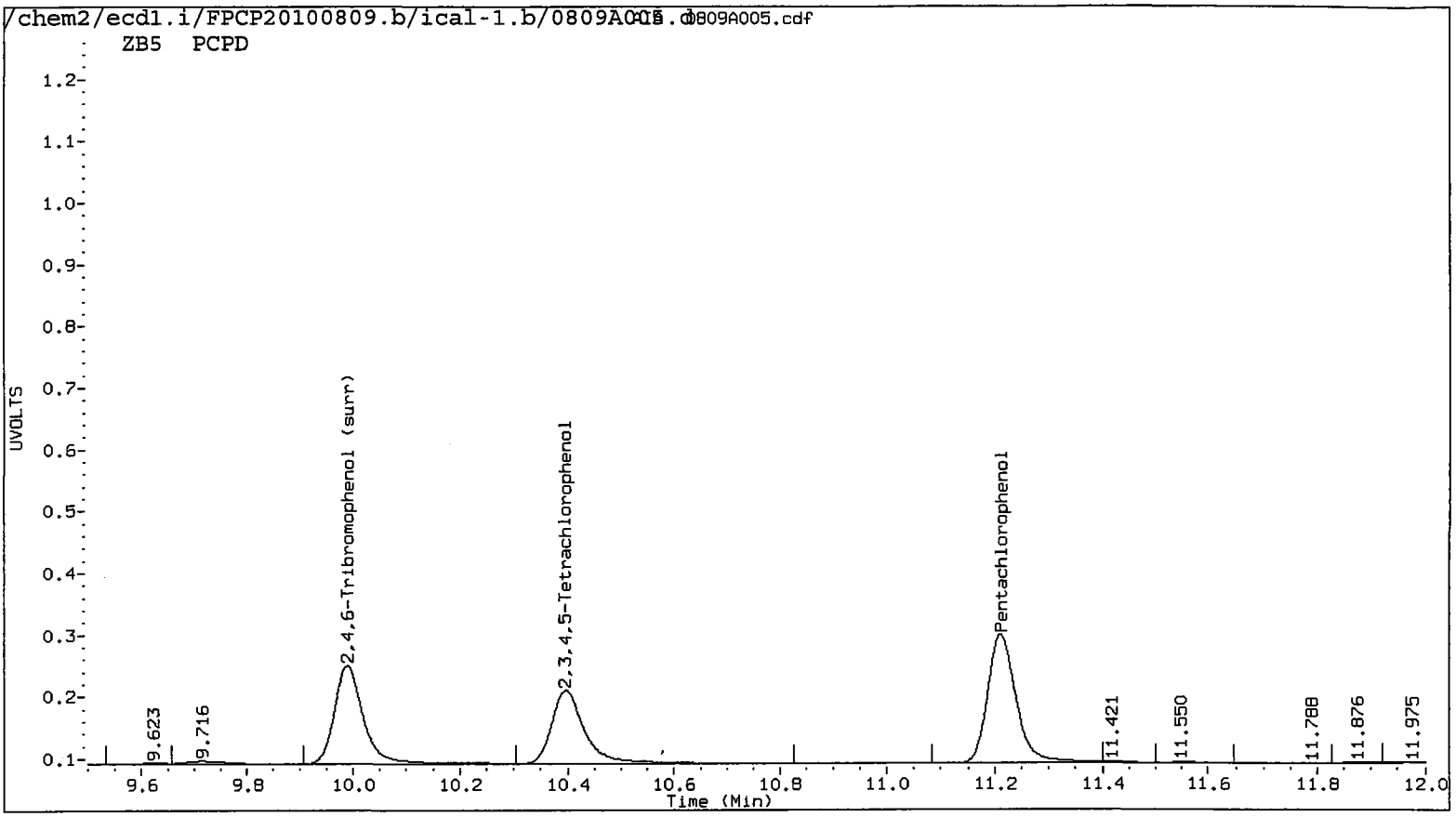
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d ARI ID: PCPD
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 09-AUG-2010 12:23
Report Date: 08/12/2010 19:15
Matrix: WATER
Dilution Factor: 1.000

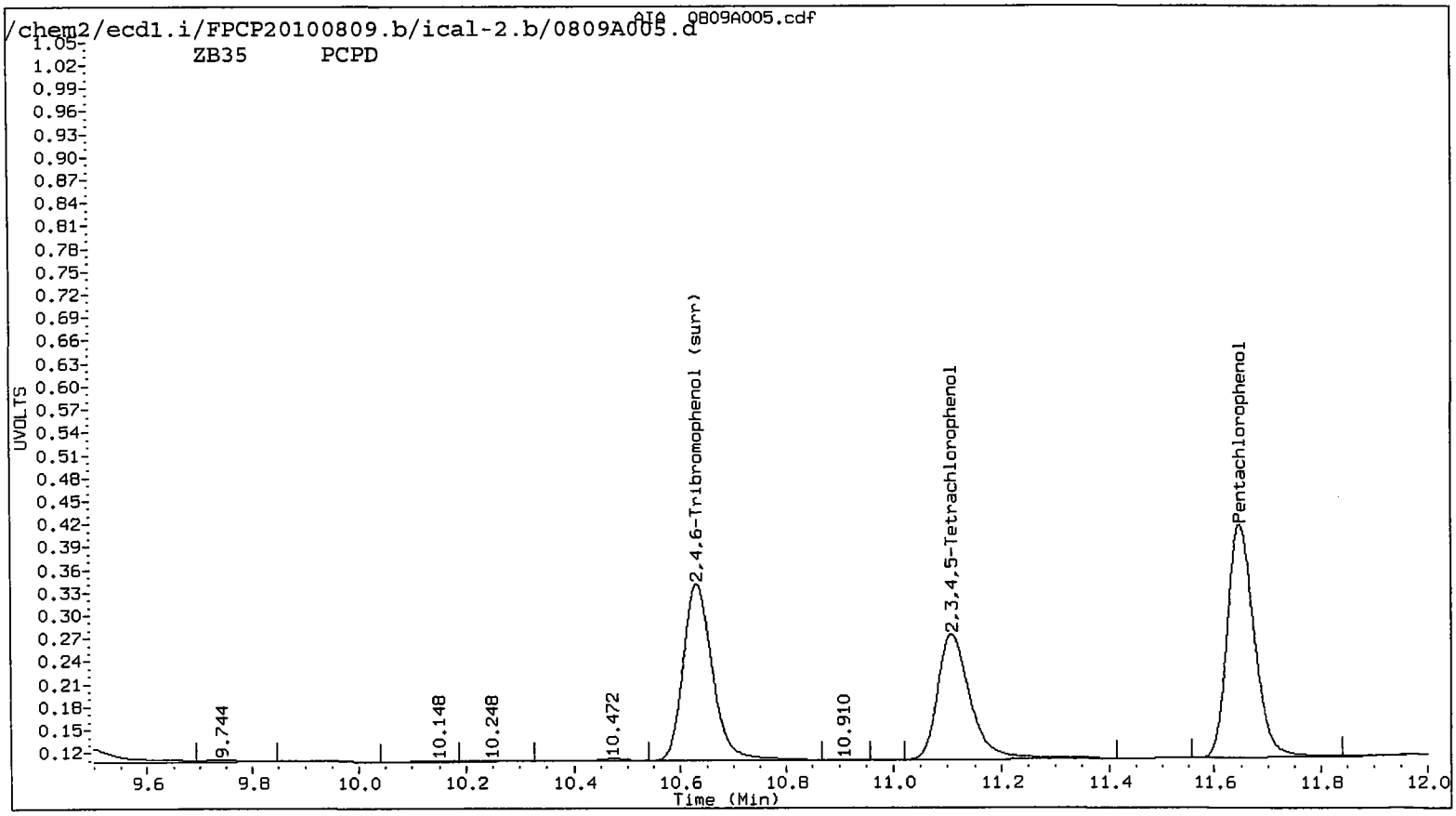
ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.212	-0.007	383426	11.649	-0.009	530145	24.7347	23.0885	6.9	Pentachlorophenol
7.261	-0.003	210327	7.329	-0.004	306027	24.8950	24.5124	1.5	2,4,6-Trichlorophenol
7.615	-0.004	220036	7.858	-0.006	301362	24.9609	24.2867	2.7	2,3,6-Trichlorophenol
8.221	-0.021	122872	8.593	-0.022	155087	24.3430	24.7969	1.8	2,4,5-Trichlorophenol
8.770	-0.022	198058	9.359	-0.021	210189	28.9512	24.8234	15.4	2,3,4-Trichlorophenol
8.996	-0.011	355822	9.262	-0.015	443336	25.2255	23.9449	5.2	2,3,5,6-Tetrachlorophenol
10.397	-0.016	255392	11.109	-0.017	338740	24.7320	23.2161	6.3	2,3,4,5-Tetrachlorophenol
6.887	-0.006	121400	7.156	-0.010	154741	248.0488	250.3573	0.9	2,4-Dichlorophenol
9.990	-0.012	303374	10.632	-0.014	444822	24.5	23.8	2.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	98.1	95.3

RG78:00972


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d
AIA 0809A005.cdf
ZB5 PCPD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.623
9.716
11.421
11.550
11.788
11.876
11.975
Time (Min)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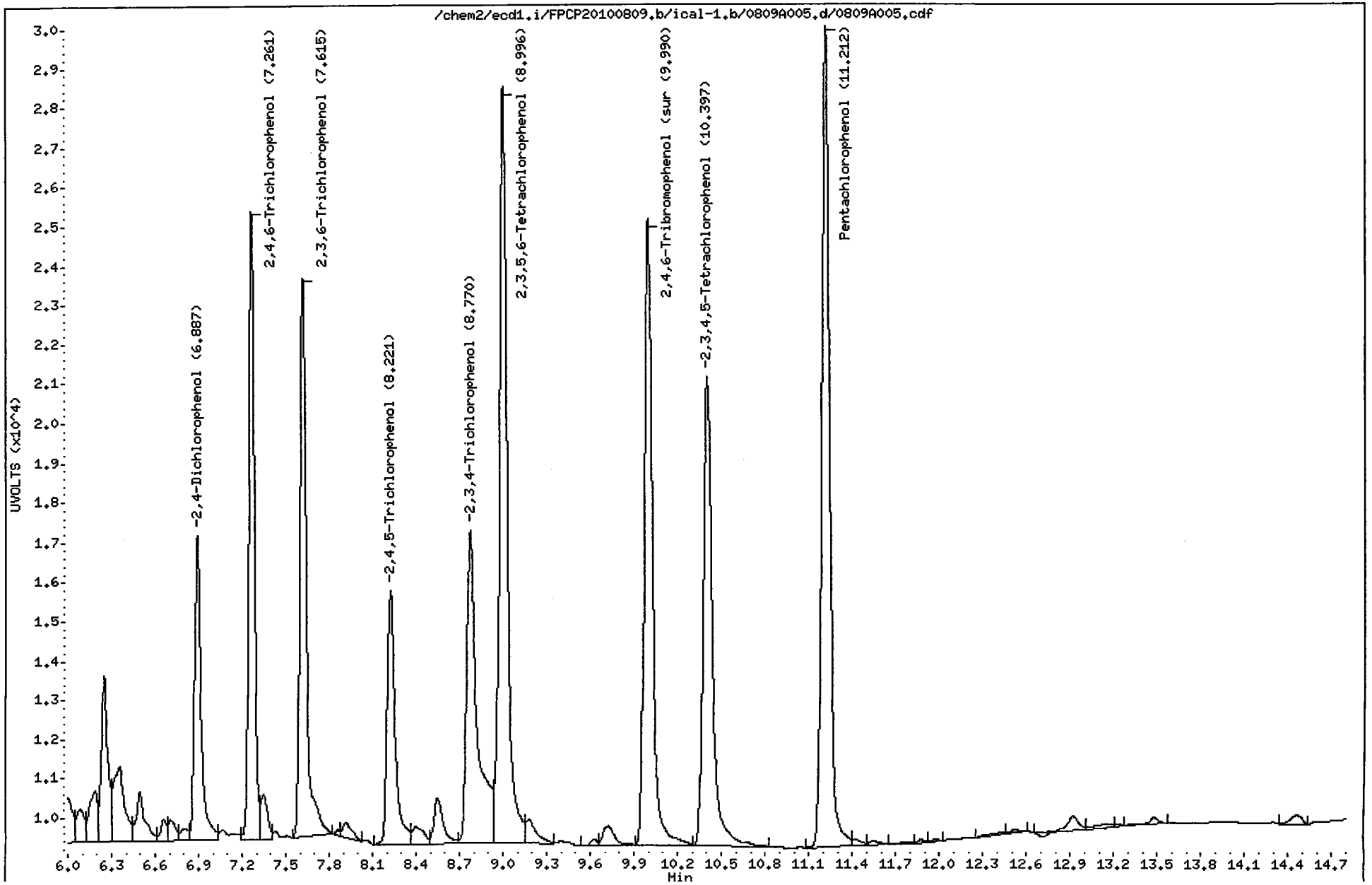
AIA 0809A005.cdf
ZB35 PCPD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.744
10.148
10.248
10.472
10.910
Time (Min)

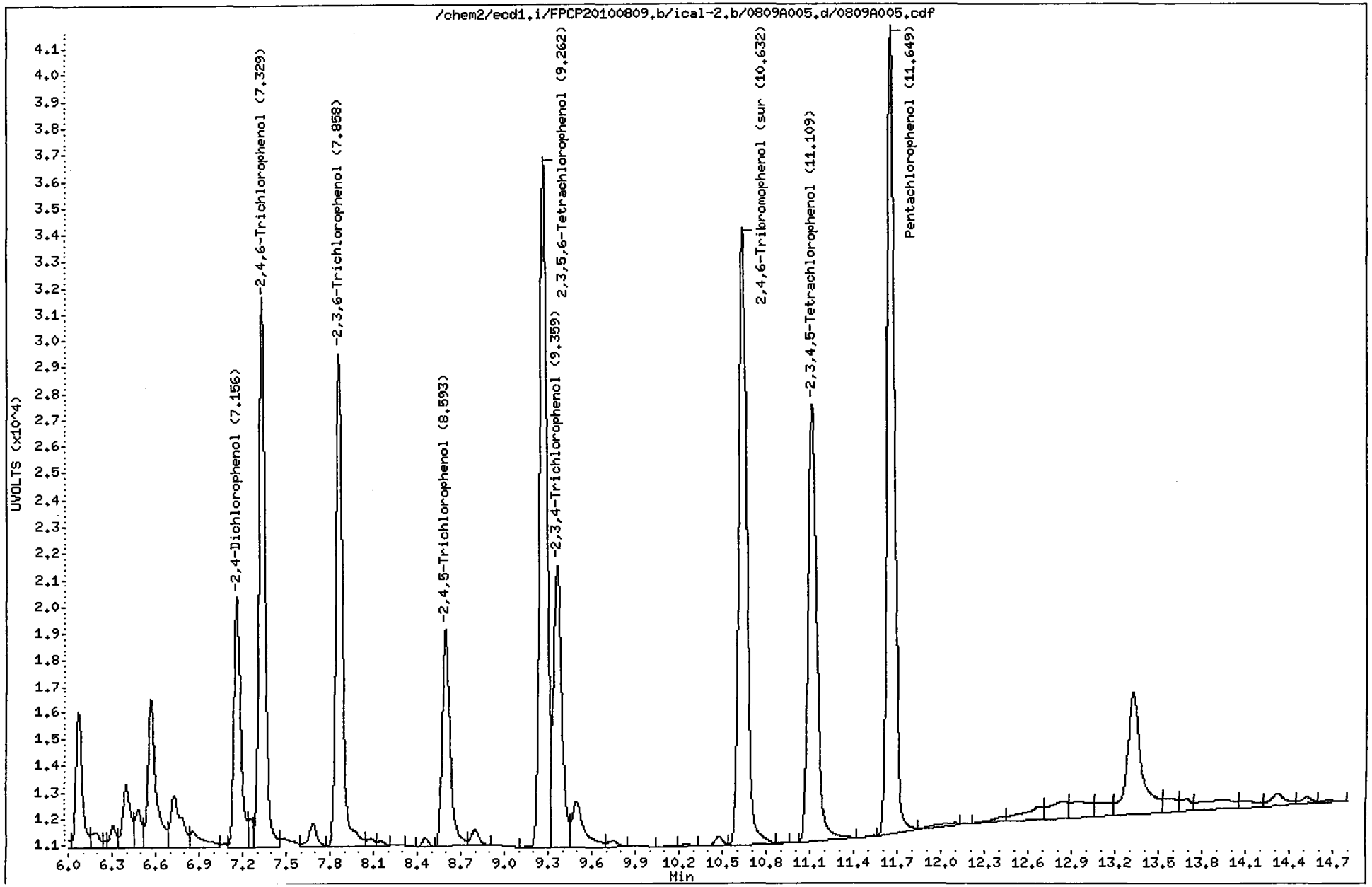
Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB5

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



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB35

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



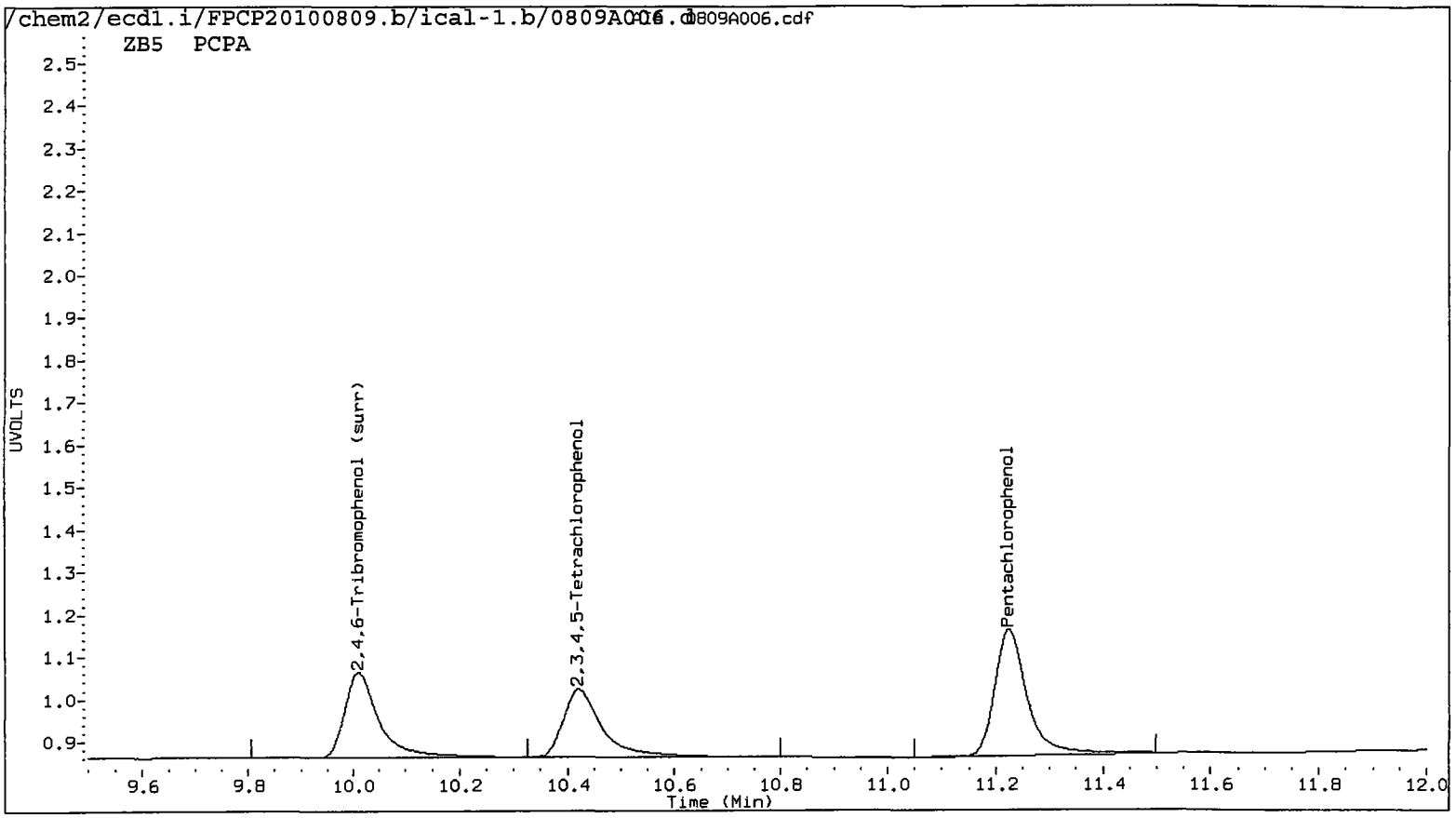
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

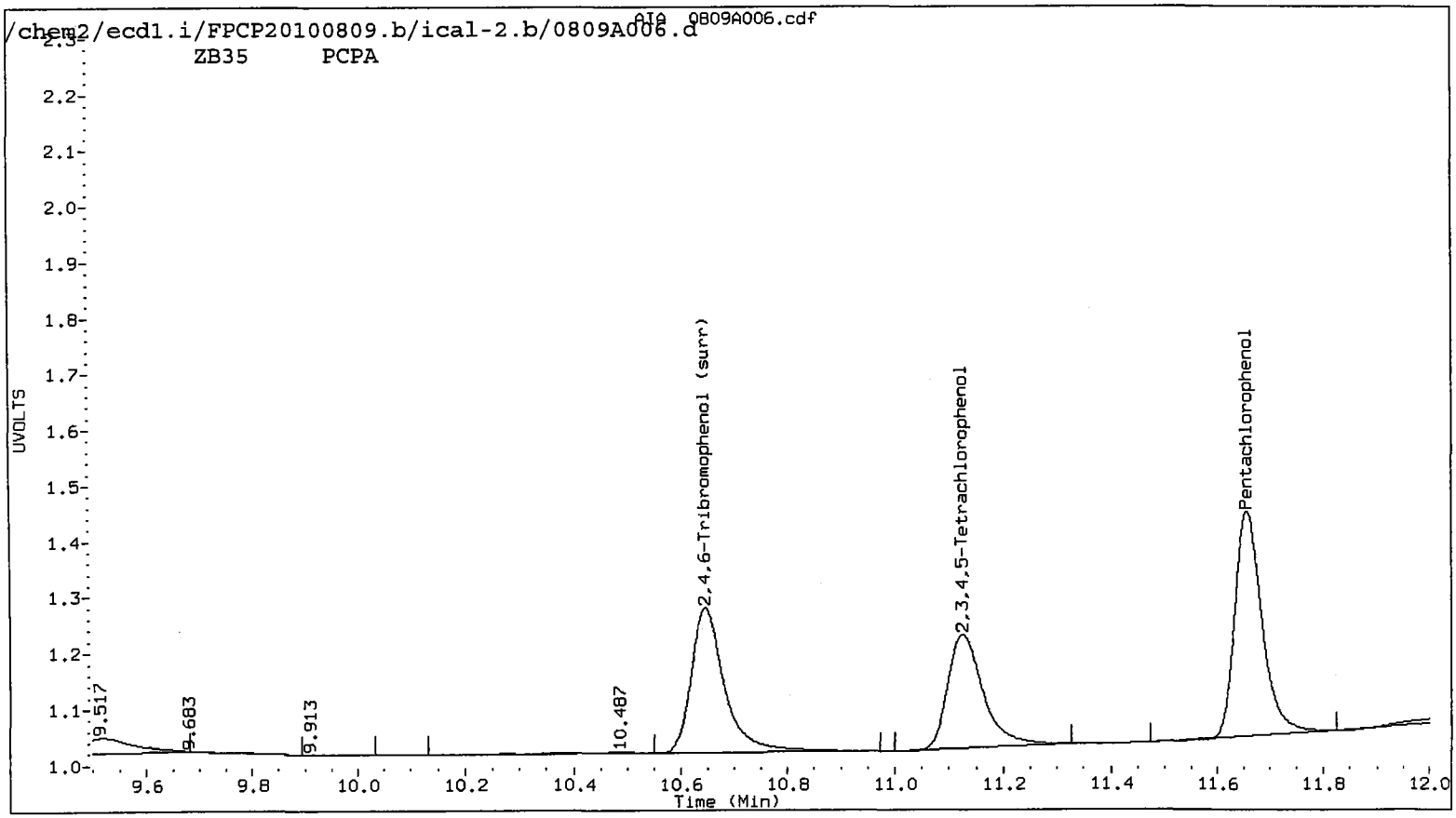
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d ARI ID: PCPA
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 12:43
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.225	0.006	61320	11.658	0.000	71975	3.4866	3.1346	10.6	Pentachlorophenol
7.263	-0.001	33851	7.333	0.000	37028	3.5845	2.9659	18.9	2,4,6-Trichlorophenol
7.622	0.003	32256	7.864	0.000	38395	3.3362	3.0942	7.5	2,3,6-Trichlorophenol
8.253	0.011	16009	8.615	0.000	23627	3.1717	3.3608	5.8	2,4,5-Trichlorophenol
8.806	0.014	20983	9.380	0.000	32846	3.0672	3.4670	12.2	2,3,4-Trichlorophenol
9.013	0.006	44762	9.277	0.000	56775	3.1733	3.0665	3.4	2,3,5,6-Tetrachlorophenol
10.421	0.008	40811	11.126	0.000	46035	3.3526	3.1551	6.1	2,3,4,5-Tetrachlorophenol
6.897	0.004	18020	7.166	0.000	21466	29.2505	29.3296	0.3	2,4-Dichlorophenol
10.010	0.008	46402	10.646	0.000	56619	3.4	3.0	11.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

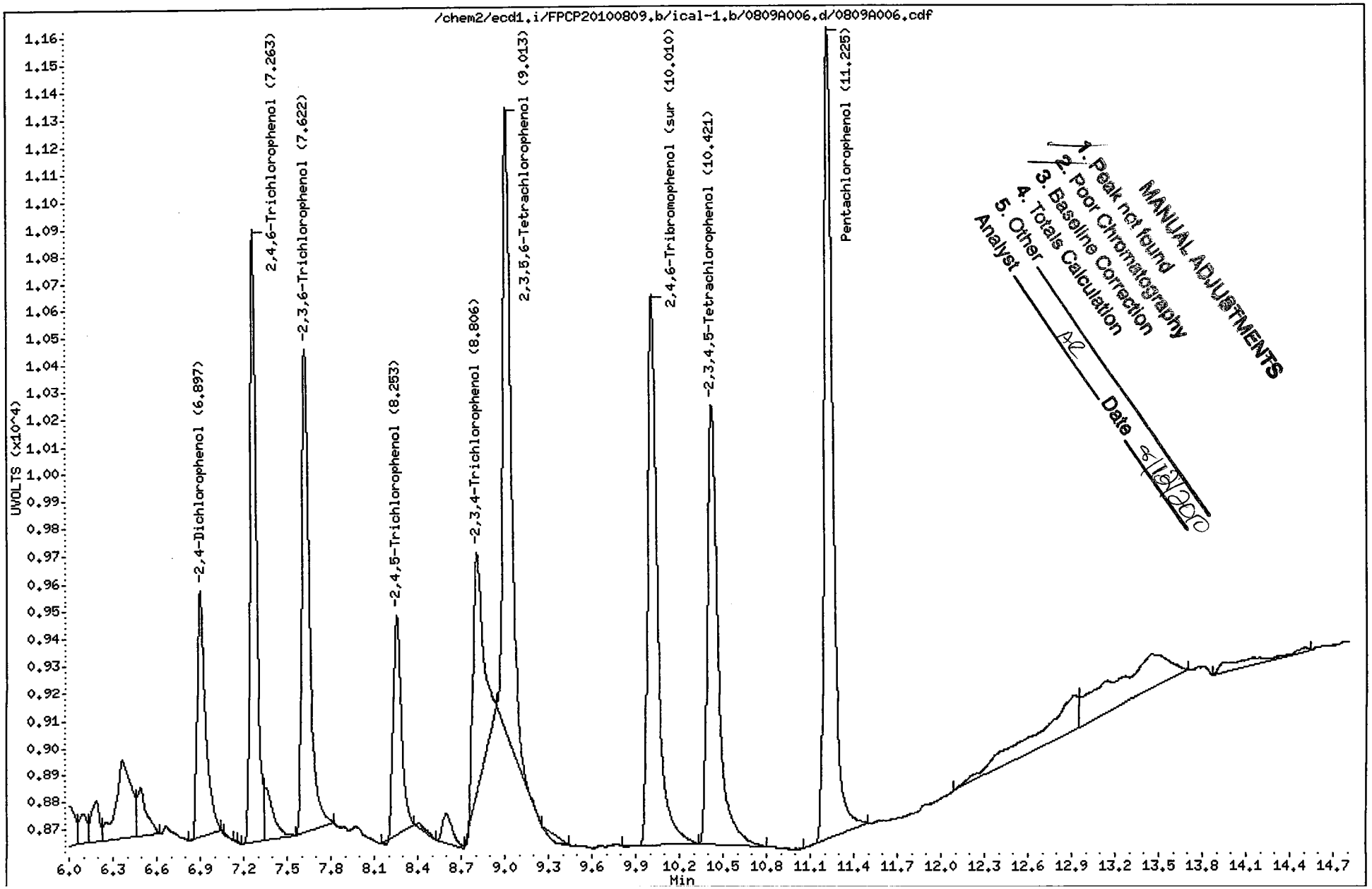
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	13.6	12.1


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d
0809A006.cdf
ZB5 PCPA
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d
0809A006.cdf
ZB35 PCPA
UVOLTS
9.517
9.683
9.913
10.487
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d
Date : 09-AUG-2010 12:43
Client ID:
Sample Info: PCPA
Purge Volume: 2.0
Column phase: ZB5

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

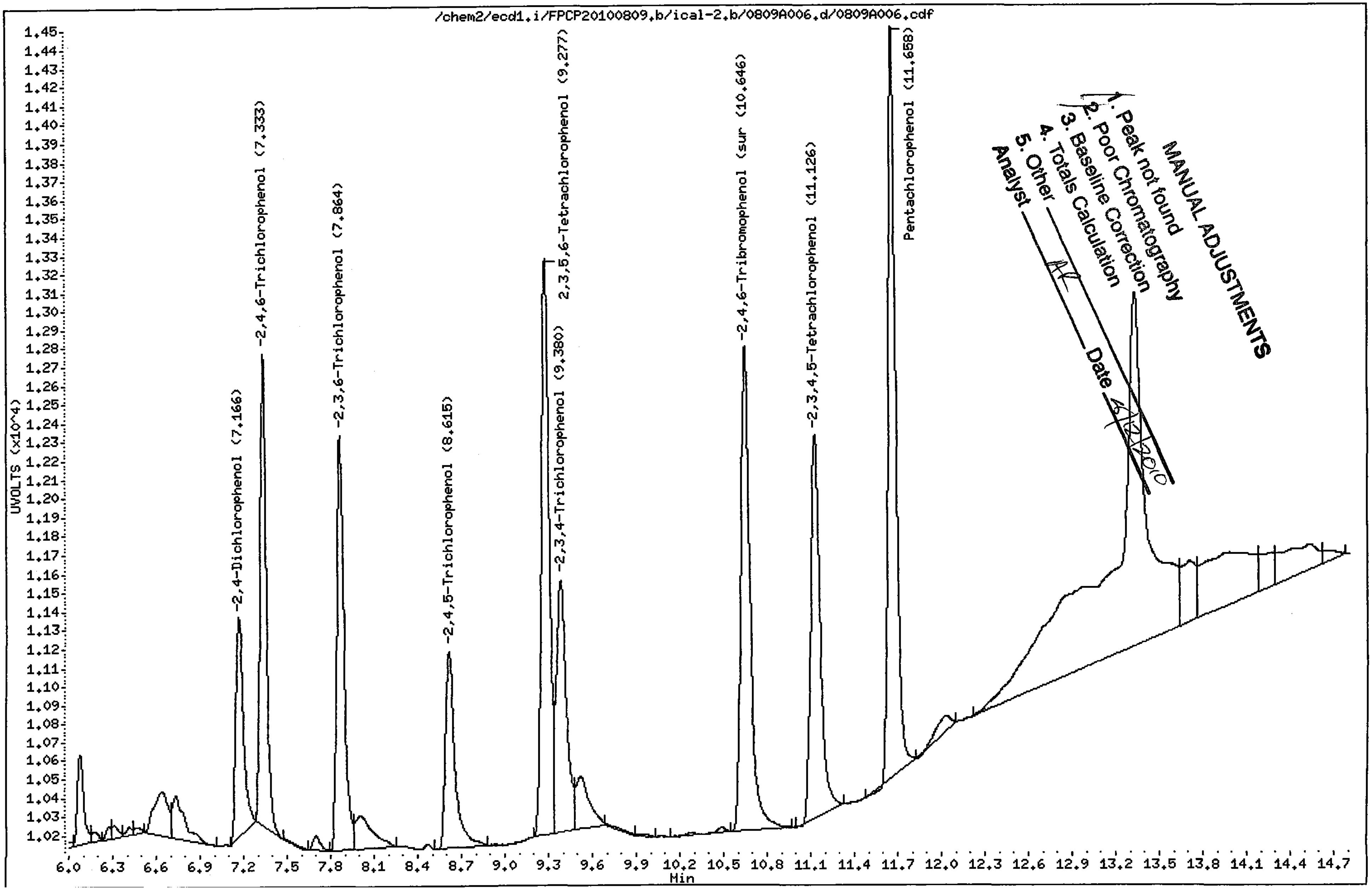


RC78:00978

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d
Date : 09-AUG-2010 12:43
Client ID:
Sample Info: PCPA
Purge Volume: 2.0
Column phase: ZB35

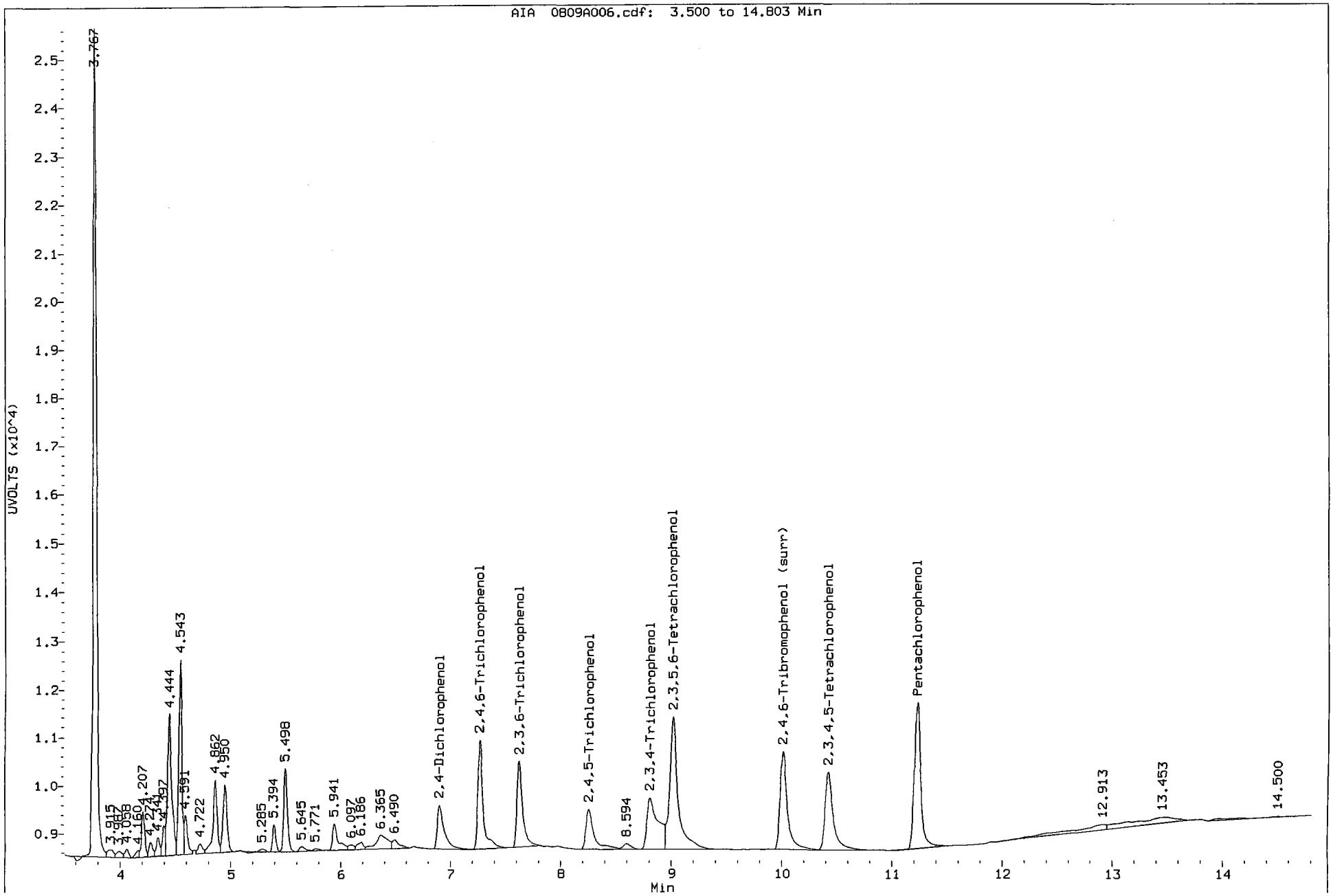
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Injection Date: 09-AUG-2010 12:43
Instrument: ecd1.i
Client Sample ID:

Before 08/12/2010



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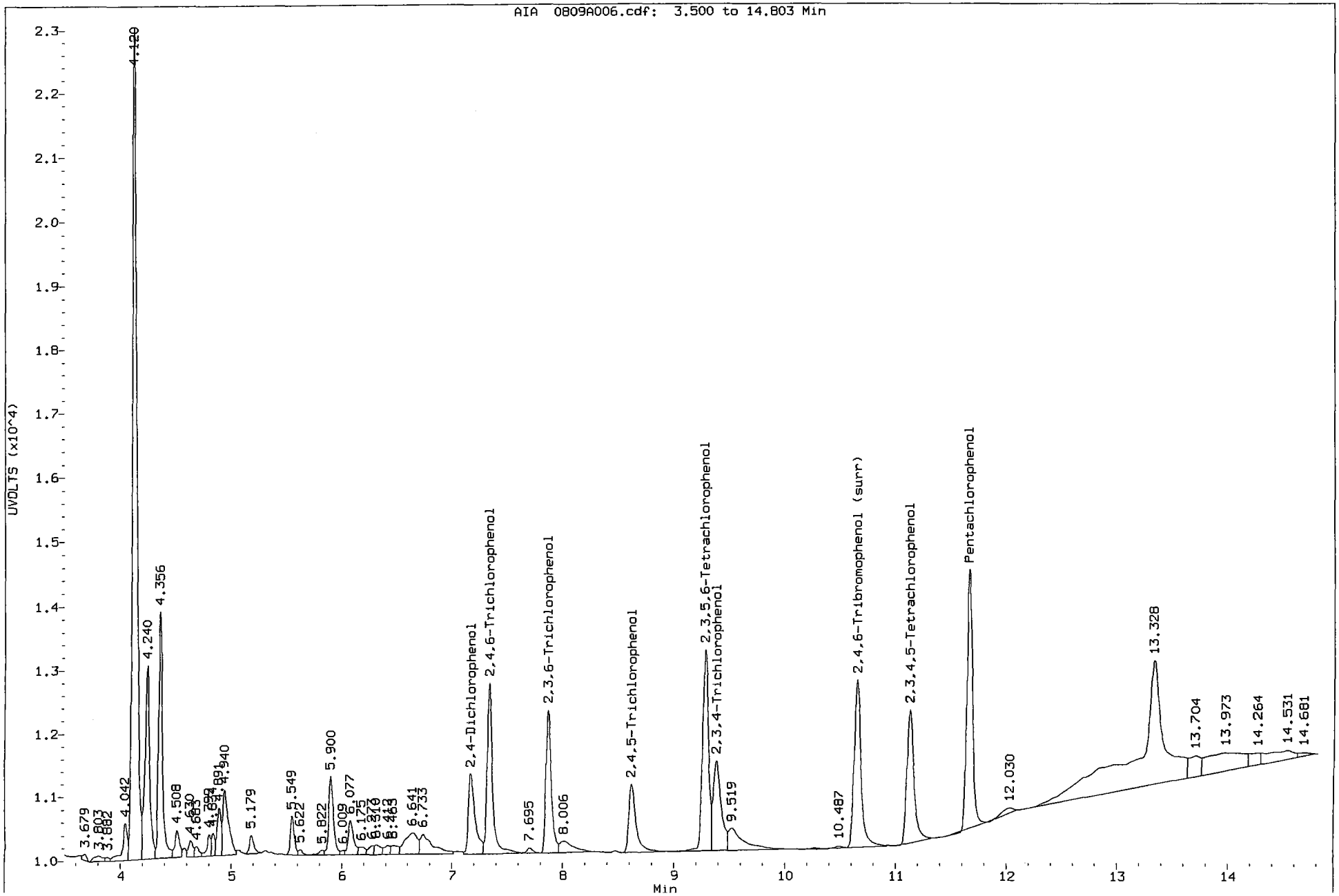
Injection Date: 09-AUG-2010 12:43
Instrument: ecd1.i
Client Sample ID:

Before AR 8/19/2010



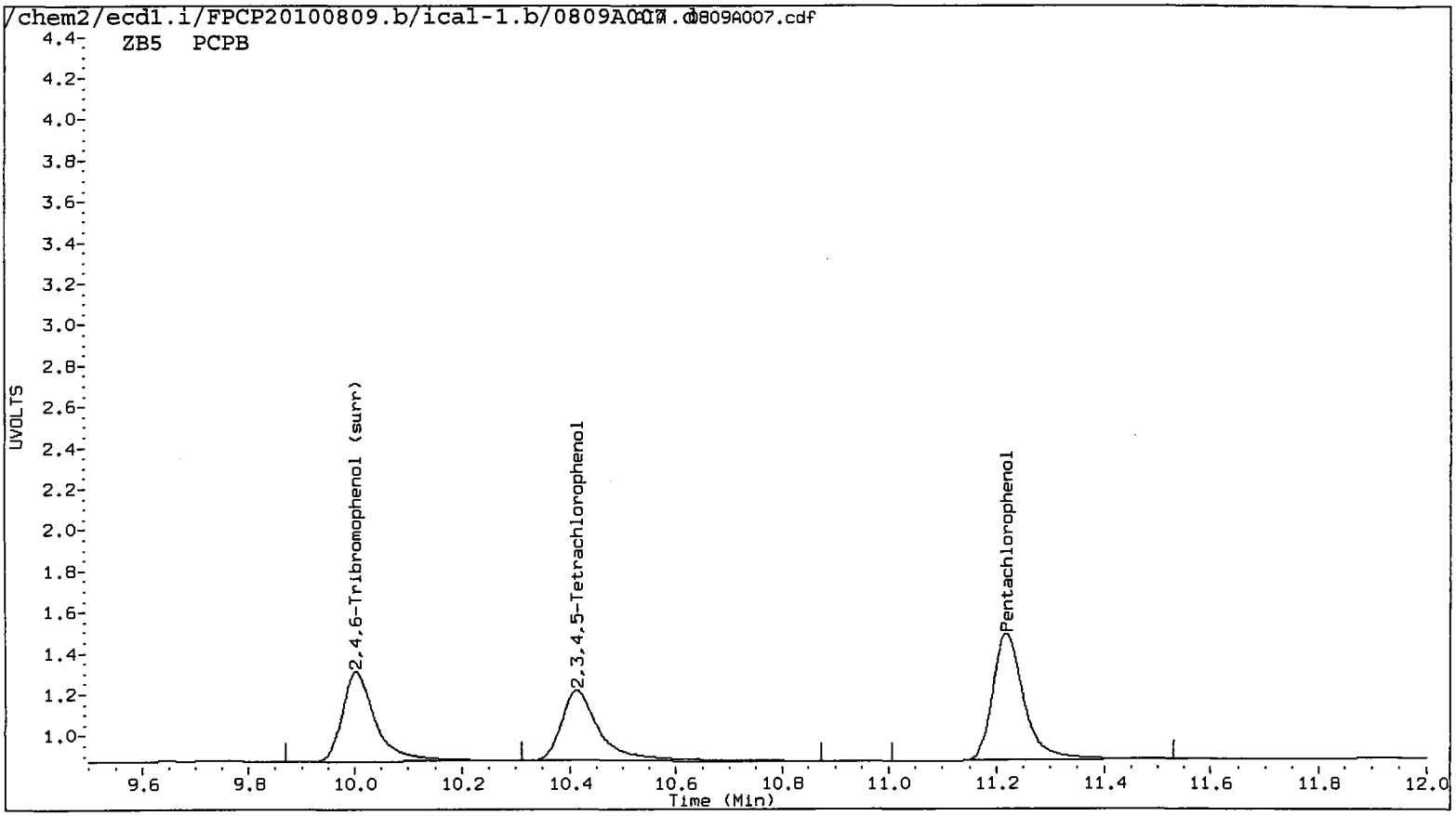
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

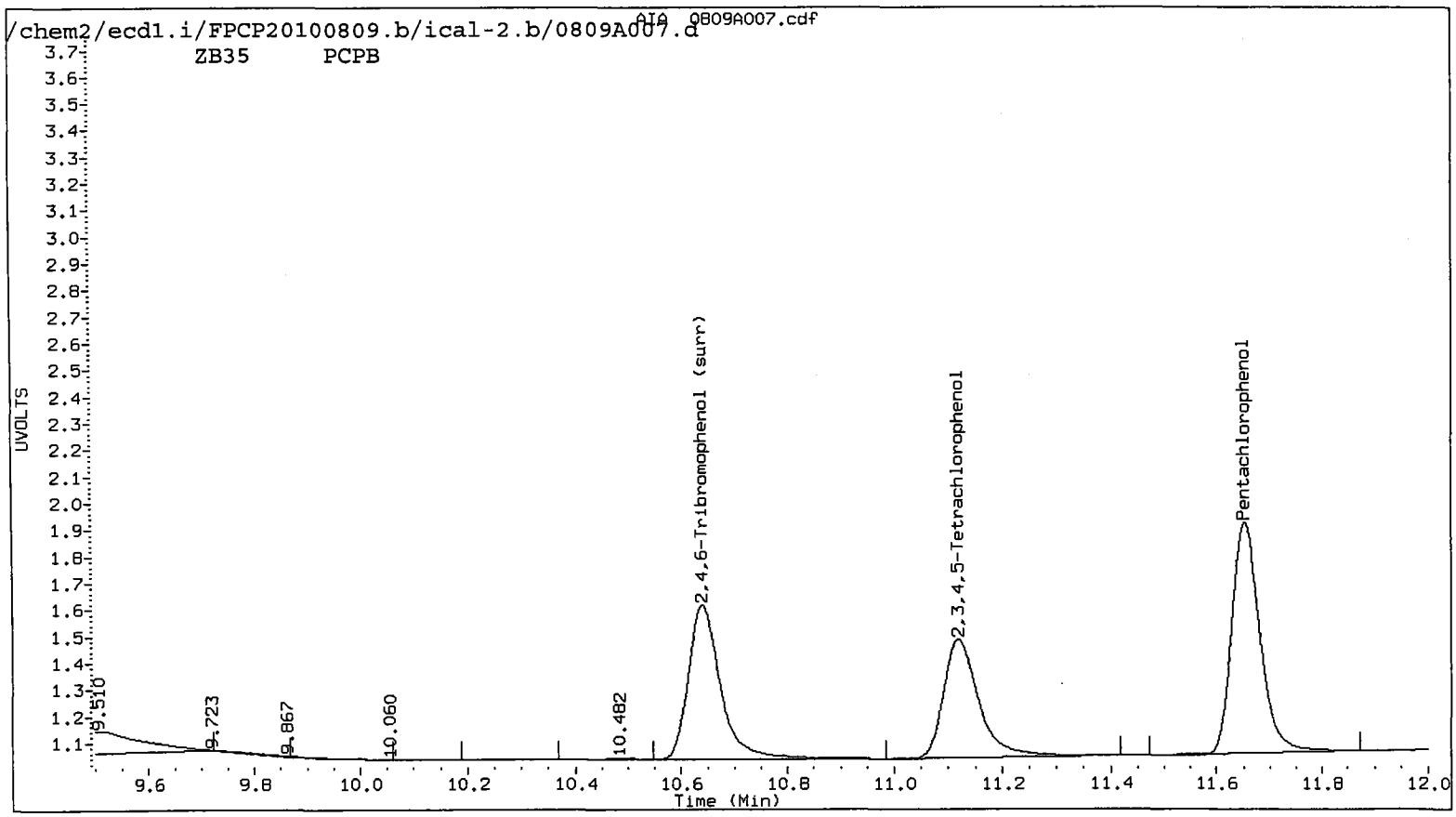
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d ARI ID: PCPB
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:03
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.219	0.000	123902	11.654	-0.004	156217	7.2292	6.8035	6.1	Pentachlorophenol
7.264	0.000	65457	7.333	0.000	78390	7.0775	6.2789	12.0	2,4,6-Trichlorophenol
7.619	0.000	65624	7.862	-0.002	82392	6.9041	6.6399	3.9	2,3,6-Trichlorophenol
8.242	0.000	33512	8.607	-0.008	48273	6.6393	7.0262	5.7	2,4,5-Trichlorophenol
8.792	0.000	44178	9.373	-0.007	73211	6.4577	7.9367	20.5	2,3,4-Trichlorophenol
9.007	0.000	94127	9.270	-0.007	125627	6.6730	6.7852	1.7	2,3,5,6-Tetrachlorophenol
10.413	0.000	84118	11.119	-0.007	100660	7.1596	6.8989	3.7	2,3,4,5-Tetrachlorophenol
6.893	0.000	39212	7.163	-0.003	45023	67.0259	63.5184	5.4	2,4-Dichlorophenol
10.002	0.000	93741	10.640	-0.006	121487	7.0	6.5	7.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	28.0	26.0


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d
ZB5 PCPB
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)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ZB35 PCPB
UVOLTS
9.510
9.723
9.867
10.060
10.482
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d

Page 1

Date : 09-AUG-2010 13:03

Client ID:

Instrument: ecd1.i

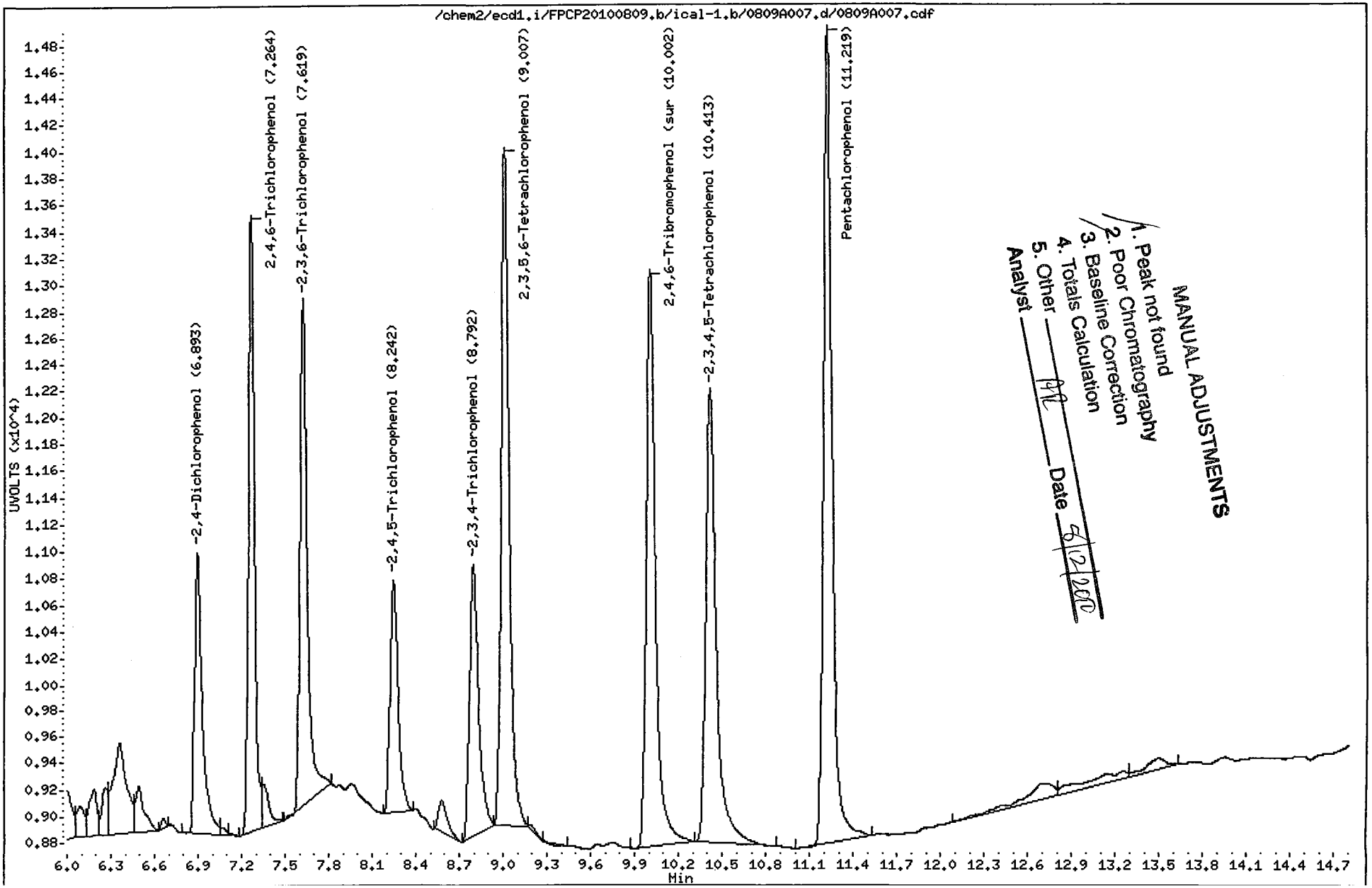
Sample Info: PCPB

Operator: ar

Purge Volume: 2.0

Column diameter: 0.53

Column phase: ZB5



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst AR Date 8/12/2010

RC78 : 09381

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d

Date : 09-AUG-2010 13:03

Client ID:

Sample Info: PCPB

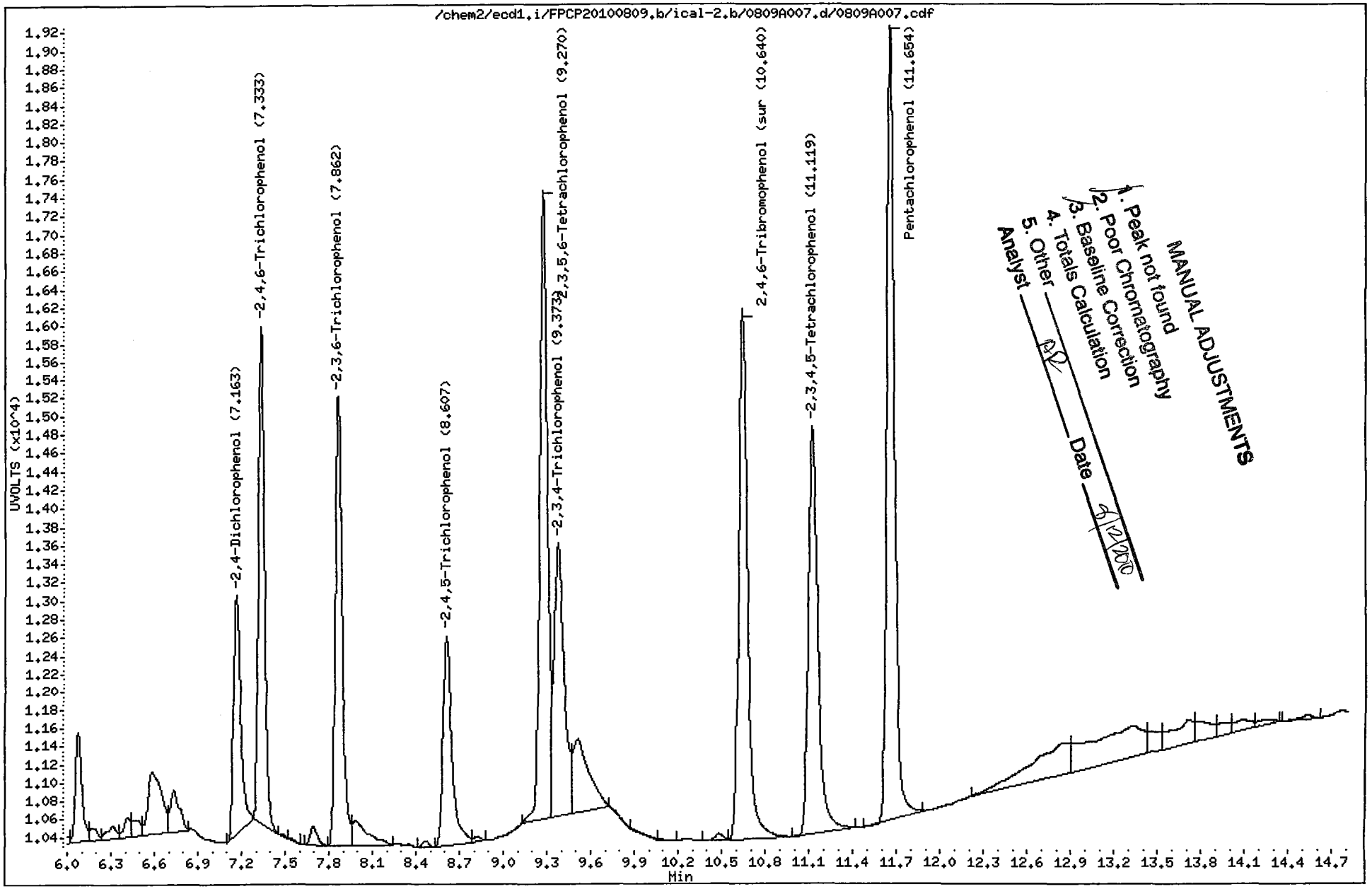
Purge Volume: 2.0

Column phase: ZB35

Instrument: ecd1.i

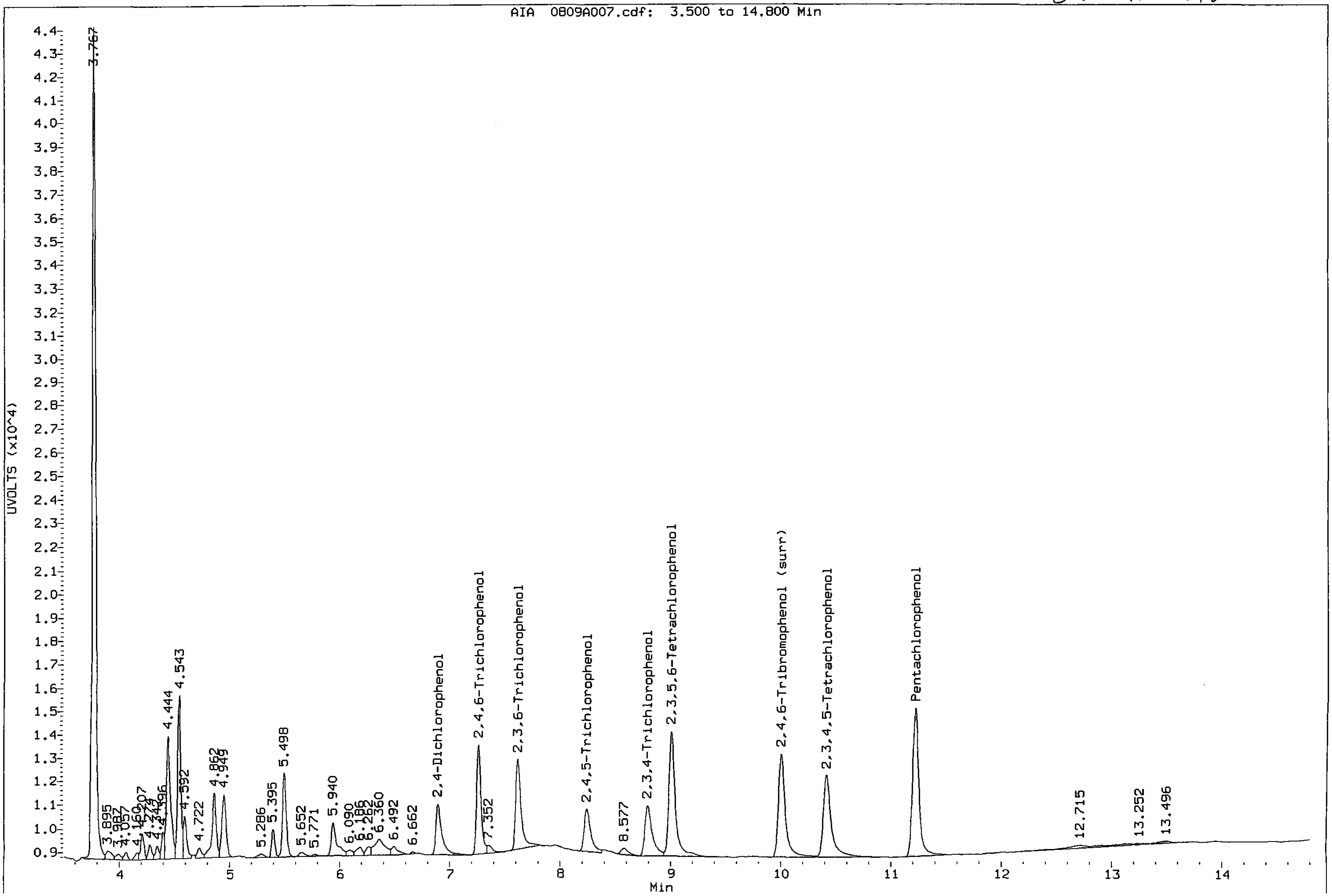
Operator: ar

Column diameter: 0.53



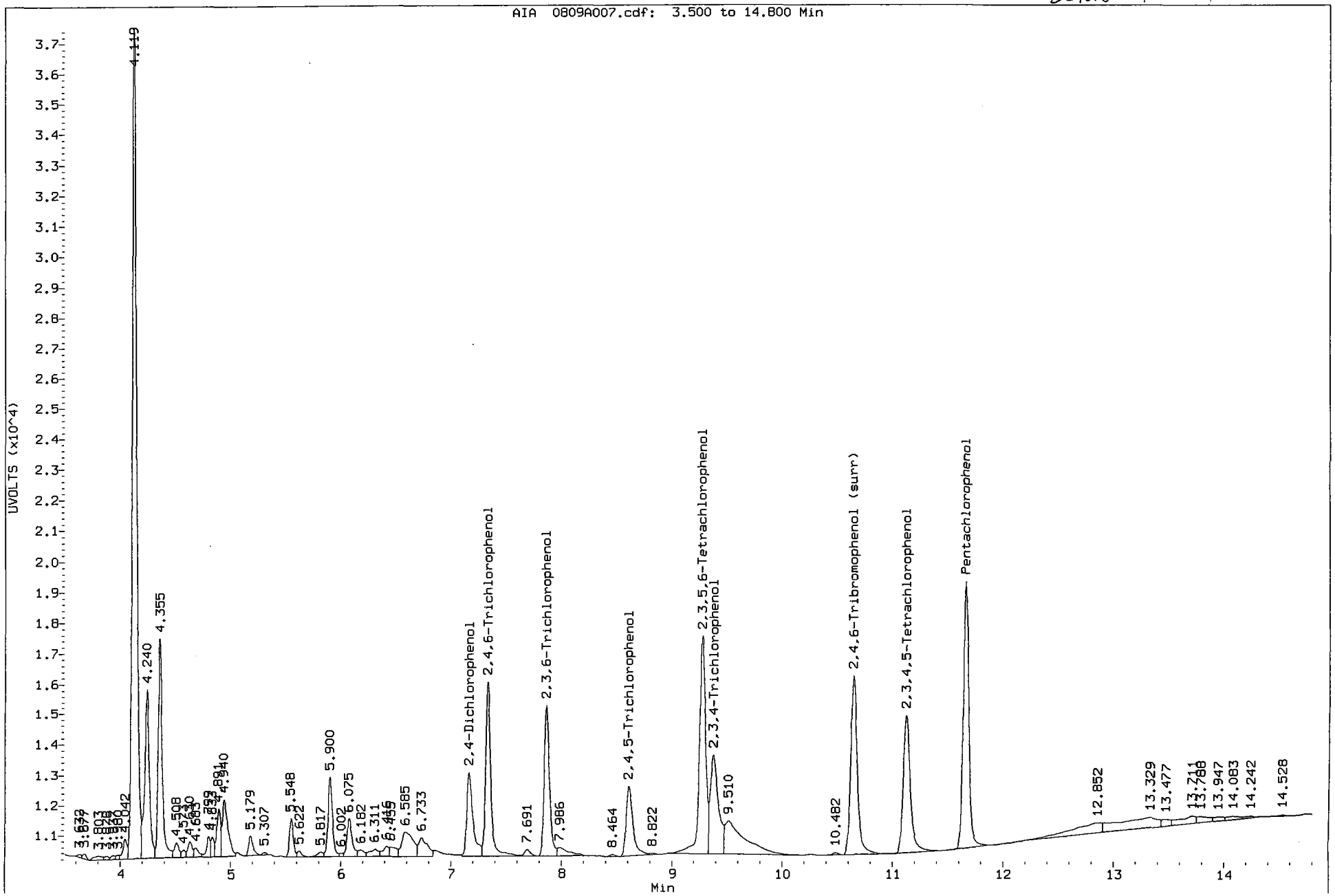
Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Injection Date: 09-AUG-2010 13:03
Instrument: ecd1.i
Client Sample ID:

Before AR 8/12/2010



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Injection Date: 09-AUG-2010 13:03
Instrument: ecd1.i
Client Sample ID:

Before AR 8/12/2010



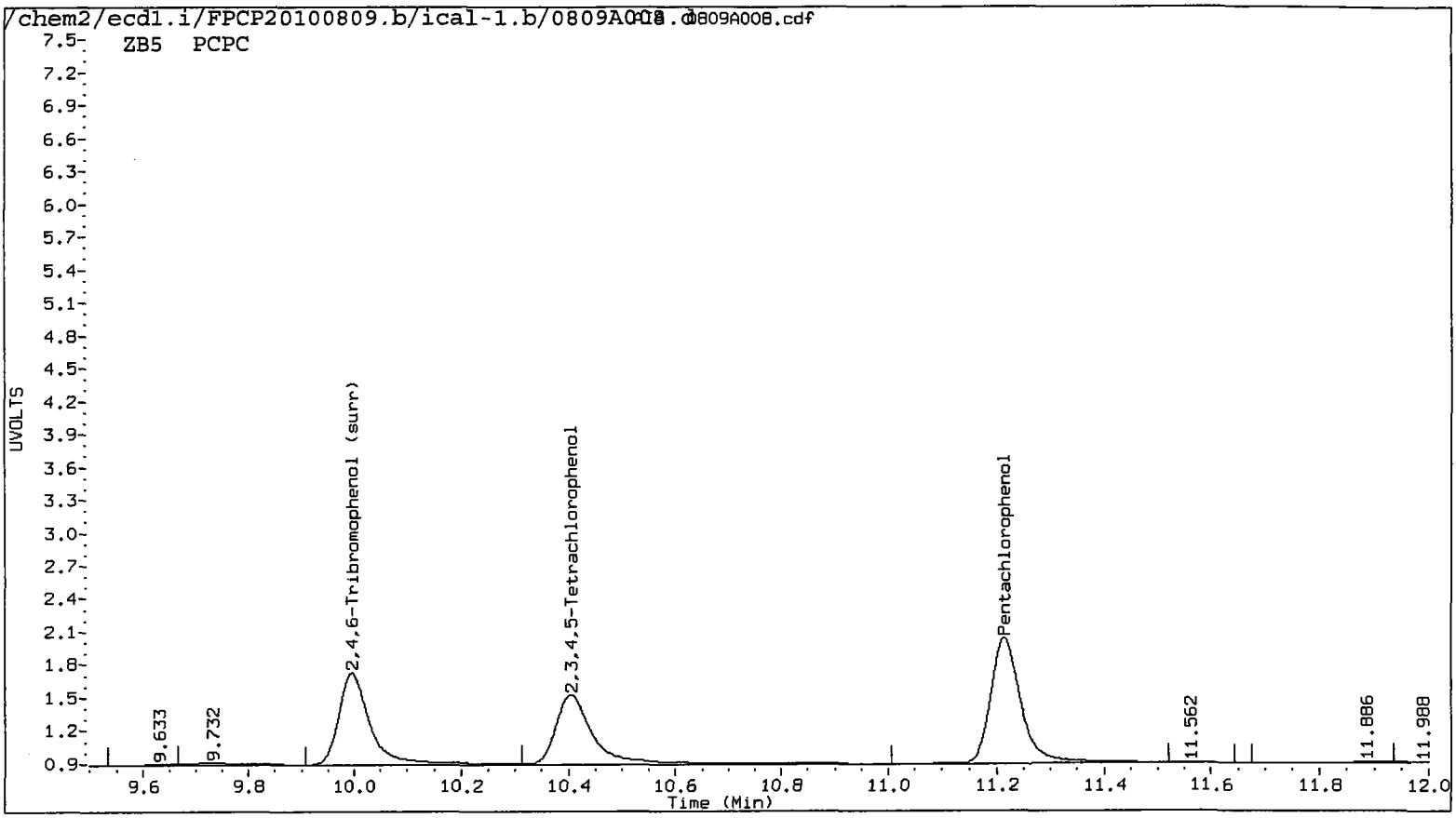
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

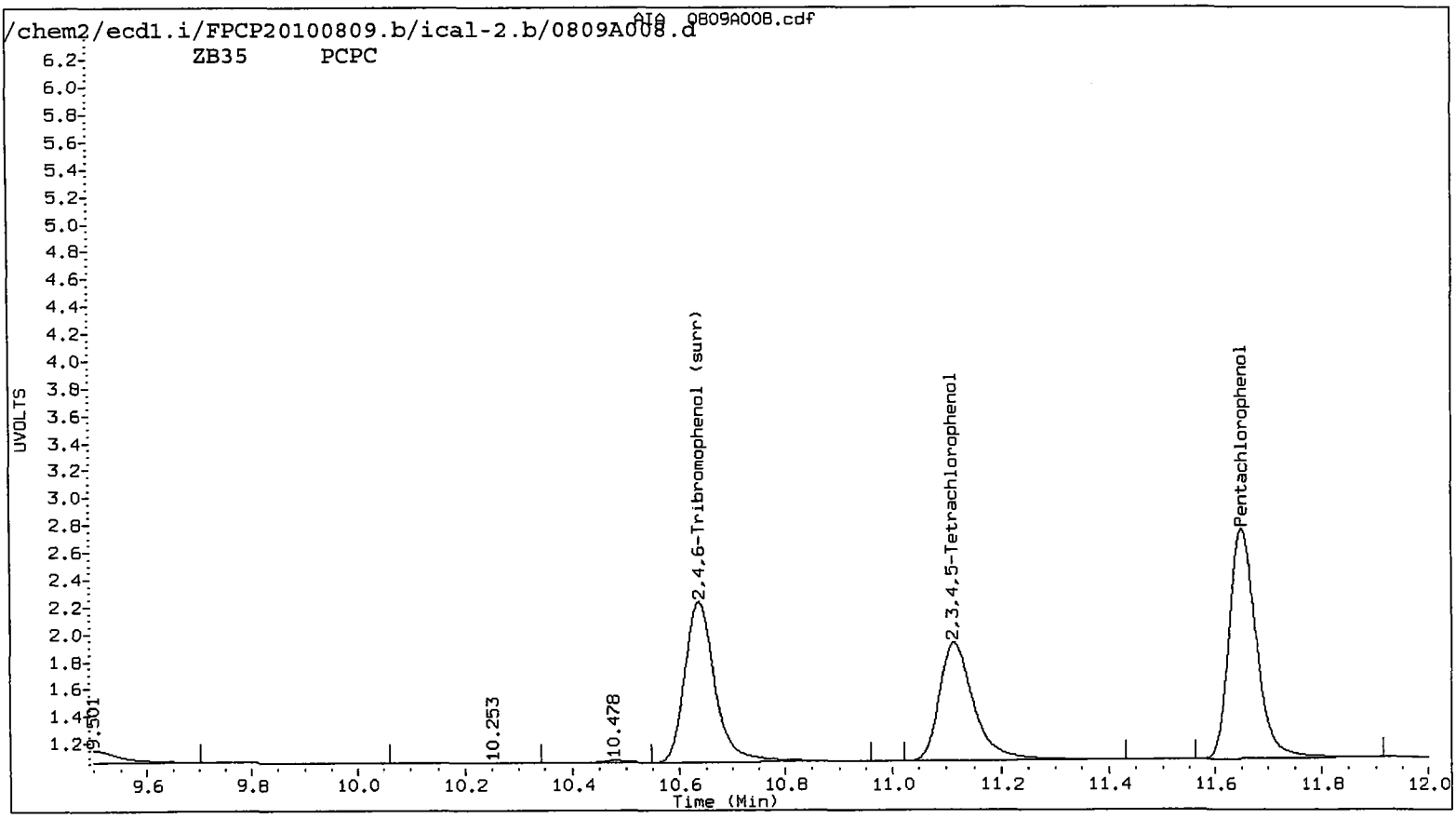
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d ARI ID: PCPC
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:23
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	222874	11.652	-0.006	298790	13.5277	13.0127	3.9	Pentachlorophenol
7.263	-0.001	119503	7.331	-0.002	175254	13.3777	14.0376	4.8	2,4,6-Trichlorophenol
7.617	-0.002	120087	7.860	-0.004	157630	12.9827	12.7034	2.2	2,3,6-Trichlorophenol
8.232	-0.010	71098	8.600	-0.015	89400	14.0857	13.5058	4.2	2,4,5-Trichlorophenol
8.780	-0.012	89192	9.365	-0.015	117878	13.0377	13.1515	0.9	2,3,4-Trichlorophenol
9.002	-0.005	187444	9.266	-0.011	232265	13.2886	12.5448	5.8	2,3,5,6-Tetrachlorophenol
10.406	-0.007	153678	11.115	-0.011	189199	13.8120	12.9671	6.3	2,3,4,5-Tetrachlorophenol
6.890	-0.003	76337	7.160	-0.006	91643	141.9985	137.3547	3.3	2,4-Dichlorophenol
9.996	-0.006	174610	10.636	-0.010	235194	13.5	12.6	6.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	53.9	50.4


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
0809A008.cdf
ZB5 PCPC
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.633
9.732
11.562
11.886
11.988
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
0809A008.cdf
ZB35 PCPC
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.501
10.253
10.478
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d

Date : 09-AUG-2010 13:23

Client ID:

Sample Info: PCPC

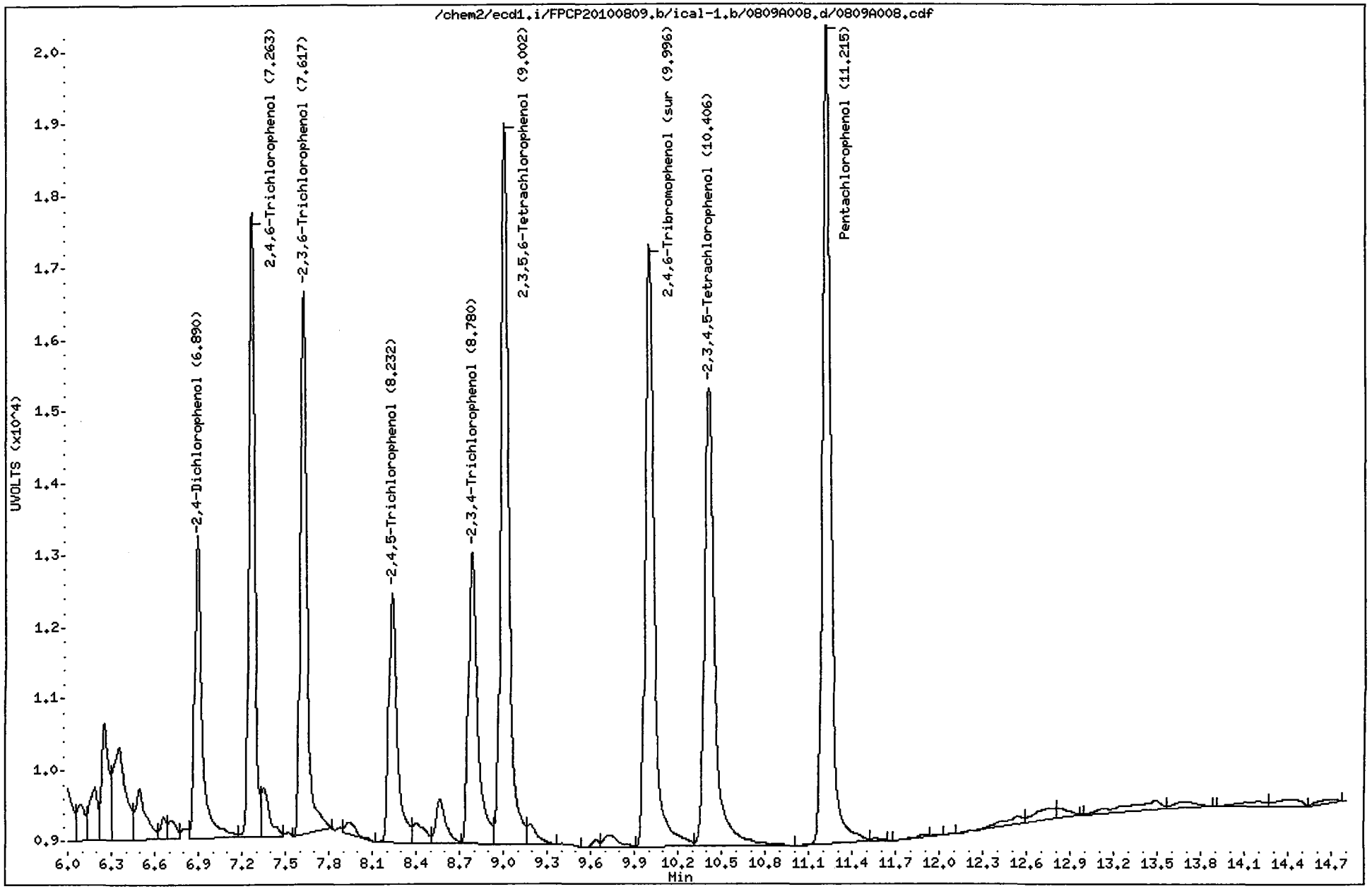
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecd1.i

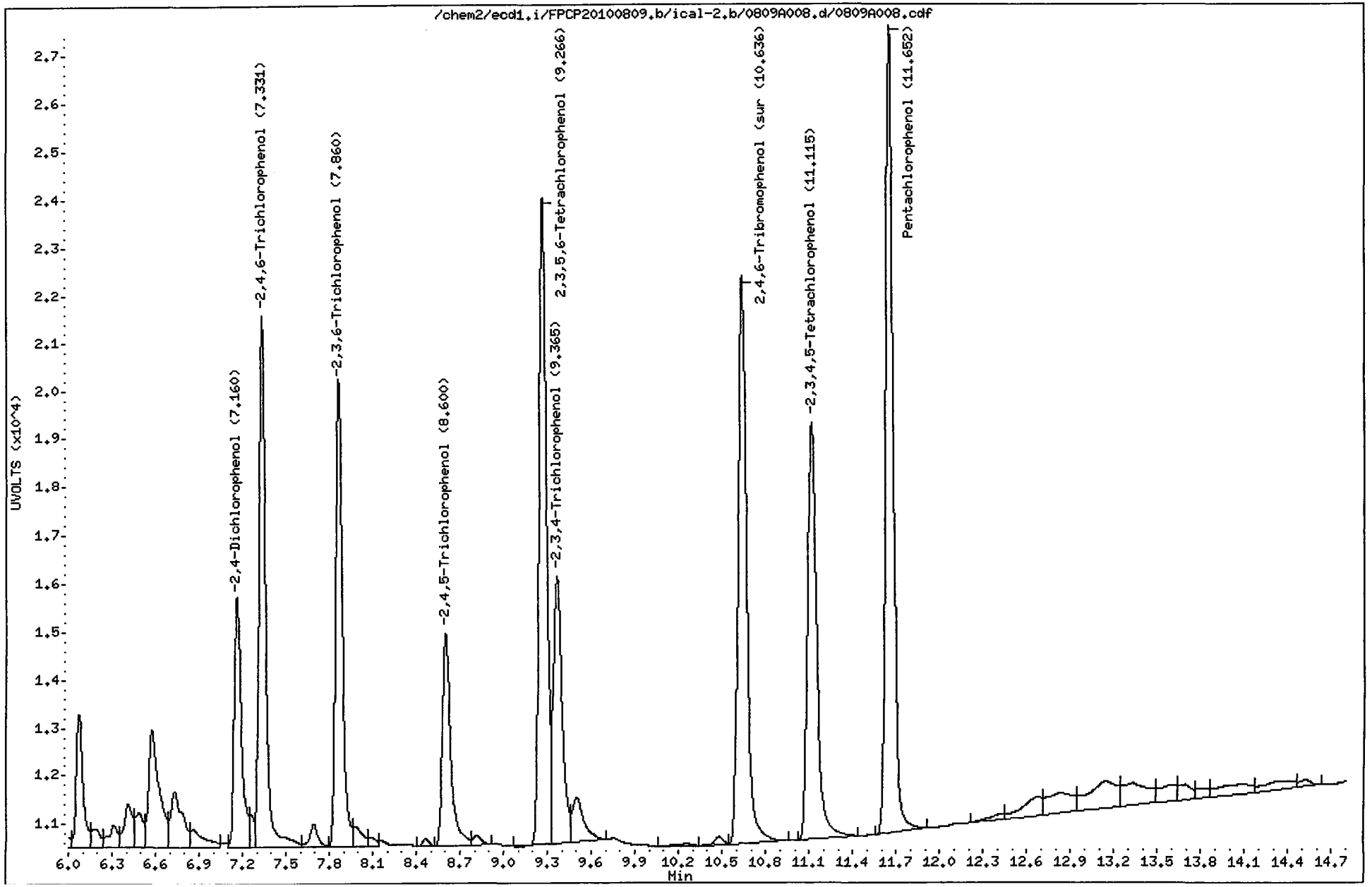
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Date : 09-AUG-2010 13:23
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB35

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



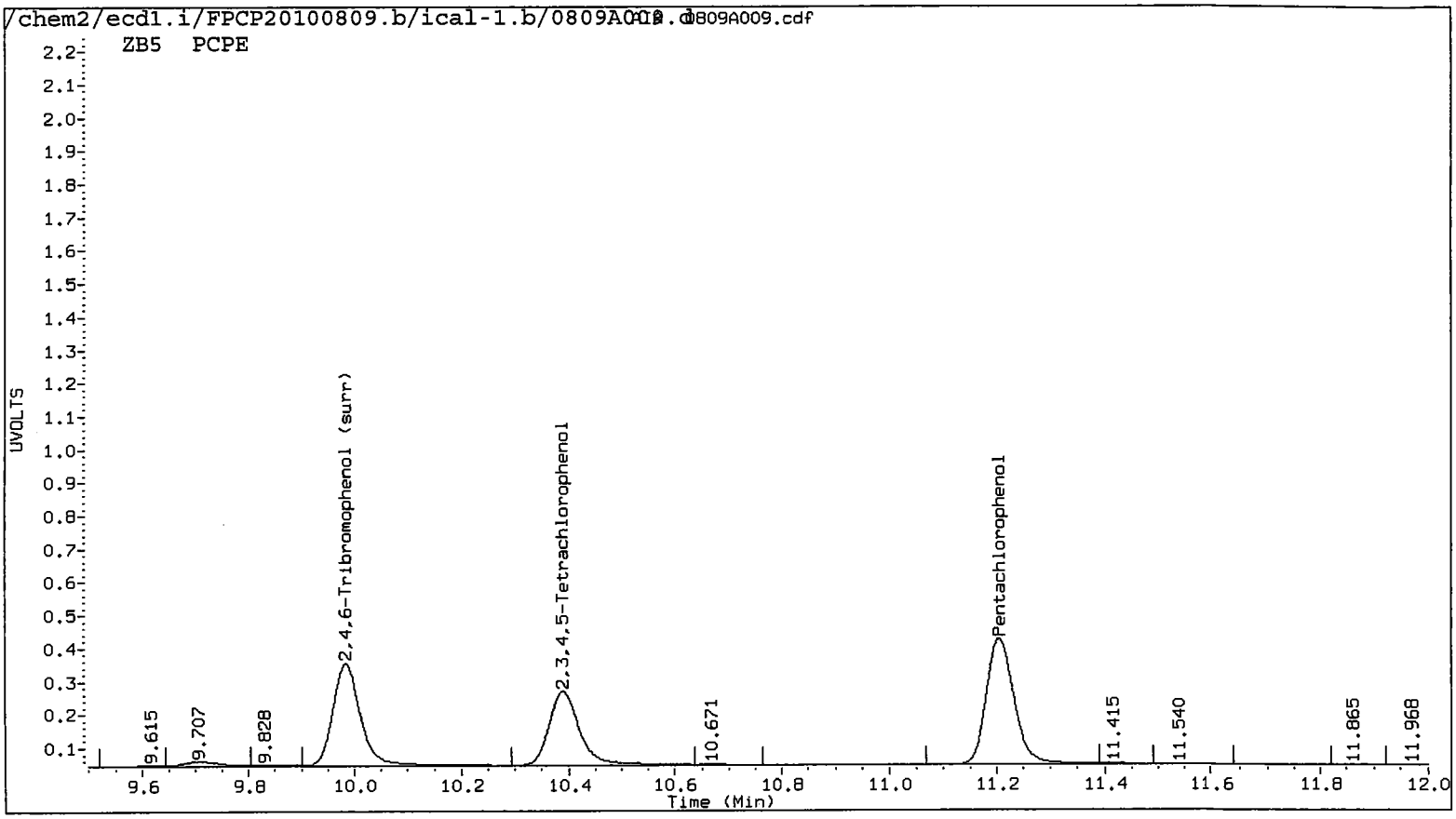
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

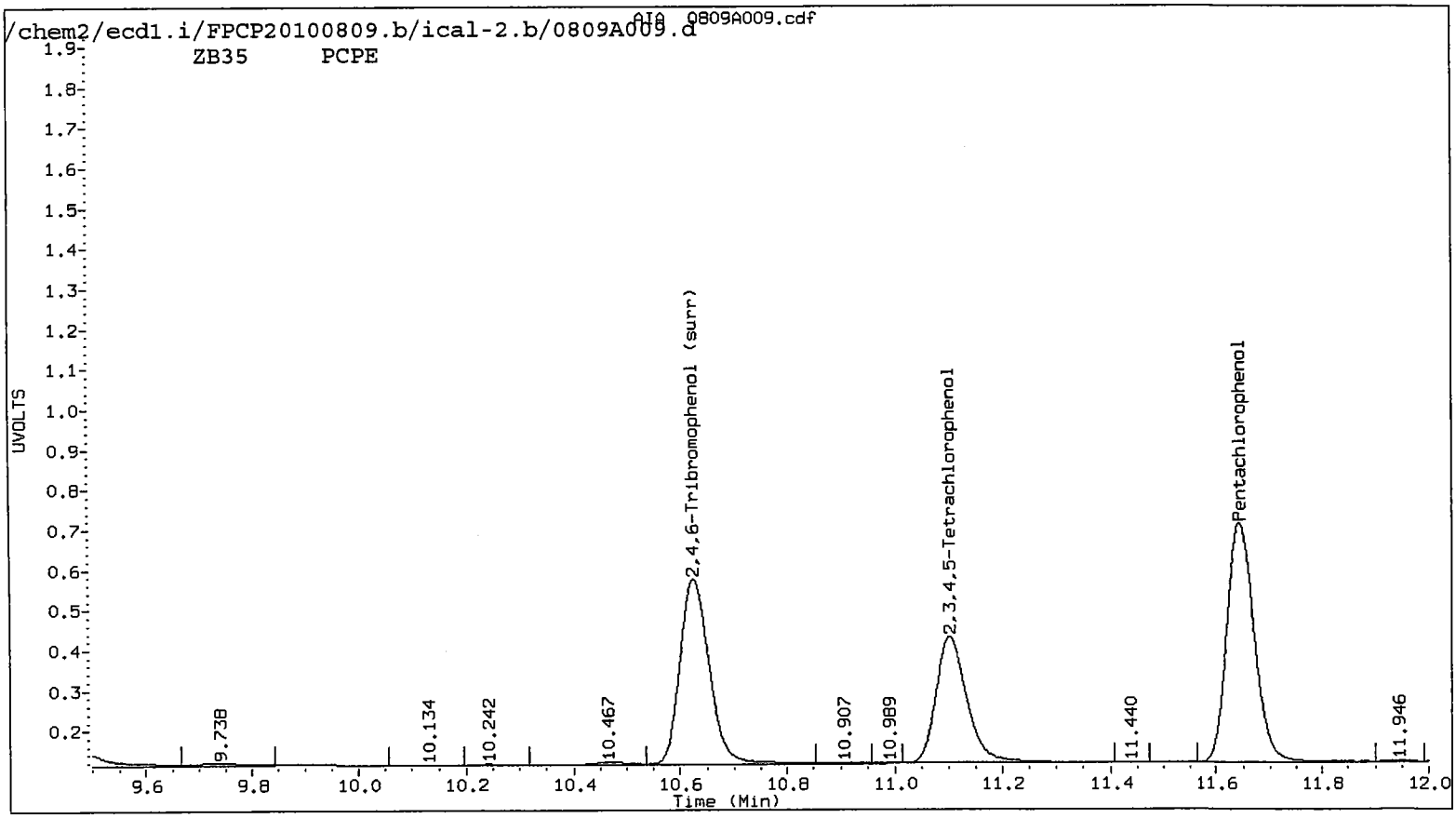
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d ARI ID: PCPE
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:43
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.206	-0.013	684285	11.645	-0.013	1025332	49.0326	44.6545	9.3	Pentachlorophenol
7.259	-0.005	376941	7.327	-0.006	561100	49.0547	44.9434	8.7	2,4,6-Trichlorophenol
7.611	-0.008	401238	7.855	-0.009	556890	49.3933	44.8796	9.6	2,3,6-Trichlorophenol
8.212	-0.030	214503	8.586	-0.029	278412	42.4967	49.1247	14.5	2,4,5-Trichlorophenol
8.760	-0.032	273728	9.351	-0.029	376624	40.0123	48.9147	20.0	2,3,4-Trichlorophenol
8.990	-0.017	594124	9.256	-0.021	833297	42.1197	45.0070	6.6	2,3,5,6-Tetrachlorophenol
10.389	-0.024	444734	11.103	-0.023	639912	48.8325	43.8575	10.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009	204471	7.153	-0.013	267768	486.7918	490.3559	0.7	2,4-Dichlorophenol
9.984	-0.018	559983	10.626	-0.020	861309	49.4	46.1	6.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

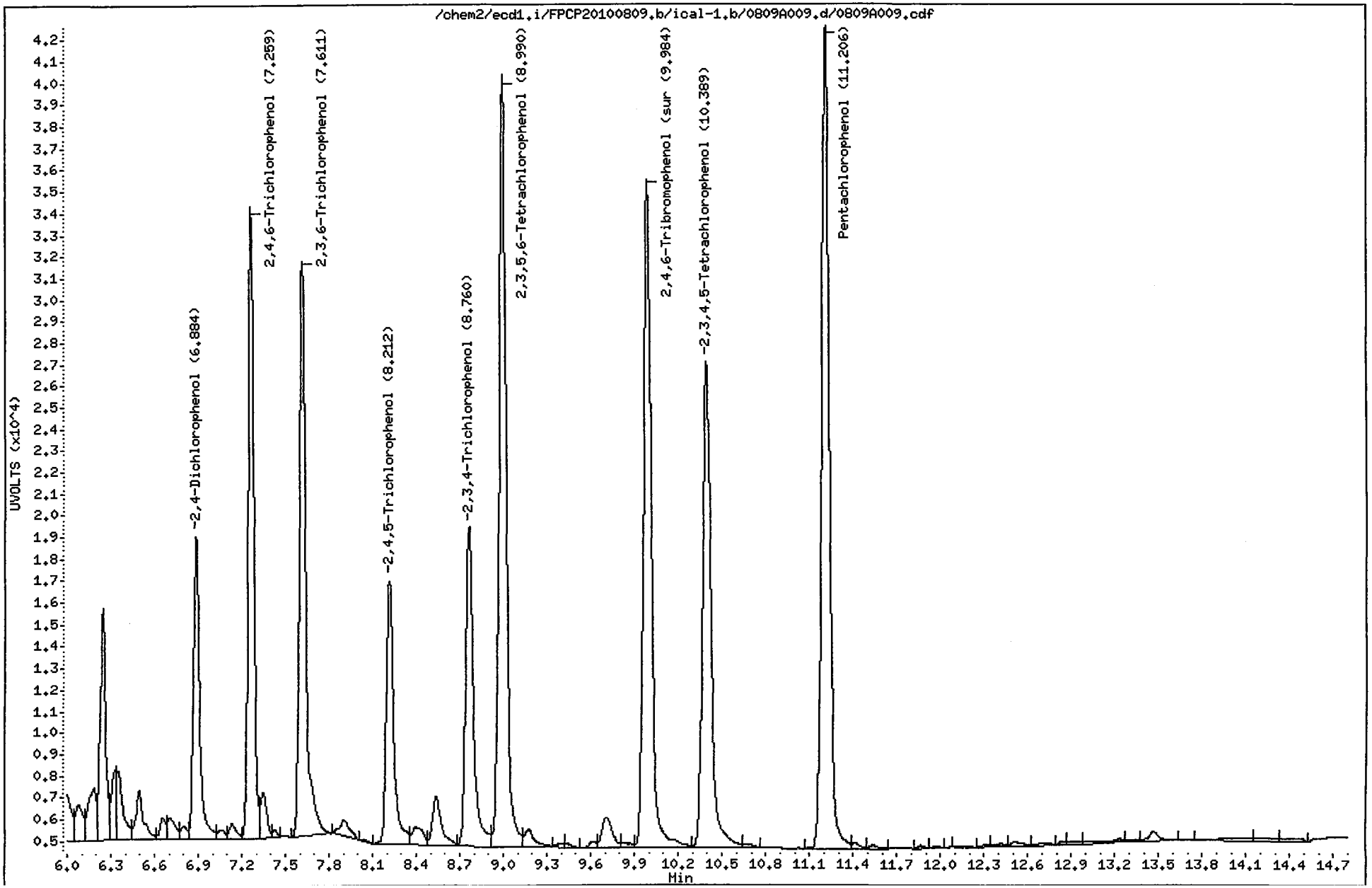
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	197.7	184.6


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
AIA 0809A009.cdf
ZB5 PCPE
UVOLTS
Time (Min)
9.615
9.707
9.828
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
10.671
Pentachlorophenol
11.415
11.540
11.865
11.968


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
AIA 0809A009.cdf
ZB35 PCPE
UVOLTS
Time (Min)
9.738
10.134
10.242
10.467
2,4,6-Tribromophenol (surr)
10.907
10.989
2,3,4,5-Tetrachlorophenol
11.440
Pentachlorophenol
11.946

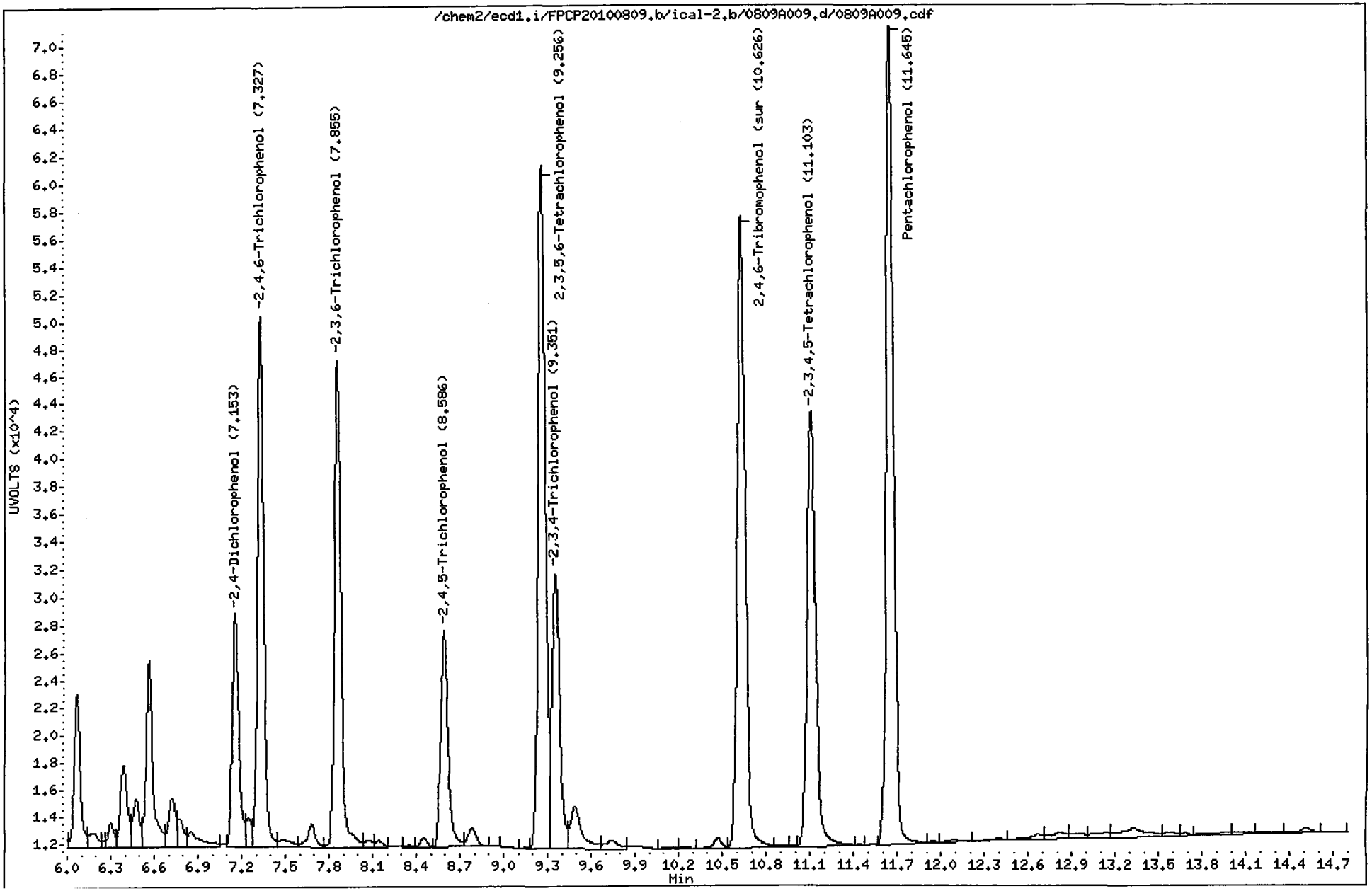
Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB5

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



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB35

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



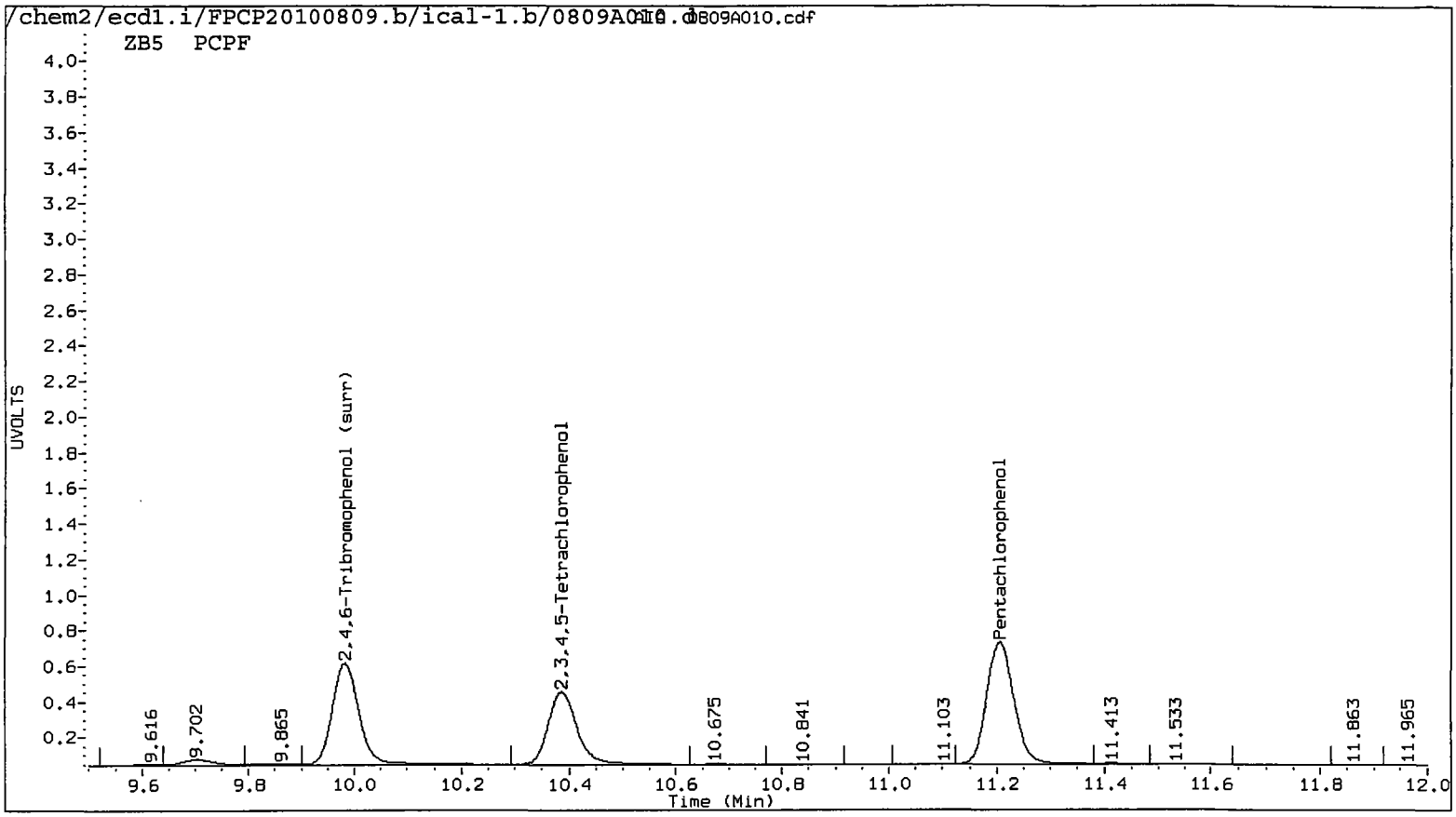
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

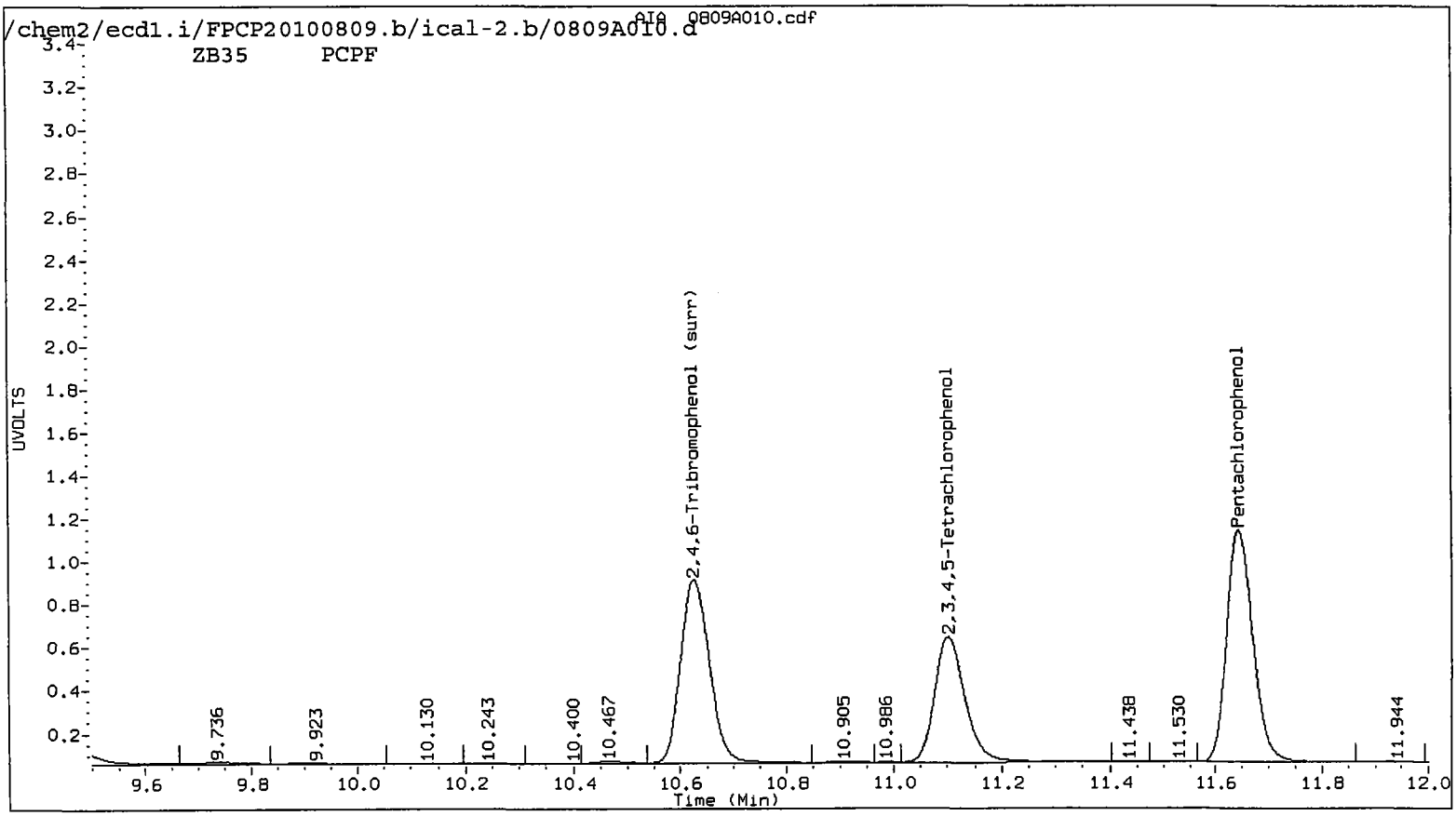
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d ARI ID: PCPF
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:03
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.206	-0.013	1196534	11.646	-0.012	1836826	100.2949	79.9961	22.5	Pentachlorophenol
7.260	-0.004	665977	7.328	-0.005	1007057	100.2742	80.6640	21.7	2,4,6-Trichlorophenol
7.612	-0.007	716085	7.856	-0.008	1010769	100.1734	81.4576	20.6	2,3,6-Trichlorophenol
8.209	-0.033	362686	8.584	-0.031	489569	71.8542	100.2604	33.0	2,4,5-Trichlorophenol
8.756	-0.036	505263	9.349	-0.031	666942	73.8571	100.3206	30.4	2,3,4-Trichlorophenol
8.990	-0.017	1055773	9.257	-0.020	1529812	74.8477	82.6263	9.9	2,3,5,6-Tetrachlorophenol
10.387	-0.026	762767	11.103	-0.023	1154091	100.3602	79.0976	23.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009	341711	7.153	-0.013	457854	1004.0557	1002.7434	0.1	2,4-Dichlorophenol
9.983	-0.019	994034	10.627	-0.019	1608339	100.2	86.2	15.1	2,4,6-Tribromophenol (surr

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	400.8	344.6


/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d
AI@ 0809A010.cdf
ZB5 PCPF
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.616
9.702
9.865
10.675
10.841
11.103
11.413
11.533
11.863
11.965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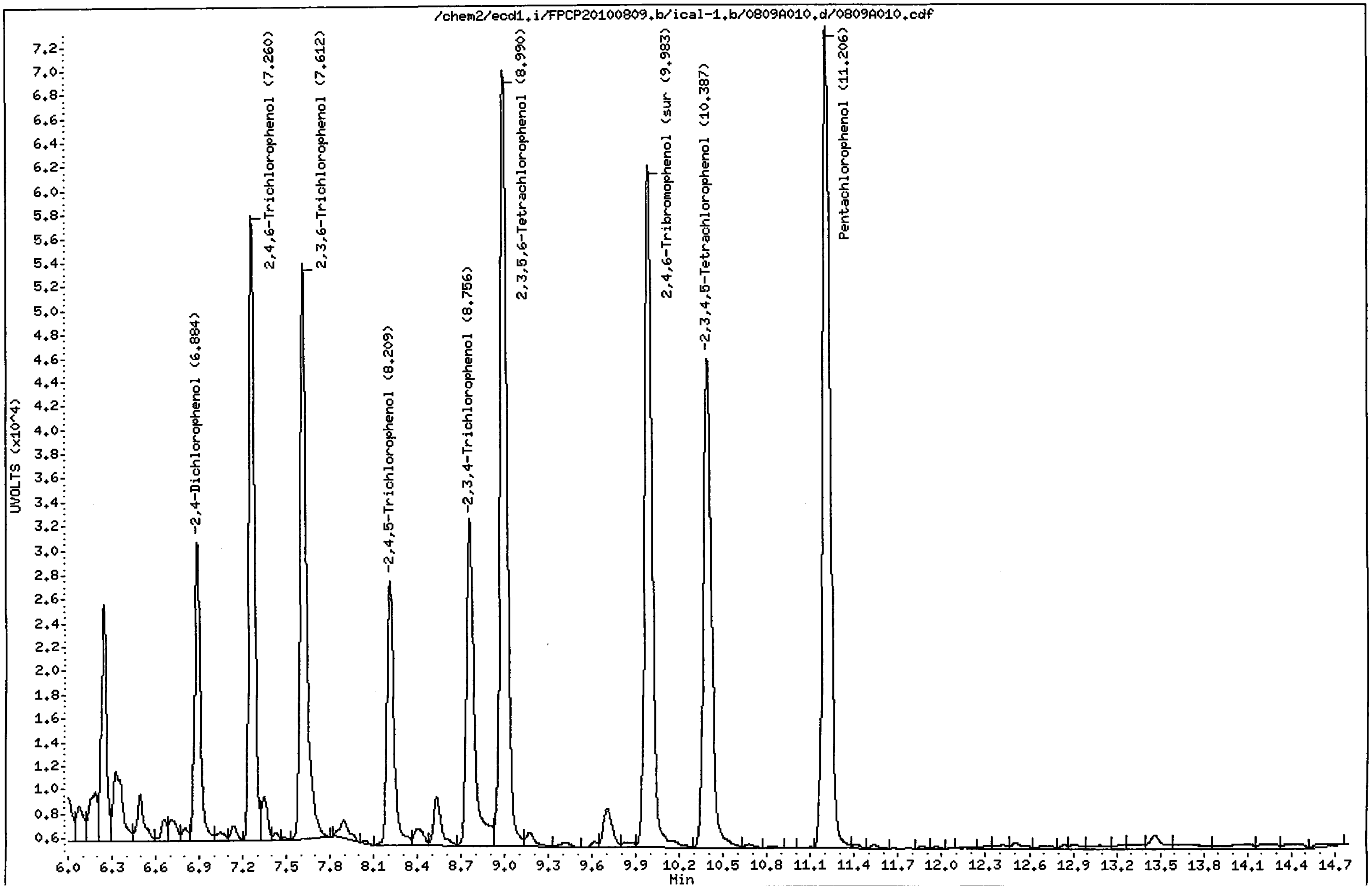
AI@ 0809A010.cdf
ZB35 PCPF
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.736
9.923
10.130
10.243
10.400
10.467
10.905
10.986
11.438
11.530
11.944

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB5

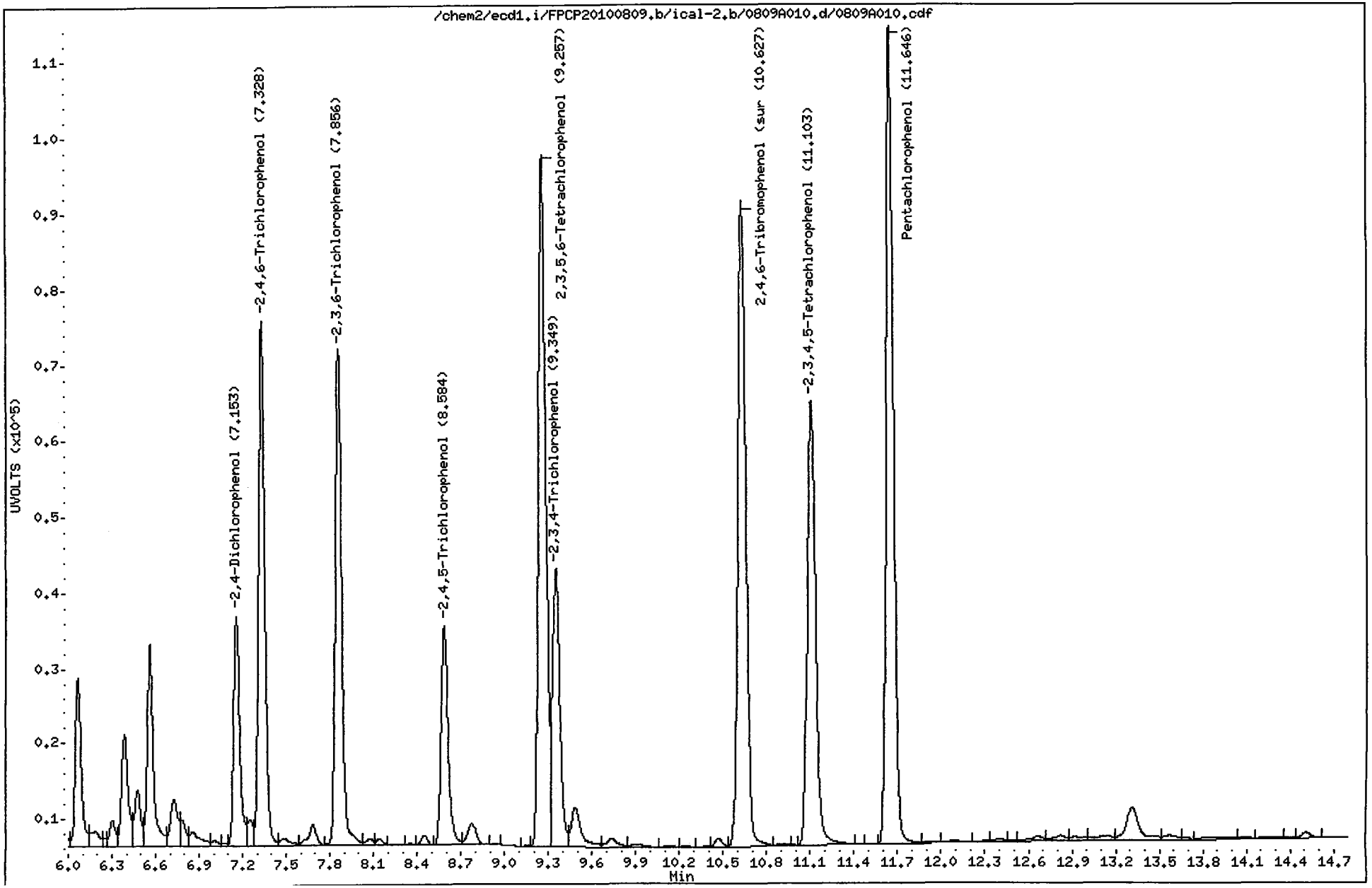
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB35

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



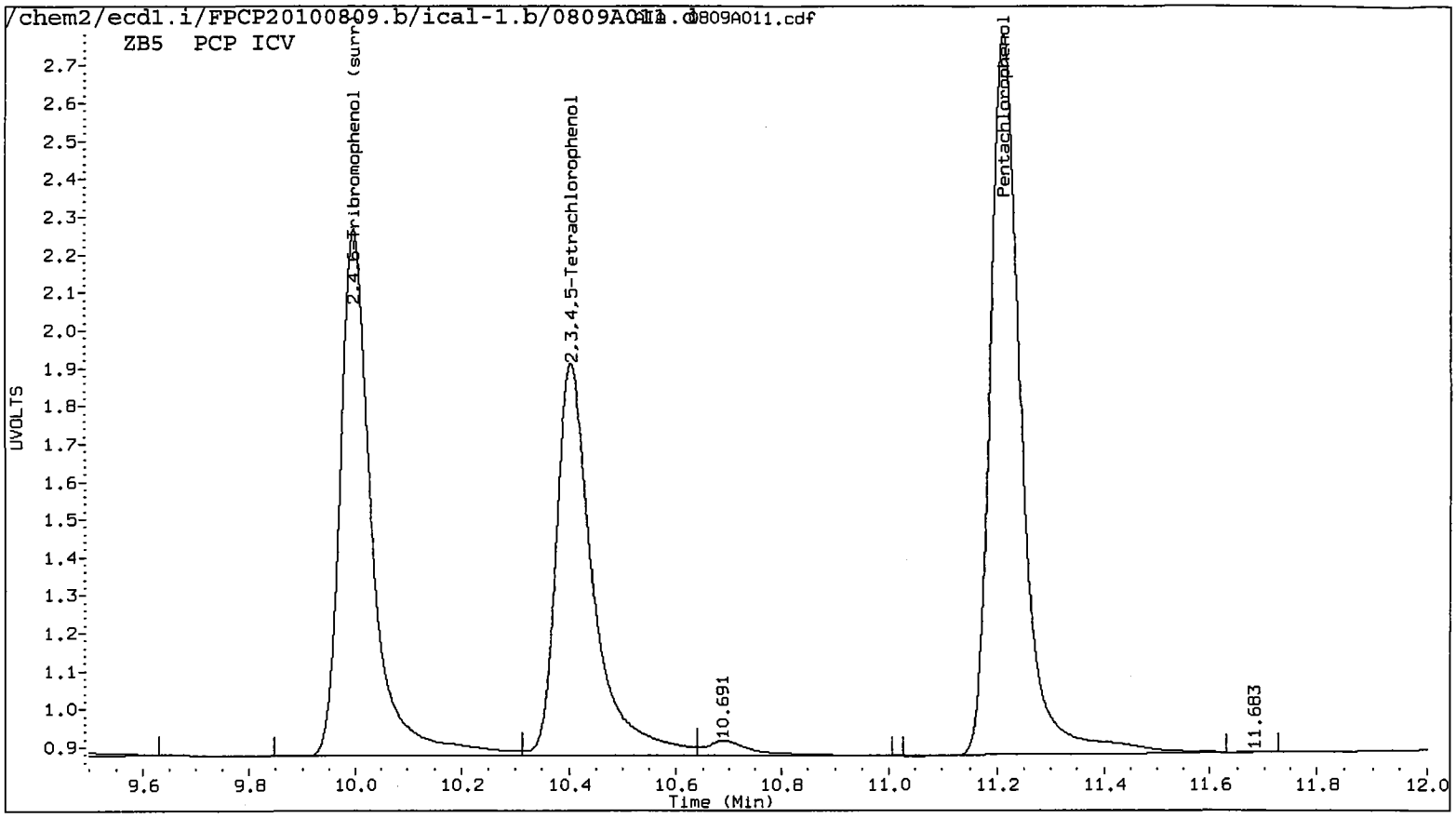
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A011.d ARI ID: PCP ICV
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:23
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	379790	11.652	-0.006	529883	24.4673	23.0771	5.8	Pentachlorophenol
7.262	-0.002	205092	7.330	-0.003	298811	24.1995	23.9344	1.1	2,4,6-Trichlorophenol
7.616	-0.003	218352	7.859	-0.005	286346	24.7503	23.0765	7.0	2,3,6-Trichlorophenol
8.230	-0.012	122402	8.599	-0.016	148542	24.2499	23.6199	2.6	2,4,5-Trichlorophenol
8.781	-0.011	146955	9.367	-0.013	237744	21.4812	28.5412	28.2	2,3,4-Trichlorophenol
9.000	-0.007	327277	9.265	-0.012	434865	23.2019	23.4874	1.2	2,3,5,6-Tetrachlorophenol
10.405	-0.008	246924	11.114	-0.012	318432	23.7688	21.8243	8.5	2,3,4,5-Tetrachlorophenol
6.888	-0.005	114813	7.158	-0.008	155429	231.5174	251.6722	8.3	2,4-Dichlorophenol
9.997	-0.005	292116	10.636	-0.010	411868	23.5	22.1	6.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	97.9	92.3
2,4,6-Trichlorophenol	96.8	95.7
2,3,6-Trichlorophenol	99.0	92.3
2,4,5-Trichlorophenol	97.0	94.5
2,3,4-Trichlorophenol	85.9	114.2
2,3,5,6-Tetrachlorophenol	92.8	93.9
2,3,4,5-Tetrachlorophenol	95.1	87.3
2,4-Dichlorophenol	92.6	100.7
2,4,6-TBP (surr)	47.0	44.1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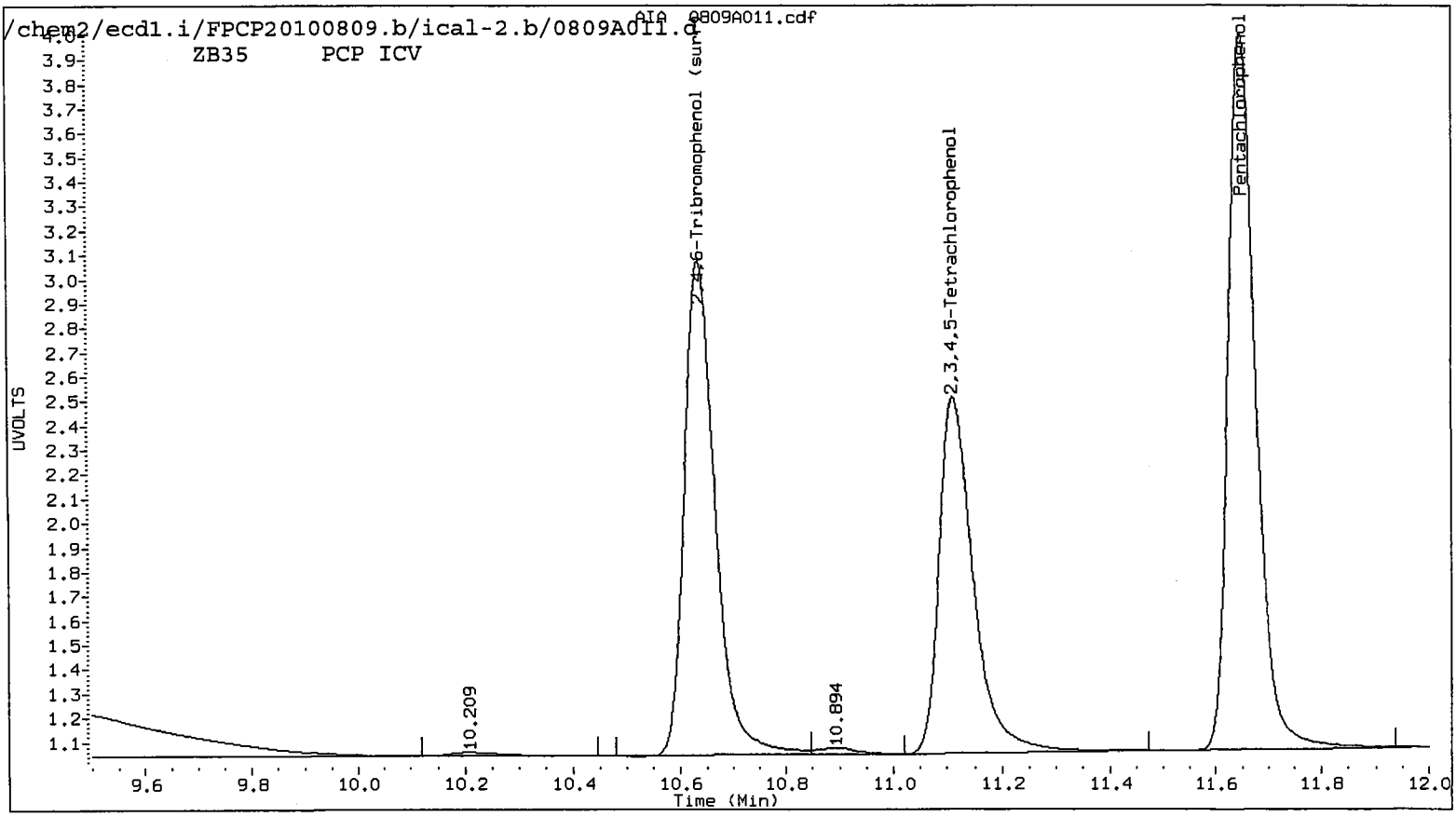
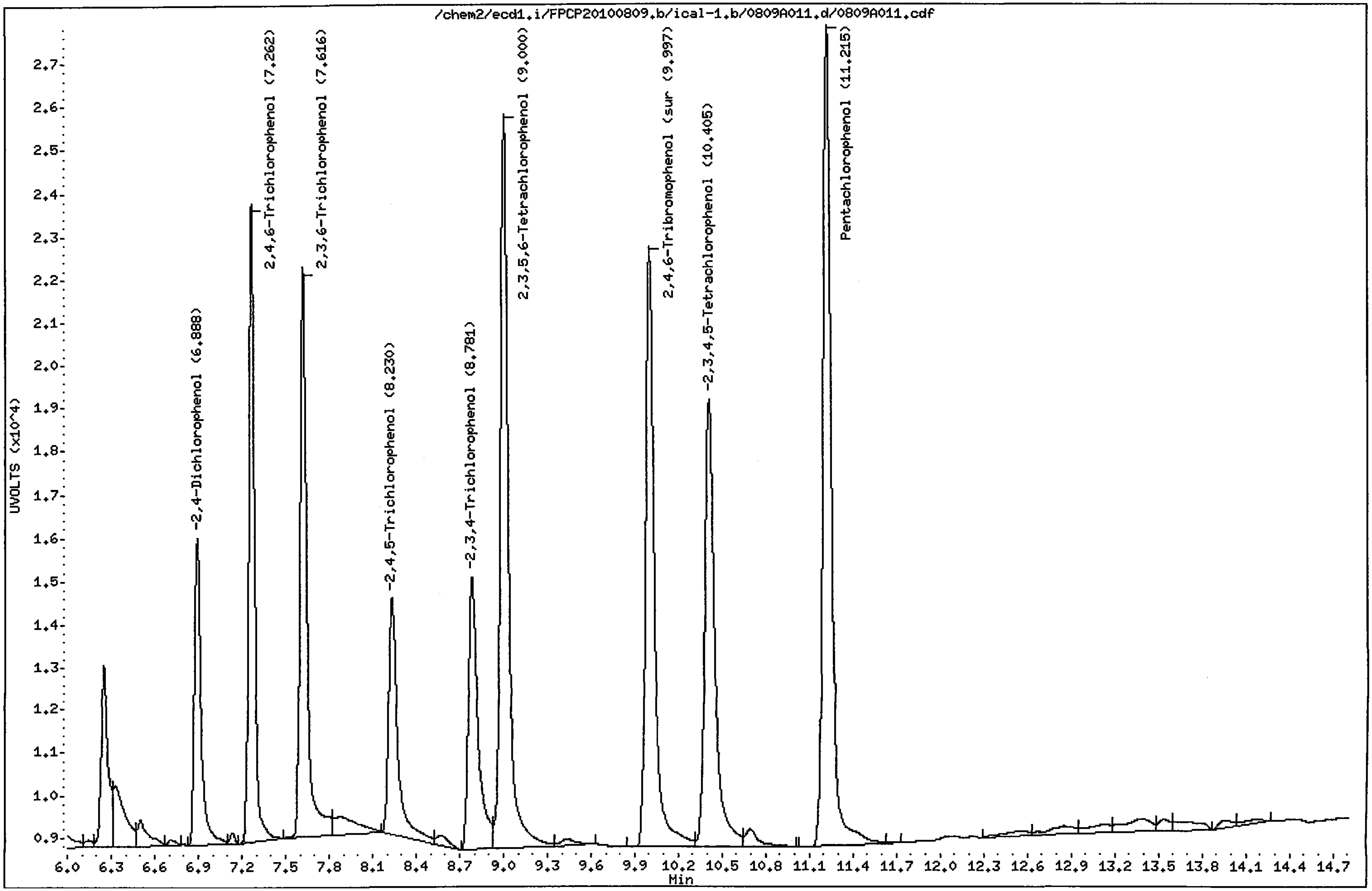
AIA 0809A011.cdf
ZB5 PCP ICV
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
10.691
11.683
LVOLTS
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d
AIA 0809A011.cdf
ZB35 PCP ICV
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
10.209
10.894
LVOLTS
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A011.d
Date : 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB5

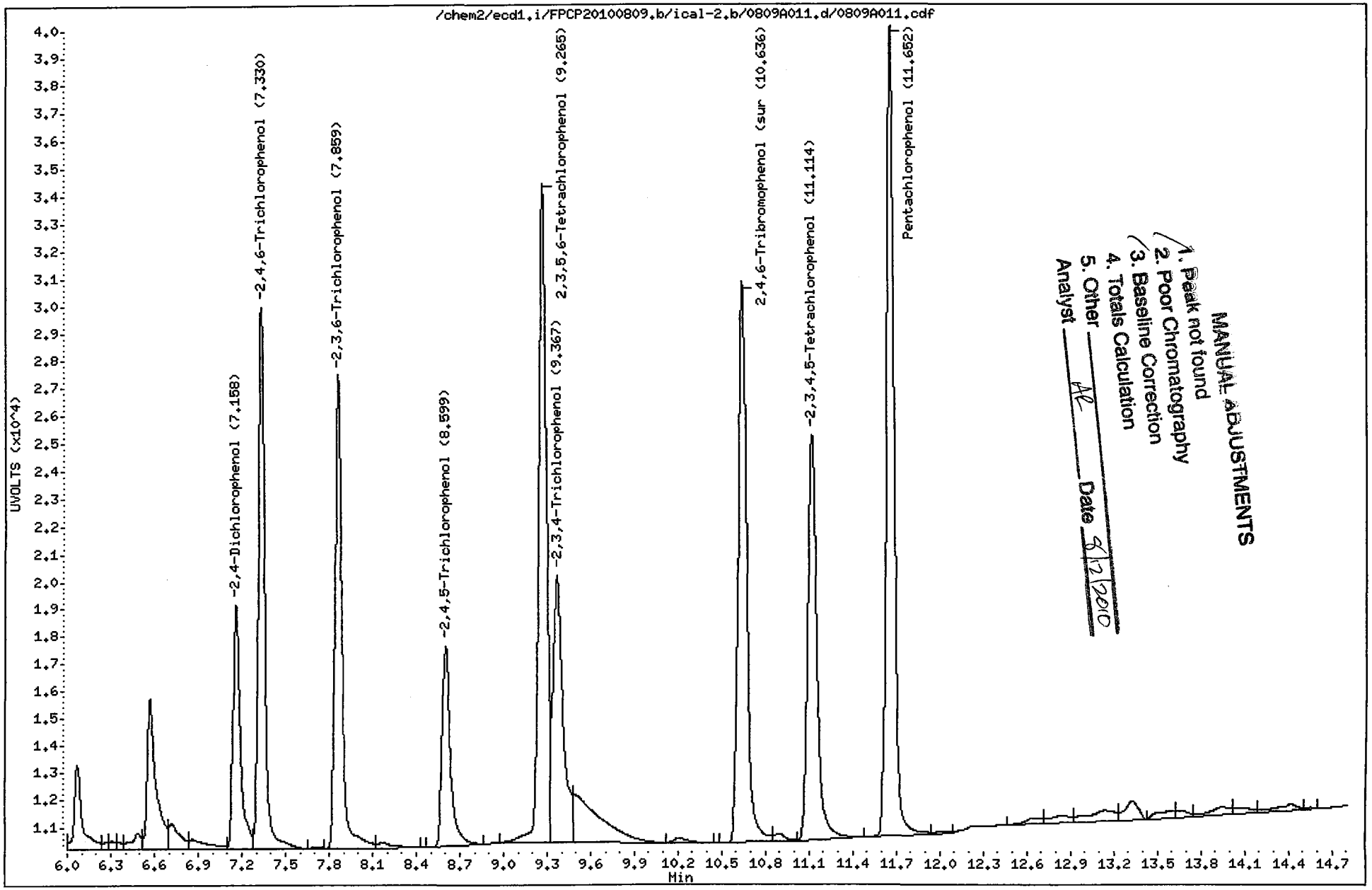
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d
Date : 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB35

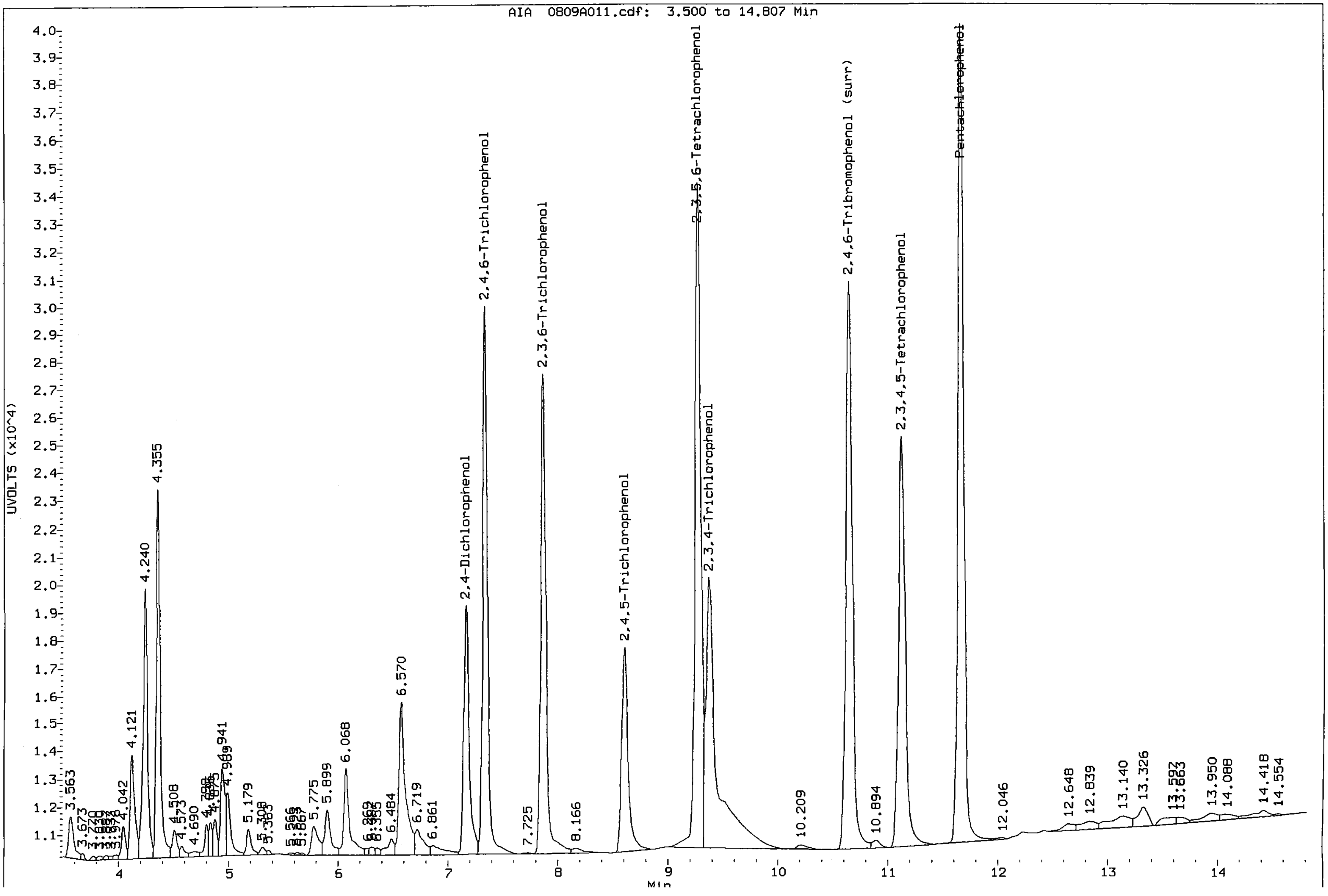
Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



RG78:01003

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d/0809A011.cdf
Injection Date: 09-AUG-2010 14:23
Instrument: ecd1.i
Client Sample ID:

Before AR 8/12/2010



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

ARI Job ID: RG78

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/21/2010 Analysis: Cl. Phenols Analyst: AR

GC Program: PCPFAST.M Column No: 150606/148146 Column Type: ZB5/35

Instrument Tune (.U or .CT.): NA EM Voltage: NA

Calibration File: FPCP20100809.b Curve Date: 8/9/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-2 & 1739-1	1703-2 & 1731-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0821-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	21-AUG-2010 12:57	0821A004.d	1	PCPCCAL - Passes	
2	21-AUG-2010 13:17	0821A005.d	1	RG79MBS1	RG79MBS1
3	21-AUG-2010 13:37	0821A006.d	1	RG79LCSS1	RG79LCSS1
4	21-AUG-2010 13:57	0821A007.d	1	RG79A	PSB11-0-0.5-073010
5	21-AUG-2010 14:17	0821A008.d	1	RG79B	PSB11-1.5-2-073010
6	21-AUG-2010 14:37	0821A009.d	1	RG79C	PSB11-2-4-073010
7	21-AUG-2010 14:57	0821A010.d	1	RG79D	PSB11-2-4-073010-D
8	21-AUG-2010 15:17	0821A011.d	1	RG79E	PSB11-4-6-073010
9	21-AUG-2010 15:37	0821A012.d	1	RG79EMS	PSB11-4-6-07301 MS
10	21-AUG-2010 15:57	0821A013.d	1	RG79EMSD	PSB11-4-6-07301 MSD
11	21-AUG-2010 16:17	0821A014.d	1	RG79G	PSB11-11-13-073010
12	21-AUG-2010 16:37	0821A015.d	1	PCP	
13	21-AUG-2010 16:57	0821A016.d	1	PCPCCAL - Fails low	
14	21-AUG-2010 17:16	0821A017.d	1	RG94A	MW14-15-16.5-080210
15	21-AUG-2010 17:36	0821A018.d	1	RG94E	MW13-18.5-19.5-0802
16	21-AUG-2010 17:56	0821A019.d	1	RG94F	MW13-18.5-19.5-0802
17	21-AUG-2010 18:16	0821A020.d	1	RG94J	MW12-17.5-19-080210
18	21-AUG-2010 18:36	0821A021.d	1	PCP	
19	21-AUG-2010 18:56	0821A022.d	1	PCPCCAL - Fails low	
20	21-AUG-2010 19:16	0821A023.d	1	RG79H	PSB11-14-16-073010
21	21-AUG-2010 19:36	0821A024.d	1	RG79K	PSB15-0-0.5-073010
22	21-AUG-2010 19:56	0821A025.d	1	RG79L	PSB15-1.5-2-073010
23	21-AUG-2010 20:16	0821A026.d	1	RG79M	PSB15-2-4-073010
24	21-AUG-2010 20:36	0821A027.d	1	RG79N	PSB15-4-6-073010
25	21-AUG-2010 20:56	0821A028.d	1	RG79O	PSB15-13-15-073010
26	21-AUG-2010 21:16	0821A029.d	1	RG79P	PSB15-17-19-073010
27	21-AUG-2010 21:36	0821A030.d	1	RG79Q	PSB15-17-19-073010-
28	21-AUG-2010 21:56	0821A031.d	1	RG78MBS1	RG78MBS1
29	21-AUG-2010 22:16	0821A032.d	1	RG78LCSS1	RG78LCSS1
30	21-AUG-2010 22:36	0821A033.d	1	PCP	
31	21-AUG-2010 22:56	0821A034.d	1	PCPCCAL - Passes	
32	21-AUG-2010 23:16	0821A035.d	1	RG78A	PSB9A-11-13.5-07301
33	21-AUG-2010 23:36	0821A036.d	1	RG78B	PSB9A-1.5-2-073010
34	21-AUG-2010 23:56	0821A037.d	1	RG78C	PSB9A-2-4-073010
35	22-AUG-2010 00:16	0821A038.d	1	RG78D	PSB9A-4-6-073010
36	22-AUG-2010 00:36	0821A039.d	1	RG78E	PSB9A-0-0.5-073010
37	22-AUG-2010 00:56	0821A040.d	1	RG78F	PSB10-0-0.5-073010
38	22-AUG-2010 01:16	0821A041.d	1	RG78G	PSB10-1.5-2-073010
39	22-AUG-2010 01:36	0821A042.d	1	RG78H	PSB10-2-4-073010
40	22-AUG-2010 01:56	0821A043.d	1	RG78I	PSB10-4-6-073010
41	22-AUG-2010 02:16	0821A044.d	1	RG78J	PSB10-8.5-10-073010
42	22-AUG-2010 02:36	0821A045.d	1	PCP	
43	22-AUG-2010 02:56	0821A046.d	1	PCPCCAL - Passes	
44	22-AUG-2010 03:16	0821A047.d	1	RG78JMS	PSB10-8.5-10-07 MS
45	22-AUG-2010 03:36	0821A048.d	1	RG78JMSD	PSB10-8.5-10-07 MSD
46	22-AUG-2010 03:56	0821A049.d	1	RG78K	PSB10-14-15-073010
47	22-AUG-2010 04:16	0821A050.d	1	RG78L	PSB10-20-25-073010
48	22-AUG-2010 04:36	0821A051.d	1	RG78S	PSB9-8.5-9.5-073010
49	22-AUG-2010 04:56	0821A052.d	1	PCP	
50	22-AUG-2010 05:16	0821A053.d	1	PCPCCAL - Passes	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG78 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): NA / ~~10~~ AR 8123 g / 25mL FV

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

Dates: Curve: 8/9/2010 Analysis Start: 8/21/2010

Endrin/DDT Breakdown <15%? YES / NO / NA
Method Blank In Control? YES / NO / NA
ICal Meets RF & %RSD Criteria? YES / NO
LCS/LCSD Recovery In Control? YES / NO / NA
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 VDP

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

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/23/2010

Reviewer: _____ **Date:** 8/25/10

AR 8/24/10

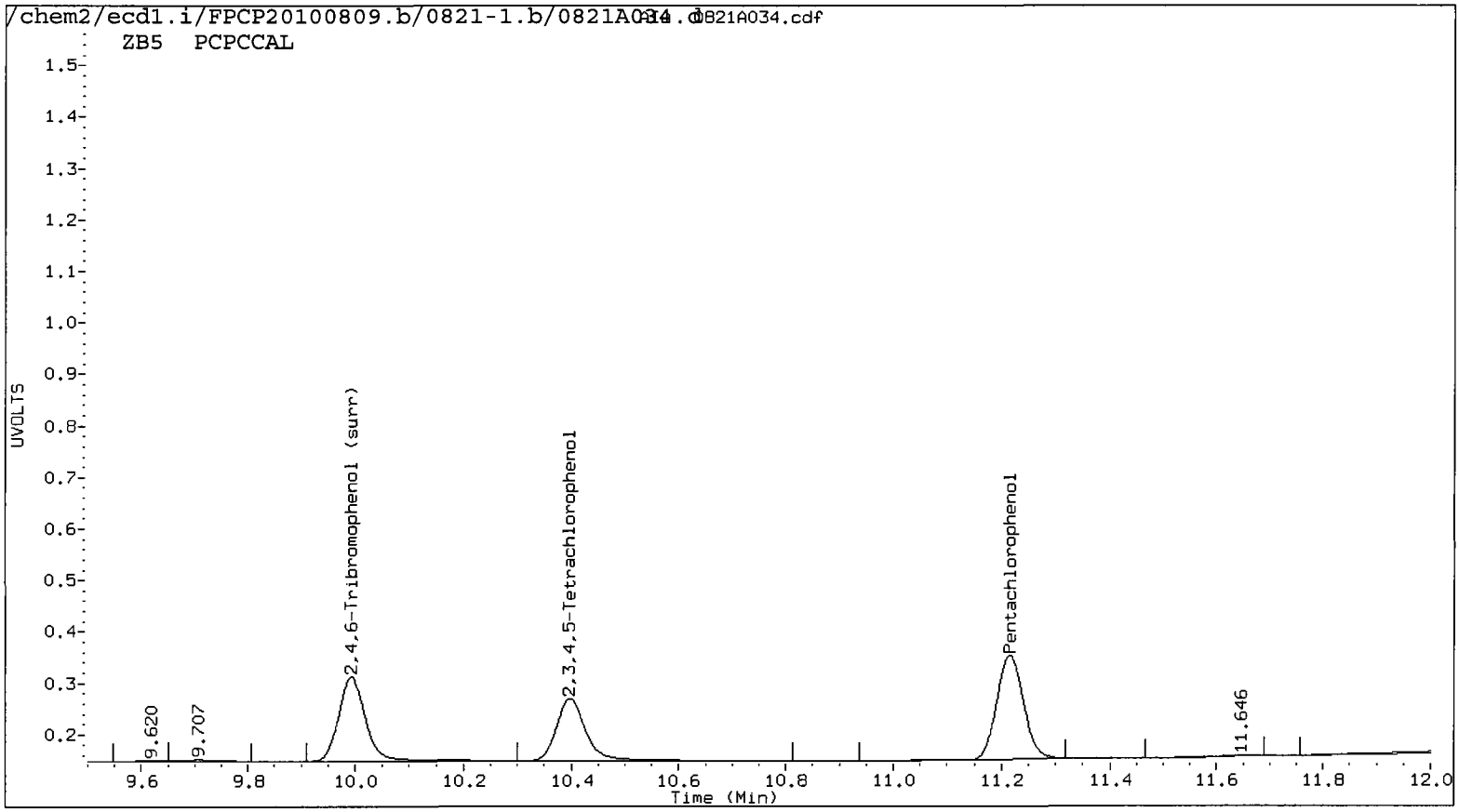
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A034.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A034.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 22:56
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	336153	11.652	-0.006	543941	21.3078	23.6893	10.6	Pentachlorophenol
7.265	0.001	209153	7.333	0.000	306249	24.7388	24.5302	0.8	2,4,6-Trichlorophenol
7.618	-0.001	206651	7.860	-0.004	285815	23.2950	23.0338	1.1	2,3,6-Trichlorophenol
8.220	-0.022	116052	8.592	-0.023	154259	22.9919	24.6475	7.0	2,4,5-Trichlorophenol
8.768	-0.024	140289	9.358	-0.022	193833	20.5069	22.6675	10.0	2,3,4-Trichlorophenol
8.998	-0.009	312444	9.264	-0.013	440212	22.1504	23.7762	7.1	2,3,5,6-Tetrachlorophenol
10.397	-0.016	228298	11.110	-0.016	316357	21.6849	21.6821	0.0	2,3,4,5-Tetrachlorophenol
6.890	-0.003	105930	7.159	-0.007	143238	209.7824	228.6371	8.6	2,4-Dichlorophenol
9.993	-0.009	282076	10.634	-0.012	433389	22.6	23.2	2.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	85.2	94.8
2,4,6-Trichlorophenol	99.0	98.1
2,3,6-Trichlorophenol	93.2	92.1
2,4,5-Trichlorophenol	92.0	98.6
2,3,4-Trichlorophenol	82.0	90.7
2,3,5,6-Tetrachlorophenol	88.6	95.1
2,3,4,5-Tetrachlorophenol	86.7	86.7
2,4-Dichlorophenol	83.9	91.5
2,4,6-TBP (surr)	90.5	92.9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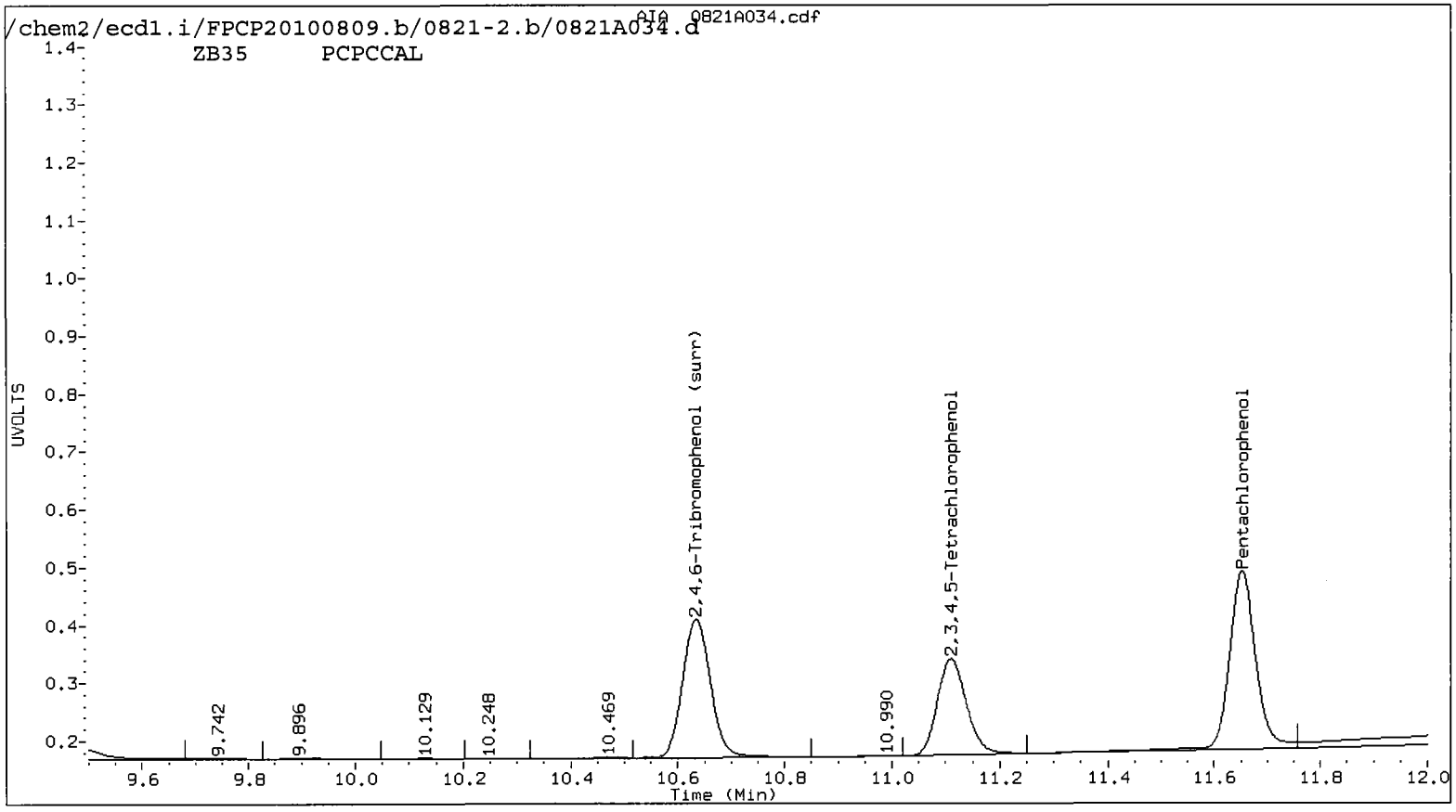
AIA 0821A034.cdf
ZB5 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.620
9.707
11.646
Time (Min)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ZB35 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.742
9.896
10.129
10.248
10.469
10.990
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A034.d

Page 1

Date : 21-AUG-2010 22:56

Client ID:

Instrument: ecd1.i

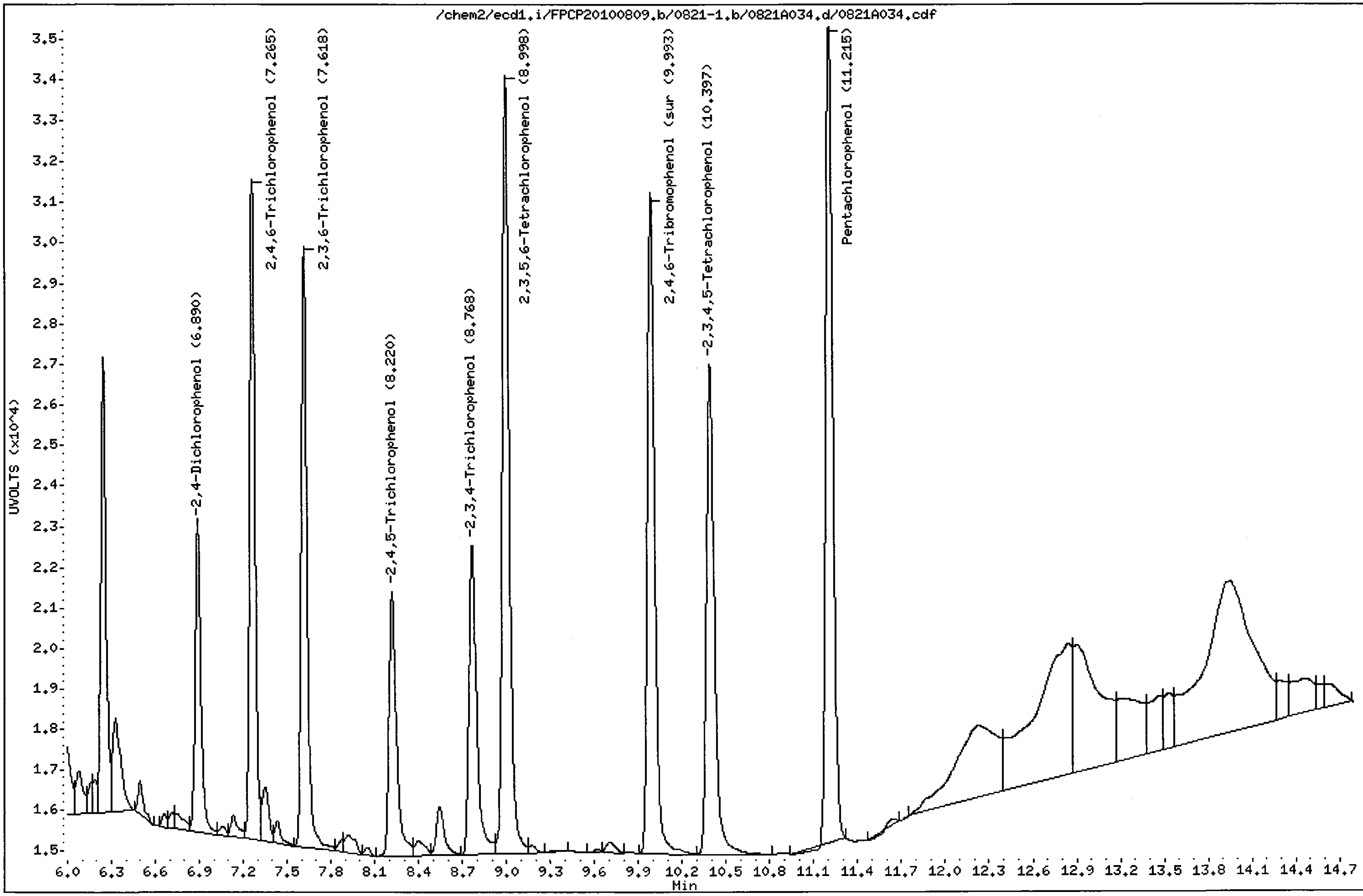
Sample Info: PCPCCAL

Purge Volume: 2.0

Operator: ar

Column phase: ZB5

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

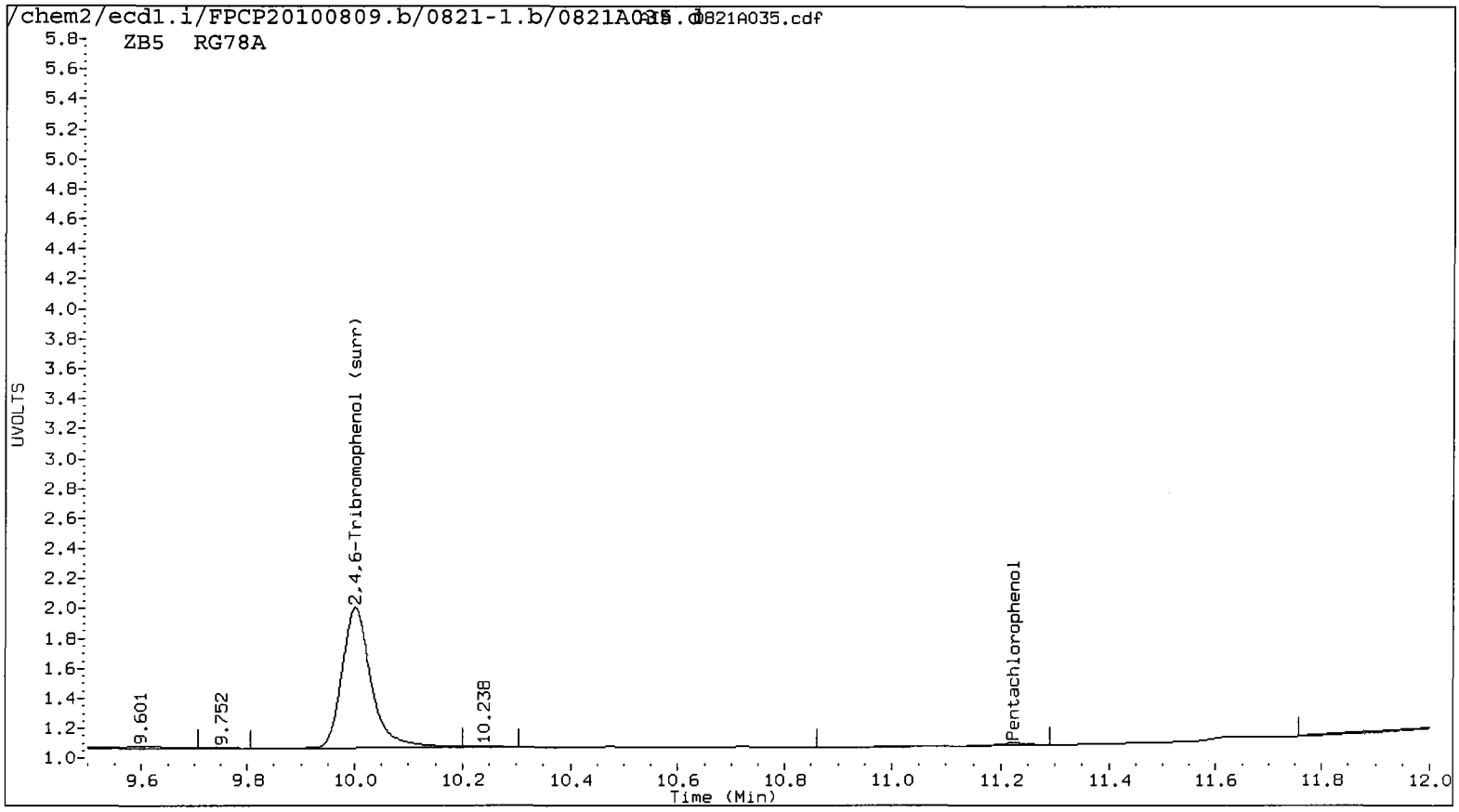
AR 8/23/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A035.d ARI ID: RG78A
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A035.d Client ID: PSB9A-11-13.5-07301
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 23:16
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.223	0.004	853	11.667	0.009	6621	0.0473	0.2884	143.7*	Pentachlorophenol
7.290	0.026	16607	7.371	0.038	15101	1.7383	1.2096	35.9	2,4,6-Trichlorophenol
----			7.838	-0.026	4393	0.0000	0.3541	---	2,3,6-Trichlorophenol
8.223	-0.020	5411	----			1.0722	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.024	0.017	28477	9.268	-0.009	11659	2.0188	0.6297	104.9*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.853	-0.040	2052	7.163	-0.003	6036	3.1989	8.0718	86.5*	2,4-Dichlorophenol
10.001	-0.001	176467	10.639	-0.007	259940	13.6	13.9	2.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	54.5	55.7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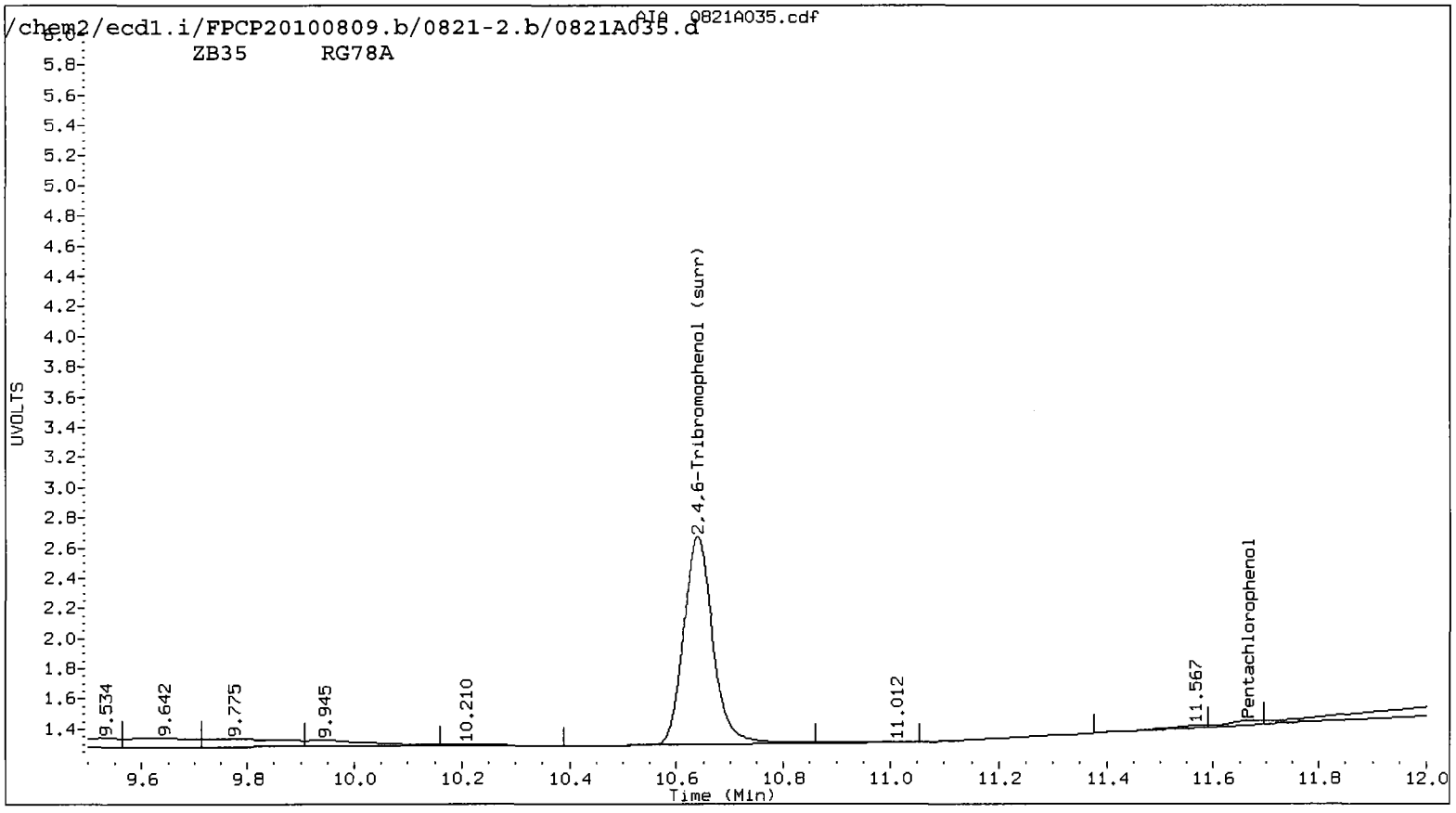
0821A035.cdf
ZB5 RG78A
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.601
9.752
10.238
Time (Min)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ZB35 RG78A
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.534
9.642
9.775
9.945
10.210
11.012
11.567
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A035.d

Page 1

Date : 21-AUG-2010 23:16

Client ID: PSB9A-11-13.5-07301

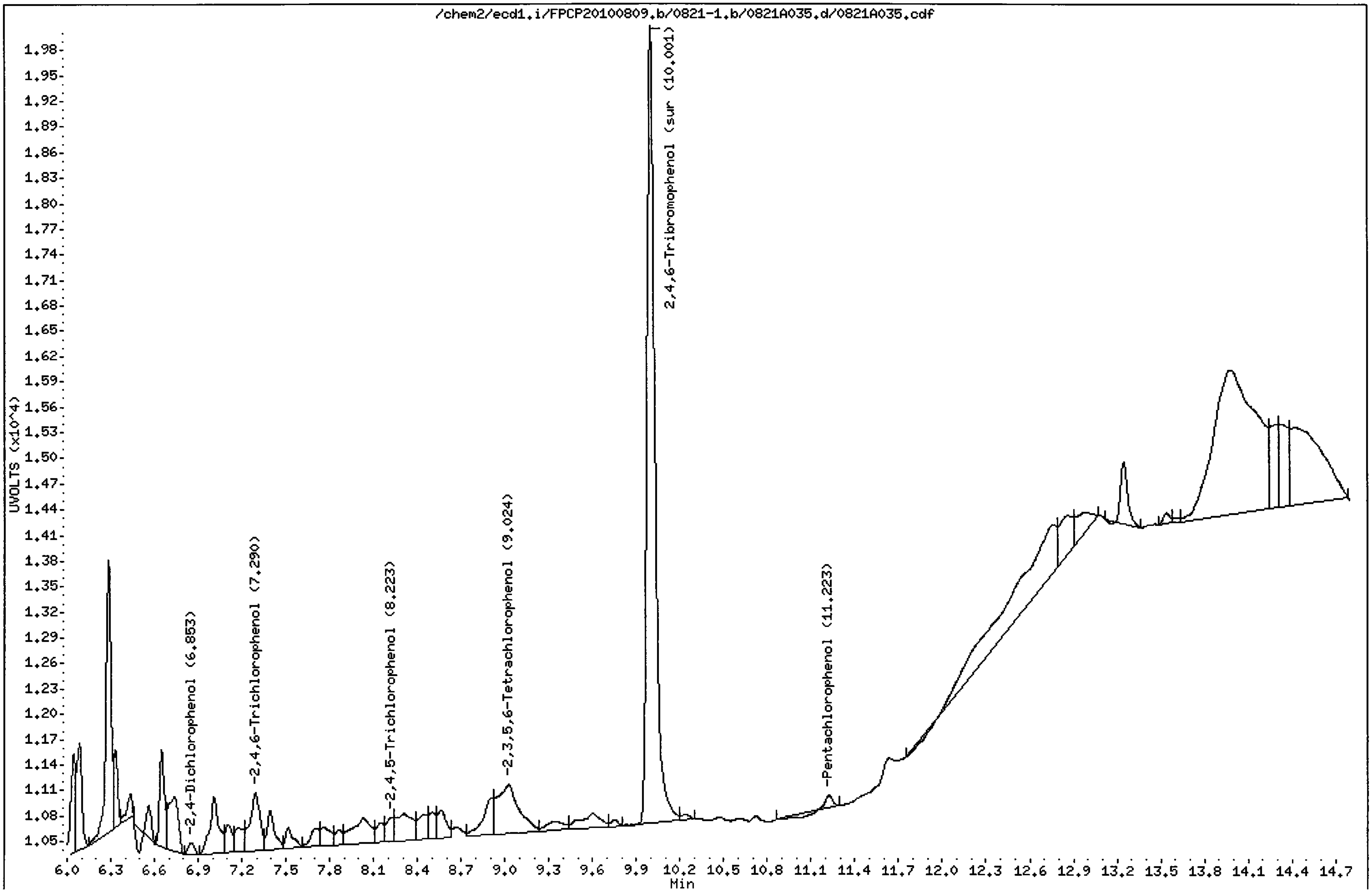
Instrument: ecd1.i

Sample Info: RG78A

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 01013

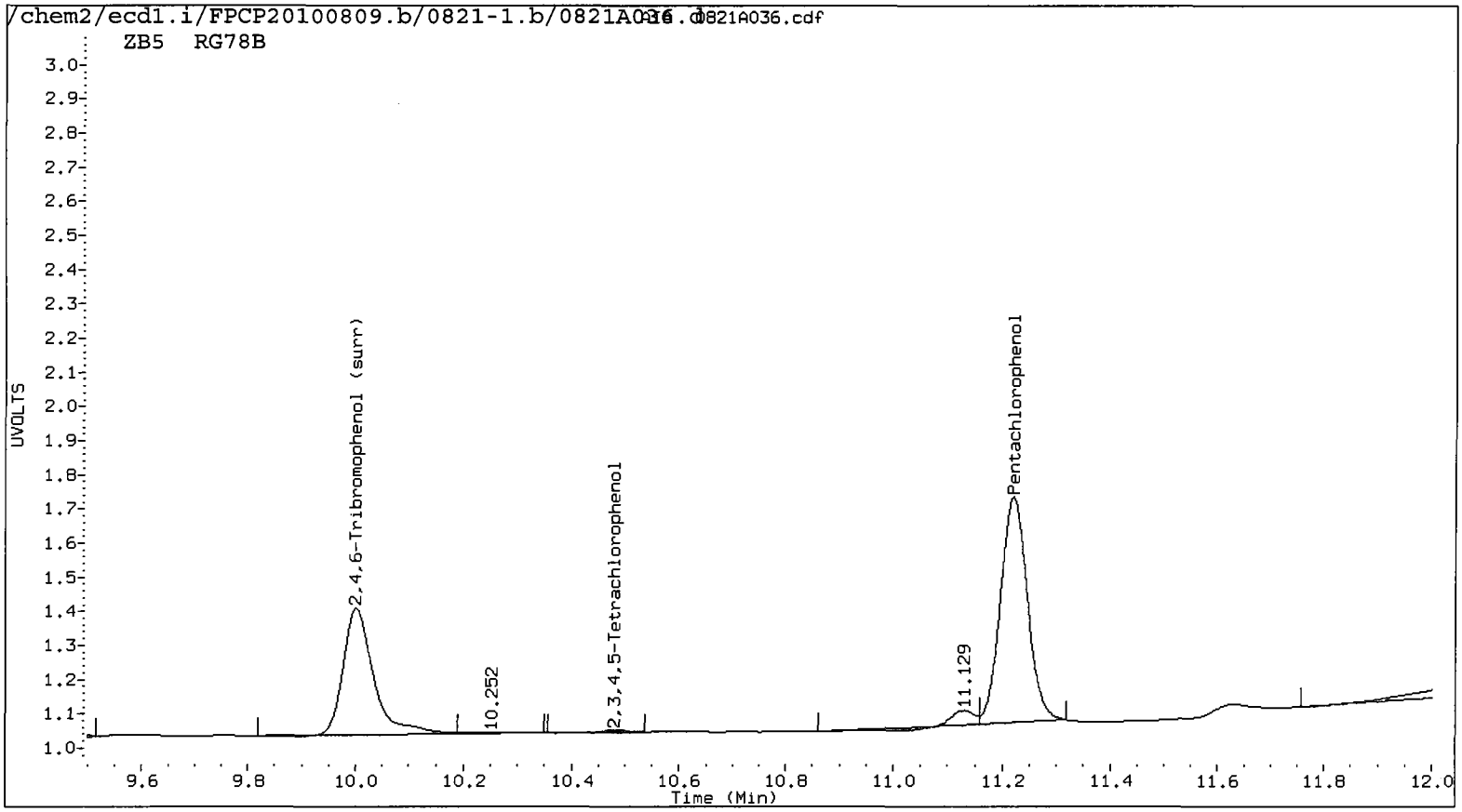
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A036.d ARI ID: RG78B
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A036.d Client ID: PSB9A-1.5-2-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 23:36
Compound Sublist: all Report Date: 08/23/2010 13:43
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.220	0.001	114134	11.657	-0.001	172187	6.6328	7.4990	12.3	Pentachlorophenol
7.287	0.023	13632	7.371	0.038	4808	1.4241	0.3851	114.8*	2,4,6-Trichlorophenol
7.679	0.060	2614	7.836	-0.028	1905	0.2663	0.1536	53.7*	2,3,6-Trichlorophenol
----			8.578	-0.037	2657	0.0000	0.3705	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.034	0.027	37257	9.293	0.016	19973	2.6413	1.0788	84.0*	2,3,5,6-Tetrachlorophenol
10.479	0.066	989	----			0.0786	0.0000	---	2,3,4,5-Tetrachlorophenol
6.858	-0.035	848	7.166	0.000	2614	1.3179	3.4793	90.1*	2,4-Dichlorophenol
10.001	-0.001	74374	10.640	-0.006	97923	5.5	5.2	5.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	22.1	21.0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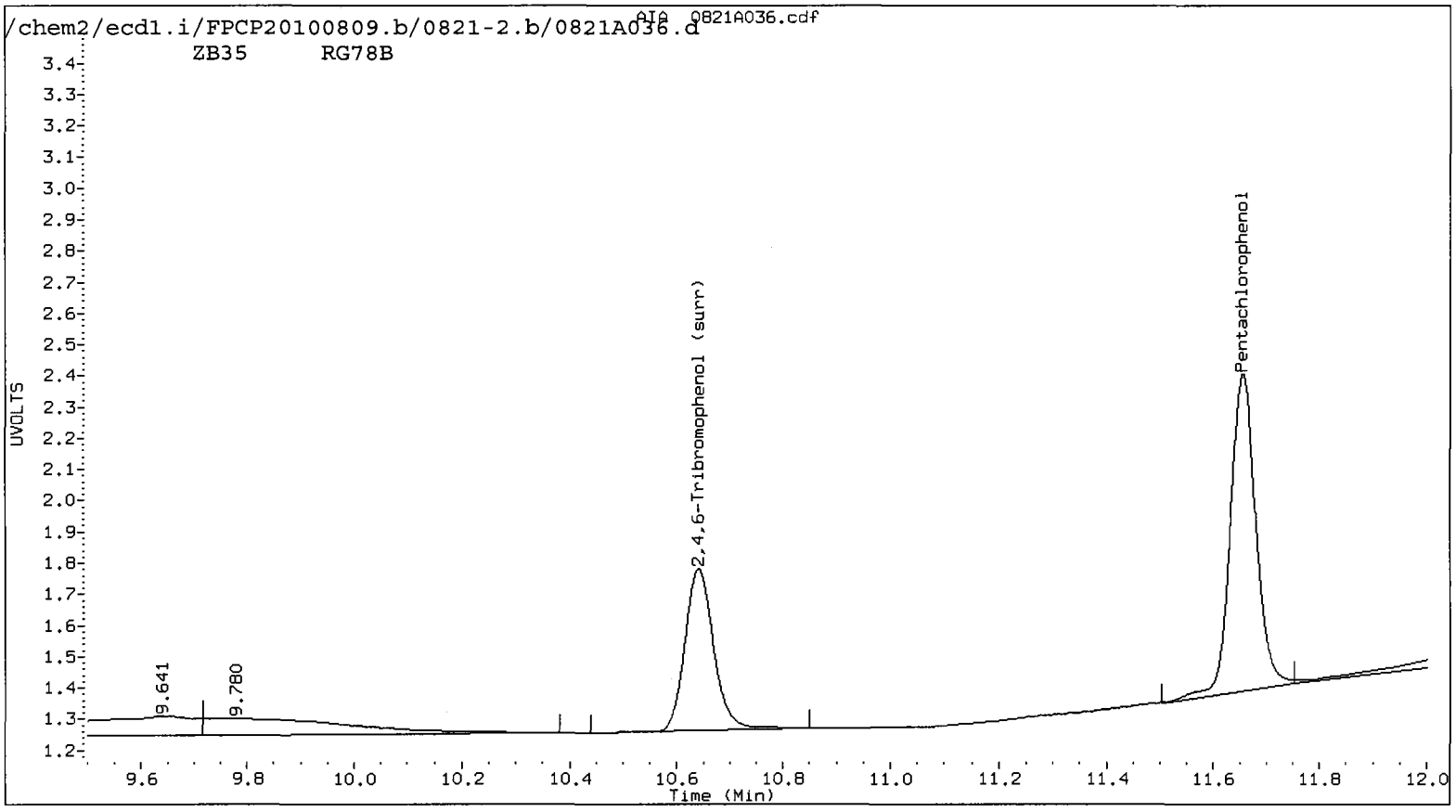
AIa 0821A036.cdf
ZB5 RG78B
UVOLTS
2,4,6-Tribromophenol (surr)
10.252
2,3,4,5-Tetrachlorophenol
11.129
Pentachlorophenol
Time (Min)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AIa 0821A036.cdf
ZB35 RG78B
UVOLTS
9.641
9.780
2,4,6-Tribromophenol (surr)
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A036.d

Page 1

Date : 21-AUG-2010 23:36

Client ID: PSB9A-1.5-2-073010

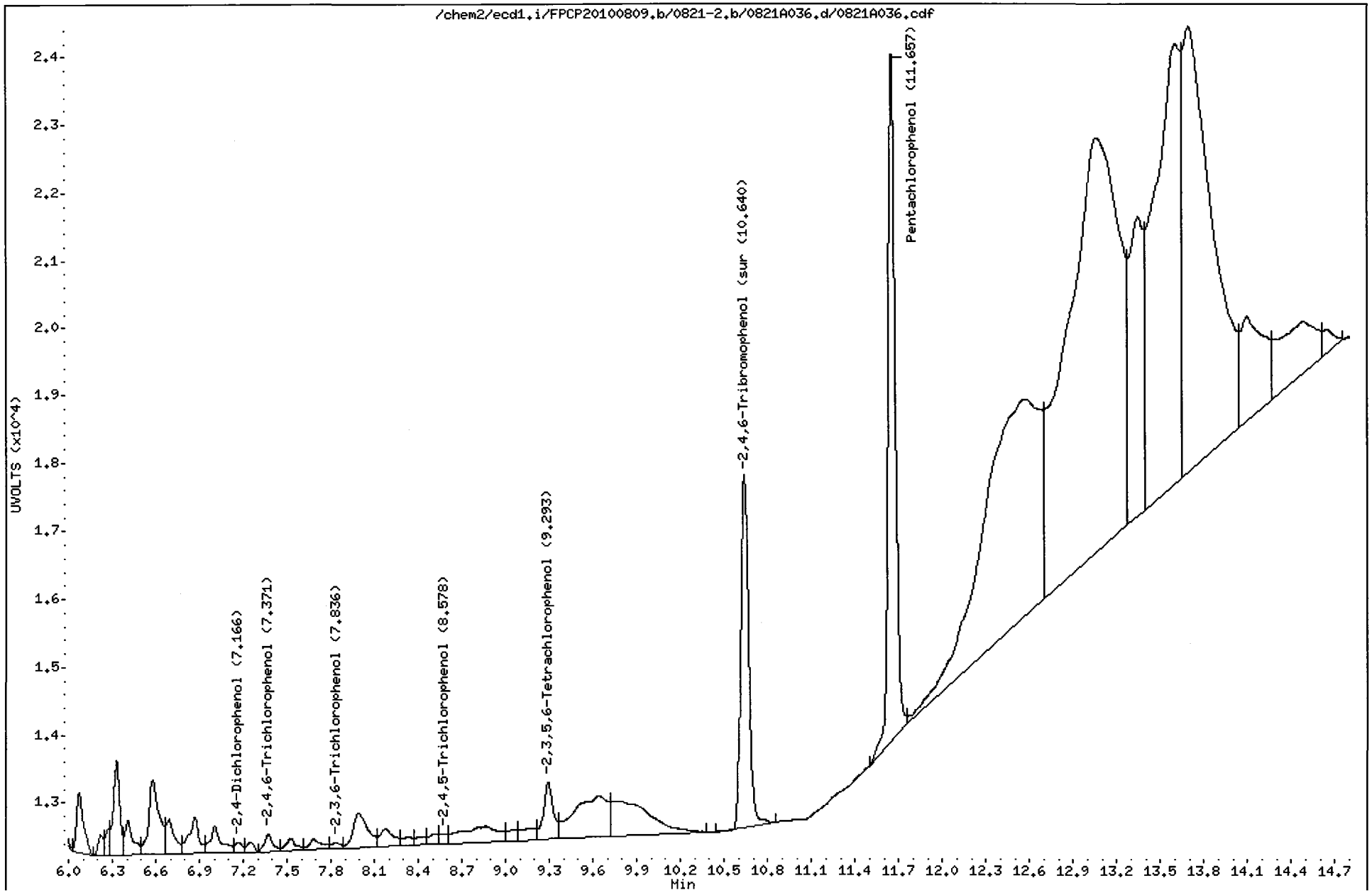
Instrument: ecd1.i

Sample Info: RG78B

Operator: ar

Column phase: ZB35

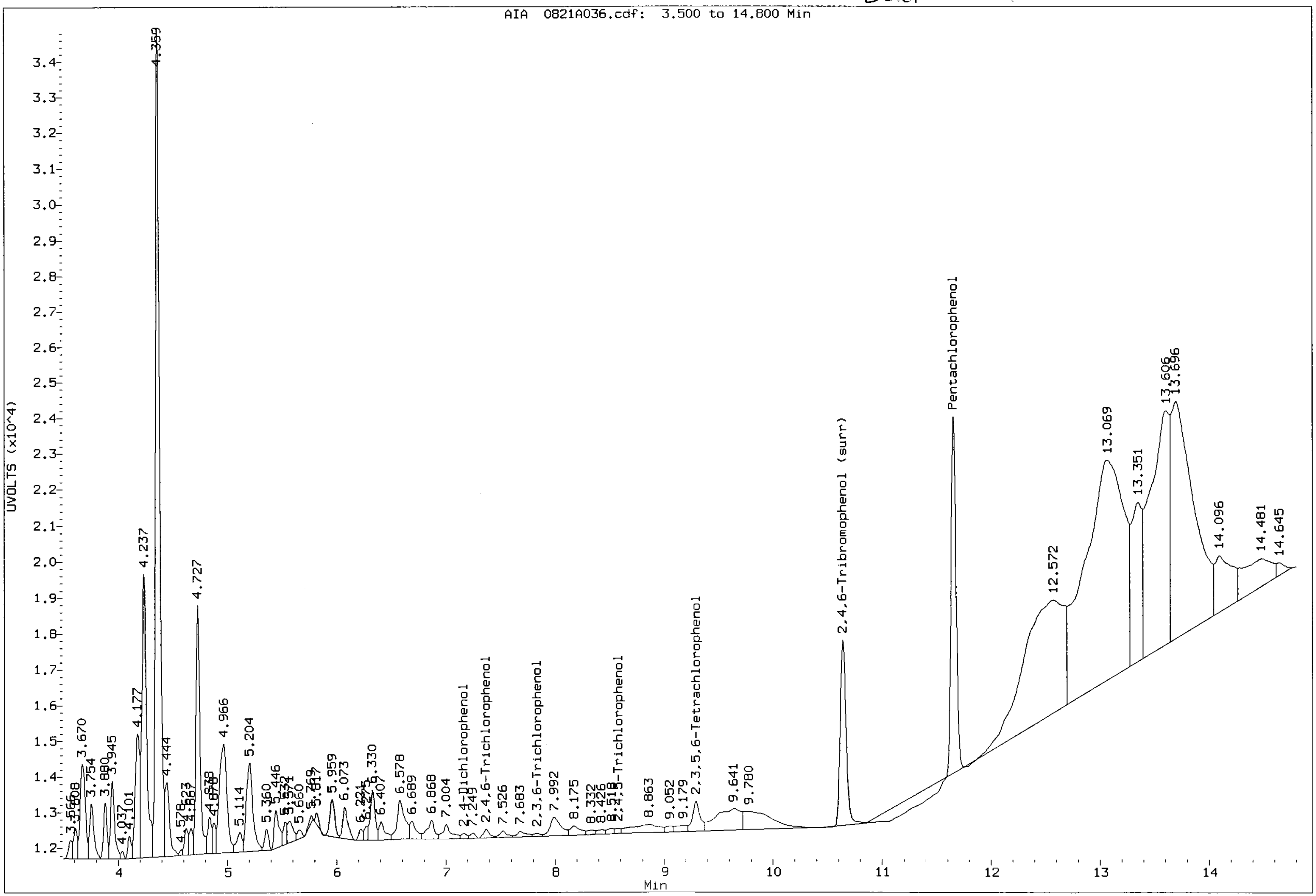
Column diameter: 0.53



RG78B:0104S

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A036.d/0821A036.cdf
Injection Date: 21-AUG-2010 23:36
Instrument: ecd1.i
Client Sample ID: PSB9A-1.5-2-073010

Before AR 8/23/200



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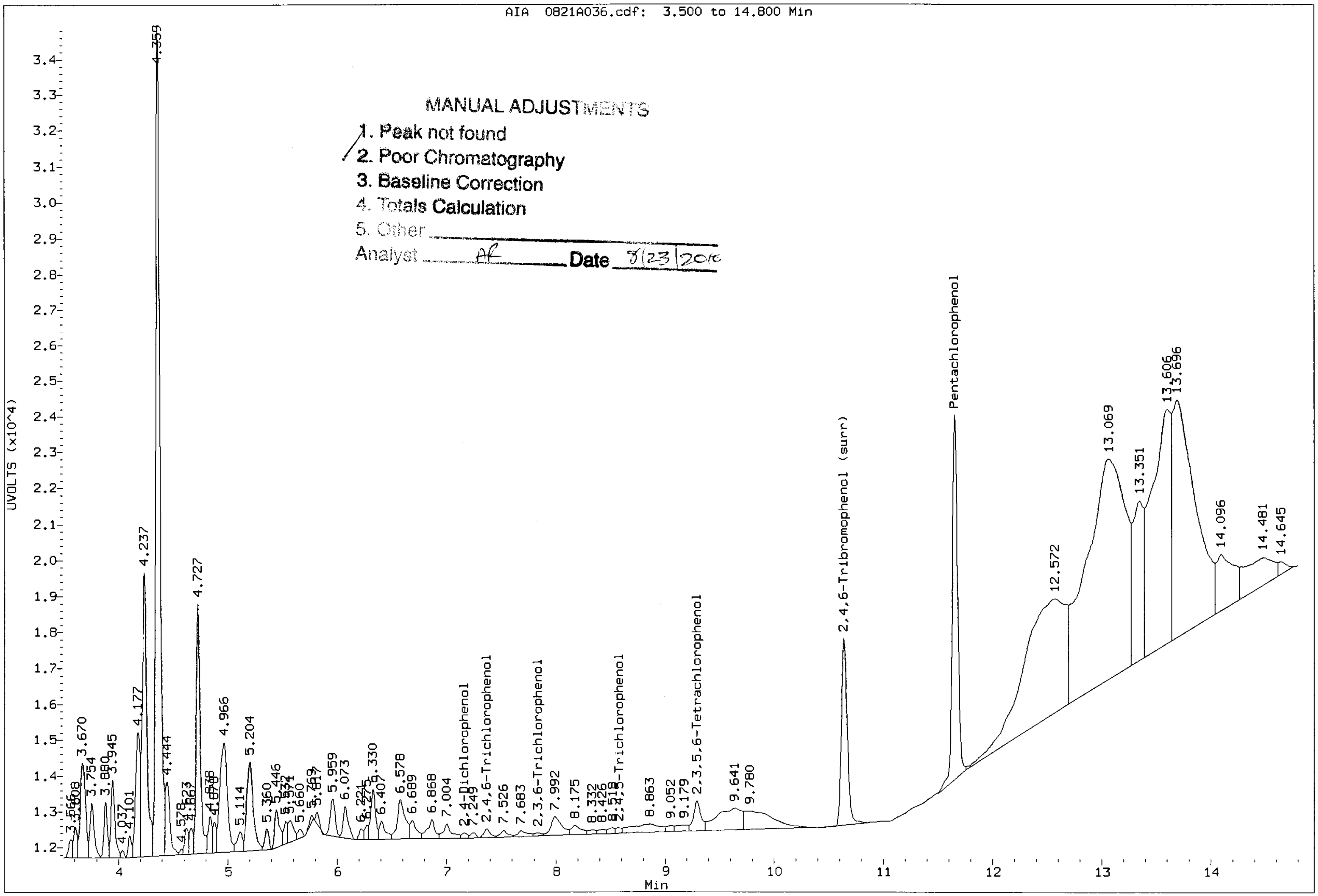
Injection Date: 21-AUG-2010 23:36
Instrument: ecd1.i
Client Sample ID: PSB9A-1.5-2-073010



MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other
Analyst AR Date 8/23/2010

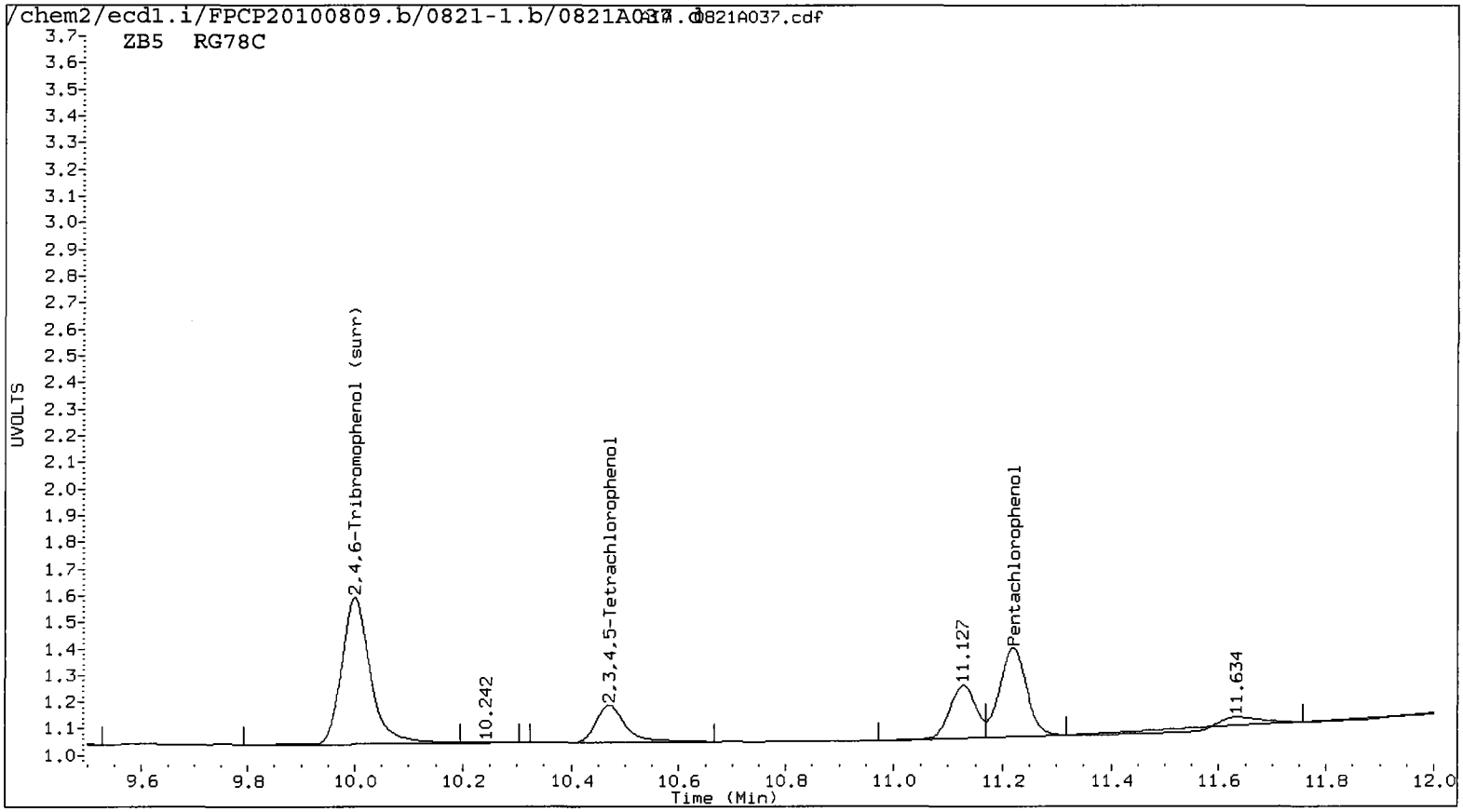
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

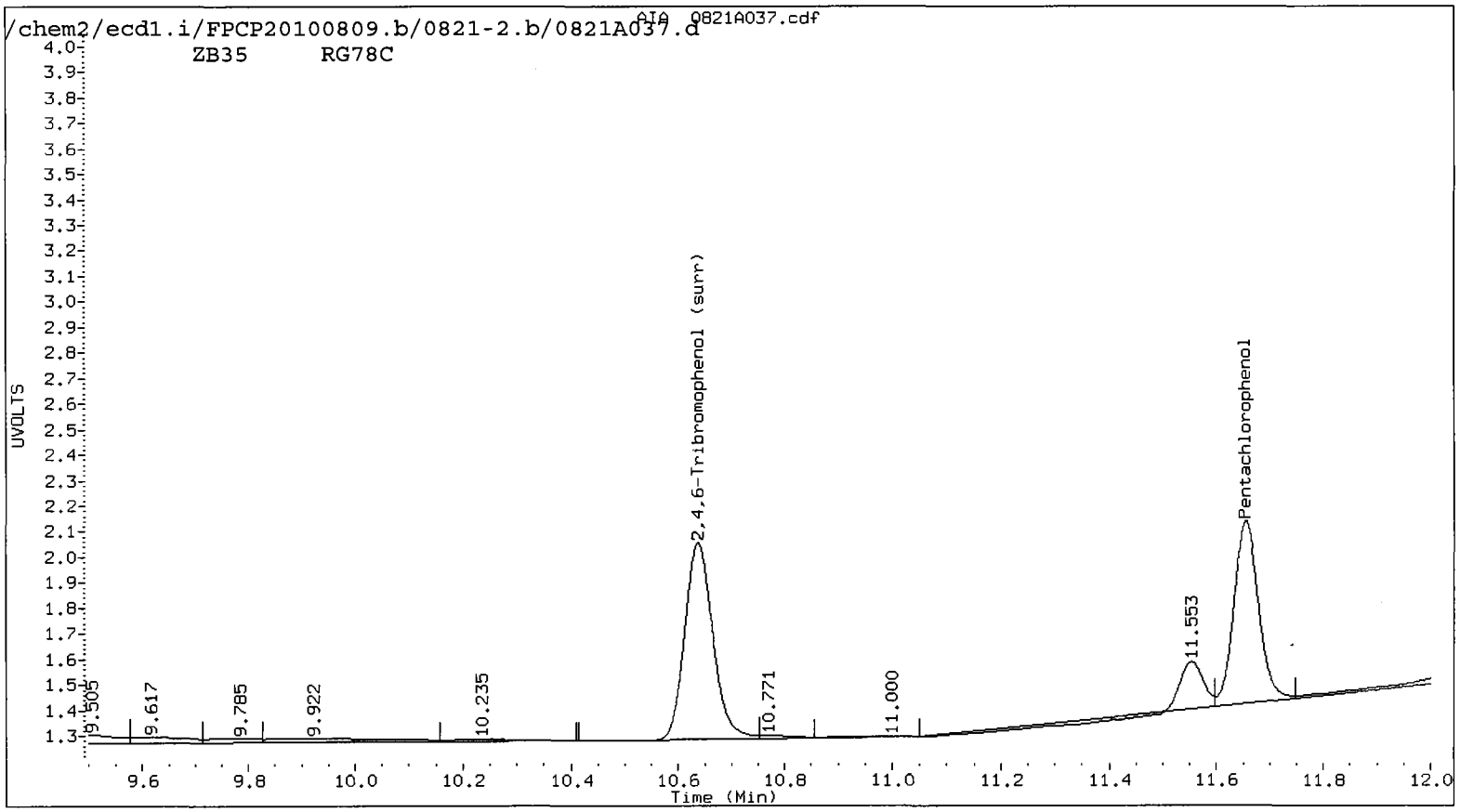
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A037.d ARI ID: RG78C
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A037.d Client ID: PSB9A-2-4-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 23:56
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.219	0.000	57660	11.655	-0.003	116230	3.2736	5.0620	42.9*	Pentachlorophenol
7.288	0.024	9708	7.372	0.039	7849	1.0115	0.6288	46.7*	2,4,6-Trichlorophenol
7.641	0.022	12724	7.835	-0.029	4247	1.3028	0.3423	116.8*	2,3,6-Trichlorophenol
8.264	0.022	1914	8.571	-0.044	3839	0.3792	0.5359	34.2	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.030	0.023	38086	9.291	0.014	18763	2.7001	1.0134	90.8*	2,3,5,6-Tetrachlorophenol
10.470	0.057	26610	----			2.1602	0.0000	---	2,3,4,5-Tetrachlorophenol
6.853	-0.040	898	7.161	-0.005	3984	1.3957	5.3123	116.8*	2,4-Dichlorophenol
10.000	-0.002	102515	10.638	-0.008	140542	7.7	7.5	2.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	30.8	30.1


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A037.d
AIA 0821A037.cdf
ZB5 RG78C
UVOLTS
2,4,6-Tribromophenol (surr)
10.242
2,3,4,5-Tetrachlorophenol
11.127
Pentachlorophenol
11.634
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A037.d
AIA 0821A037.cdf
ZB35 RG78C
UVOLTS
9.505
9.617
9.785
9.922
10.235
2,4,6-Tribromophenol (surr)
10.771
11.000
11.553
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A037.d

Date : 21-AUG-2010 23:56

Client ID: PSB9A-2-4-073010

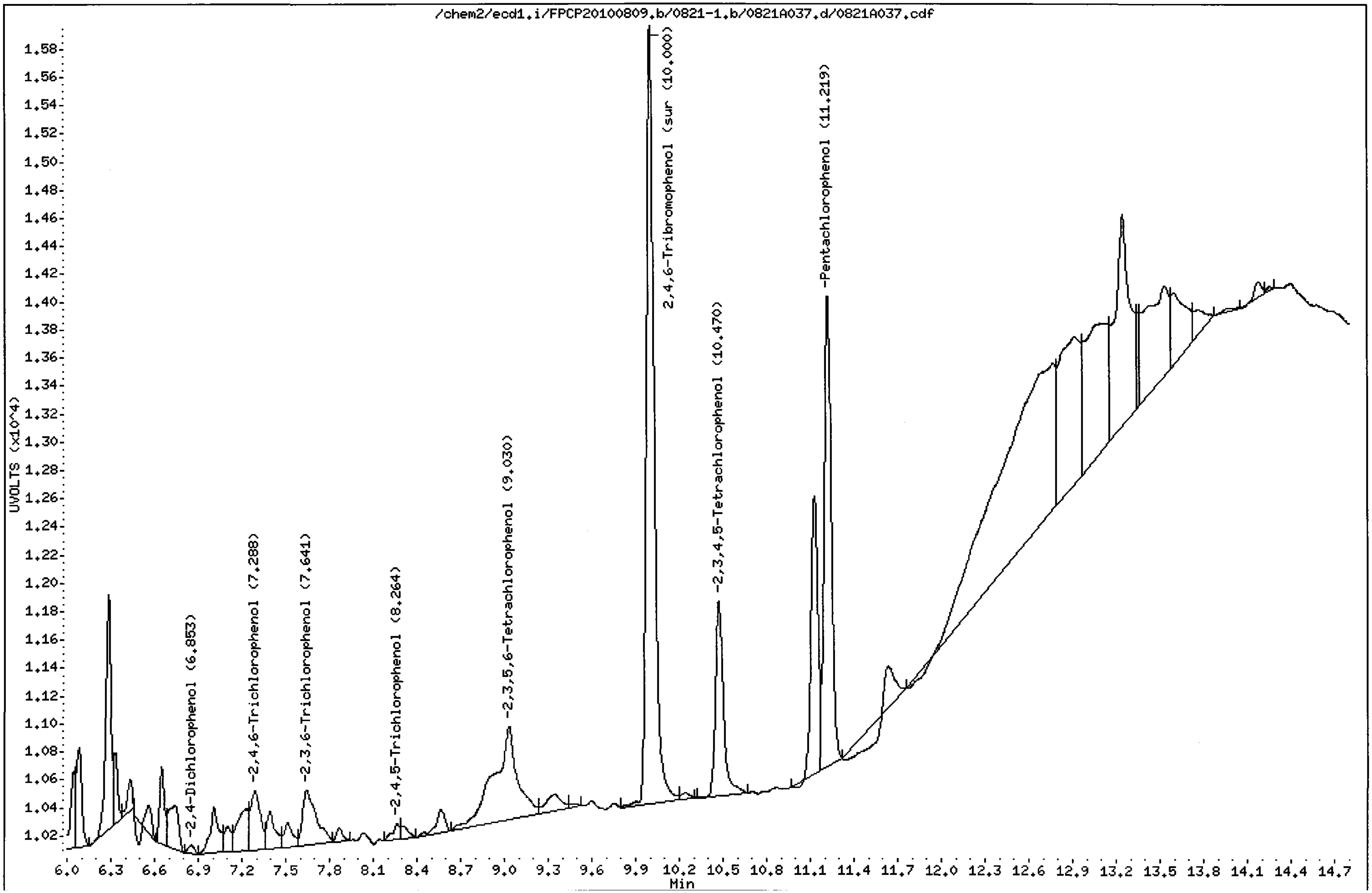
Sample Info: RG78C

Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



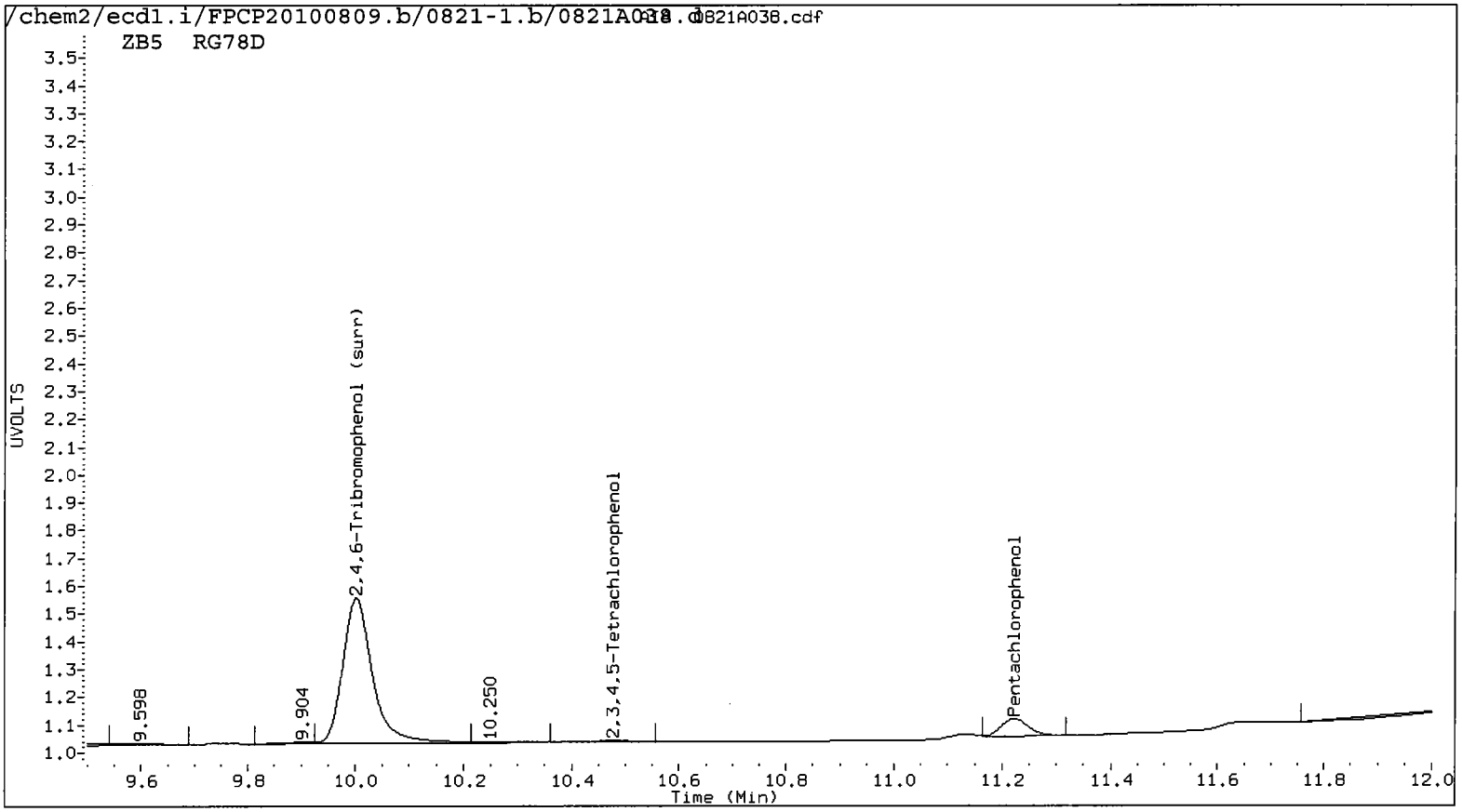
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

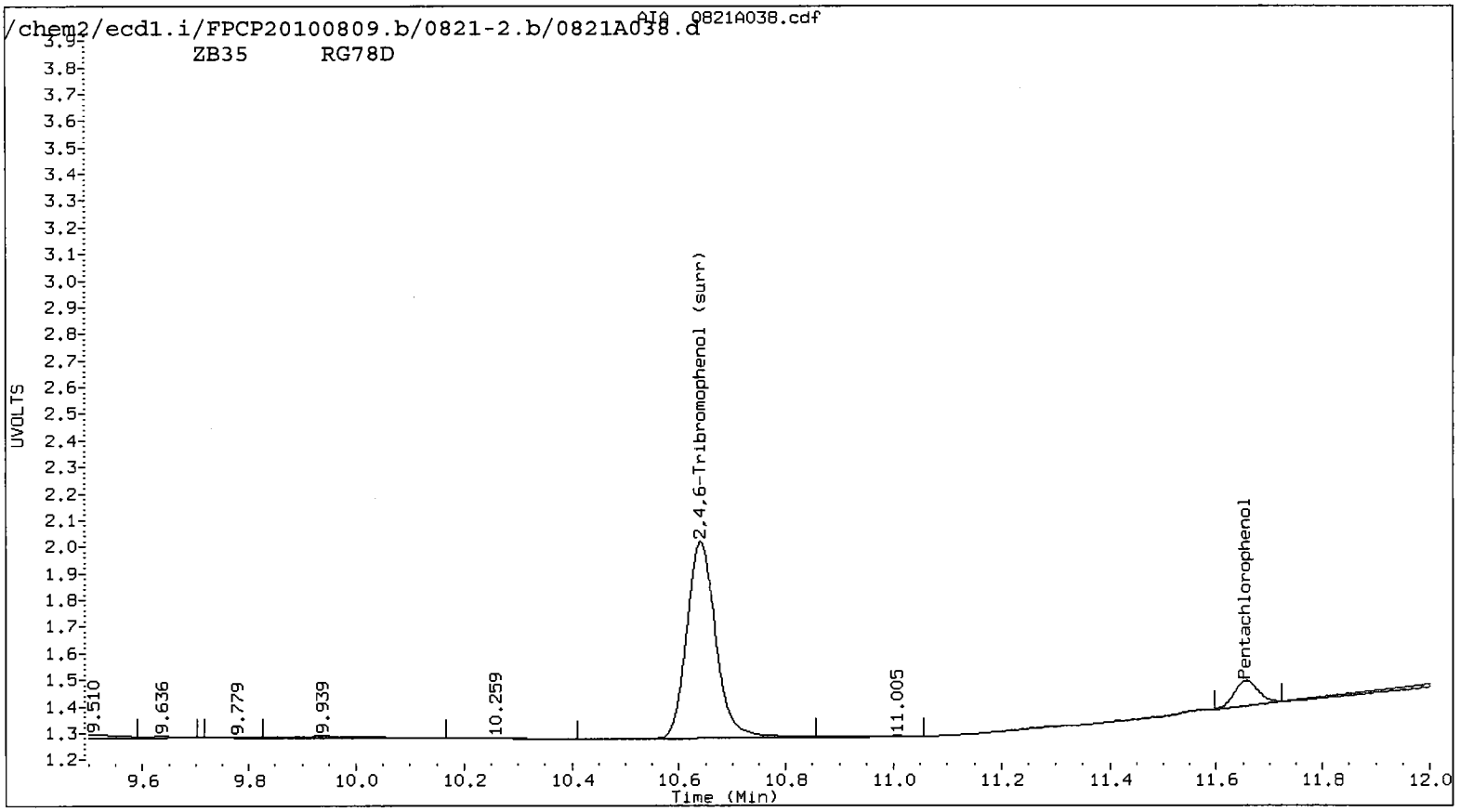
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A038.d ARI ID: RG78D
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A038.d Client ID: PSB9A-4-6-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 00:16
Compound Sublist: all Report Date: 08/23/2010 13:43
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.222	0.003	11445	11.657	-0.001	14683	0.6372	0.6395	0.4	Pentachlorophenol
7.287	0.023	9175	7.372	0.039	5726	0.9556	0.4587	70.3*	2,4,6-Trichlorophenol
----			7.839	-0.025	1851	0.0000	0.1493	---	2,3,6-Trichlorophenol
8.263	0.021	3170	----			0.6282	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.028	0.021	40072	9.291	0.014	5816	2.8409	0.3141	160.2*	2,3,5,6-Tetrachlorophenol
10.477	0.064	815	----			0.0647	0.0000	---	2,3,4,5-Tetrachlorophenol
6.853	-0.040	944	7.160	-0.006	2680	1.4680	3.5680	83.4*	2,4-Dichlorophenol
10.002	0.000	100041	10.640	-0.006	138566	7.5	7.4	1.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	30.0	29.7


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A038.d
AIA 0821A038.cdf
ZB5 RG78D
UVOLTS
Time (Min)
9.598
9.904
2,4,6-Tribromophenol (surr)
10.250
2,3,4,5-Tetrachlorophenol
Pentachlorophenol


/chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A038.d
AIA 0821A038.cdf
ZB35 RG78D
UVOLTS
Time (Min)
9.510
9.636
9.779
9.939
10.259
2,4,6-Tribromophenol (surr)
11.005
Pentachlorophenol

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A038.d

Page 1

Date : 22-AUG-2010 00:16

Client ID: PSB9A-4-6-073010

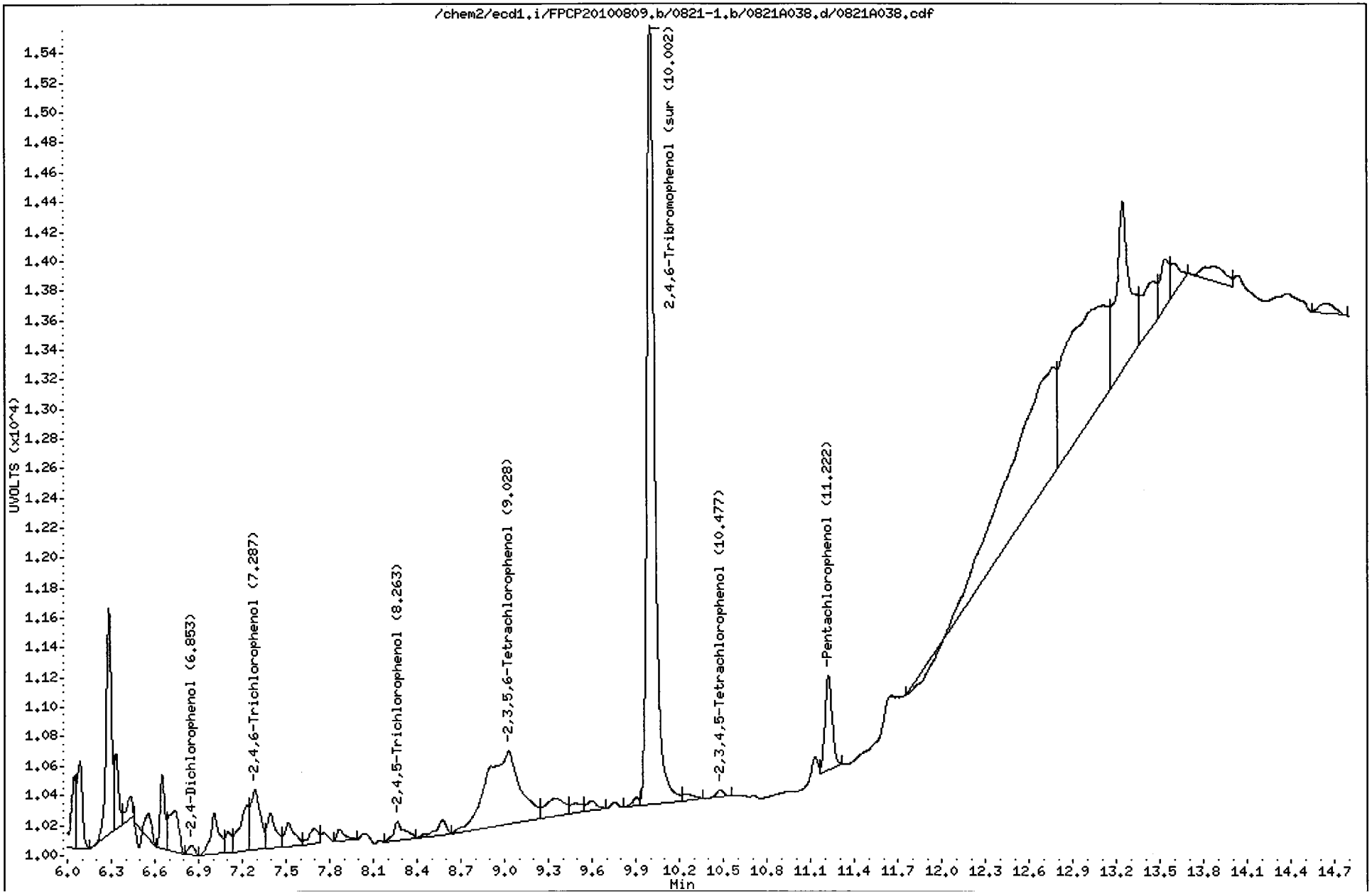
Instrument: ecd1.i

Sample Info: RG78D

Operator: ar

Column phase: ZB5

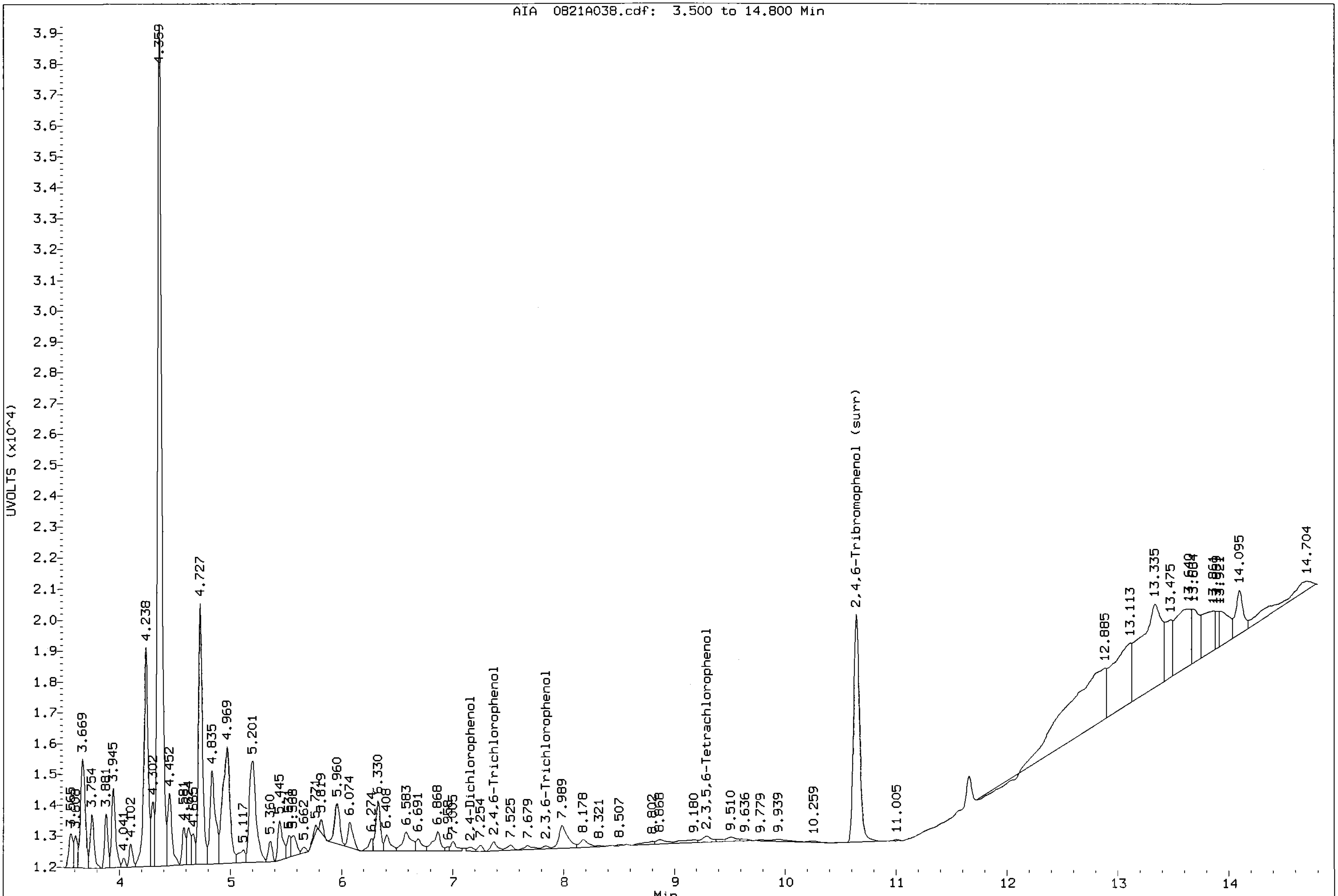
Column diameter: 0.53



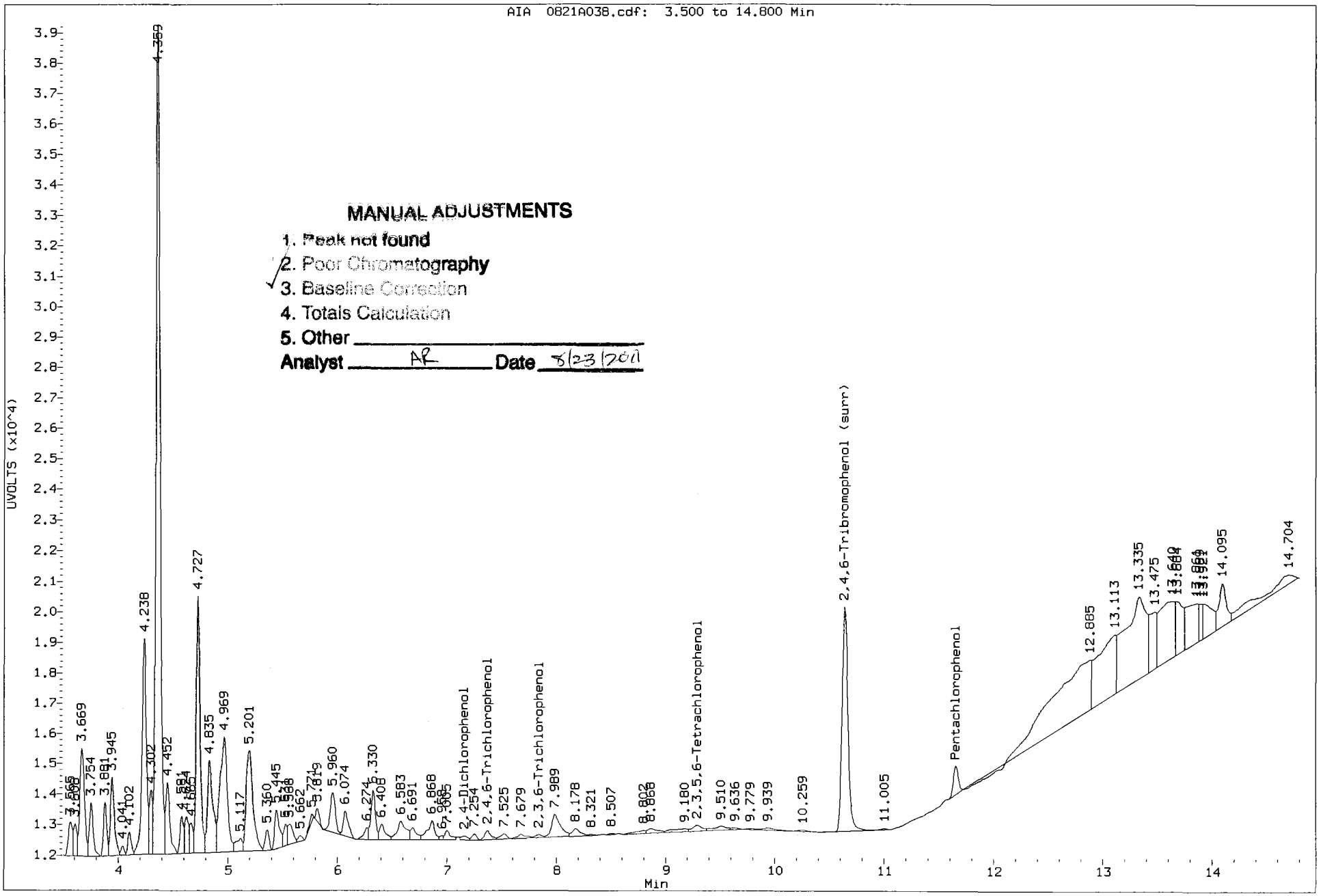
RG78 : 01624

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A038.d/0821A038.cdf
Injection Date: 22-AUG-2010 00:16
Instrument: ecd1.i
Client Sample ID: PSB9A-4-6-073010

Before AR 8/23/2010



Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A038.d/0821A038.cdf
Injection Date: 22-AUG-2010 00:16
Instrument: ecd1.i
Client Sample ID: PSB9A-4-6-073010



RC78 : 01026

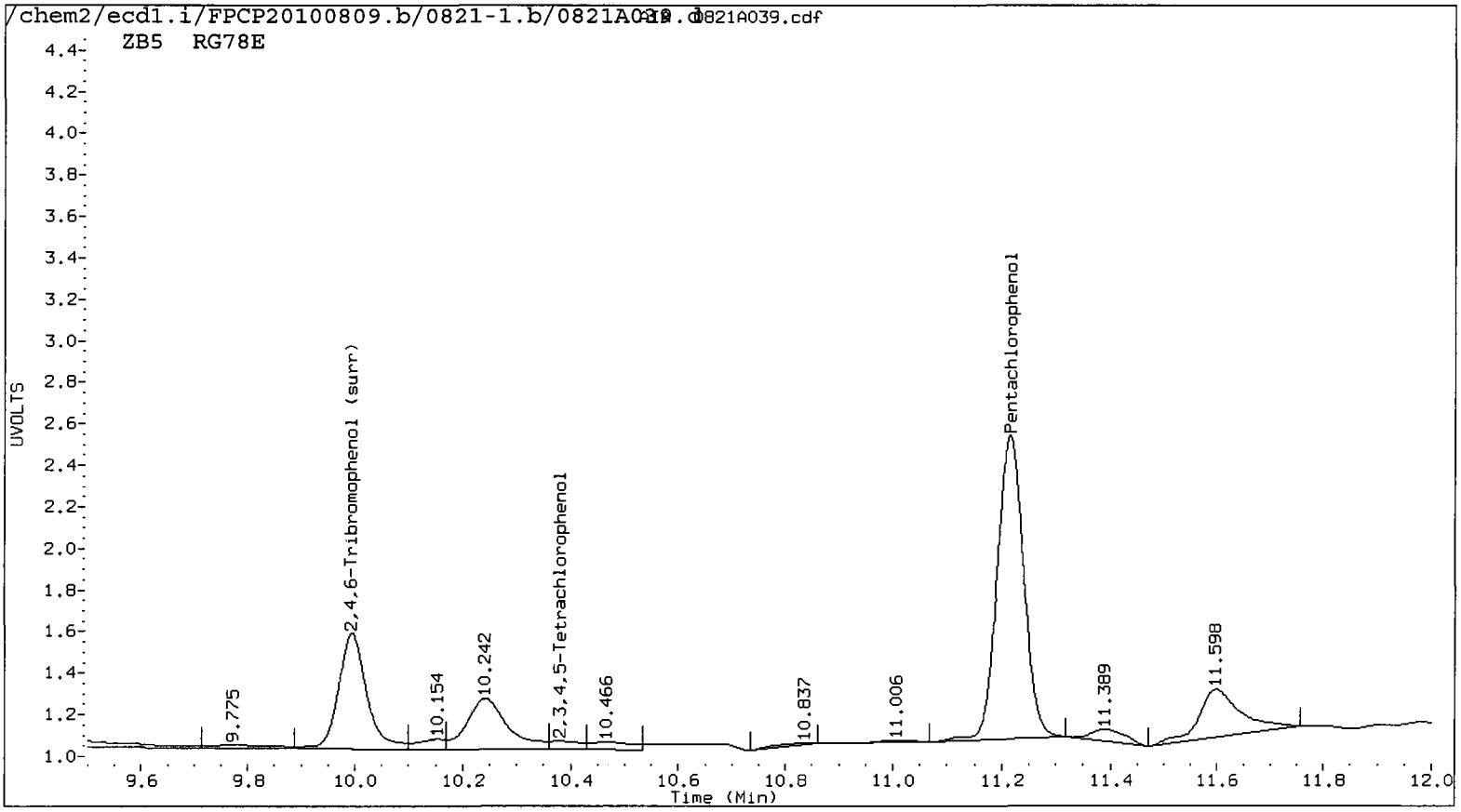
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

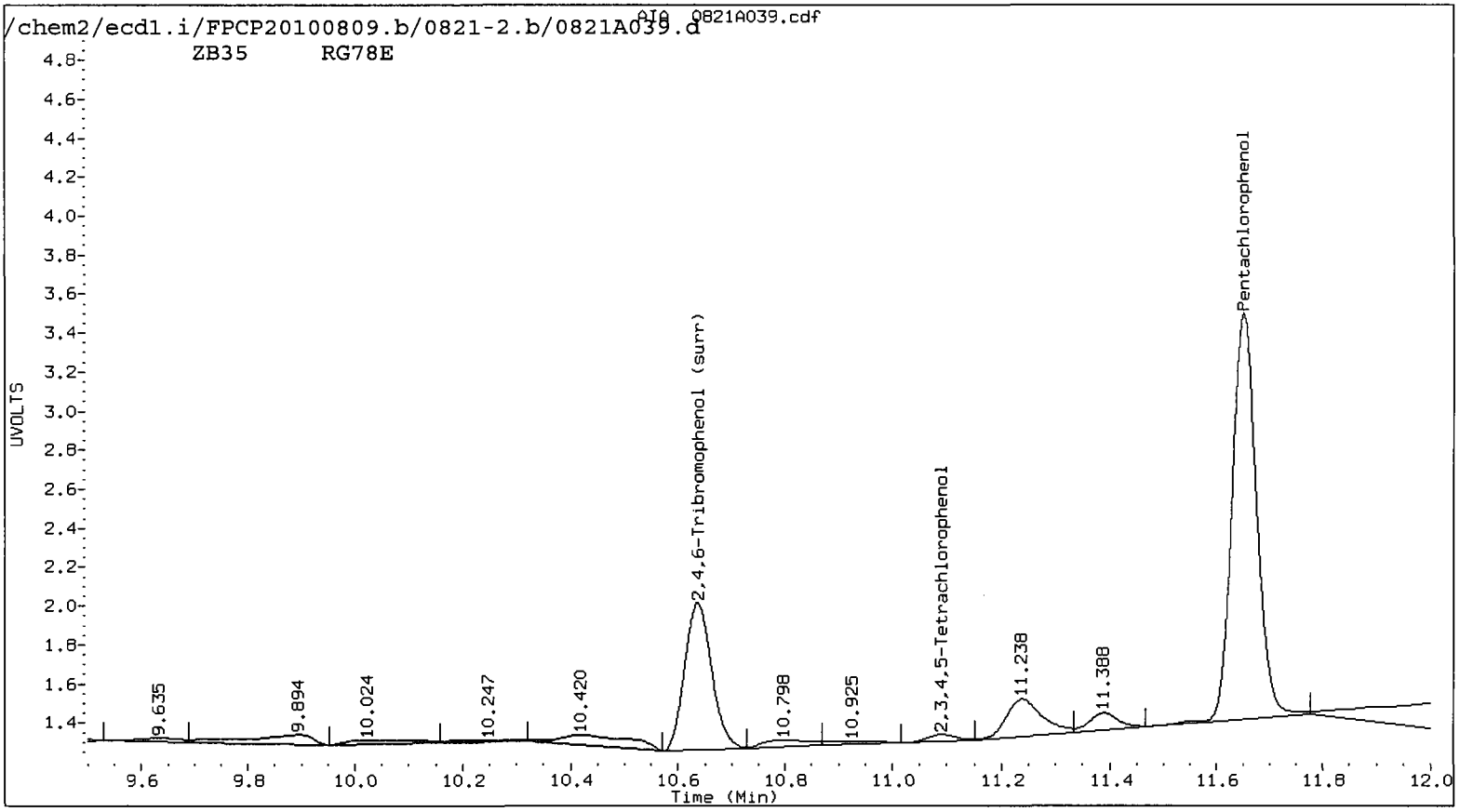
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A039.d ARI ID: RG78E
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A039.d Client ID: PSB9A-0-0.5-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 00:36
Compound Sublist: all Report Date: 08/23/2010 13:43
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	247472	11.651	-0.007	340306	15.1653	14.8208	2.3	Pentachlorophenol
7.289	0.025	12652	7.371	0.038	10438	1.3208	0.8361	44.9*	2,4,6-Trichlorophenol
----			7.820	-0.044	1915	0.0000	0.1544	---	2,3,6-Trichlorophenol
8.297	0.055	17106	8.641	0.026	1454	3.3891	0.2025	177.4*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.027	0.020	19392	9.287	0.010	30735	1.3748	1.6600	18.8	2,3,5,6-Tetrachlorophenol
10.380	-0.033	7936	11.091	-0.035	6007	0.6341	0.4117	42.5*	2,3,4,5-Tetrachlorophenol
6.853	-0.040	1427	7.119	-0.047	6869	2.2216	9.1960	122.2*	2,4-Dichlorophenol
9.995	-0.007	101549	10.636	-0.010	130120	7.6	7.0	8.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	30.5	27.9


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A039.d
AIQ 0821A039.cdf
ZB5 RG78E
UVOLTS
Time (Min)
9.775
2,4,6-Tribromophenol (surr)
10.154
10.242
2,3,4,5-Tetrachlorophenol
10.466
10.837
11.006
Pentachlorophenol
11.389
11.598


/chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A039.d
AIQ 0821A039.cdf
ZB35 RG78E
UVOLTS
Time (Min)
9.635
9.894
10.024
10.247
10.420
2,4,6-Tribromophenol (surr)
10.798
10.925
2,3,4,5-Tetrachlorophenol
11.238
11.388
Pentachlorophenol

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A039.d

Page 1

Date : 22-AUG-2010 00:36

Client ID: PSB9A-0-0.5-073010

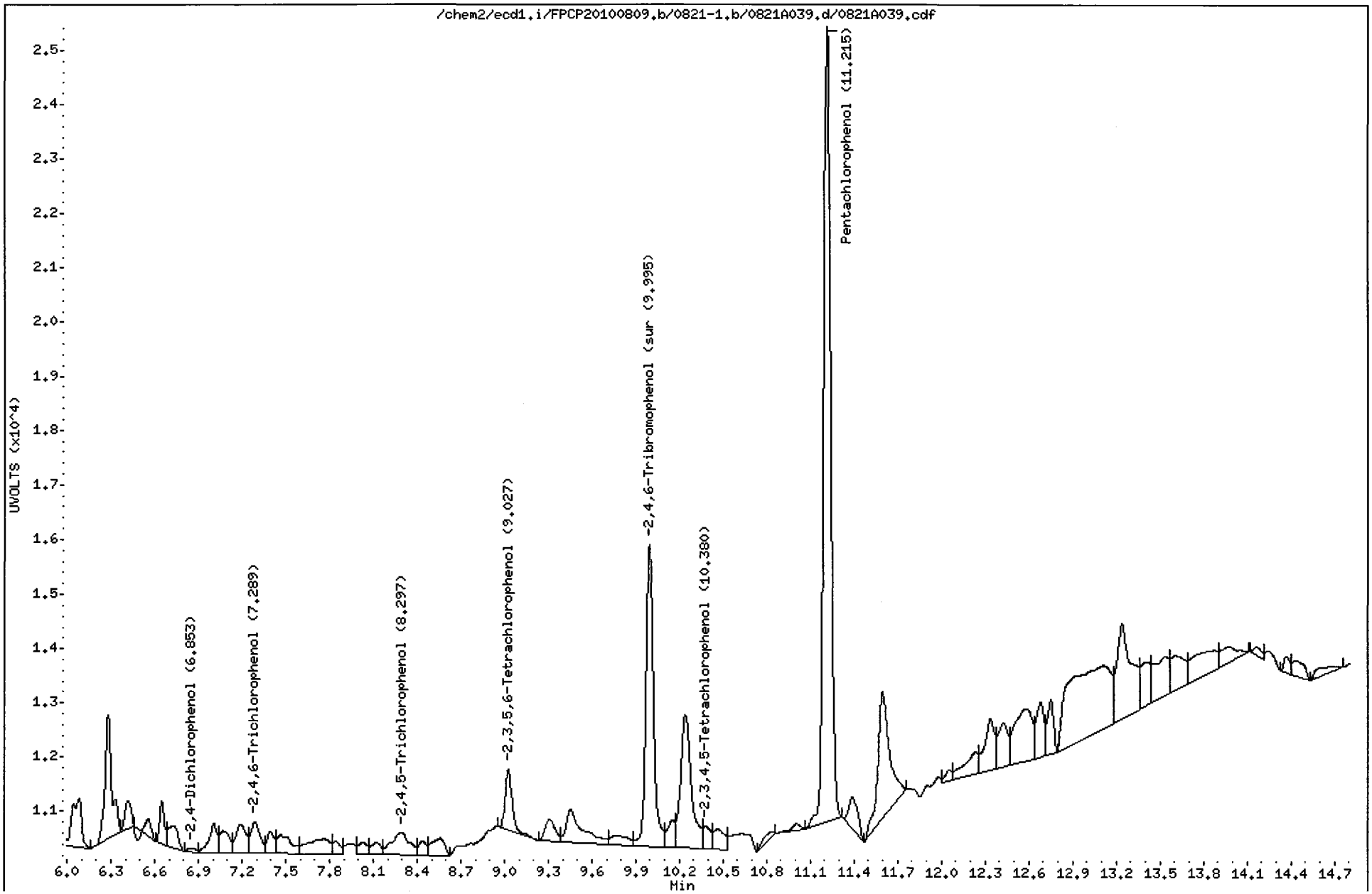
Instrument: ecd1.i

Sample Info: RG78E

Operator: ar

Column phase: ZB5

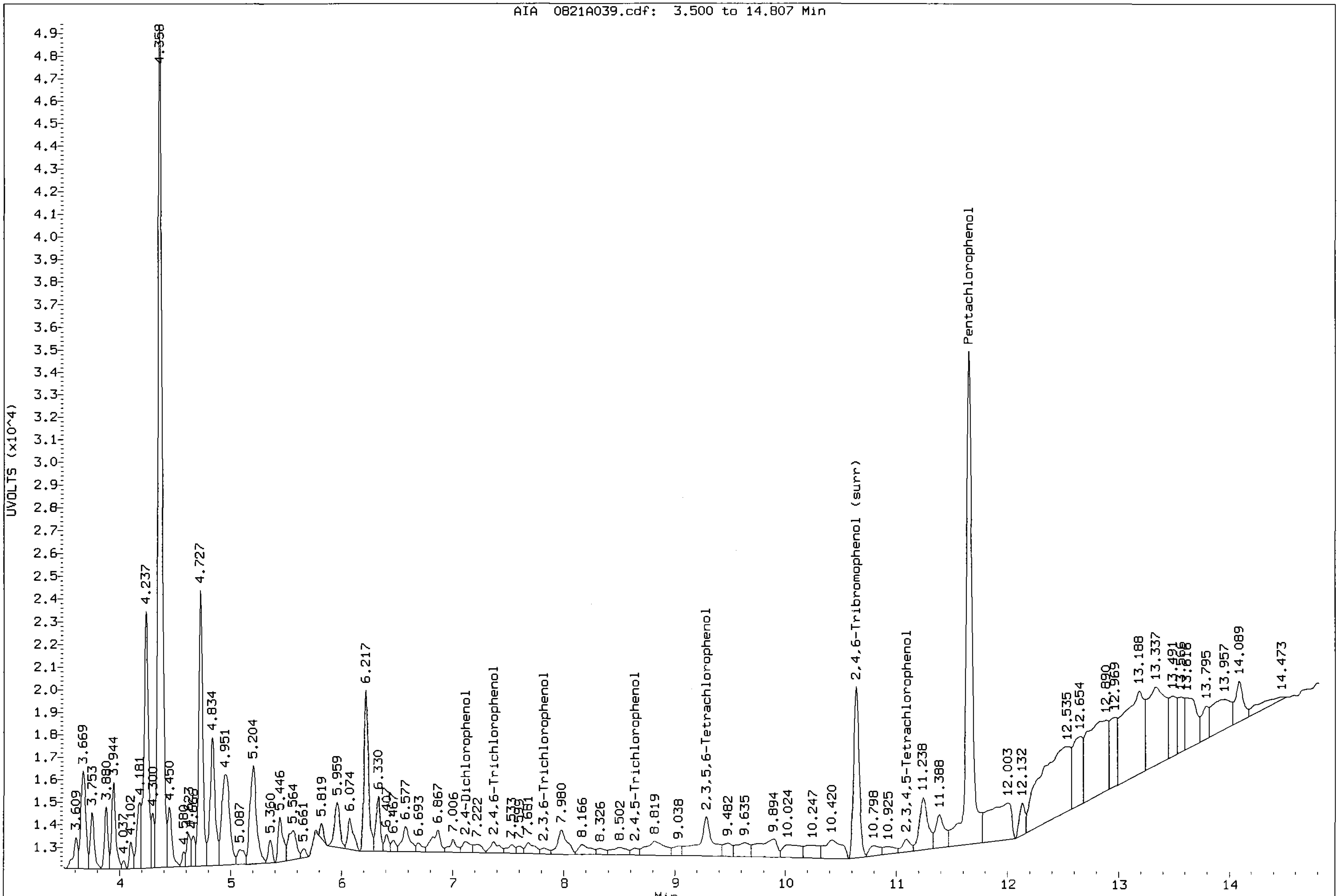
Column diameter: 0.53



RG78:01025

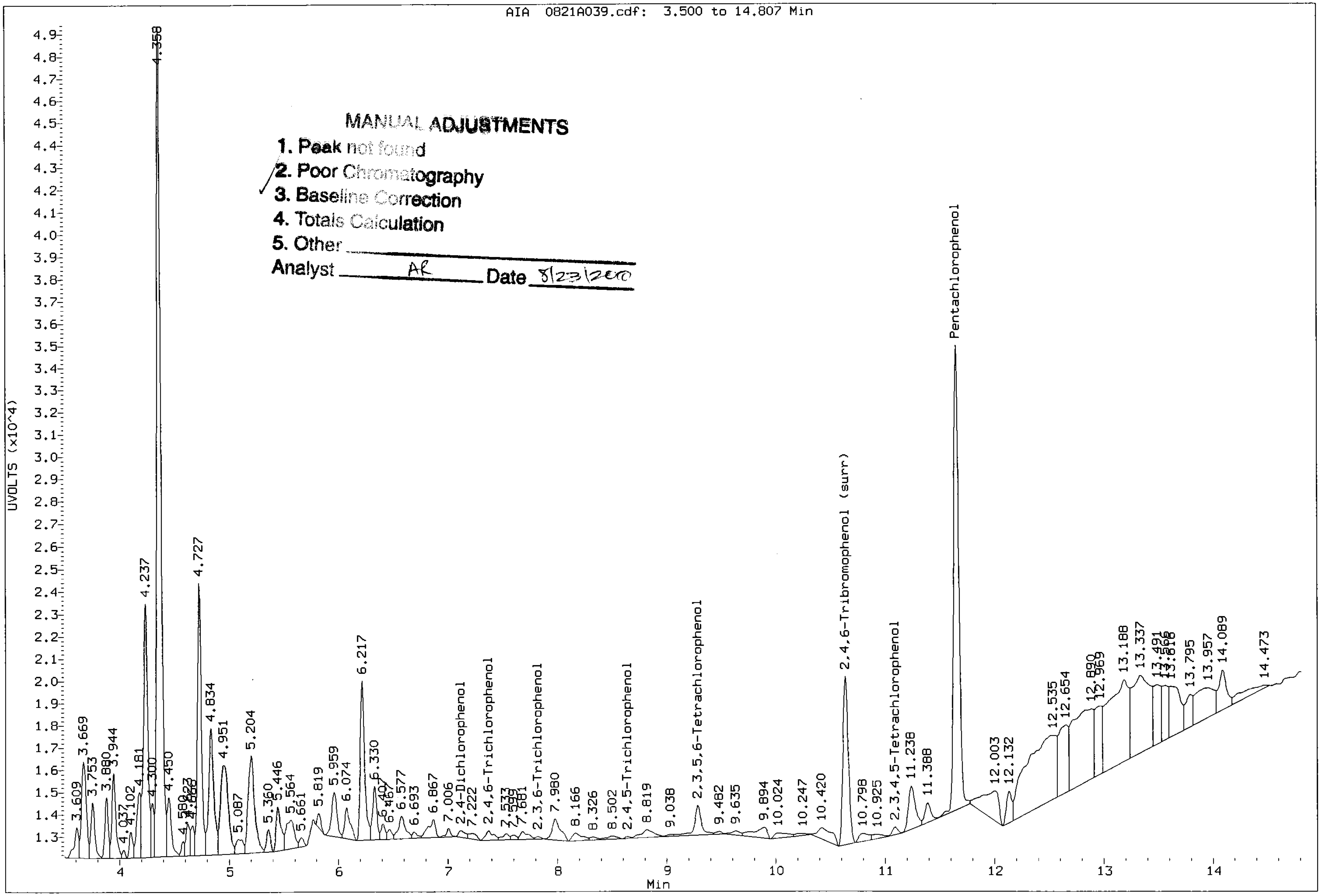
Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A039.d/0821A039.cdf
Injection Date: 22-AUG-2010 00:36
Instrument: ecd1.i
Client Sample ID: PSB9A-0-0.5-073010

Before AR 8/23/2010



RG78:01030

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A039.d/0821A039.cdf
Injection Date: 22-AUG-2010 00:36
Instrument: ecd1.i
Client Sample ID: PSB9A-0-0.5-073010



MANUAL ADJUSTMENTS

1. Peak not found
✓2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other ______

Analyst AR Date 8/23/2010

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

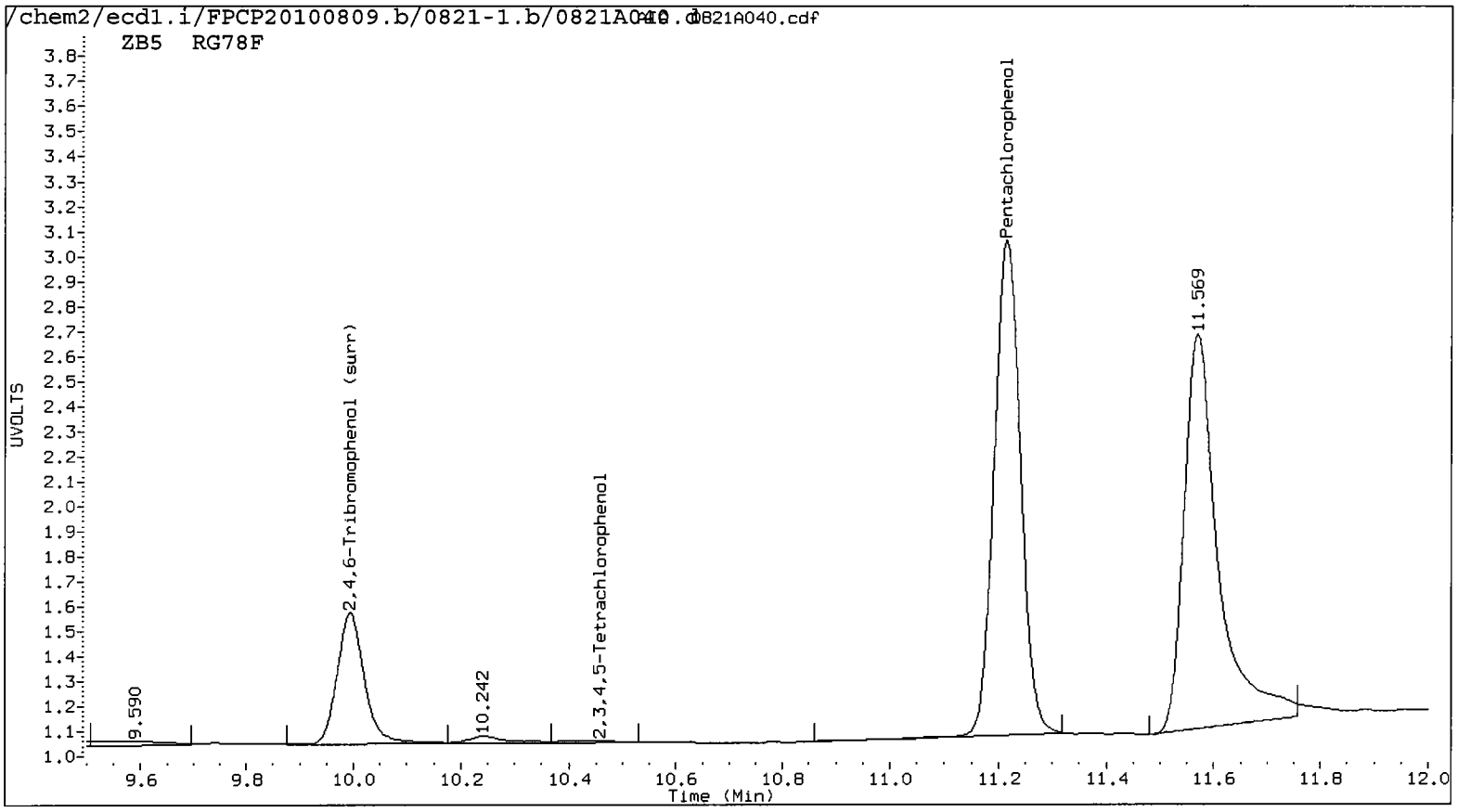
AR 8/23/2010

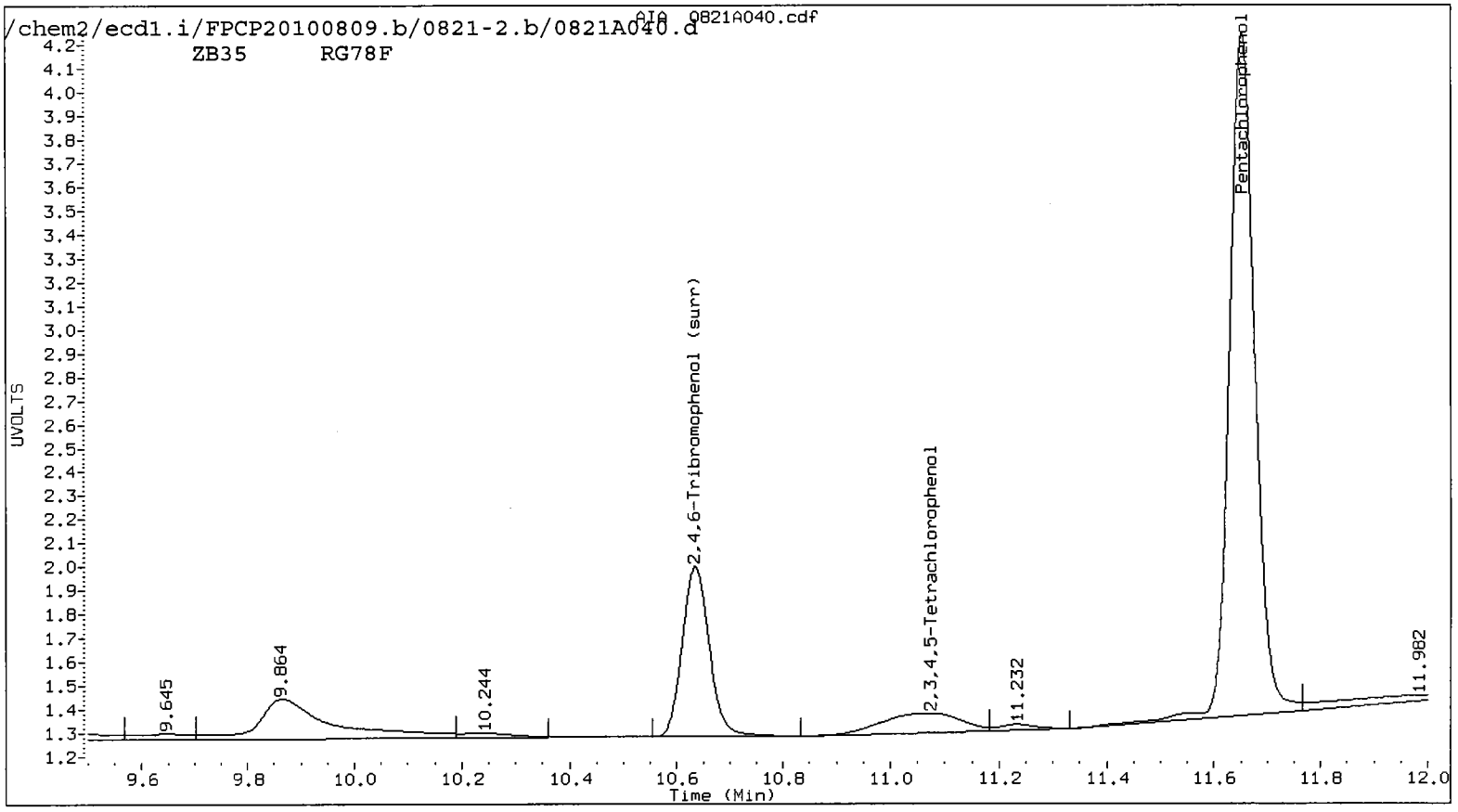
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A040.d ARI ID: RG78F
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A040.d Client ID: PSB10-0-0.5-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 00:56
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	333537	11.652	-0.006	482883	21.1212	21.0302	0.4	Pentachlorophenol
7.288	0.024	9935	7.371	0.038	8010	1.0353	0.6416	47.0*	2,4,6-Trichlorophenol
----			7.834	-0.030	2767	0.0000	0.2230	---	2,3,6-Trichlorophenol
8.208	-0.034	1634	8.678	0.063	5273	0.3237	0.7371	77.9*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.026	0.019	44459	9.287	0.010	48788	3.1519	2.6351	17.9	2,3,5,6-Tetrachlorophenol
10.456	0.043	2825	11.073	-0.053	41394	0.2248	2.8371	170.6*	2,3,4,5-Tetrachlorophenol
----			7.162	-0.004	9254	0.0000	12.4309	---	2,4-Dichlorophenol
9.994	-0.008	93967	10.635	-0.011	127542	7.0	6.8	2.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

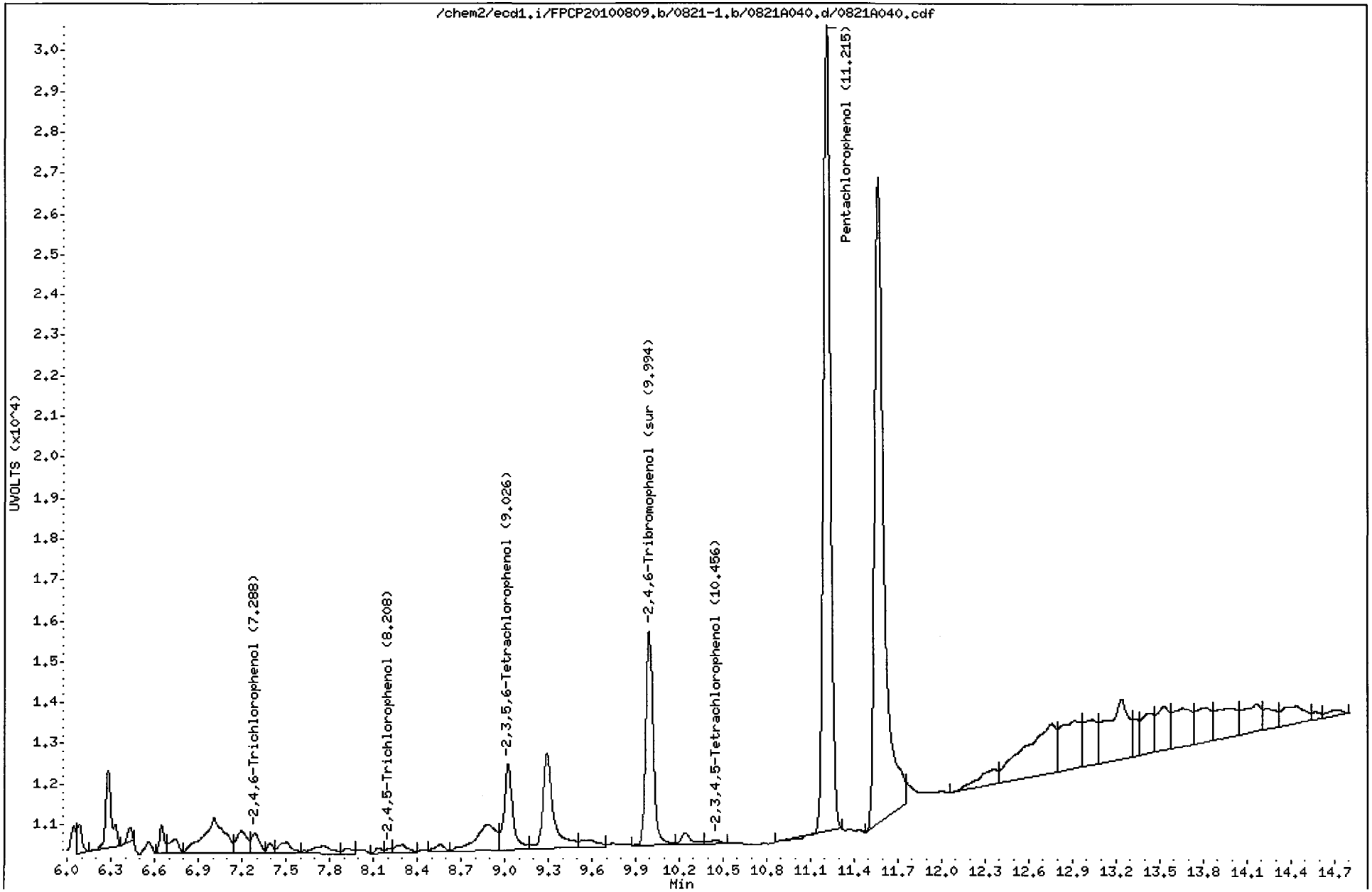
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	28.1	27.3


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A040.d
ZB5 RG78F
UVOLTS
9.590
2,4,6-Tribromophenol (surr)
10.242
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.569
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A040.d
ZB35 RG78F
UVOLTS
9.645
9.864
10.244
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
11.232
Pentachlorophenol
11.982
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A040.d
Date : 22-AUG-2010 00:56
Client ID: PSB10-0-0.5-073010
Sample Info: RG78F

Instrument: ecd1.i
Operator: ar
Column phase: ZB5
Column diameter: 0.53



RG78 : 01031

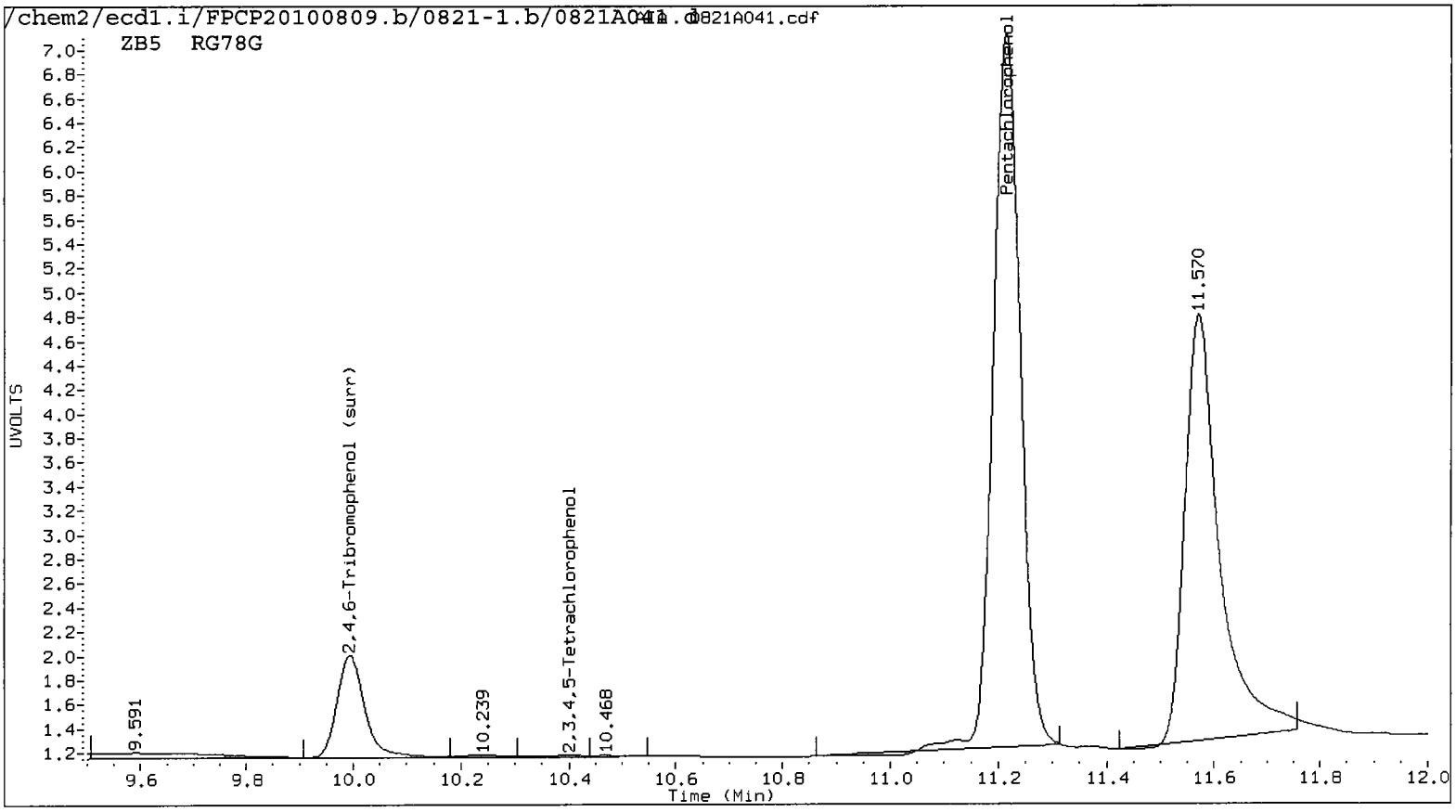
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

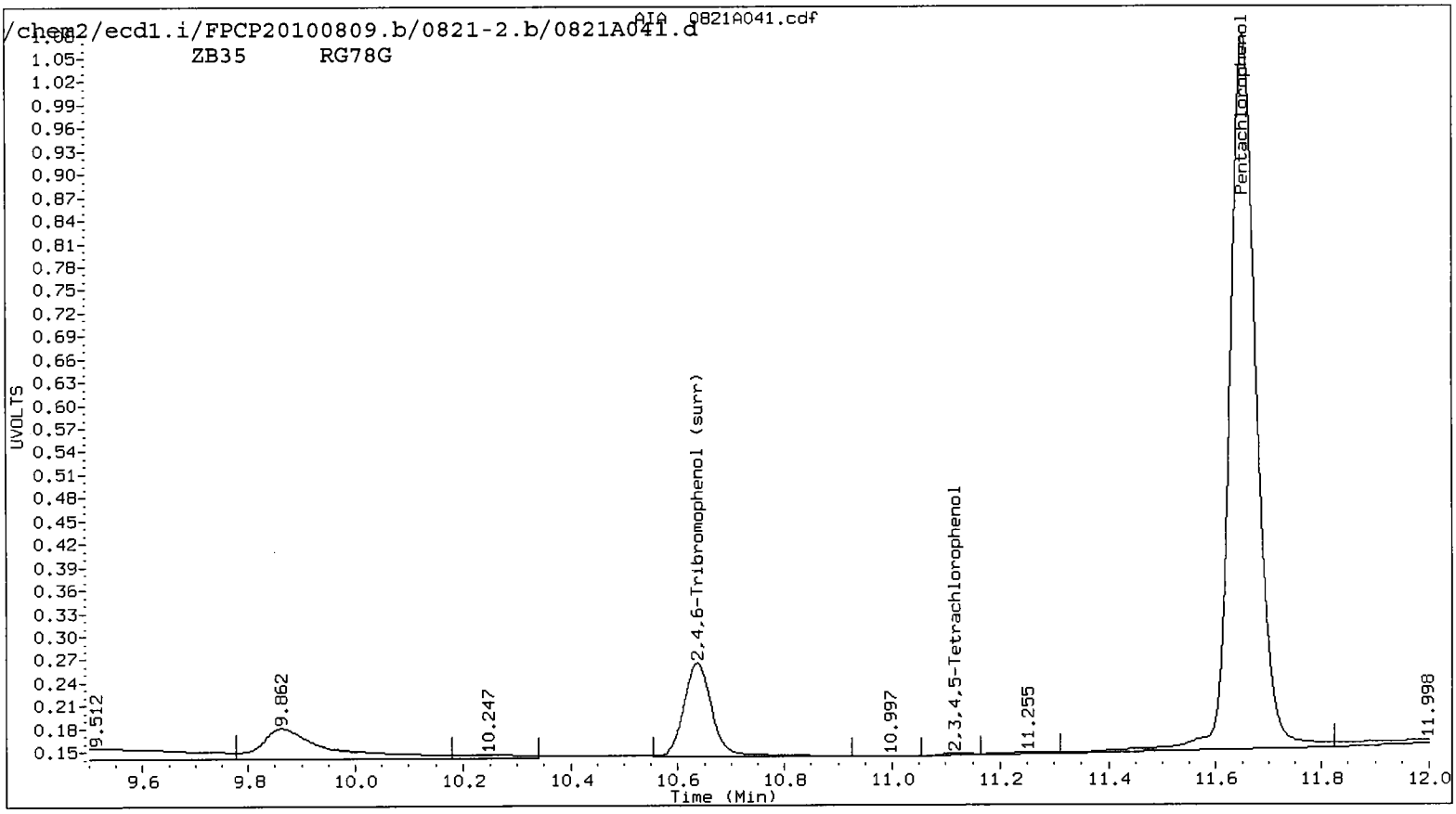
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A041.d ARI ID: RG78G
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A041.d Client ID: PSB10-1.5-2-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 01:16
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	1014980	11.651	-0.007	1623457	80.7003	70.7036	13.2	Pentachlorophenol
7.283	0.019	13181	7.372	0.039	6221	1.3766	0.4983	93.7*	2,4,6-Trichlorophenol
----			7.820	-0.044	2241	0.0000	0.1806	---	2,3,6-Trichlorophenol
8.298	0.056	35925	8.681	0.066	3470	7.1174	0.4843	174.5*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.027	0.020	74556	9.288	0.011	141832	5.2856	7.6605	36.7	2,3,5,6-Tetrachlorophenol
10.399	-0.014	3507	11.116	-0.010	4813	0.2792	0.3299	16.6	2,3,4,5-Tetrachlorophenol
----			7.116	-0.050	6353	0.0000	8.4992	---	2,4-Dichlorophenol
9.994	-0.008	153741	10.636	-0.010	232381	11.8	12.4	5.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	47.0	49.8


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A041.d
0821A041.cdf
ZB5 RG78G
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.591
10.239
2,3,4,5-Tetrachlorophenol
10.468
11.570
Time (Min)

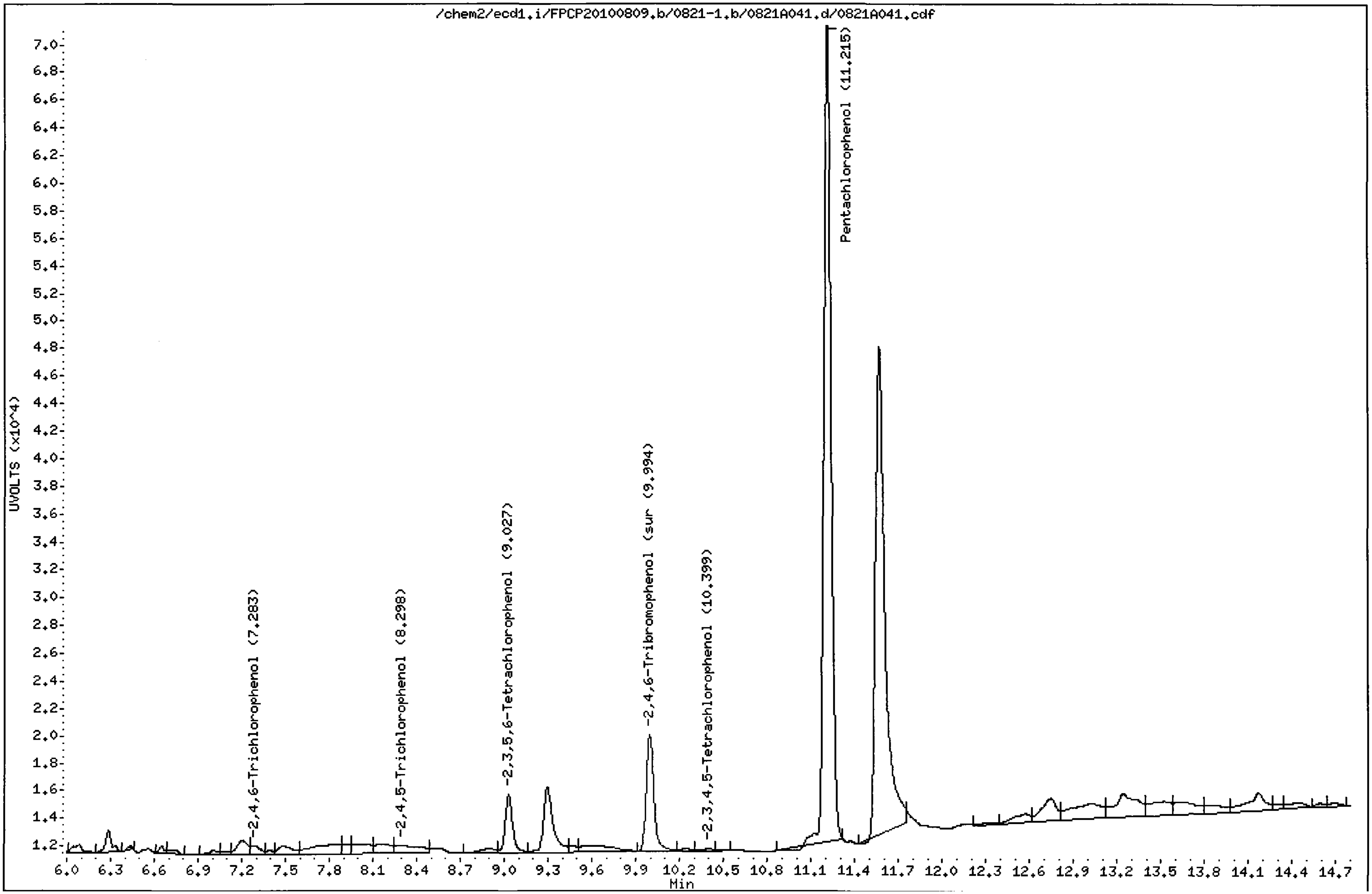

/chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A041.d
0821A041.cdf
ZB35 RG78G
UVOLTS
9.512
9.862
10.247
2,4,6-Tribromophenol (surr)
10.997
2,3,4,5-Tetrachlorophenol
11.255
Pentachlorophenol
11.998
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A041.d
Date : 22-AUG-2010 01:16
Client ID: PSB10-1.5-2-073010
Sample Info: RG78G

Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



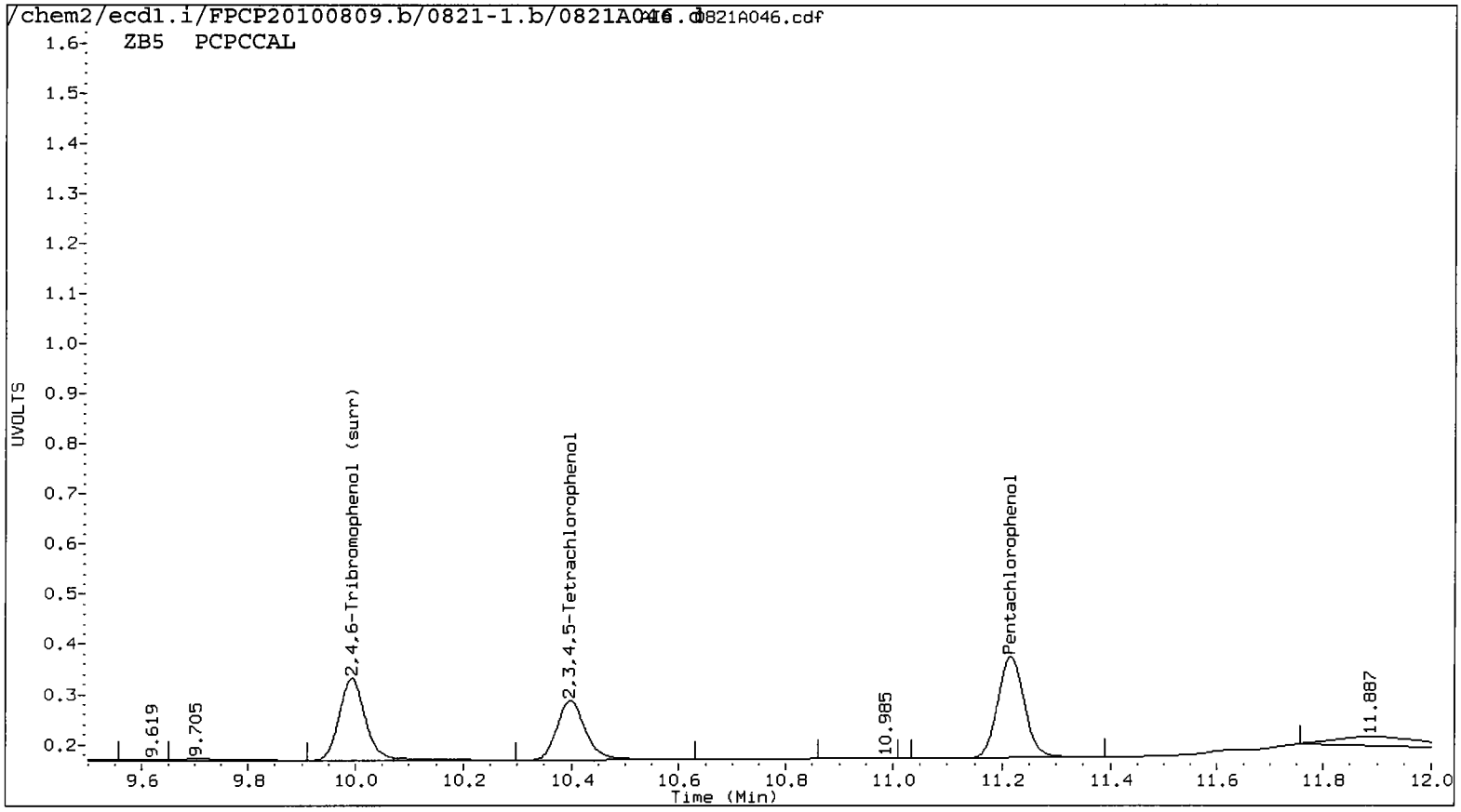
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A046.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A046.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 02:56
Compound Sublist: all Report Date: 08/23/2010 12:02
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.217	-0.002	342568	11.652	-0.006	501157	21.7665	21.8261	0.3	Pentachlorophenol
7.266	0.002	204651	7.333	0.000	305980	24.1411	24.5087	1.5	2,4,6-Trichlorophenol
7.618	-0.001	200966	7.861	-0.003	286855	22.5933	23.1176	2.3	2,3,6-Trichlorophenol
8.220	-0.022	113865	8.593	-0.022	150692	22.5588	24.0053	6.2	2,4,5-Trichlorophenol
8.769	-0.023	156127	9.358	-0.022	192293	22.8220	22.4664	1.6	2,3,4-Trichlorophenol
8.998	-0.009	322267	9.265	-0.012	441713	22.8467	23.8573	4.3	2,3,5,6-Tetrachlorophenol
10.398	-0.015	220451	11.111	-0.015	311905	20.8210	21.3770	2.6	2,3,4,5-Tetrachlorophenol
6.890	-0.003	103411	7.159	-0.007	142720	203.7352	227.6706	11.1	2,4-Dichlorophenol
9.993	-0.009	282003	10.635	-0.011	431317	22.6	23.1	2.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	87.1	87.3
2,4,6-Trichlorophenol	96.6	98.0
2,3,6-Trichlorophenol	90.4	92.5
2,4,5-Trichlorophenol	90.2	96.0
2,3,4-Trichlorophenol	91.3	89.9
2,3,5,6-Tetrachlorophenol	91.4	95.4
2,3,4,5-Tetrachlorophenol	83.3	85.5
2,4-Dichlorophenol	81.5	91.1
2,4,6-TBP (surr)	90.5	92.4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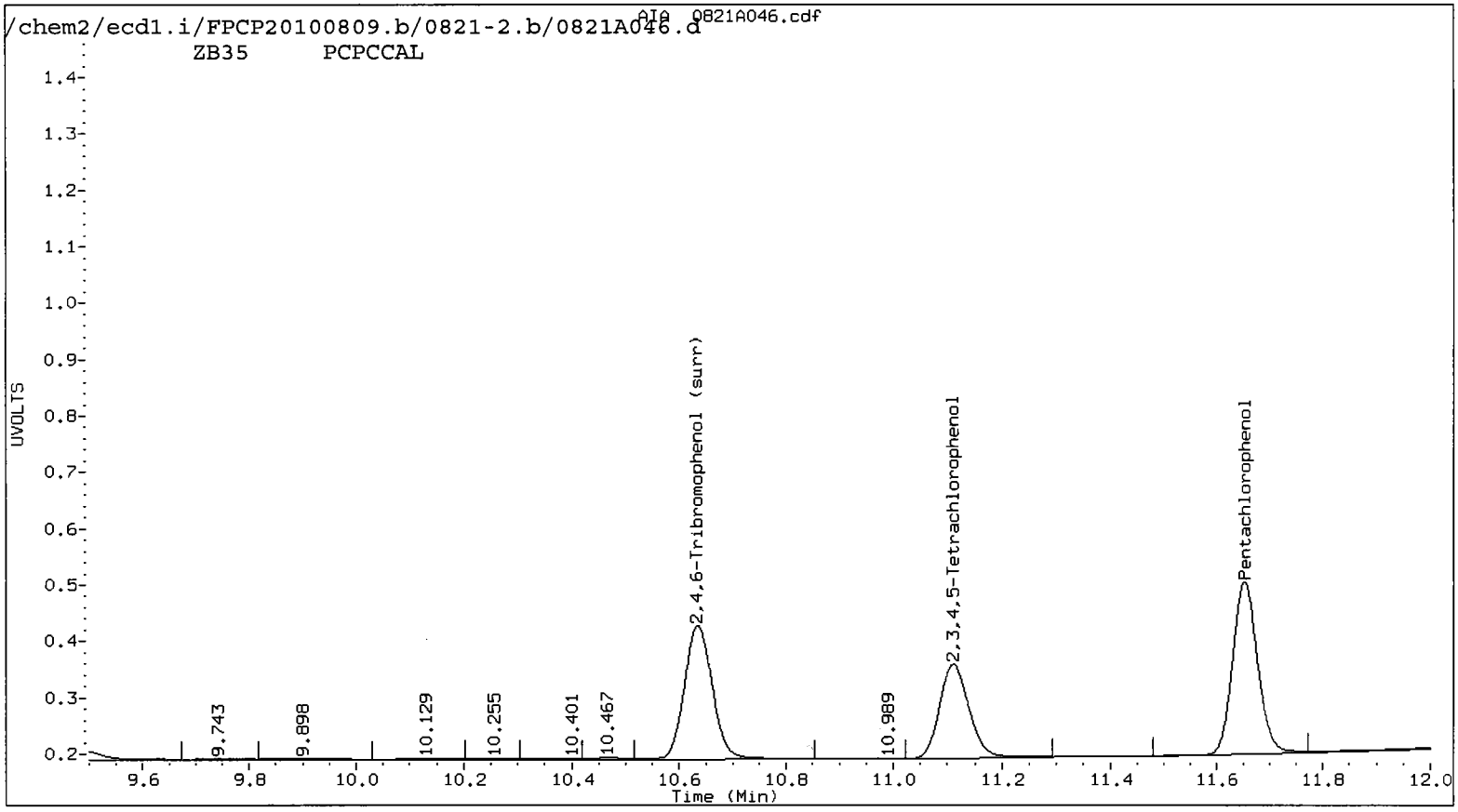
ZB5 PCPCCAL
UVOLTS
9.619
9.705
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
10.985
Pentachlorophenol
11.887
Time (Min)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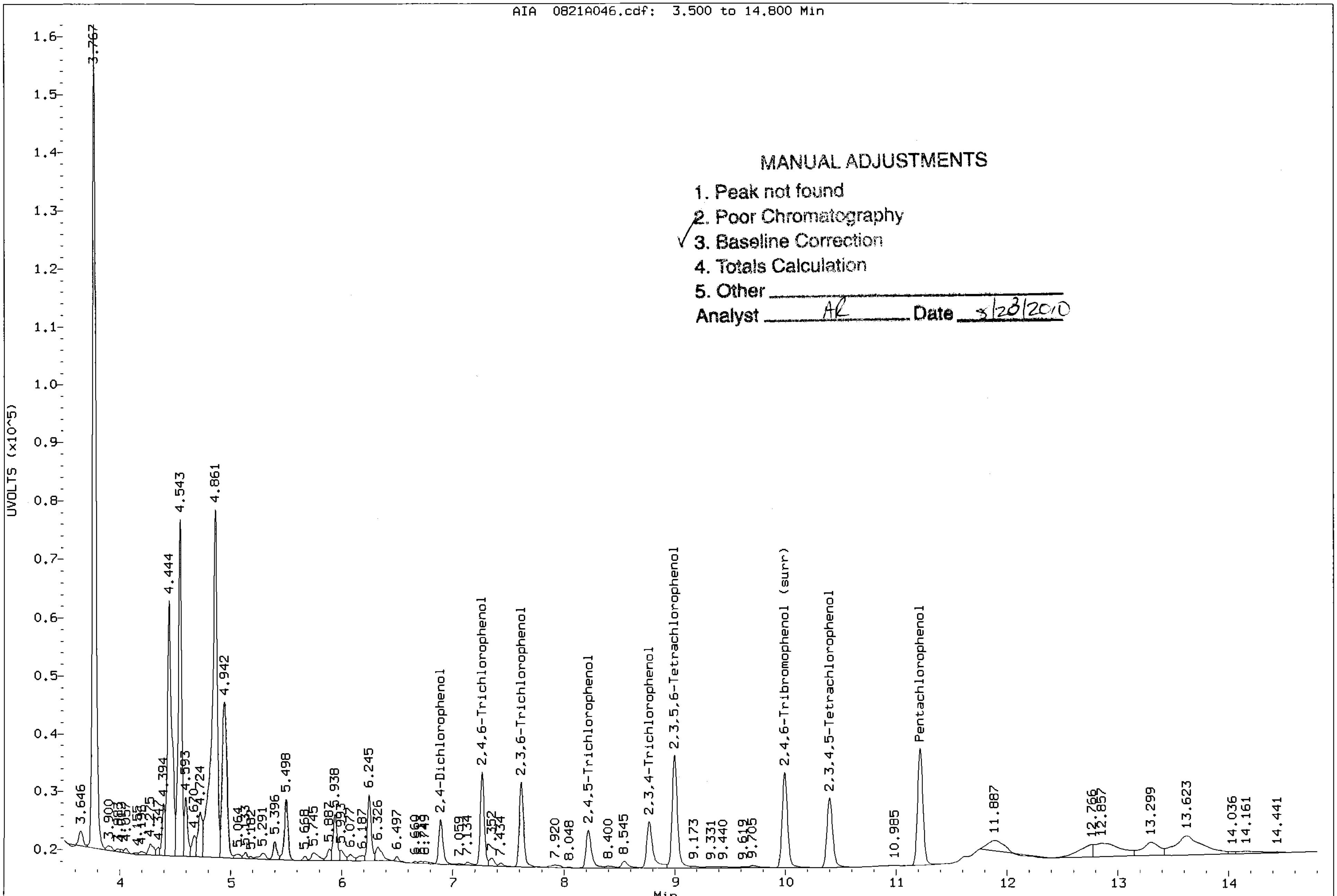
AIA 0821A046.cdf
ZB35 PCPCCAL
UVOLTS
9.743
9.898
10.129
10.255
10.401
10.467
2,4,6-Tribromophenol (surr)
10.989
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A046.d/0821A046.cdf
Injection Date: 22-AUG-2010 02:56
Instrument: ecd1.i
Client Sample ID:



MANUAL ADJUSTMENTS

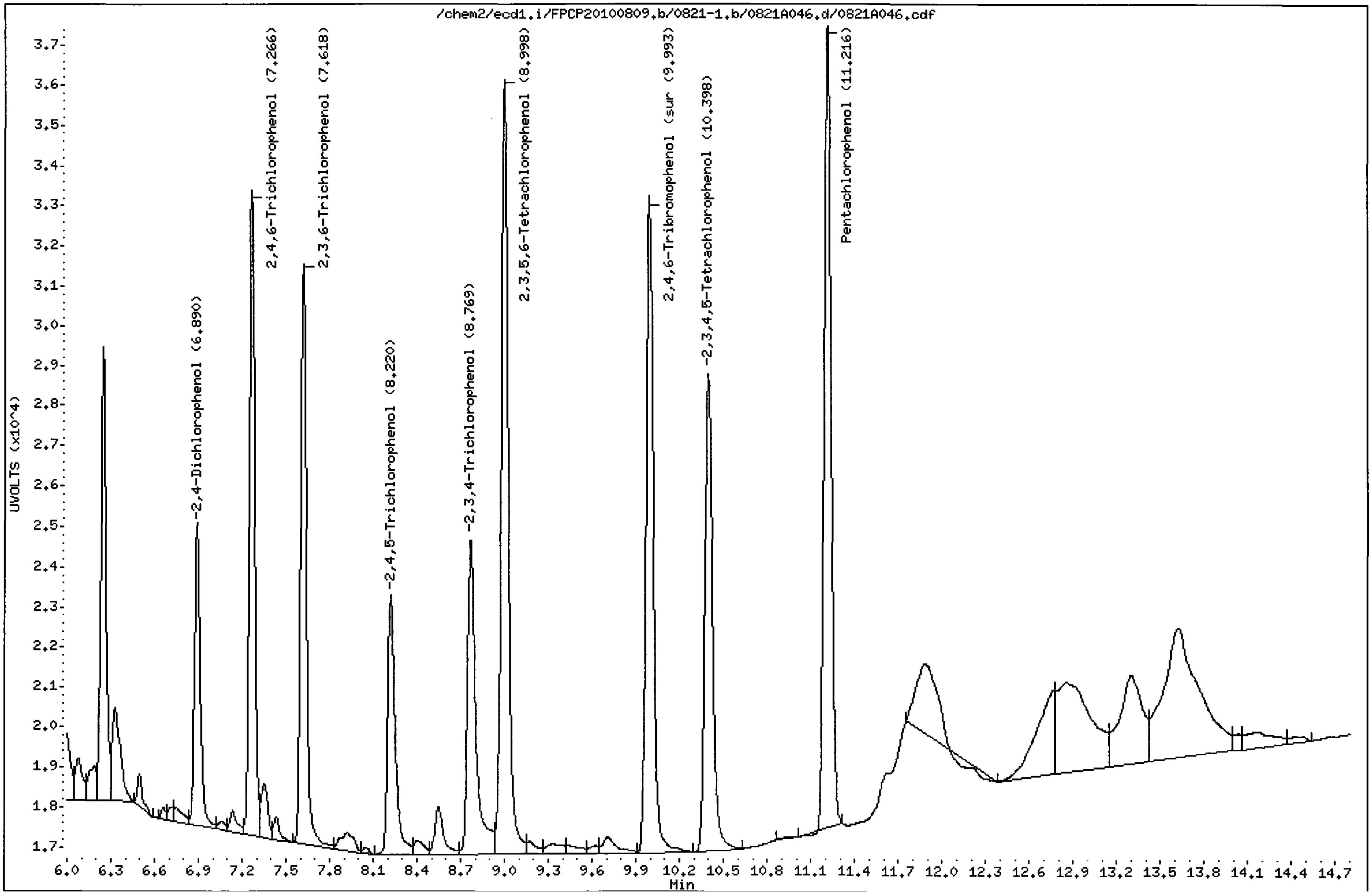
1. Peak not found
2. Poor Chromatography
✓ 3. Baseline Correction
4. Totals Calculation
5. Other ______
Analyst AR Date 3/28/2010

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A046.d
Date : 22-AUG-2010 02:56
Client ID:
Sample Info: PCPCCAL
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

Before AR 8/23/2010



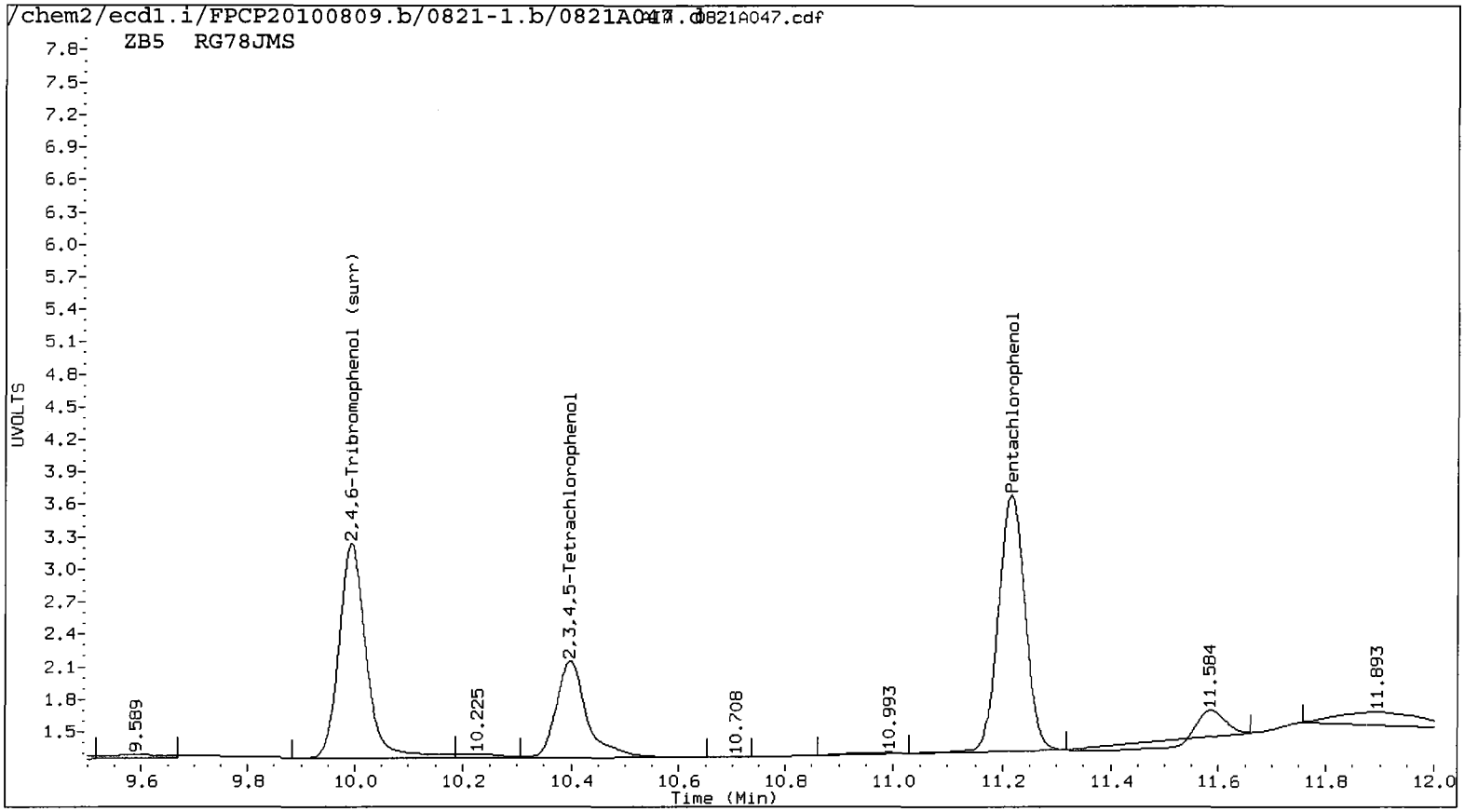
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/23/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A047.d ARI ID: RG78JMS
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A047.d Client ID: PSB10-8.5-10-07 MS
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 03:16
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	403723	11.651	-0.007	602931	26.2387	26.2585	0.1	Pentachlorophenol
7.266	0.002	147985	7.333	0.000	210515	16.8640	16.8620	0.0	2,4,6-Trichlorophenol
7.618	-0.001	175352	7.861	-0.003	208406	19.4742	16.7954	14.8	2,3,6-Trichlorophenol
8.221	-0.021	89849	8.593	-0.022	105396	17.8006	16.1488	9.7	2,4,5-Trichlorophenol
8.771	-0.021	83465	9.359	-0.021	121179	12.2006	13.5481	10.5	2,3,4-Trichlorophenol
8.999	-0.008	246568	9.265	-0.012	324947	17.4801	17.5506	0.4	2,3,5,6-Tetrachlorophenol
10.397	-0.016	175946	11.110	-0.016	225012	16.0816	15.4216	4.2	2,3,4,5-Tetrachlorophenol
6.892	-0.001	20658	7.160	-0.006	55333	33.7543	79.1415	80.4*	2,4-Dichlorophenol
9.993	-0.009	351120	10.634	-0.012	531451	28.9	28.5	1.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	105.0	105.0
2,4,6-Trichlorophenol	67.5	67.4
2,3,6-Trichlorophenol	77.9	67.2
2,4,5-Trichlorophenol	71.2	64.6
2,3,4-Trichlorophenol	48.8	54.2
2,3,5,6-Tetrachlorophenol	69.9	70.2
2,3,4,5-Tetrachlorophenol	64.3	61.7
2,4-Dichlorophenol	13.5	31.7
2,4,6-TBP (surr)	57.7	56.9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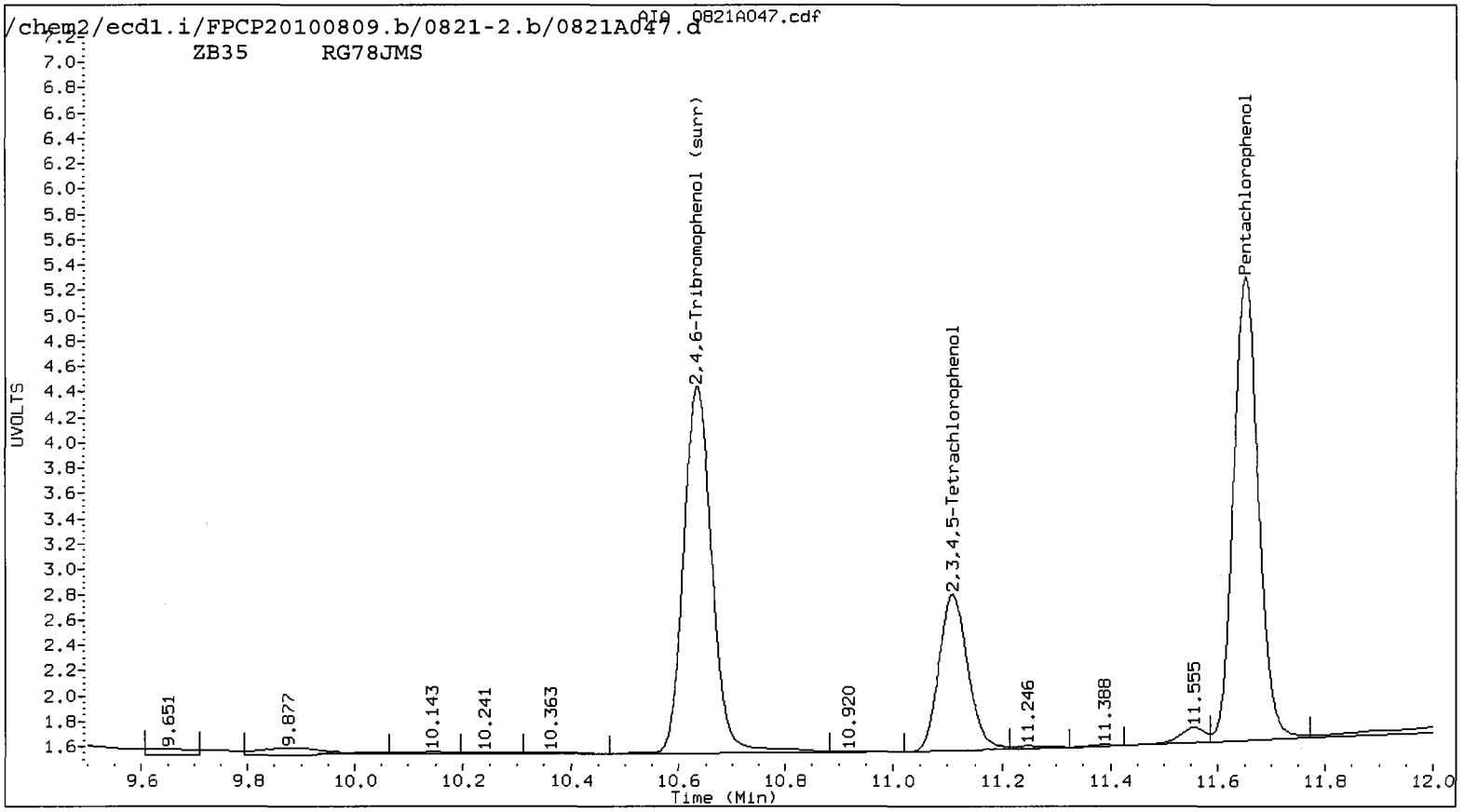
0821A047.cdf
ZB5 RG78JMS
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.589
10.225
10.708
10.993
11.584
11.893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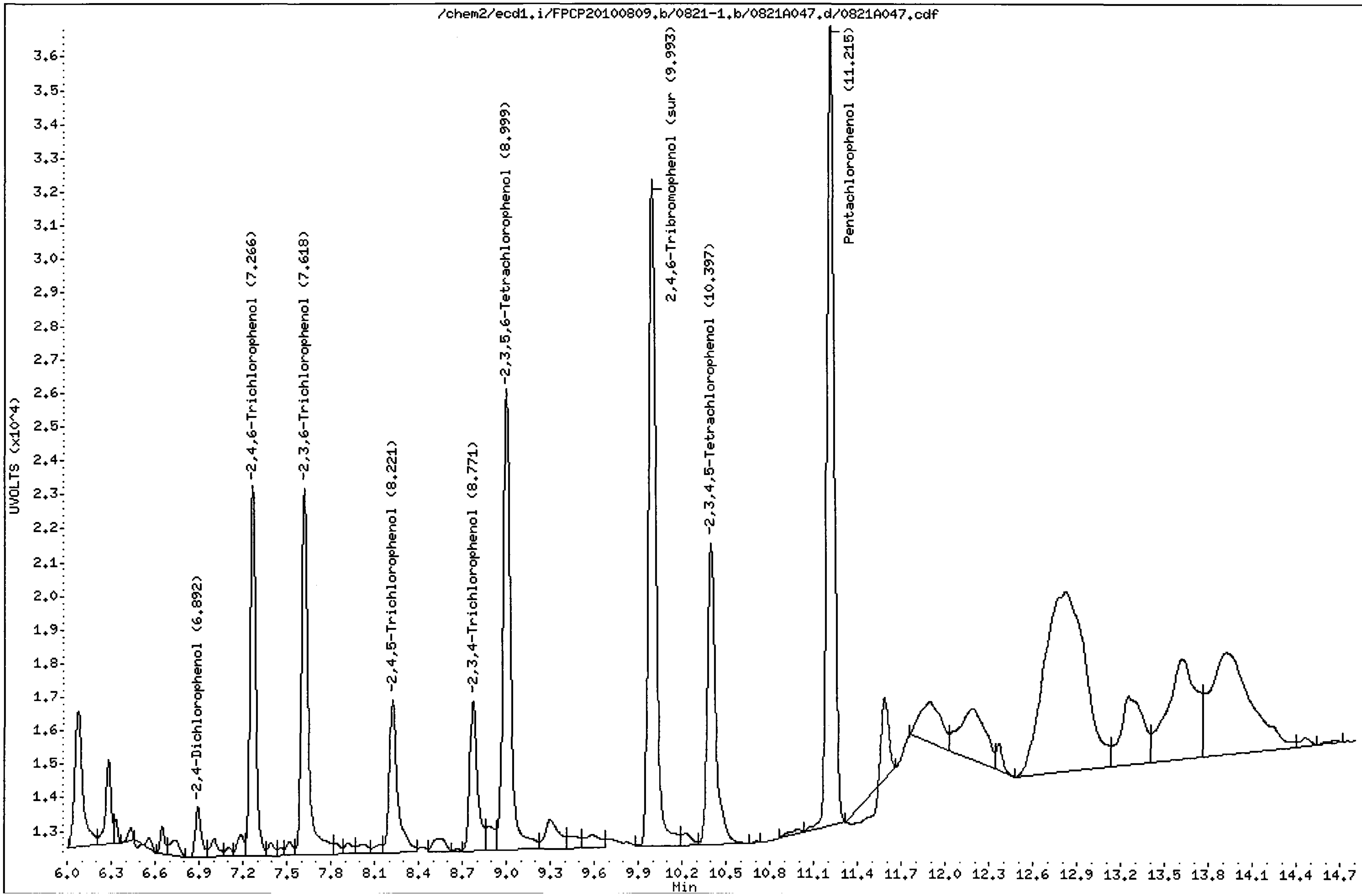
AI0 0821A047.cdf
ZB35 RG78JMS
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.651
9.877
10.143
10.241
10.363
10.920
11.246
11.388
11.555

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A047.d
Date : 22-AUG-2010 03:16
Client ID: PSB10-8.5-10-07 MS
Sample Info: RG78JMS
Column phase: ZB5

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



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

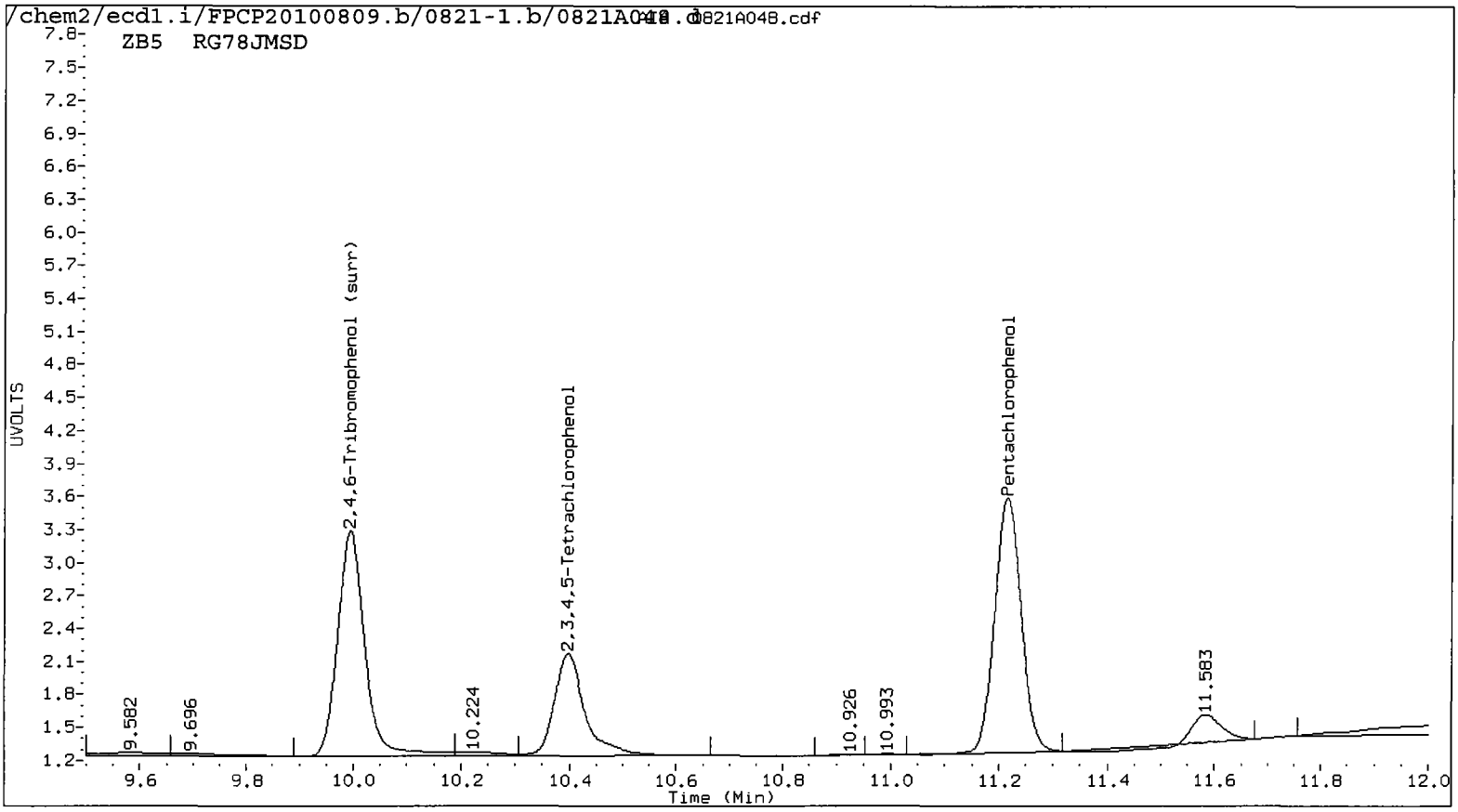
AR 8/23/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A048.d ARI ID: RG78JMSD
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A048.d Client ID: PSB10-8.5-10-07 MSD
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 03:36
Compound Sublist: all Report Date: 08/23/2010 11:25
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.216	-0.003	392672	11.653	-0.005	576692	25.4174	25.1157	1.2	Pentachlorophenol
7.266	0.002	153221	7.334	0.001	211655	17.5174	16.9533	3.3	2,4,6-Trichlorophenol
7.619	0.000	184035	7.862	-0.002	212208	20.5238	17.1018	18.2	2,3,6-Trichlorophenol
8.221	-0.021	90225	8.594	-0.021	108193	17.8751	16.6179	7.3	2,4,5-Trichlorophenol
8.772	-0.020	98623	9.360	-0.020	124120	14.4163	13.9028	3.6	2,3,4-Trichlorophenol
9.000	-0.007	244144	9.265	-0.012	329345	17.3083	17.7882	2.7	2,3,5,6-Tetrachlorophenol
10.397	-0.016	182908	11.110	-0.016	230242	16.8051	15.7801	6.3	2,3,4,5-Tetrachlorophenol
6.893	0.000	23295	7.161	-0.005	53857	38.3122	76.8808	67.0*	2,4-Dichlorophenol
9.994	-0.008	360425	10.635	-0.011	549677	29.7	29.4	1.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	101.7	100.5
2,4,6-Trichlorophenol	70.1	67.8
2,3,6-Trichlorophenol	82.1	68.4
2,4,5-Trichlorophenol	71.5	66.5
2,3,4-Trichlorophenol	57.7	55.6
2,3,5,6-Tetrachlorophenol	69.2	71.2
2,3,4,5-Tetrachlorophenol	67.2	63.1
2,4-Dichlorophenol	15.3	30.8
2,4,6-TBP (surr)	59.5	58.9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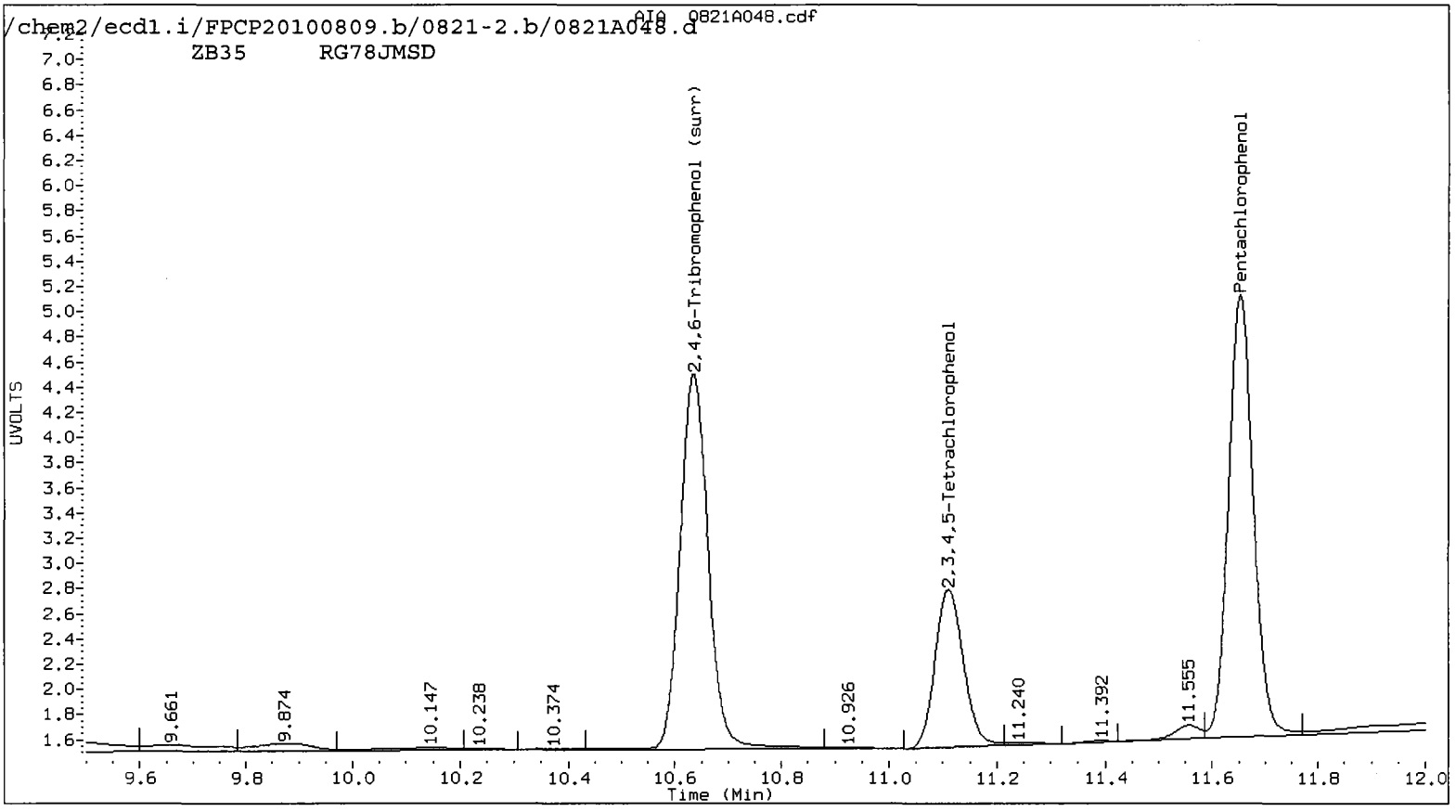
0821A048.cdf
ZB5 RG78JMSD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.582
9.696
10.224
10.926
10.993
11.583
Time (Min)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0821A048.cdf
ZB35 RG78JMSD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.661
9.874
10.147
10.238
10.374
10.926
11.240
11.392
11.555
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A048.d

Date : 22-AUG-2010 03:36

Client ID: PSB10-8.5-10-07 MSD

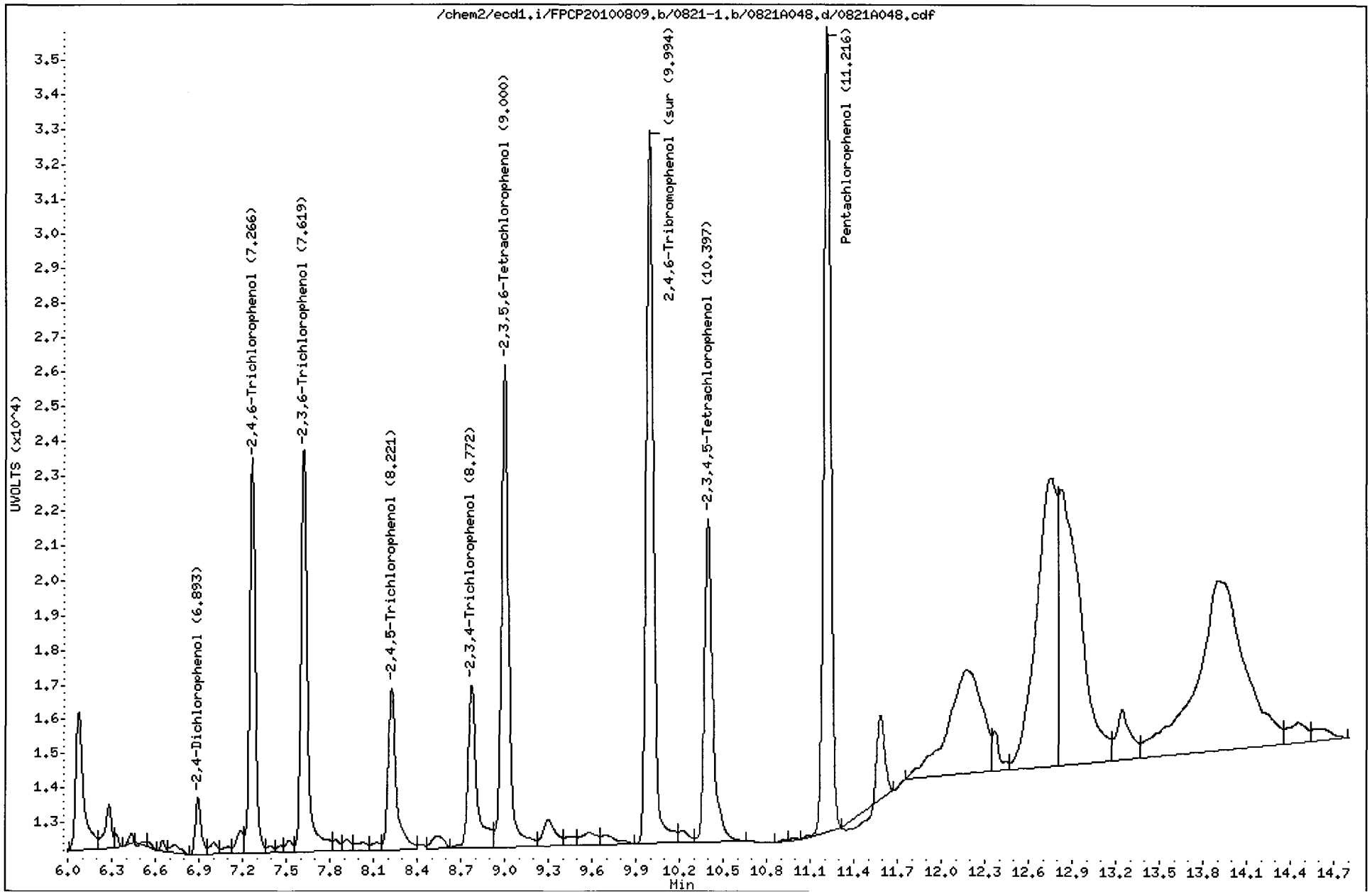
Instrument: ecd1.i

Sample Info: RG78JMSD

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 61917

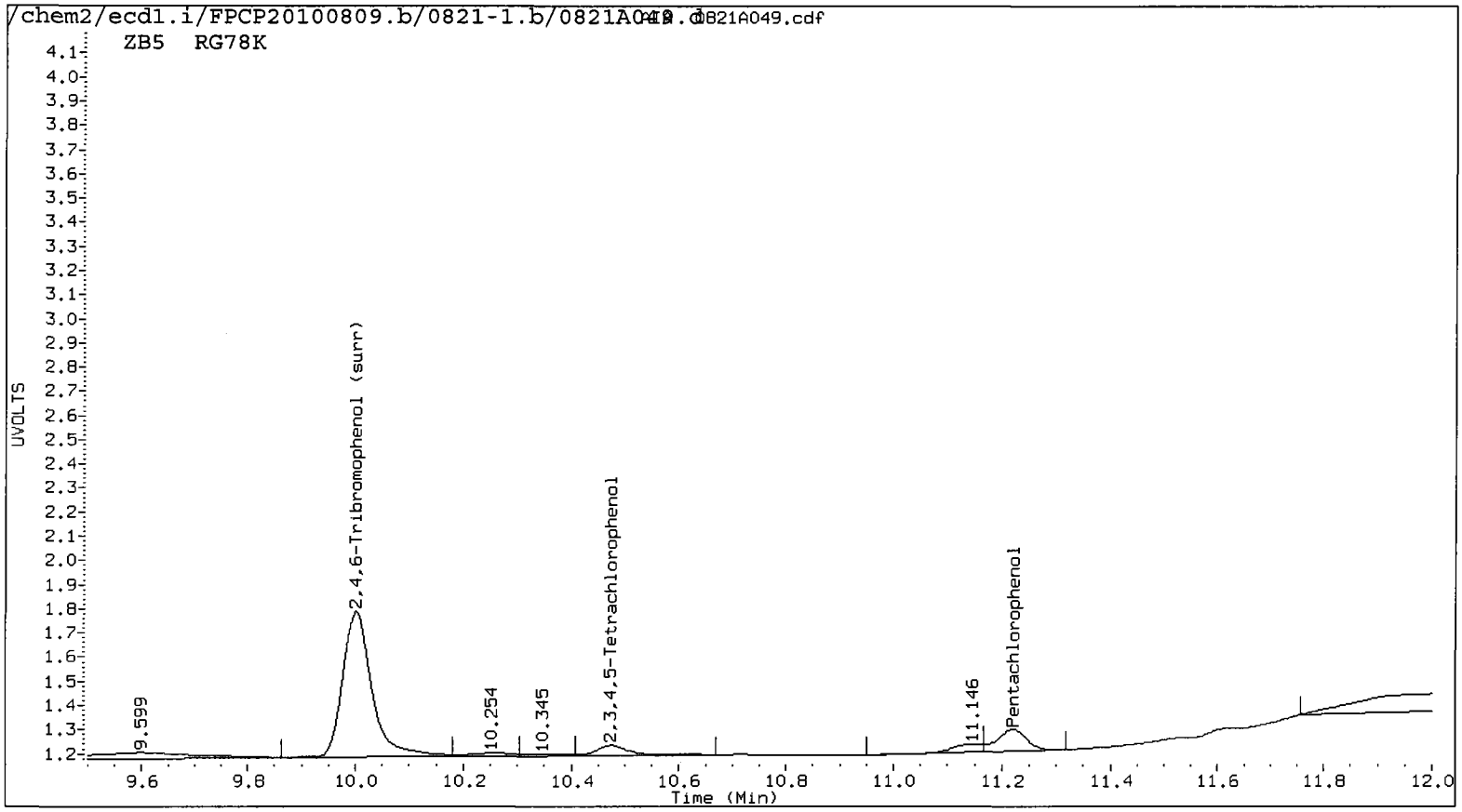
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A049.d ARI ID: RG78K
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A049.d Client ID: PSB10-14-15-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 03:56
Compound Sublist: all Report Date: 08/23/2010 11:26
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.219	0.000	16669	11.657	-0.001	25928	0.9302	1.1292	19.3	Pentachlorophenol
7.288	0.024	9177	7.373	0.040	9642	0.9558	0.7723	21.2	2,4,6-Trichlorophenol
7.654	0.035	8556	7.824	-0.040	2176	0.8742	0.1754	133.1*	2,3,6-Trichlorophenol
8.262	0.020	2284	8.571	-0.044	646	0.4525	0.0900	133.6*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.030	0.023	7026	9.290	0.013	6020	0.4982	0.3251	42.0*	2,3,5,6-Tetrachlorophenol
10.474	0.061	9854	----			0.7886	0.0000	---	2,3,4,5-Tetrachlorophenol
6.922	0.029	1170	7.163	-0.003	3950	1.8204	5.2667	97.3*	2,4-Dichlorophenol
10.001	-0.001	113543	10.639	-0.007	164417	8.6	8.8	2.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	34.2	35.2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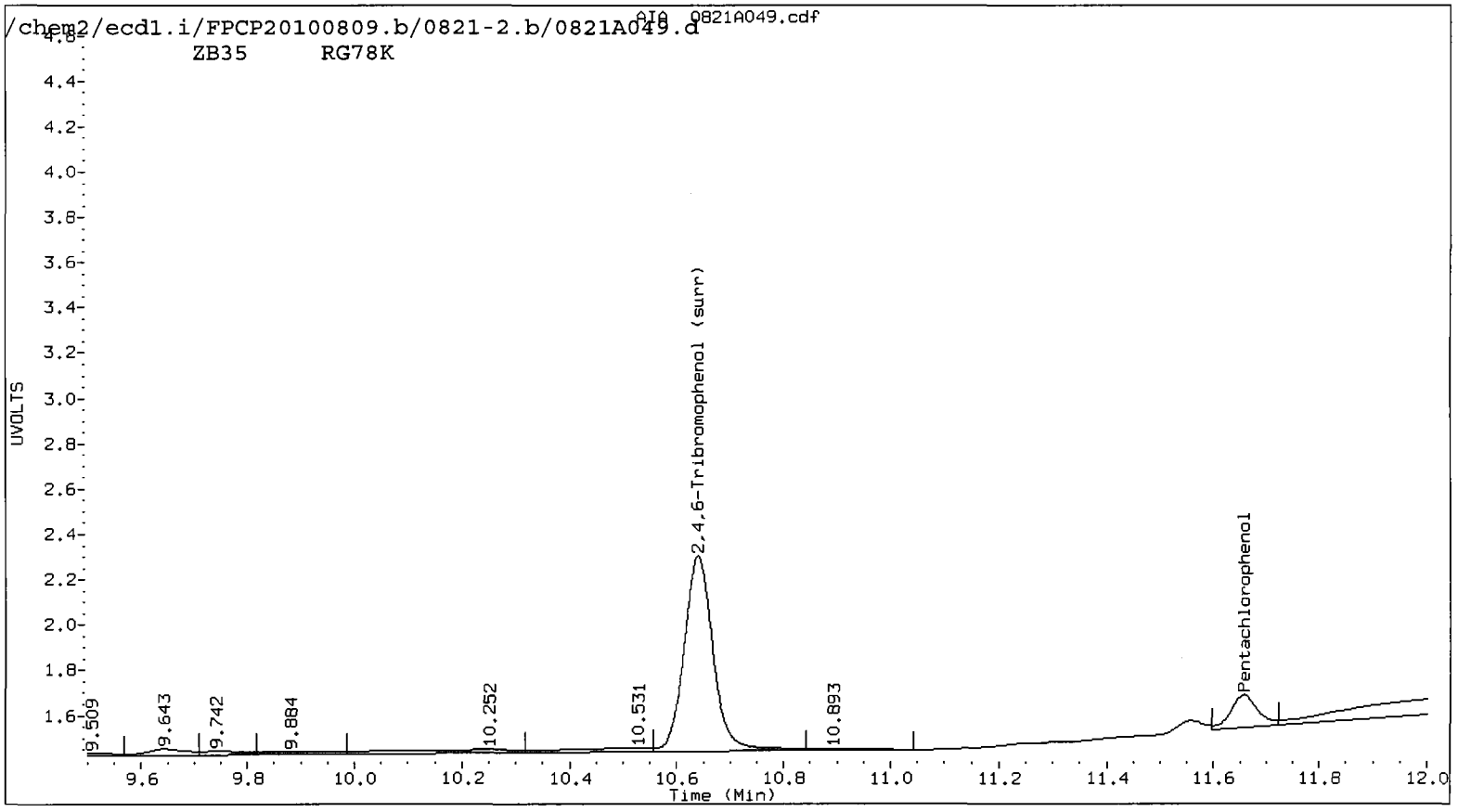
0821A049.cdf
ZB5 RG78K
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.599
10.254
10.345
11.146
Time (Min)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0821A049.cdf
ZB35 RG78K
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.509
9.643
9.742
9.884
10.252
10.531
10.893
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A049.d

Page 1

Date : 22-AUG-2010 03:56

Client ID: PSB10-14-15-073010

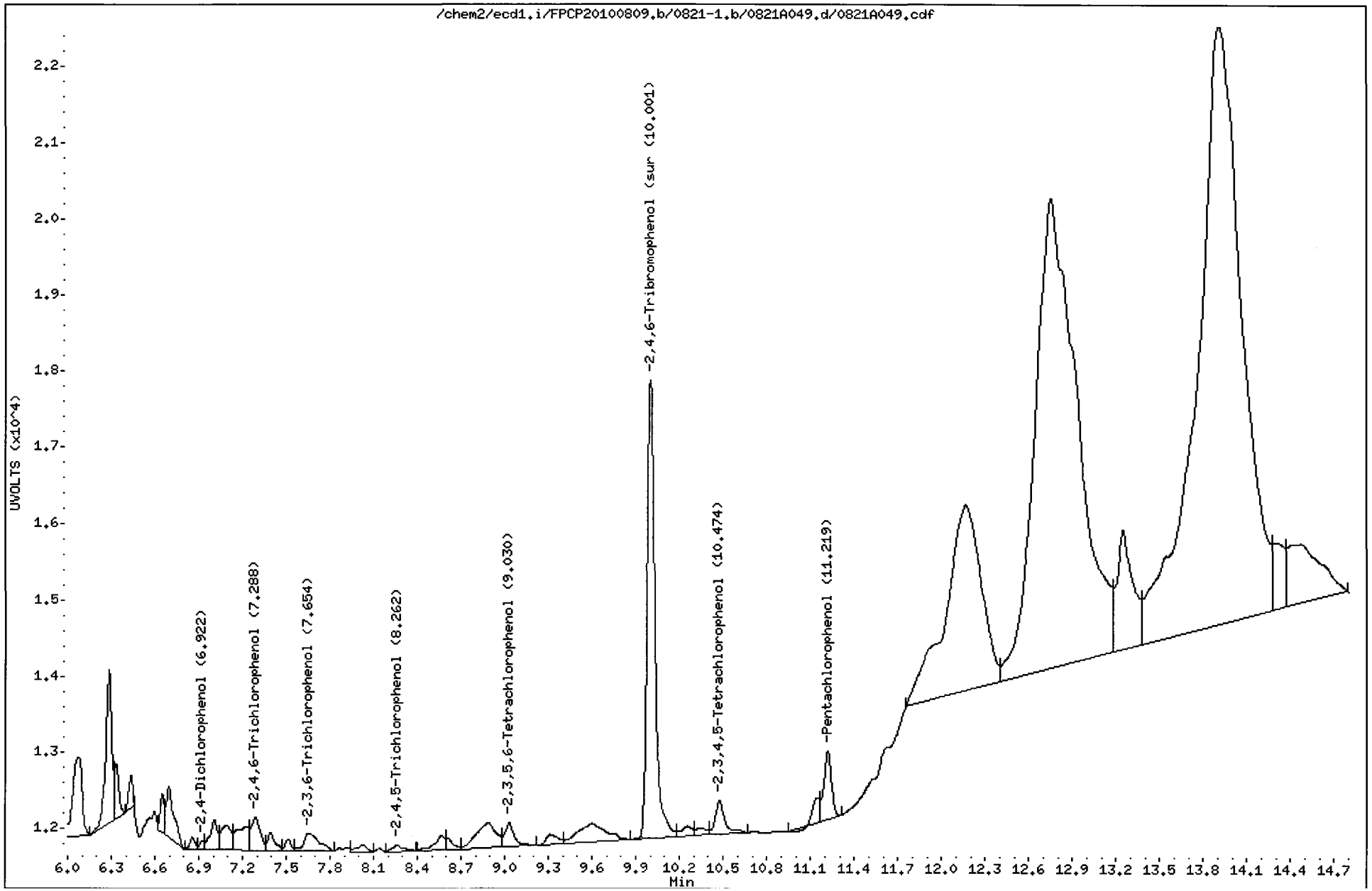
Instrument: ecd1.i

Sample Info: RG78K

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 01050

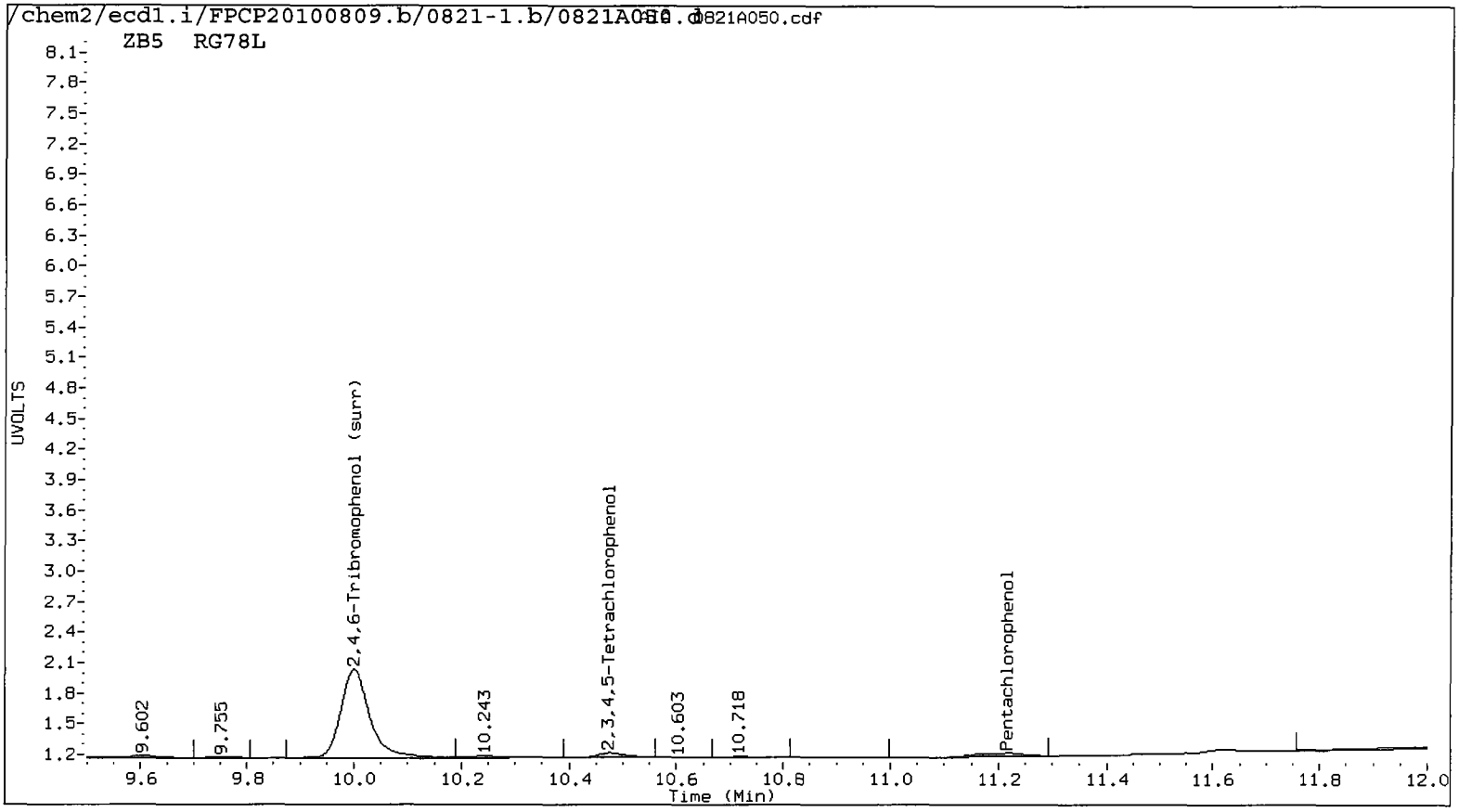
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A050.d ARI ID: RG78L
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A050.d Client ID: PSB10-20-25-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 04:16
Compound Sublist: all Report Date: 08/23/2010 11:26
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.218	-0.001	7282	11.663	0.005	8805	0.4048	0.3835	5.4	Pentachlorophenol
7.292	0.028	20605	7.372	0.039	23499	2.1626	1.8823	13.9	2,4,6-Trichlorophenol
----			7.840	-0.024	6726	0.0000	0.5421	---	2,3,6-Trichlorophenol
8.305	0.063	8522	8.663	0.048	1276	1.6884	0.1777	161.9*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.025	0.018	9551	9.268	-0.009	8015	0.6771	0.4329	44.0*	2,3,5,6-Tetrachlorophenol
10.474	0.061	9164	----			0.7330	0.0000	---	2,3,4,5-Tetrachlorophenol
6.856	-0.037	3311	7.163	-0.003	8577	5.1769	11.5104	75.9*	2,4-Dichlorophenol
10.001	-0.001	162685	10.640	-0.006	235904	12.5	12.6	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	50.0	50.5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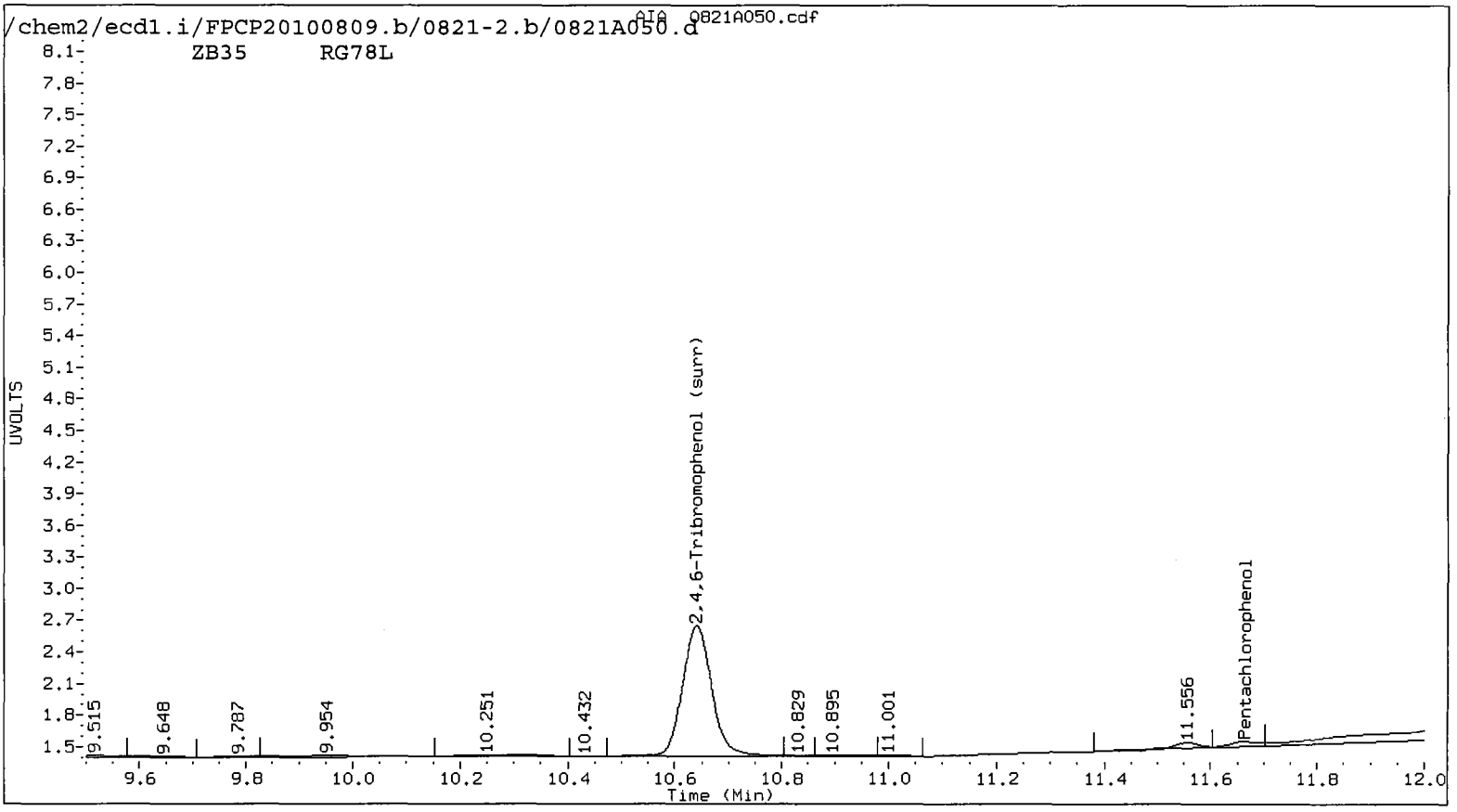
0821A050.cdf
ZB5 RG78L
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.602
9.755
10.243
10.603
10.718
Time (Min)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0821A050.cdf
ZB35 RG78L
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.515
9.648
9.787
9.954
10.251
10.432
10.829
10.895
11.001
11.556
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A050.d

Page 1

Date : 22-AUG-2010 04:16

Client ID: PSB10-20-25-073010

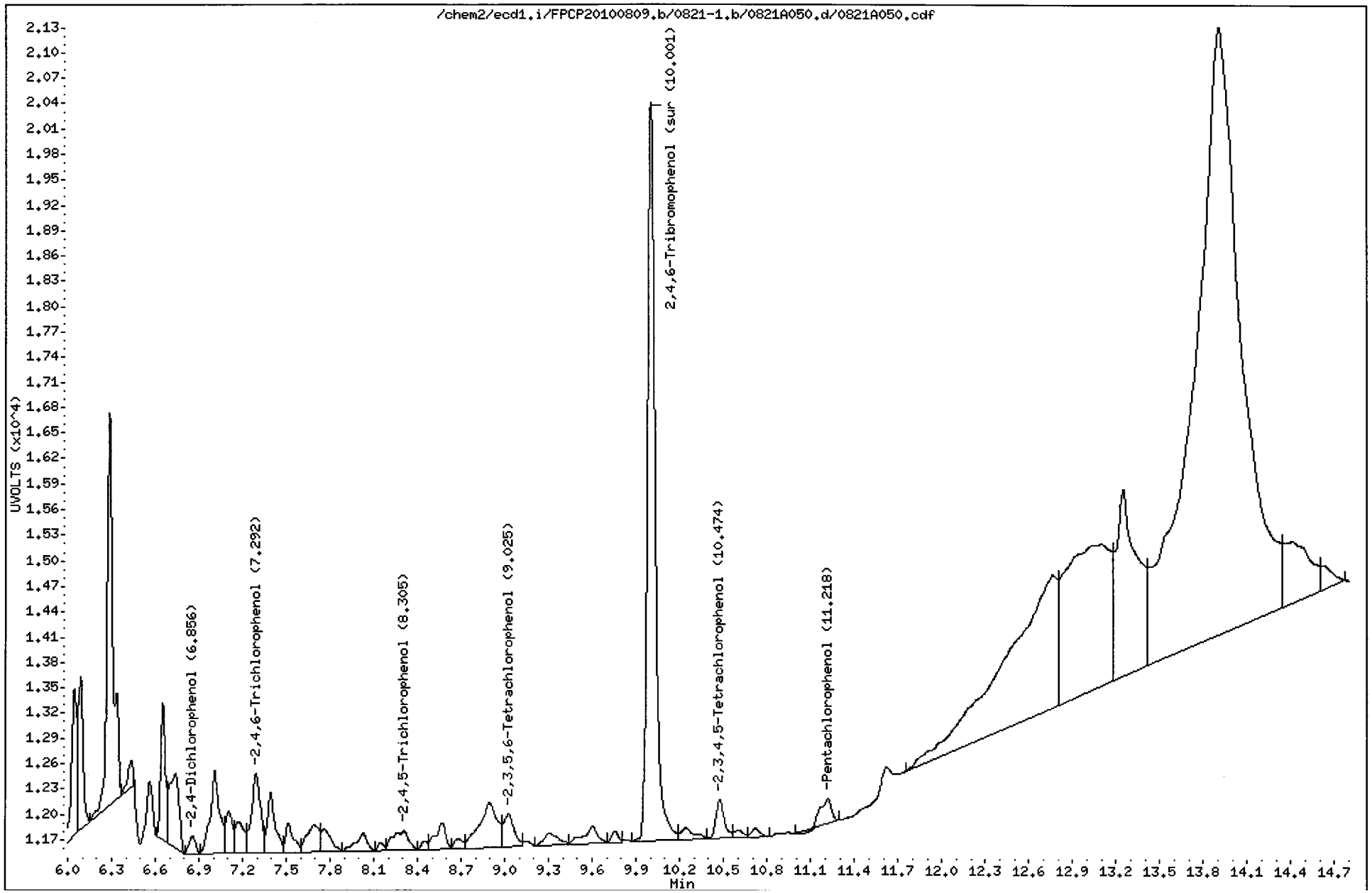
Instrument: ecd1.i

Sample Info: RG78L

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 01053

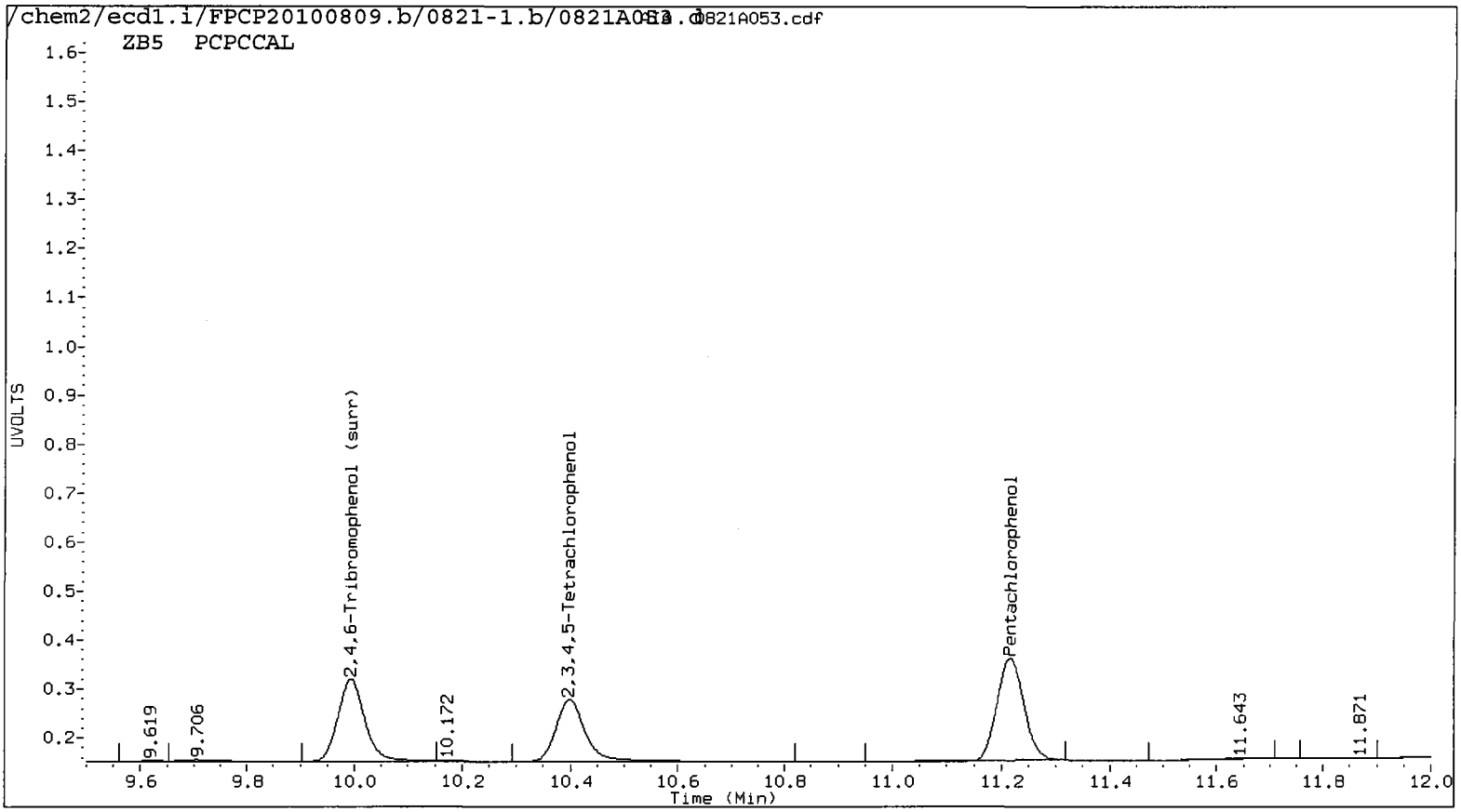
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

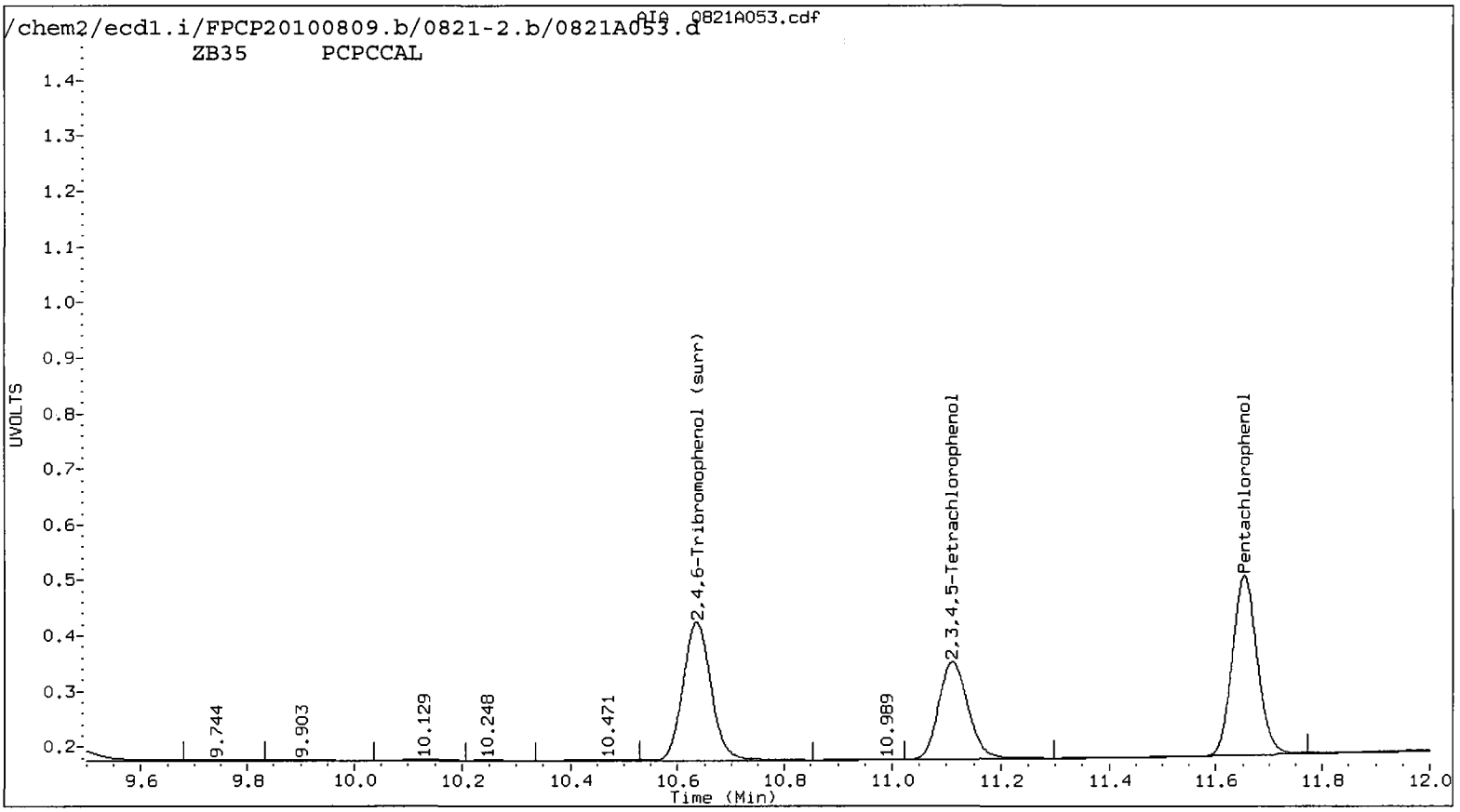
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A053.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0821-2.b/0821A053.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 22-AUG-2010 05:16
Compound Sublist: all Report Date: 08/23/2010 11:26
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.216	-0.003	350243	11.653	-0.005	521105	22.3181	22.6948	1.7	Pentachlorophenol
7.266	0.002	213213	7.334	0.001	322106	25.2801	25.8003	2.0	2,4,6-Trichlorophenol
7.619	0.000	215740	7.862	-0.002	300851	24.4243	24.2455	0.7	2,3,6-Trichlorophenol
8.221	-0.021	121613	8.594	-0.021	159536	24.0936	25.6036	6.1	2,4,5-Trichlorophenol
8.769	-0.023	155995	9.359	-0.021	205690	22.8028	24.2266	6.1	2,3,4-Trichlorophenol
8.999	-0.008	338545	9.265	-0.012	464212	24.0007	25.0725	4.4	2,3,5,6-Tetrachlorophenol
10.398	-0.015	241834	11.111	-0.015	329560	23.1947	22.5870	2.7	2,3,4,5-Tetrachlorophenol
6.890	-0.003	107516	7.160	-0.006	148951	213.6167	239.3633	11.4	2,4-Dichlorophenol
9.994	-0.008	295386	10.635	-0.011	454347	23.8	24.3	2.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	89.3	90.8
2,4,6-Trichlorophenol	101.1	103.2
2,3,6-Trichlorophenol	97.7	97.0
2,4,5-Trichlorophenol	96.4	102.4
2,3,4-Trichlorophenol	91.2	96.9
2,3,5,6-Tetrachlorophenol	96.0	100.3
2,3,4,5-Tetrachlorophenol	92.8	90.3
2,4-Dichlorophenol	85.4	95.7
2,4,6-TBP (surr)	95.2	97.4


/chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A053.d
0821A053.cdf
ZB5 PCPCCAL
UVOLTS
Time (Min)
9.619
9.706
2,4,6-Tribromophenol (surr)
10.172
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.643
11.871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0821A053.cdf
ZB35 PCPCCAL
UVOLTS
Time (Min)
9.744
9.903
10.129
10.248
10.471
2,4,6-Tribromophenol (surr)
10.989
2,3,4,5-Tetrachlorophenol
Pentachlorophenol

Data File: /chem2/ecd1.i/FPCP20100809.b/0821-1.b/0821A053.d

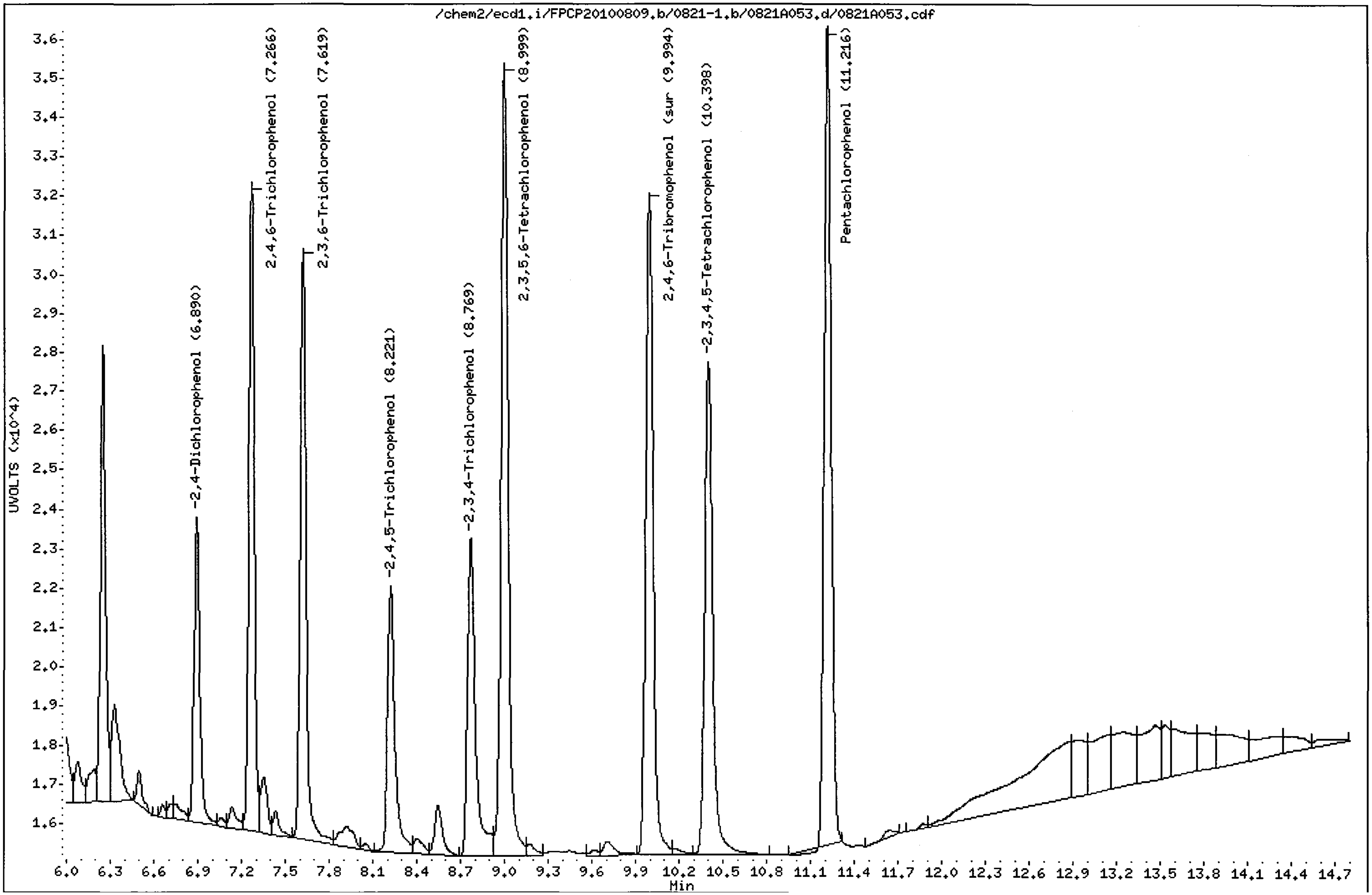
Date : 22-AUG-2010 05:16

Client ID: Instrument: ecd1.i

Sample Info: PCPCCAL

Purge Volume: 2.0 Operator: ar

Column phase: ZB5 Column diameter: 0.53



Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/23/2010 Analysis: Cl. Phenols Analyst: AR

GC Program: PCPFAST.M Column No: 150608/148146 Column Type: 2B5/35

Instrument Tune (.U or .CT.): NA EM Voltage: NA

Calibration File: FPCP20100809.b Curve Date: 8/9/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-2 & 1739-1	1703-2 & 1731-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0823-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	23-AUG-2010 13:12	0823A004.d	1	PCPCCAL - fails low	
2	23-AUG-2010 13:32	0823A005.d	1	RG94A	MW14-15-16.5-080210
3	23-AUG-2010 13:52	0823A006.d	1	PCPCCAL - passes	
4	23-AUG-2010 14:12	0823A007.d	1	RG94A	MW14-15-16.5-080210
5	23-AUG-2010 14:32	0823A008.d	1	RG94E	MW13-18.5-19.5-0802
6	23-AUG-2010 14:52	0823A009.d	1	RG94F	MW13-18.5-19.5-0802
7	23-AUG-2010 15:12	0823A010.d	1	RG94J	MW12-17.5-19-080210
8	23-AUG-2010 15:32	0823A011.d	1	PCP	
9	23-AUG-2010 15:52	0823A012.d	1	PCPCCAL - passes	
10	23-AUG-2010 16:12	0823A013.d	1	RG78MBS1	RG78MBS1
11	23-AUG-2010 16:32	0823A014.d	1	RG78LCSS1	RG78LCSS1
12	23-AUG-2010 16:52	0823A015.d	5	RG78H	PSB10-2-4-073010
13	23-AUG-2010 17:12	0823A016.d	10	RG78I	PSB10-4-6-073010
14	23-AUG-2010 17:32	0823A017.d	1	RG78J	PSB10-8.5-10-073010
15	23-AUG-2010 17:52	0823A018.d	1	RG78S	PSB9-8.5-9.5-073010
16	23-AUG-2010 18:12	0823A019.d	1	PCP	
17	23-AUG-2010 18:32	0823A020.d	1	PCPCCAL - passes	
18	23-AUG-2010 18:52	0823A021.d	1	RG79MBS1	RG79MBS1
19	23-AUG-2010 19:12	0823A022.d	1	RG79LCSS1	RG79LCSS1
20	23-AUG-2010 19:32	0823A023.d	10	RG79A	PSB11-0-0.5-073010
21	23-AUG-2010 19:52	0823A024.d	50	RG79B	PSB11-1.5-2-073010
22	23-AUG-2010 20:12	0823A025.d	10	RG79C	PSB11-2-4-073010
23	23-AUG-2010 20:32	0823A026.d	10	RG79D	PSB11-2-4-073010-D
24	23-AUG-2010 20:52	0823A027.d	1	RG79E	PSB11-4-6-073010
25	23-AUG-2010 21:12	0823A028.d	1	RG79EMS	PSB11-4-6-07301 MS
26	23-AUG-2010 21:32	0823A029.d	5	RG79EMSD	PSB11-4-6-07301 MSD
27	23-AUG-2010 21:52	0823A030.d	1	RG79G	PSB11-11-13-073010
28	23-AUG-2010 22:11	0823A031.d	1	PCP	
29	23-AUG-2010 22:31	0823A032.d	1	PCP	
30	23-AUG-2010 22:51	0823A033.d	1	PCPCCAL - passes	
31	23-AUG-2010 23:11	0823A034.d	1	RG79H	PSB11-14-16-073010
32	23-AUG-2010 23:31	0823A035.d	10	RG79K	PSB15-0-0.5-073010
33	23-AUG-2010 23:51	0823A036.d	1	RG79L	PSB15-1.5-2-073010
34	24-AUG-2010 00:11	0823A037.d	1	RG79M	PSB15-2-4-073010
35	24-AUG-2010 00:31	0823A038.d	1	RG79N	PSB15-4-6-073010
36	24-AUG-2010 00:51	0823A039.d	1	RG79O	PSB15-13-15-073010
37	24-AUG-2010 01:11	0823A040.d	1	RG79P	PSB15-17-19-073010
38	24-AUG-2010 01:31	0823A041.d	1	RG79Q	PSB15-17-19-073010-
39	24-AUG-2010 01:51	0823A042.d	1	PCP	
40	24-AUG-2010 02:11	0823A043.d	1	PCP	
41	24-AUG-2010 02:31	0823A044.d	1	PCPCCAL - passes	
42	24-AUG-2010 02:51	0823A045.d	1	RG79A	PSB11-0-0.5-073010
43	24-AUG-2010 03:11	0823A046.d	10	RG79B	PSB11-1.5-2-073010
44	24-AUG-2010 03:31	0823A047.d	1	PCP	
45	24-AUG-2010 03:50	0823A048.d	1	PCPCCAL - passes	

[illegible] (daily read. Could not demonstrate the instrument is in control).

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

AR 8/25/2010

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG78 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): _____

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

Dates: Curve: 8/9/2010 Analysis Start: ~~8/24/2010~~ 8/23/2010

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: _____ **Date:** 8/25/2010

Reviewer: _____ **Date:** 8/25/10

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

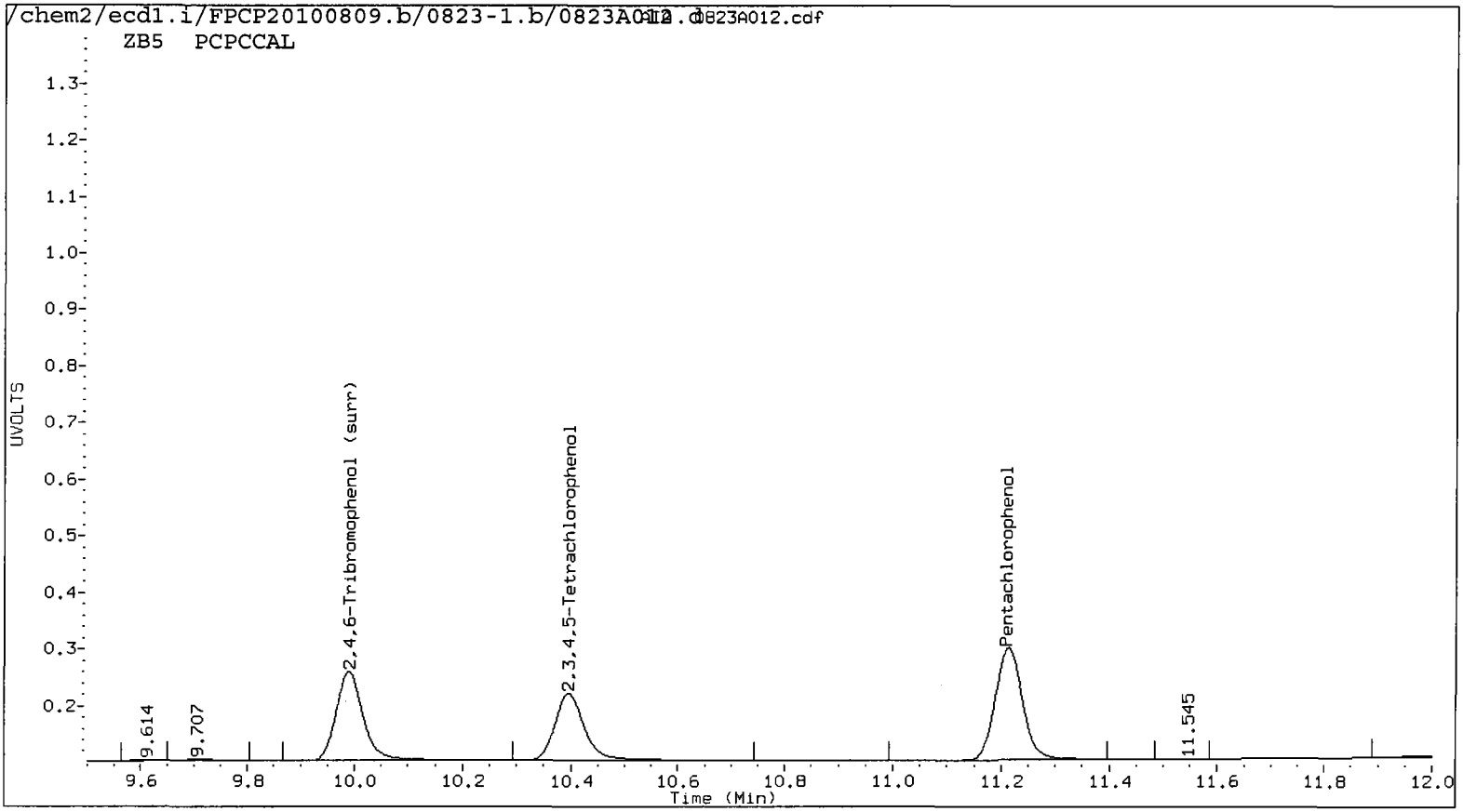
AR 8/23/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A012.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A012.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 15:52
Compound Sublist: all Report Date: 08/23/2010 16:46
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.213	-0.006	344273	11.651	-0.007	528525	21.8888	23.0179	5.0	Pentachlorophenol
7.264	0.000	203757	7.332	-0.001	282722	24.0228	22.6457	5.9	2,4,6-Trichlorophenol
7.617	-0.002	205298	7.860	-0.004	271337	23.1278	21.8670	5.6	2,3,6-Trichlorophenol
8.219	-0.023	116279	8.592	-0.023	148559	23.0370	23.6230	2.5	2,4,5-Trichlorophenol
8.768	-0.024	152070	9.357	-0.023	199982	22.2290	23.4735	5.4	2,3,4-Trichlorophenol
8.996	-0.011	314838	9.263	-0.014	424019	22.3201	22.9016	2.6	2,3,5,6-Tetrachlorophenol
10.396	-0.017	228441	11.109	-0.017	326512	21.7007	22.3781	3.1	2,3,4,5-Tetrachlorophenol
6.889	-0.004	111066	7.158	-0.008	140333	222.2713	223.2304	0.4	2,4-Dichlorophenol
9.990	-0.012	277377	10.633	-0.013	436112	22.2	23.4	5.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	87.6	92.1
2,4,6-Trichlorophenol	96.1	90.6
2,3,6-Trichlorophenol	92.5	87.5
2,4,5-Trichlorophenol	92.1	94.5
2,3,4-Trichlorophenol	88.9	93.9
2,3,5,6-Tetrachlorophenol	89.3	91.6
2,3,4,5-Tetrachlorophenol	86.8	89.5
2,4-Dichlorophenol	88.9	89.3
2,4,6-TBP (surr)	88.8	93.4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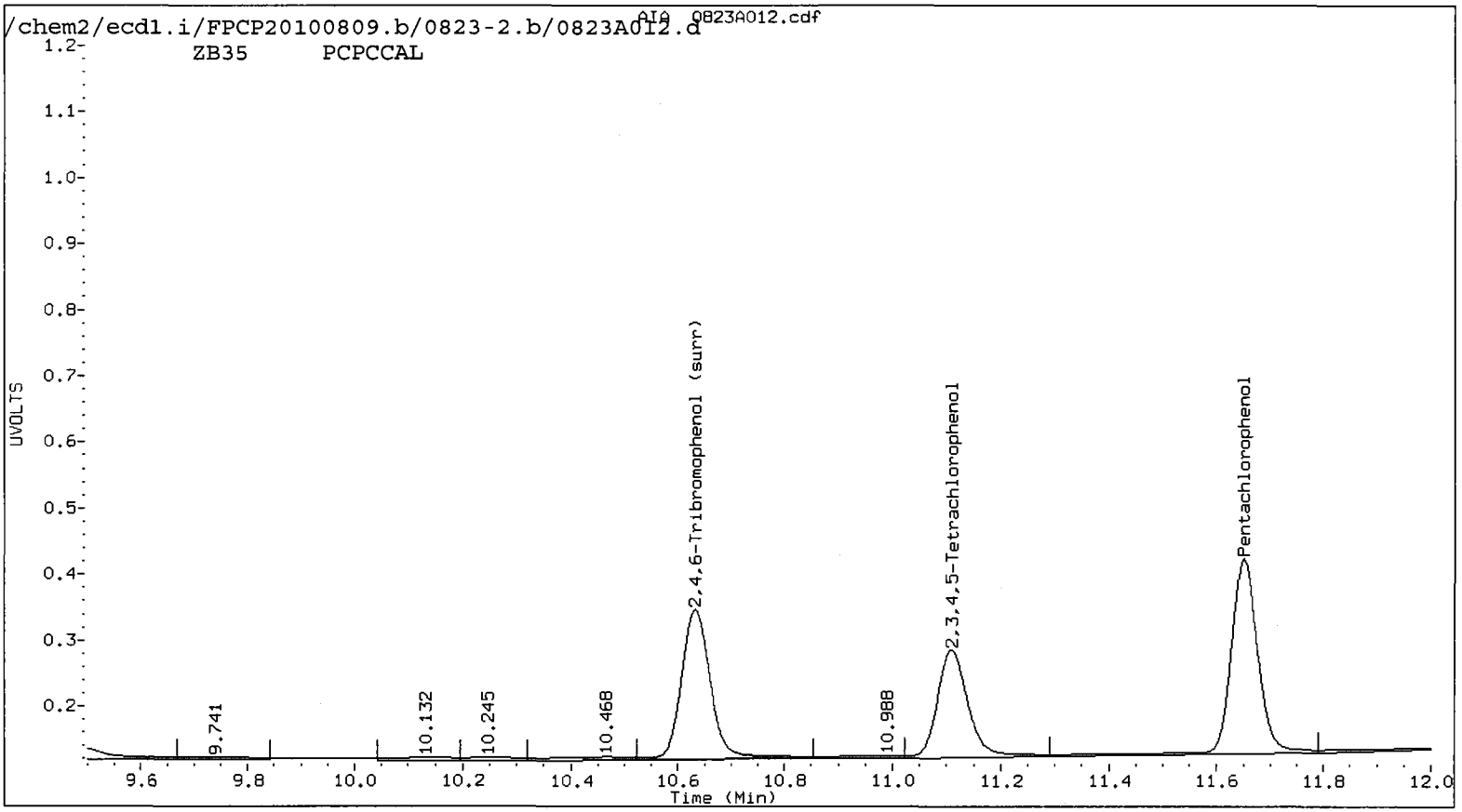
0823A012.cdf
ZB5 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.614
9.707
11.545
Time (Min)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0823A012.cdf
ZB35 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.741
10.132
10.245
10.468
10.988
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A012.d

Date : 23-AUG-2010 15:52

Client ID:

Instrument: ecd1.i

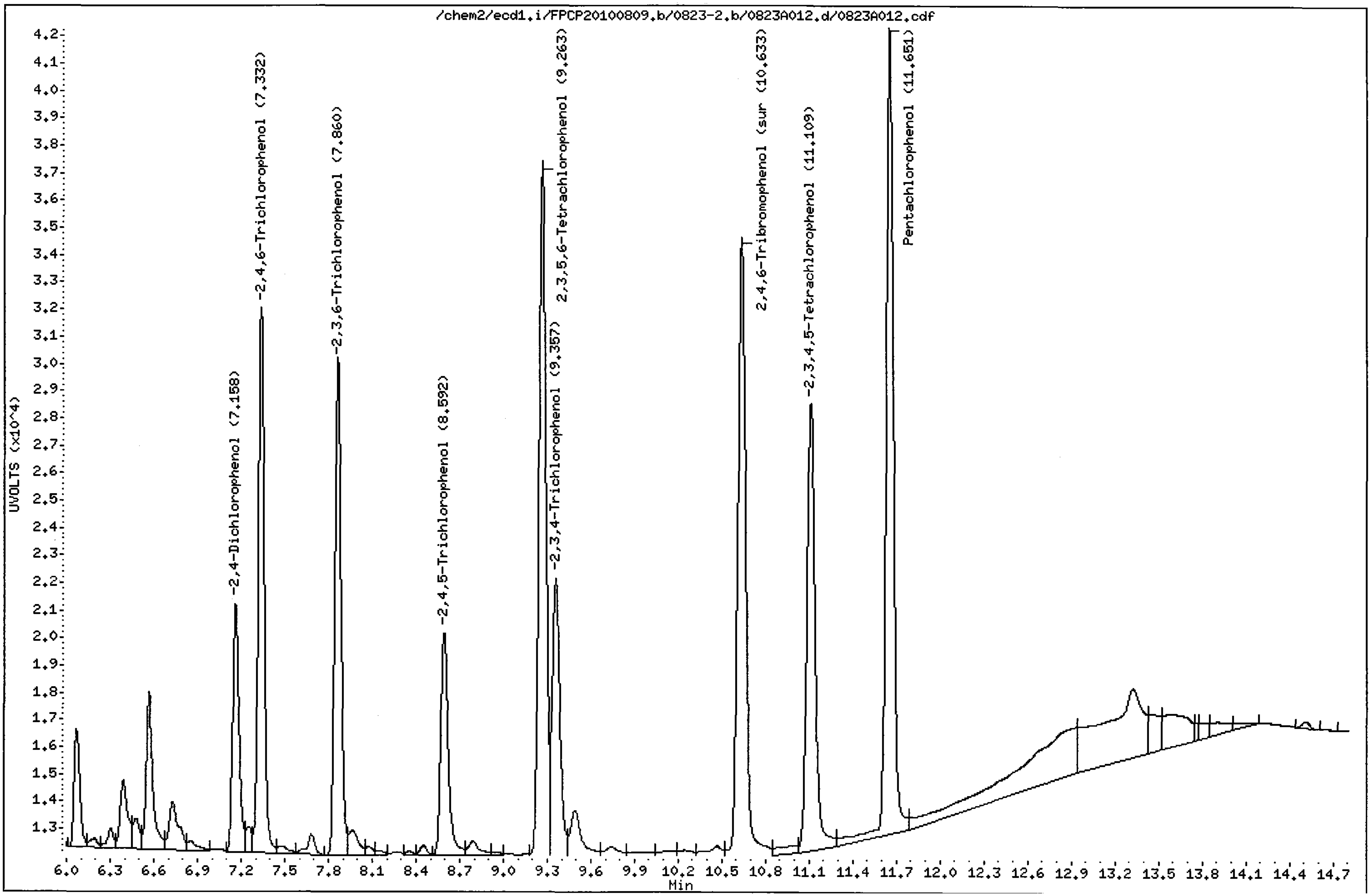
Sample Info: PCPCCAL

Purge Volume: 2.0

Operator: ar

Column phase: ZB35

Column diameter: 0.53



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Date : 23-AUG-2010 15:52

Client ID:

Instrument: ecd1.i

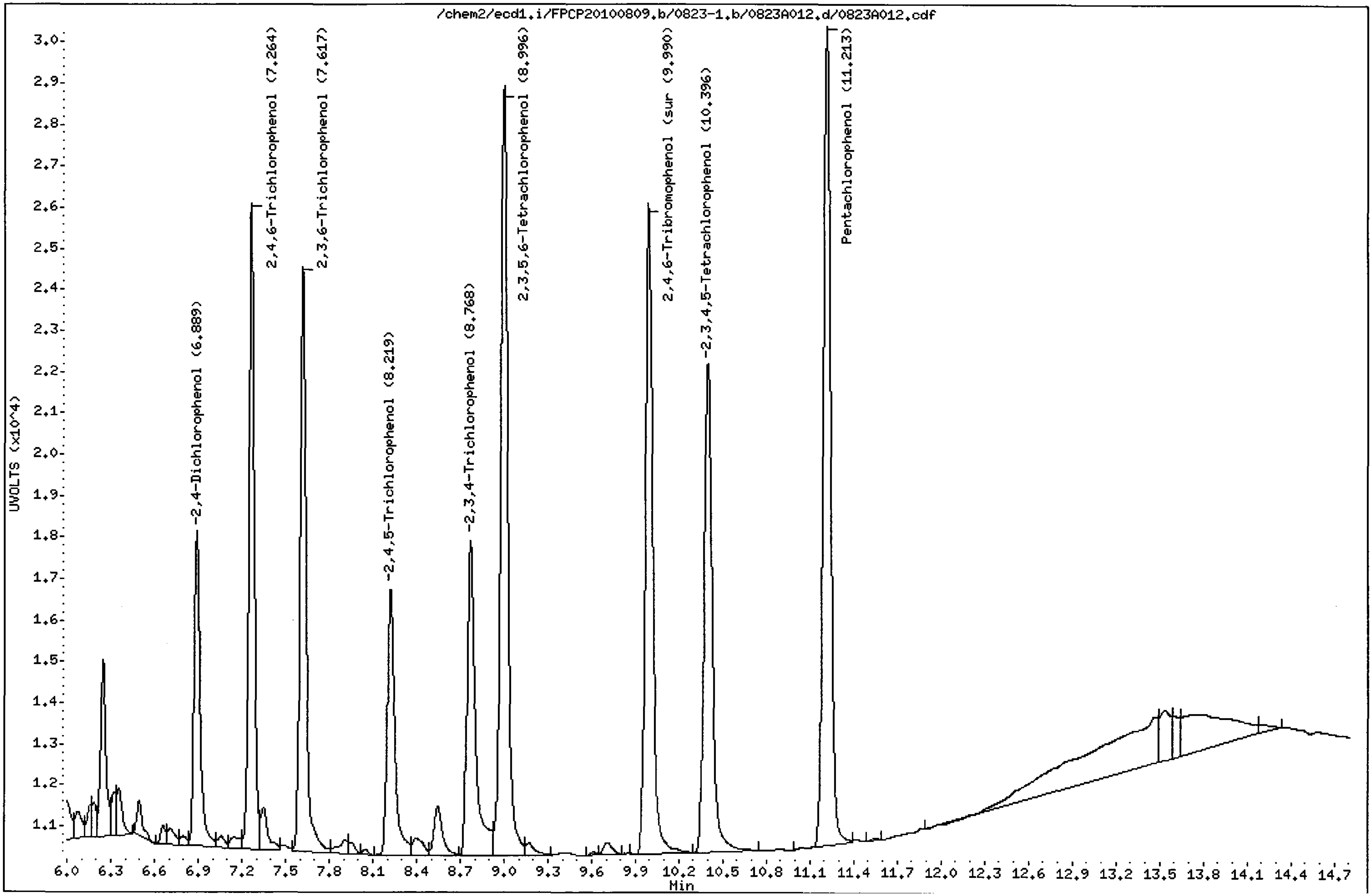
Sample Info: PCPCCAL

Purge Volume: 2.0

Operator: ar

Column phase: ZB5

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/25/2010

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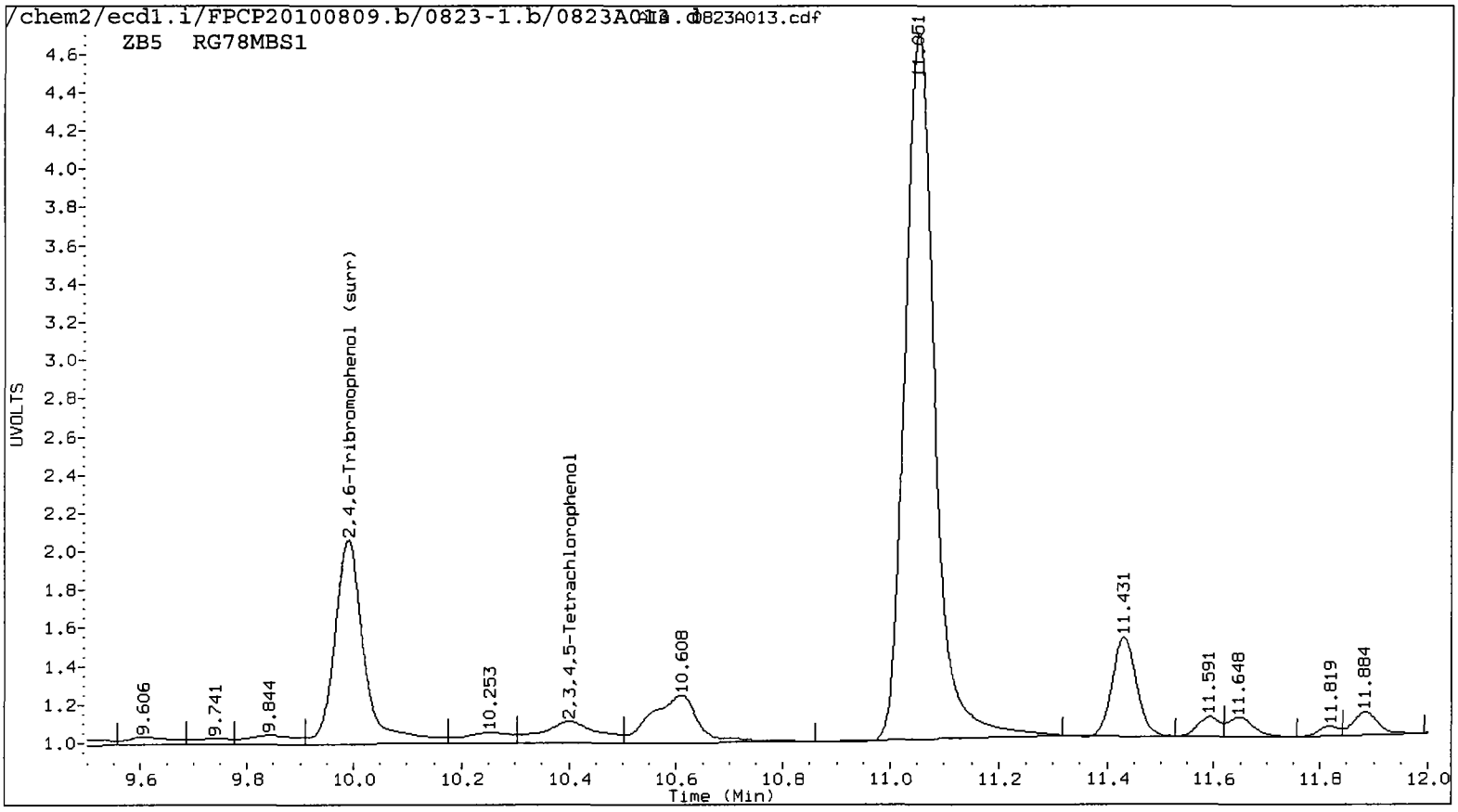
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A013.d Client ID: RG78MBS1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 16:12
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
----			11.652	-0.006	18330	0.0000	0.7983	---	Pentachlorophenol
7.224	-0.040	84955	7.375	0.042	24823	9.3029	1.9883	129.6*	2,4,6-Trichlorophenol
7.645	0.026	101885	7.849	-0.015	7609	10.9160	0.6132	178.7*	2,3,6-Trichlorophenol
8.309	0.067	13338	----			2.6426	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.013	0.006	15103	9.259	-0.018	28042	1.0707	1.5146	34.3	2,3,5,6-Tetrachlorophenol
10.401	-0.012	39874	----			3.2731	0.0000	---	2,3,4,5-Tetrachlorophenol
6.903	0.010	83789	7.165	-0.001	4163	158.3985	5.5526	186.5*	2,4-Dichlorophenol
9.989	-0.013	205037	10.631	-0.015	287330	16.0	15.4	3.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	64.0	61.6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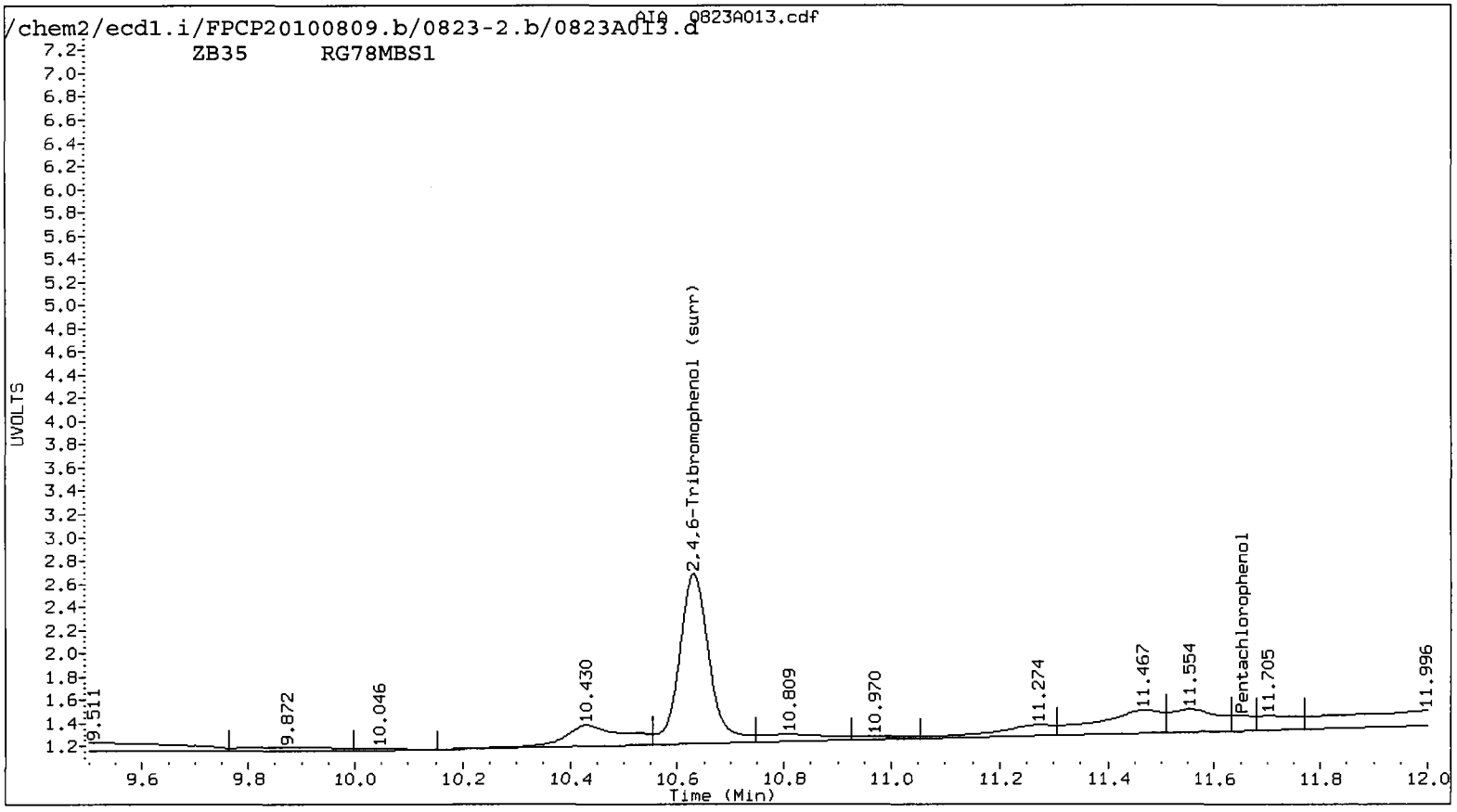
AI0 0823A013.cdf
ZB5 RG78MBS1
UVOLTS
Time (Min)
9.606
9.741
9.844
2,4,6-Tribromophenol (surr)
10.253
2,3,4,5-Tetrachlorophenol
10.608
11.431
11.591
11.648
11.819
11.884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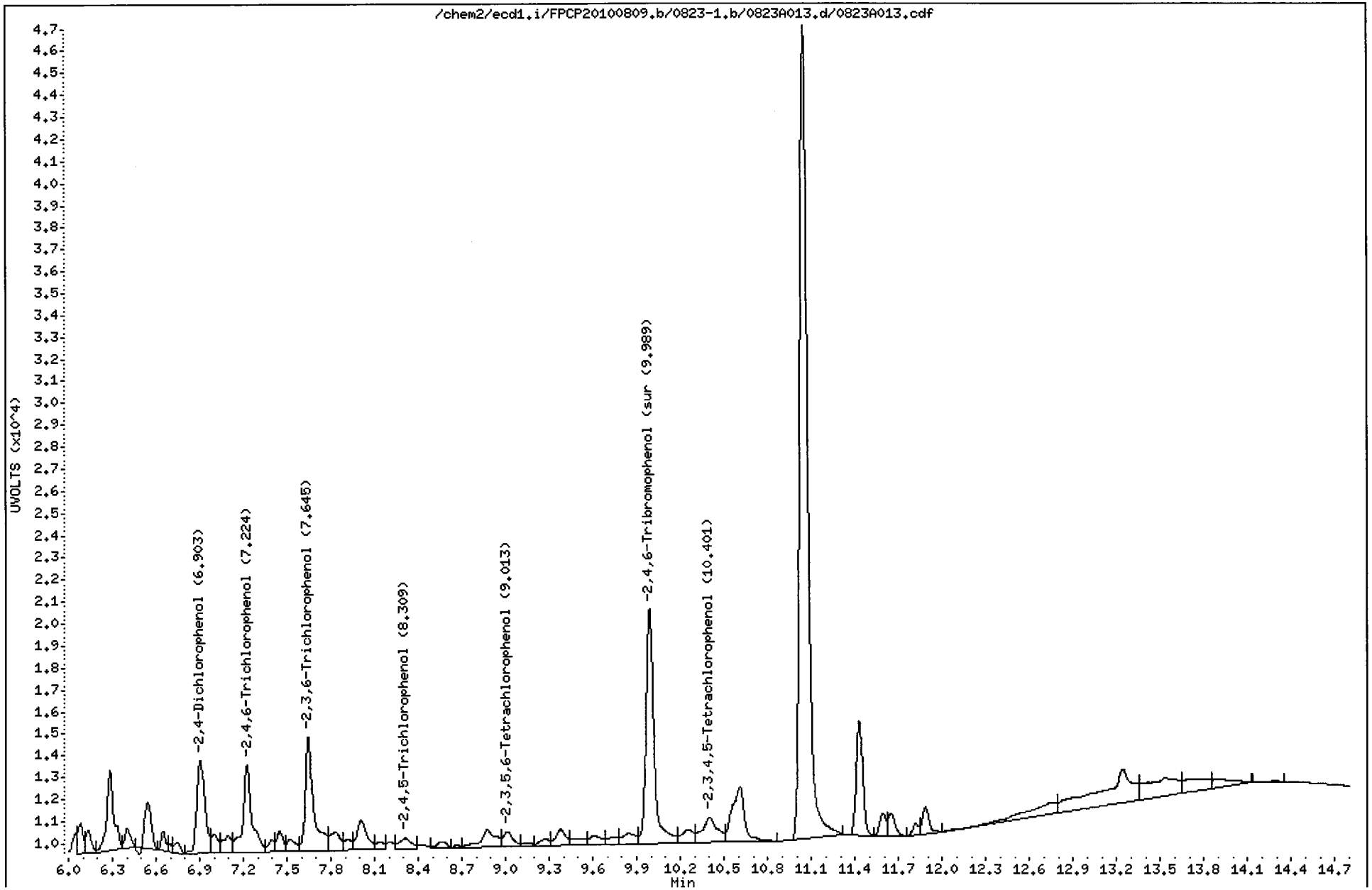
AI0 0823A013.cdf
ZB35 RG78MBS1
UVOLTS
Time (Min)
9.511
9.872
10.046
10.430
2,4,6-Tribromophenol (surr)
10.809
10.970
11.274
11.467
11.554
Pentachlorophenol
11.705
11.996

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A013.d
Date : 23-AUG-2010 16:12
Client ID: RG78MBS1
Sample Info: RG78MBS1

Instrument: ecd1.i
Operator: ar
Column phase: ZB5
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

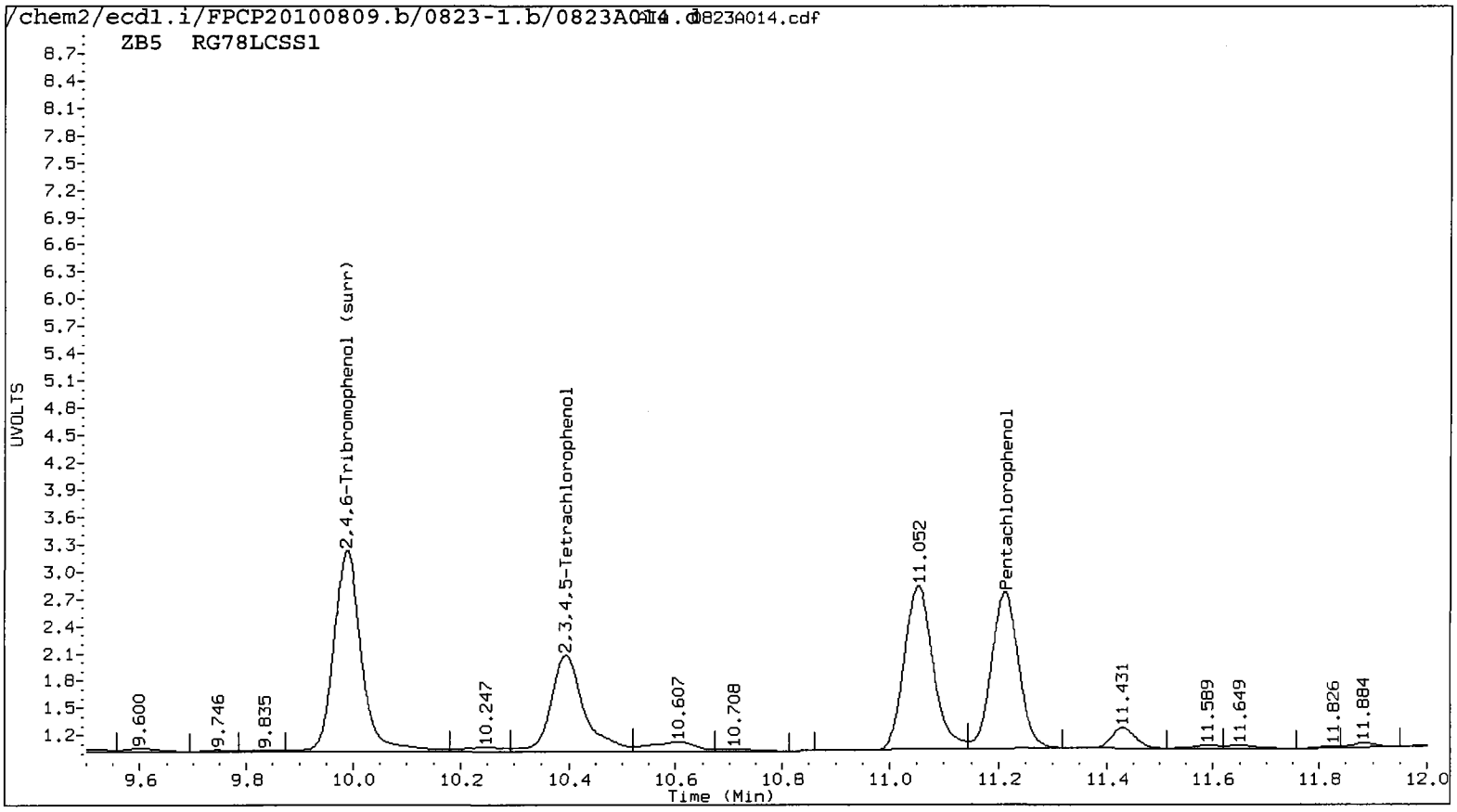
AR 8/25/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A014.d ARI ID: RG78LCSS1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A014.d Client ID: RG78LCSS1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 16:32
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.212	-0.007	293615	11.650	-0.008	467971	18.3148	20.3808	10.7	Pentachlorophenol
7.264	0.000	184131	7.333	0.000	252760	21.4535	20.2458	5.8	2,4,6-Trichlorophenol
7.616	-0.003	197543	7.859	-0.005	306009	22.1725	24.6612	10.6	2,3,6-Trichlorophenol
8.214	-0.028	111298	8.590	-0.025	120641	22.0501	18.7315	16.3	2,4,5-Trichlorophenol
8.764	-0.028	107756	9.356	-0.024	160569	15.7513	18.3995	15.5	2,3,4-Trichlorophenol
8.995	-0.012	249902	9.262	-0.015	352471	17.7165	19.0373	7.2	2,3,5,6-Tetrachlorophenol
10.394	-0.019	224327	11.108	-0.018	262462	21.2467	17.9884	16.6	2,3,4,5-Tetrachlorophenol
6.894	0.001	119334	7.159	-0.007	82454	242.8272	122.1533	66.1*	2,4-Dichlorophenol
9.988	-0.014	396431	10.631	-0.015	605105	33.1	32.4	2.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	73.3	81.5
2,4,6-Trichlorophenol	85.8	81.0
2,3,6-Trichlorophenol	88.7	98.6
2,4,5-Trichlorophenol	88.2	74.9
2,3,4-Trichlorophenol	63.0	73.6
2,3,5,6-Tetrachlorophenol	70.9	76.1
2,3,4,5-Tetrachlorophenol	85.0	72.0
2,4-Dichlorophenol	97.1	48.9
2,4,6-TBP (surr)	66.2	64.8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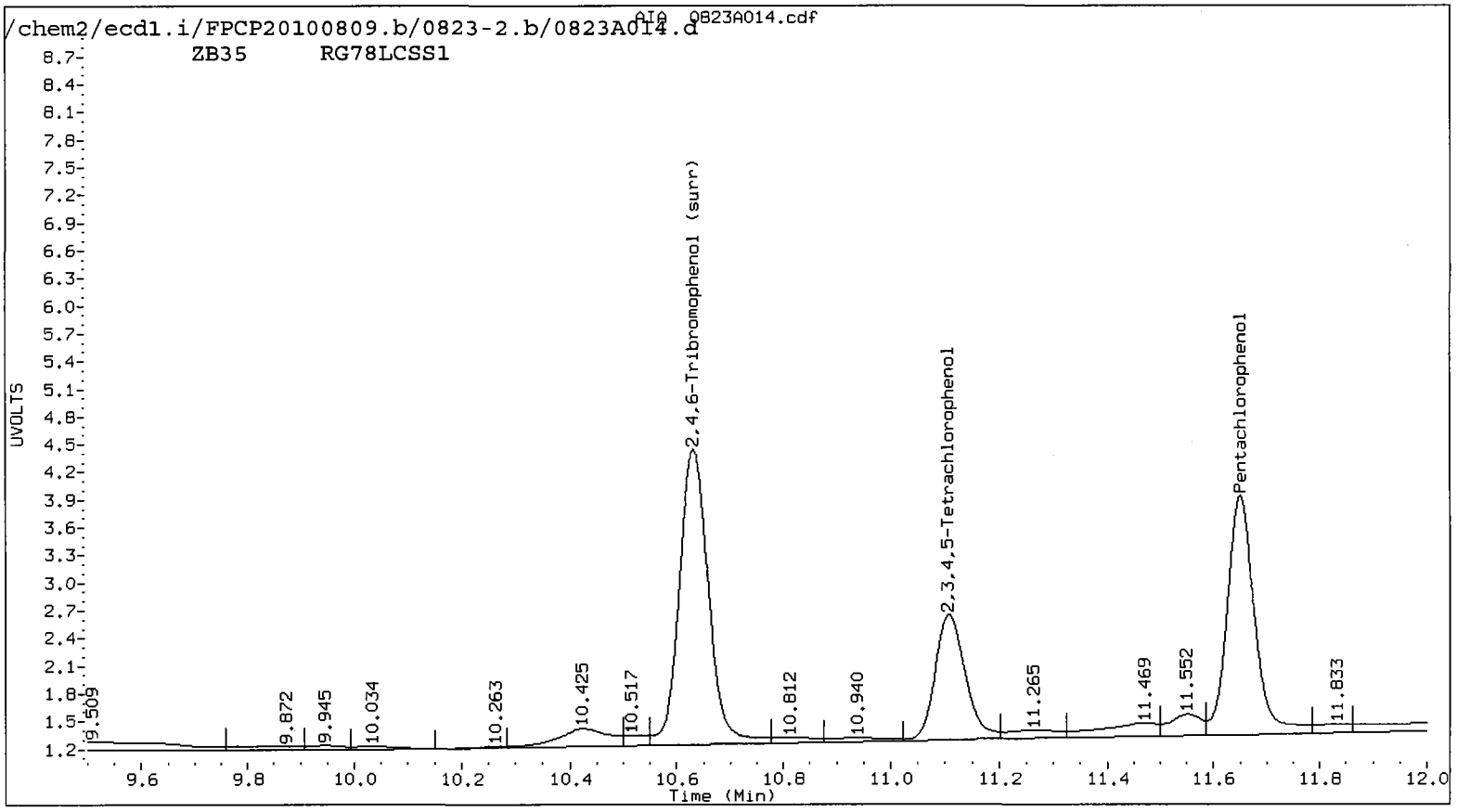
AIA 0823A014.cdf
ZB5 RG78LCSS1
UVOLTS
Time (Min)
9.600
9.746
9.835
2,4,6-Tribromophenol (surr)
10.247
2,3,4,5-Tetrachlorophenol
10.607
10.708
11.052
Pentachlorophenol
11.431
11.589
11.649
11.826
11.884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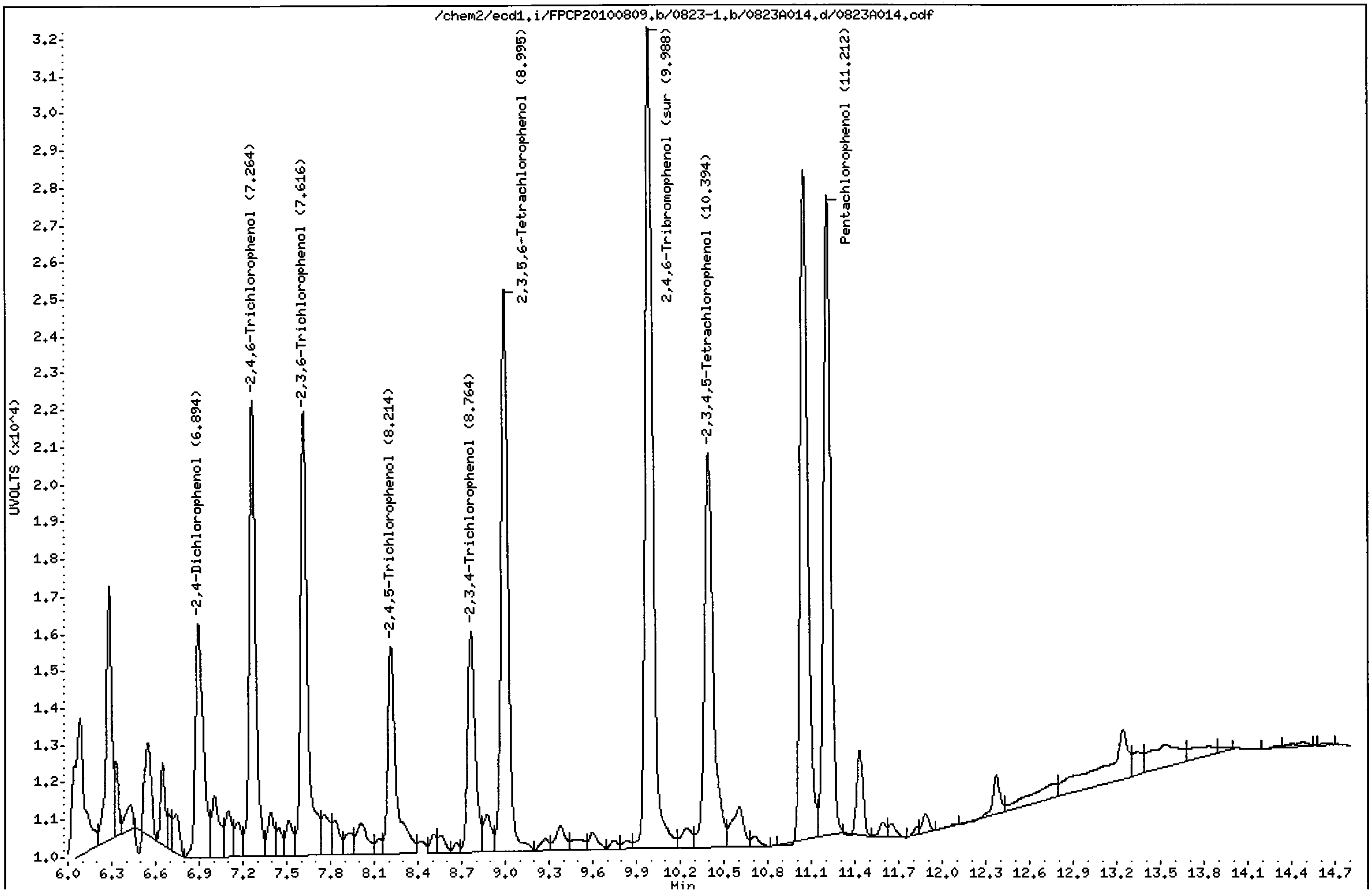
AIA 0823A014.cdf
ZB35 RG78LCSS1
UVOLTS
Time (Min)
9.509
9.872
9.945
10.034
10.263
10.425
10.517
2,4,6-Tribromophenol (surr)
10.812
10.940
2,3,4,5-Tetrachlorophenol
11.265
11.469
11.552
Pentachlorophenol
11.833

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A014.d
Date : 23-AUG-2010 16:32
Client ID: RG78LCSS1
Sample Info: RG78LCSS1

Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

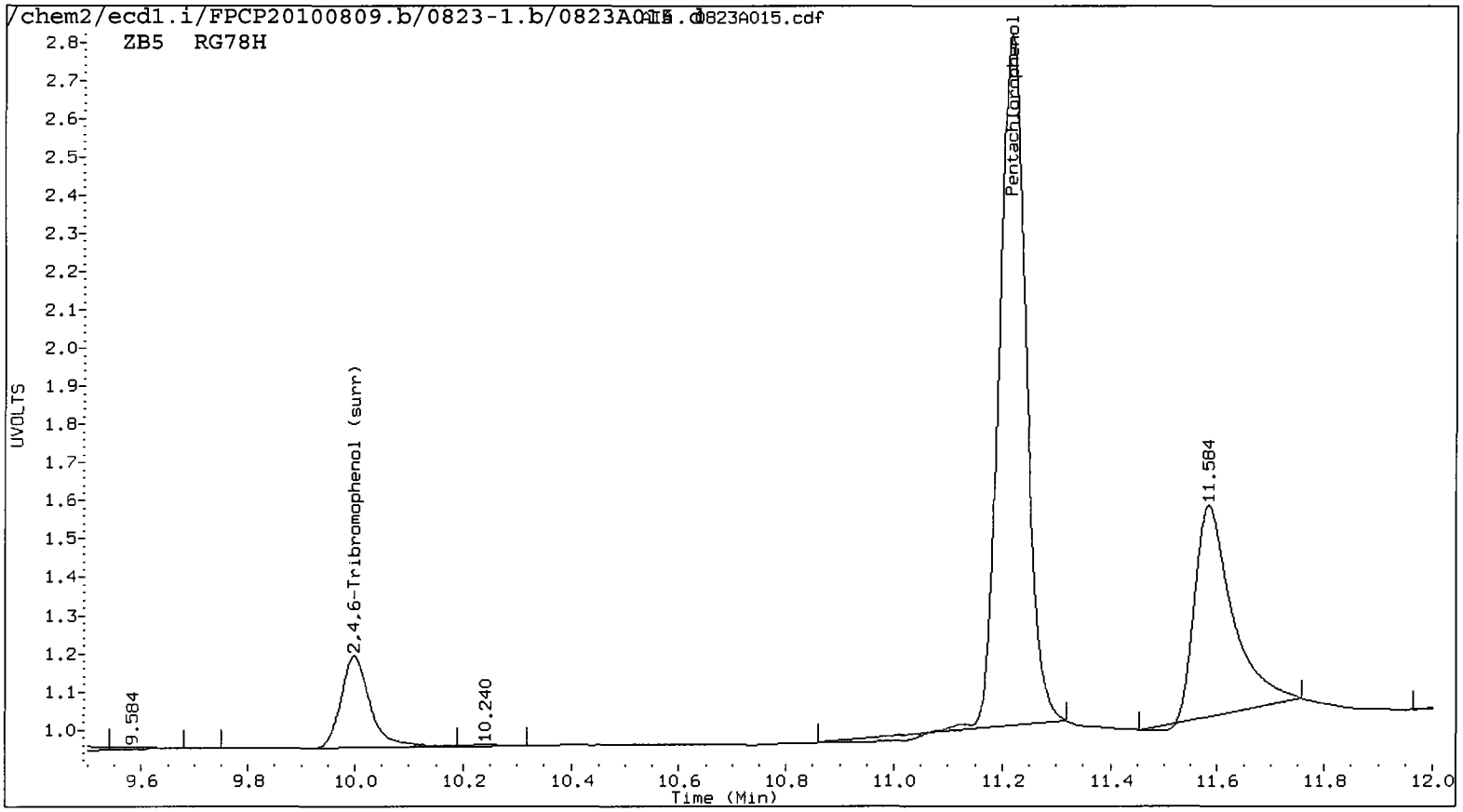
AR 8/26/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A015.d ARI ID: RG78H
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A015.d Client ID: PSB10-2-4-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 16:52
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 5.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.216	-0.003	309058	11.653	-0.005	472107	19.3914	20.5609	5.9	Pentachlorophenol
7.223	-0.041	17213	7.369	0.036	2313	1.8025	0.1853	162.7*	2,4,6-Trichlorophenol
----			7.833	-0.031	917	0.0000	0.0739	---	2,3,6-Trichlorophenol
8.261	0.019	3299	8.575	-0.040	732	0.6537	0.1020	146.0*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.031	0.024	32563	9.291	0.014	32577	2.3086	1.7595	27.0	2,3,5,6-Tetrachlorophenol
----			11.123	-0.003	769	0.0000	0.0527	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
9.998	-0.004	44183	10.637	-0.009	59979	3.2	3.2	0.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	64.8	64.3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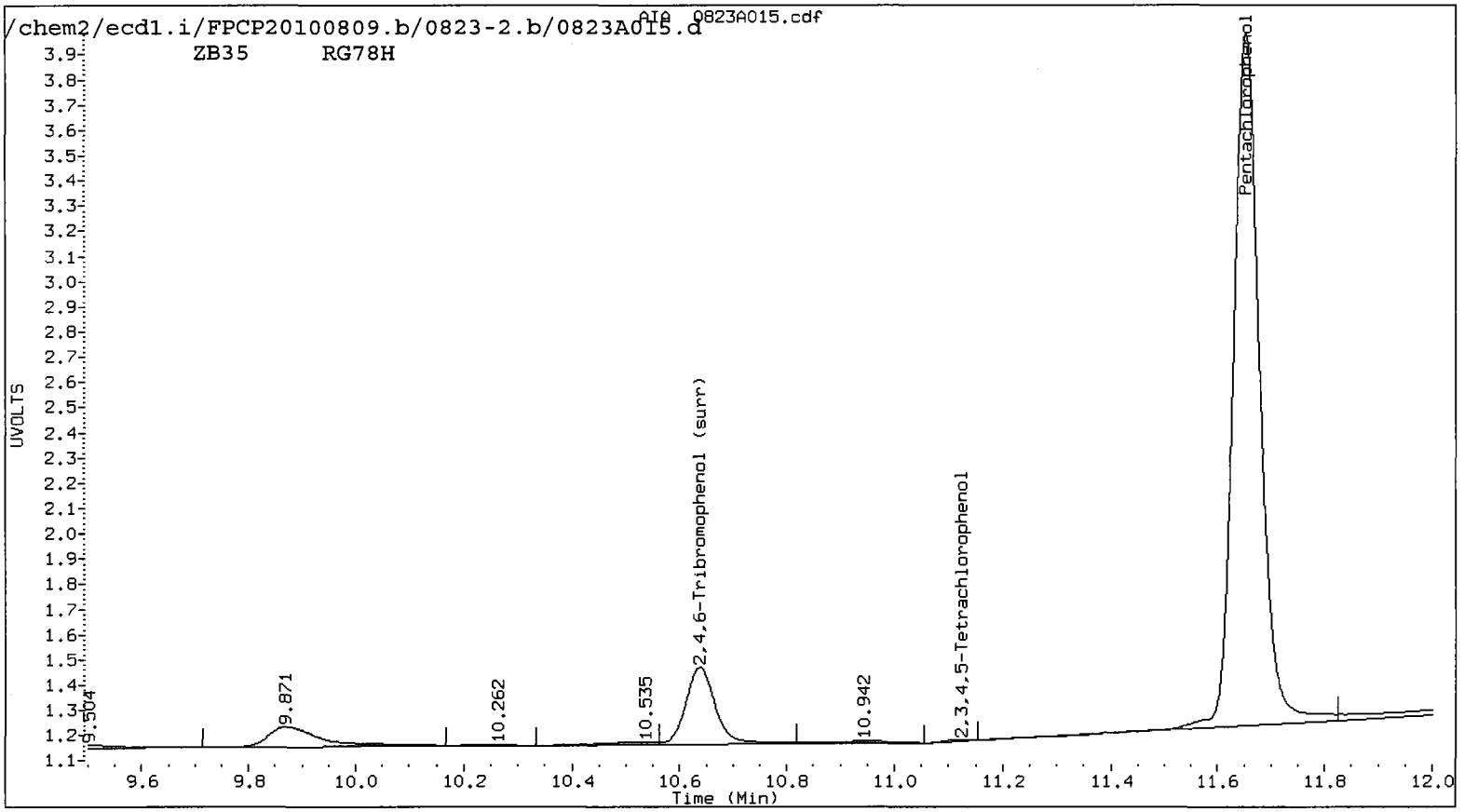
0823A015.cdf
ZB5 RG78H
UVOLTS
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
9.584
2,4,6-Tribromophenol (surr)
10.240
Pentachlorophenol
11.584
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)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0823A015.cdf
ZB35 RG78H
UVOLTS
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
9.504
9.871
10.262
10.535
2,4,6-Tribromophenol (surr)
10.942
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A015.d

Page 1

Date : 23-AUG-2010 16:52

Client ID: PSB10-2-4-073010

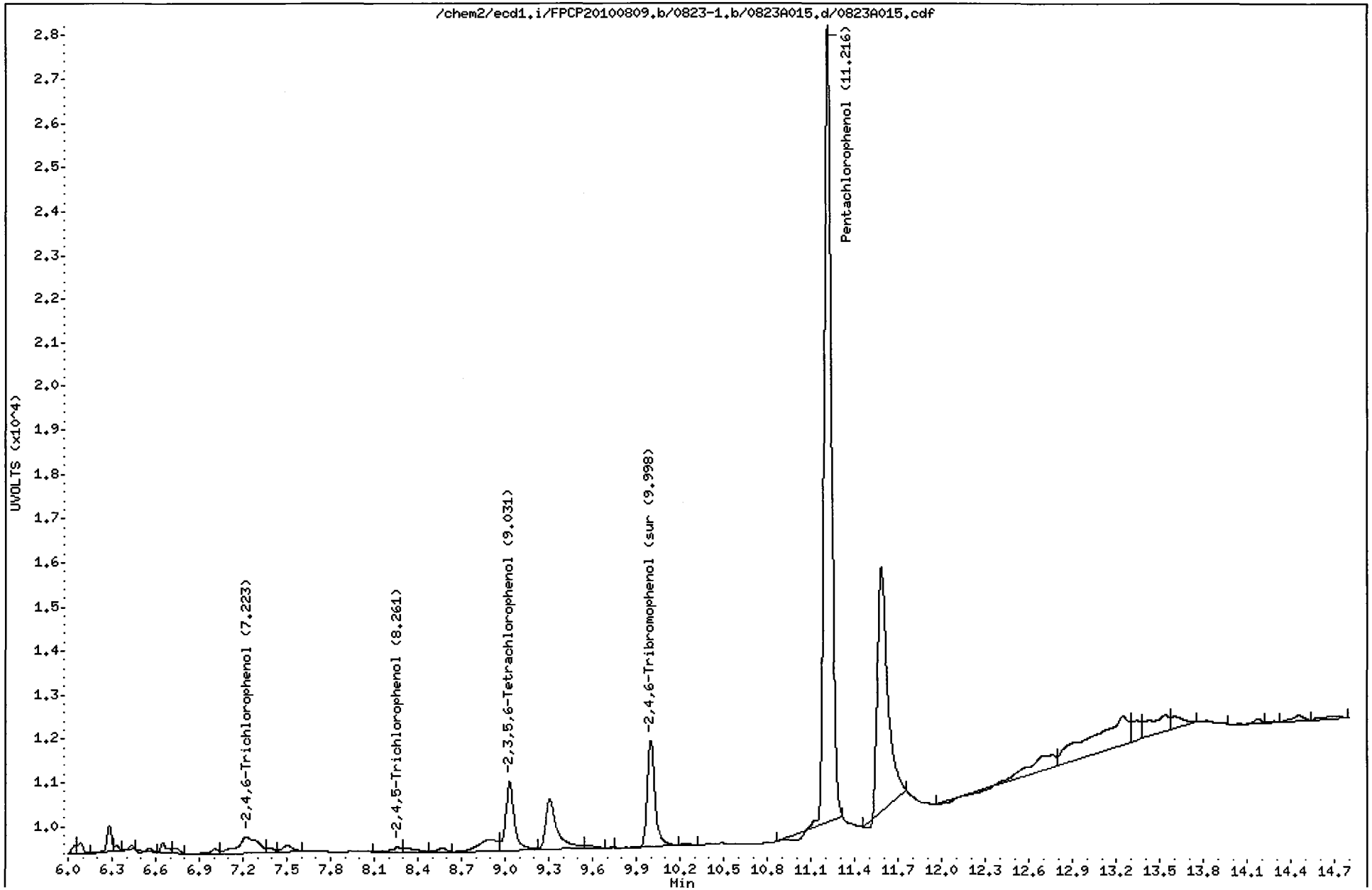
Instrument: ecd1.i

Sample Info: RG78H,,,5

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 61074

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

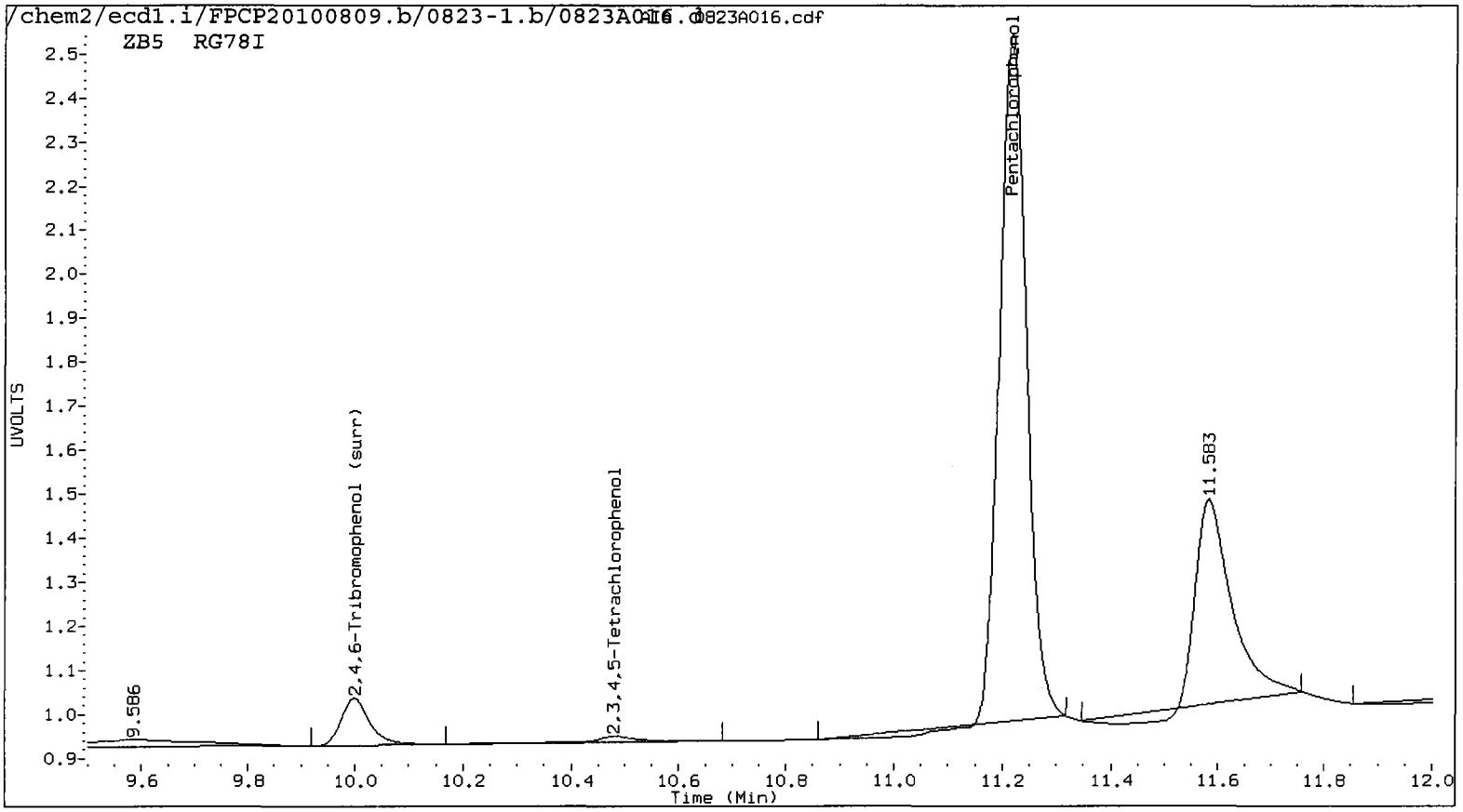
AR 8/25/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A016.d ARI ID: RG78I
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A016.d Client ID: PSB10-4-6-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 17:12
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 10.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.217	-0.002	262953	11.653	-0.005	389033	16.2107	16.9429	4.4	Pentachlorophenol
7.233	-0.031	15973	7.369	0.036	718	1.6713	0.0576	186.7*	2,4,6-Trichlorophenol
7.641	0.022	787	----			0.0801	0.0000	---	2,3,6-Trichlorophenol
8.261	0.019	546	8.568	-0.047	1221	0.1082	0.1701	44.5*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.032	0.025	26870	9.291	0.014	19689	1.9049	1.0635	56.7*	2,3,5,6-Tetrachlorophenol
10.479	0.066	5068	----			0.4039	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
9.999	-0.003	19761	10.638	-0.008	28834	1.4	1.5	7.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	57.4	61.8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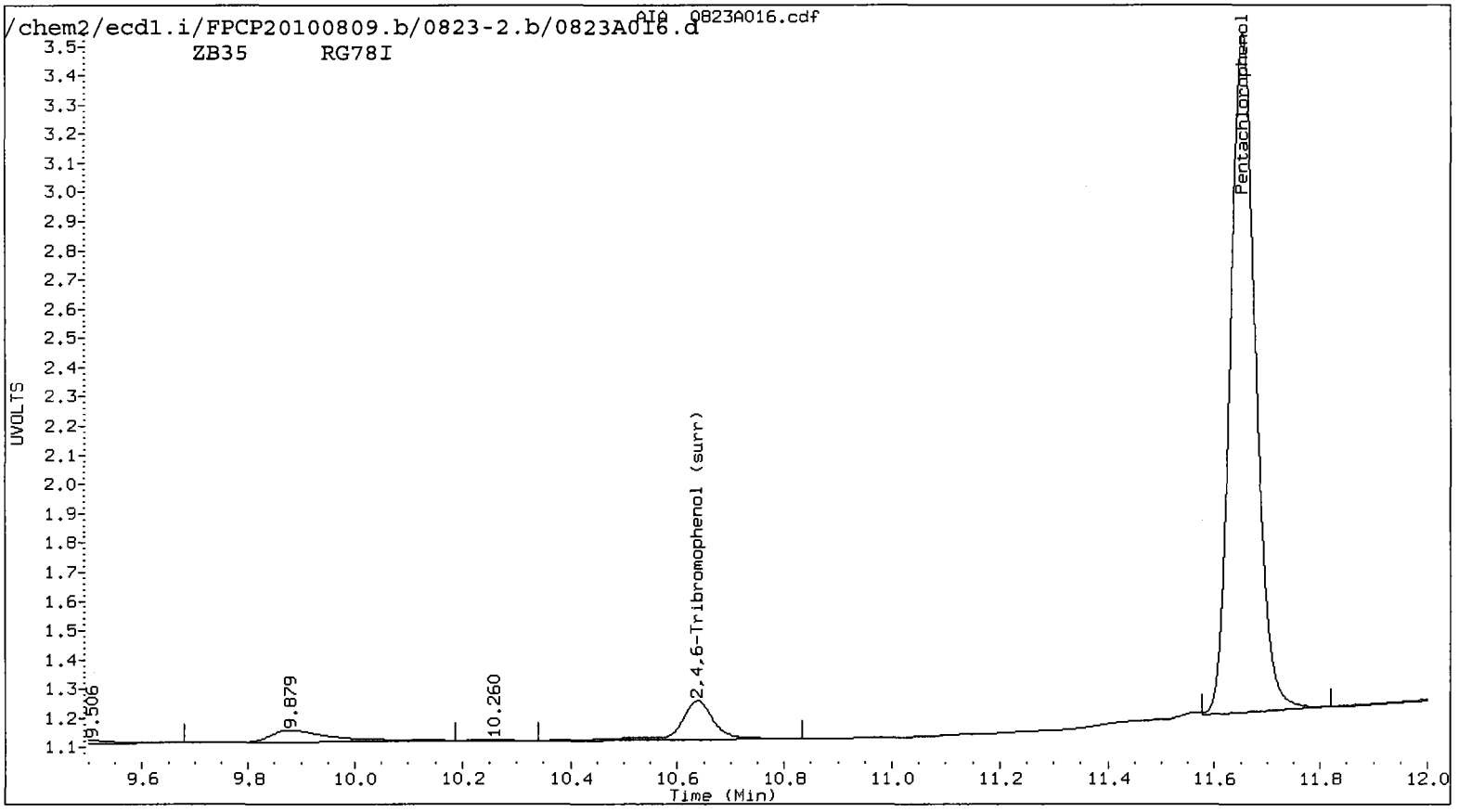
AIa 0823A016.cdf
ZB5 RG78I
UVOLTS
Time (Min)
9.586
2.4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.583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AIa 0823A016.cdf
ZB35 RG78I
UVOLTS
Time (Min)
9.506
9.879
10.260
2,4,6-Tribromophenol (surr)
Pentachlorophenol

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A016.d

Page 1

Date : 23-AUG-2010 17:12

Client ID: PSB10-4-6-073010

Instrument: ecd1.i

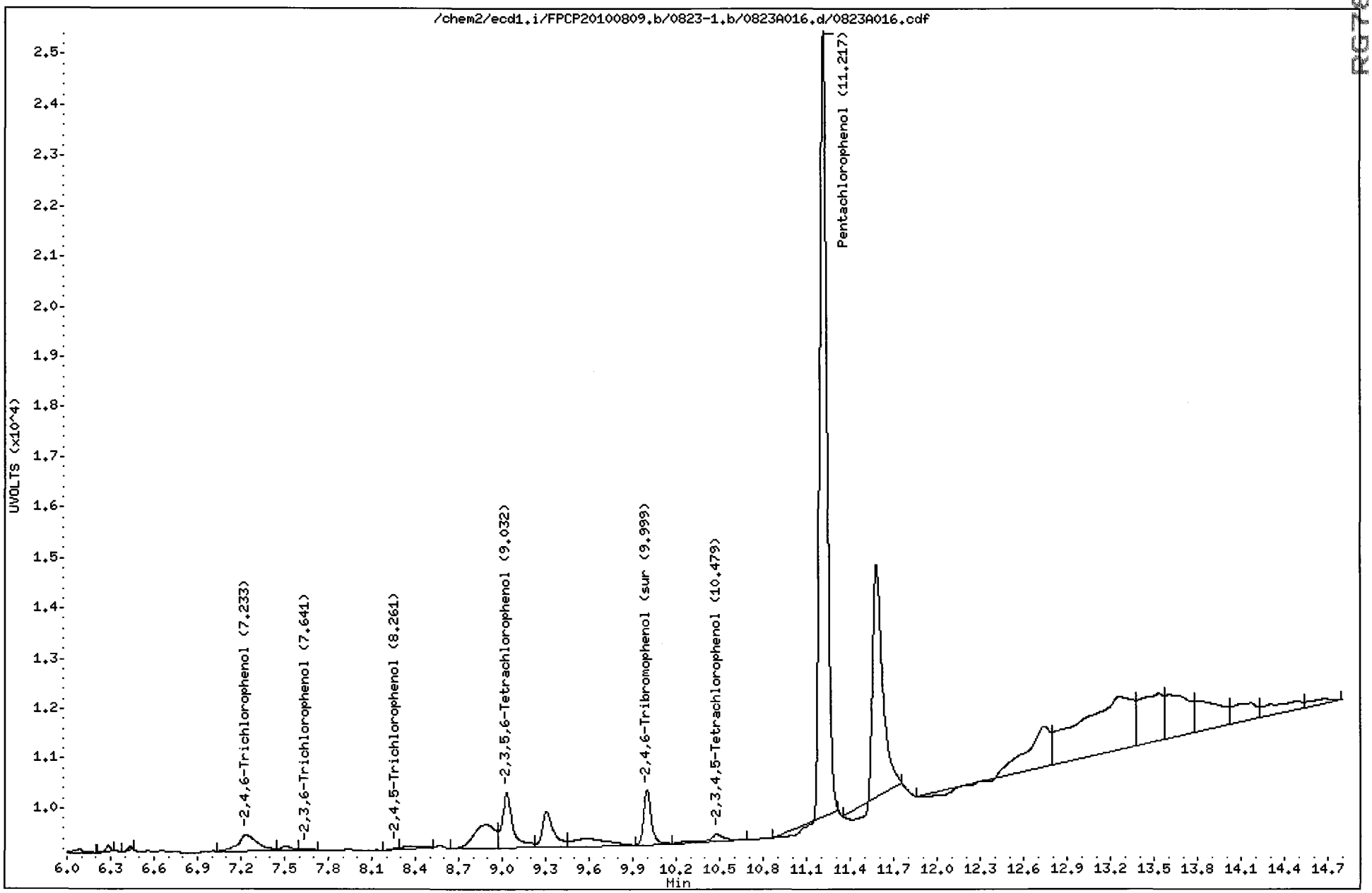
Sample Info: RG78I,,,10

Operator: ar

Column phase: ZB5

Column diameter: 0.53

RG78 - 5197



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

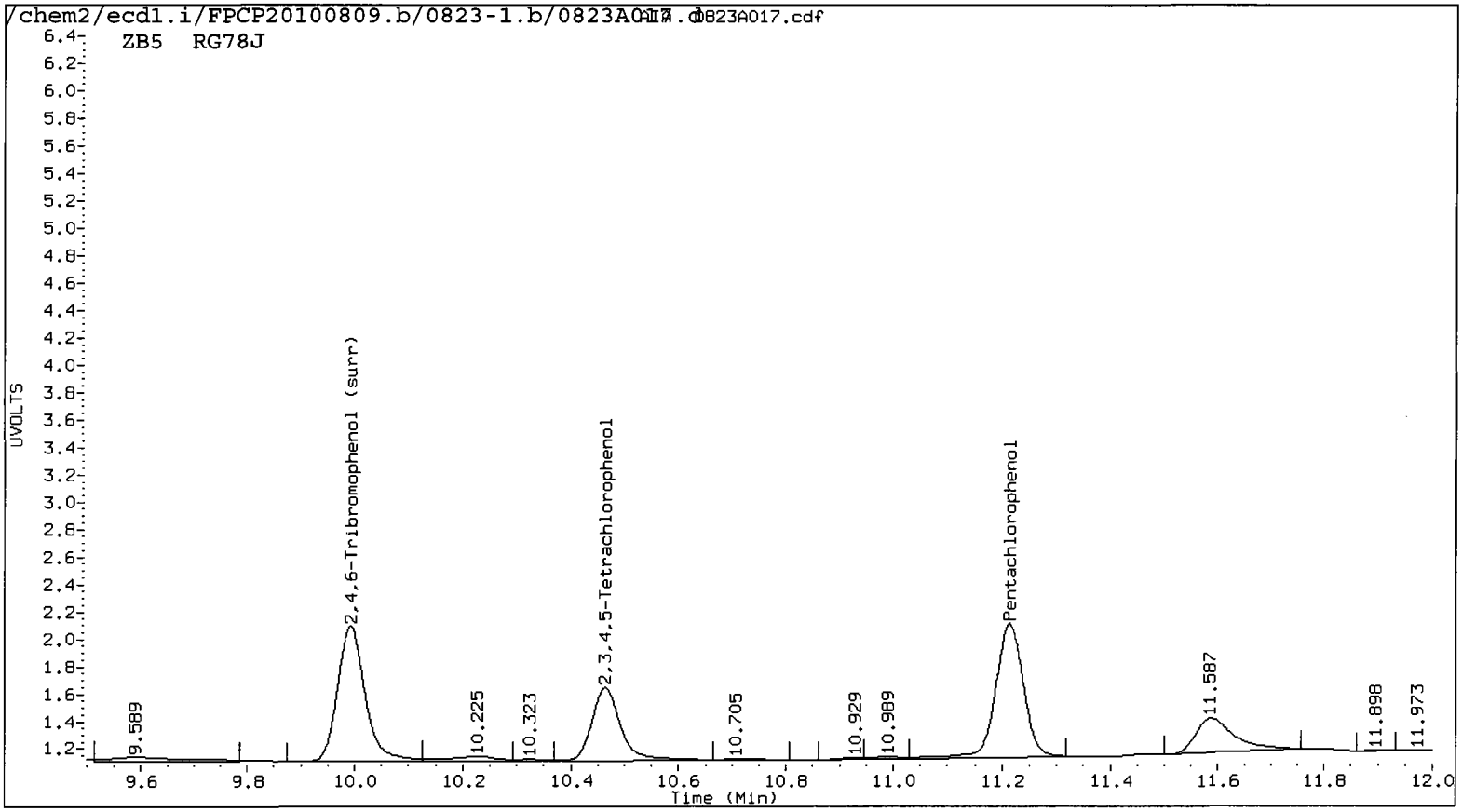
AR 8/25-1/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A017.d ARI ID: RG78J
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A017.d Client ID: PSB10-8.5-10-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 17:32
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.213	-0.006	170810	11.651	-0.007	241527	10.1564	10.5188	3.5	Pentachlorophenol
7.289	0.025	16716	7.370	0.037	18194	1.7499	1.4574	18.2	2,4,6-Trichlorophenol
7.619	0.000	6275	7.809	-0.055	7477	0.6404	0.6026	6.1	2,3,6-Trichlorophenol
8.205	-0.037	5091	8.675	0.060	4730	1.0087	0.6609	41.7*	2,4,5-Trichlorophenol
----			9.395	0.015	1511	0.0000	0.1562	---	2,3,4-Trichlorophenol
9.024	0.017	21856	9.285	0.008	15486	1.5495	0.8364	59.8*	2,3,5,6-Tetrachlorophenol
10.464	0.051	100369	11.118	-0.008	2179	8.6545	0.1494	193.2*	2,3,4,5-Tetrachlorophenol
6.917	0.024	1974	7.110	-0.056	20262	3.0768	27.6386	159.9*	2,4-Dichlorophenol
9.992	-0.010	175028	10.633	-0.013	244329	13.5	13.1	3.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	54.0	52.4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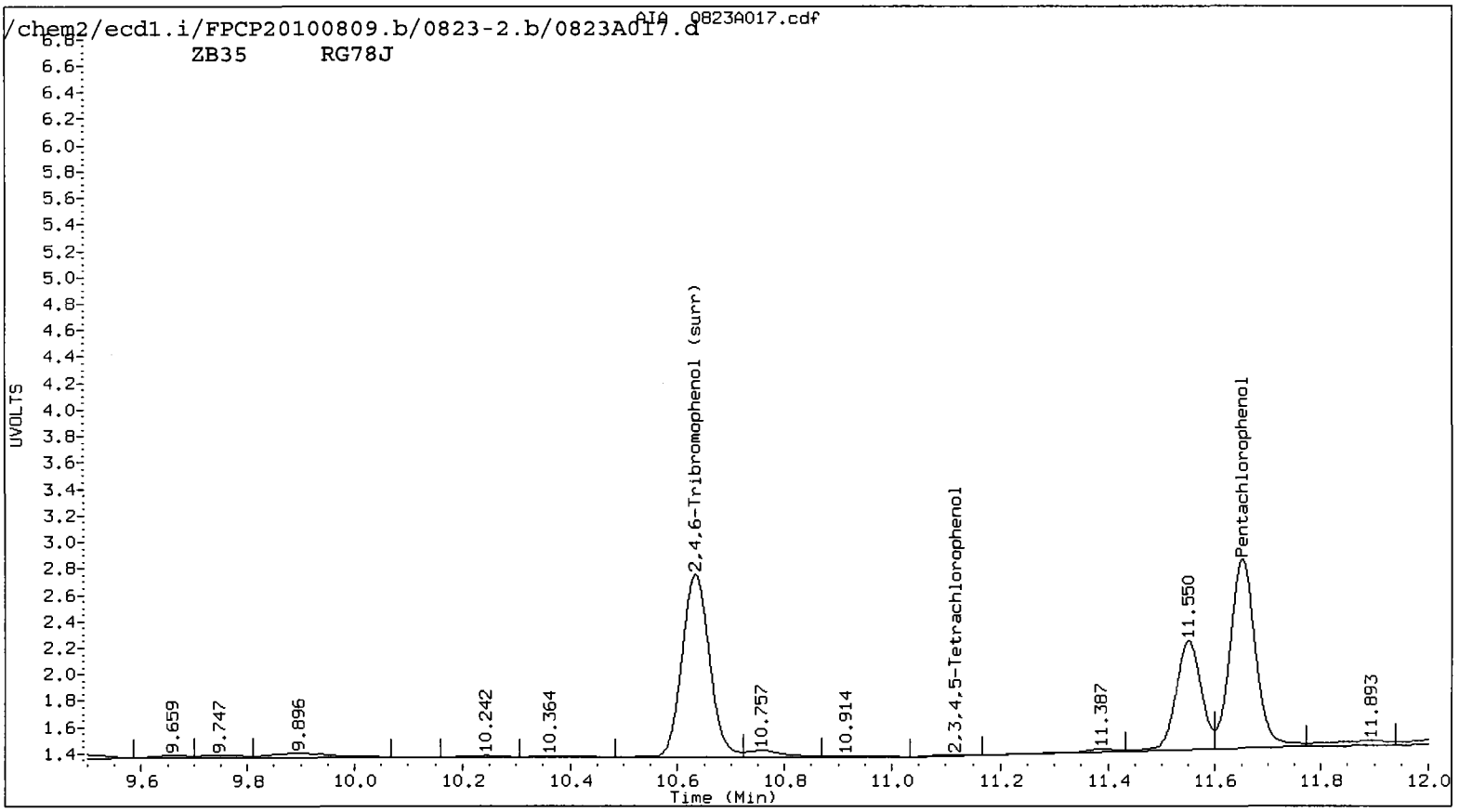
AIA 0823A017.cdf
ZB5 RG78J
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.589
10.225
10.323
10.705
10.929
10.989
11.587
11.898
11.973
Time (Min)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AIA 0823A017.cdf
ZB35 RG78J
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.659
9.747
9.896
10.242
10.364
10.757
10.914
11.387
11.550
11.893
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A017.d

Page 1

Date : 23-AUG-2010 17:32

Client ID: PSB10-8.5-10-073010

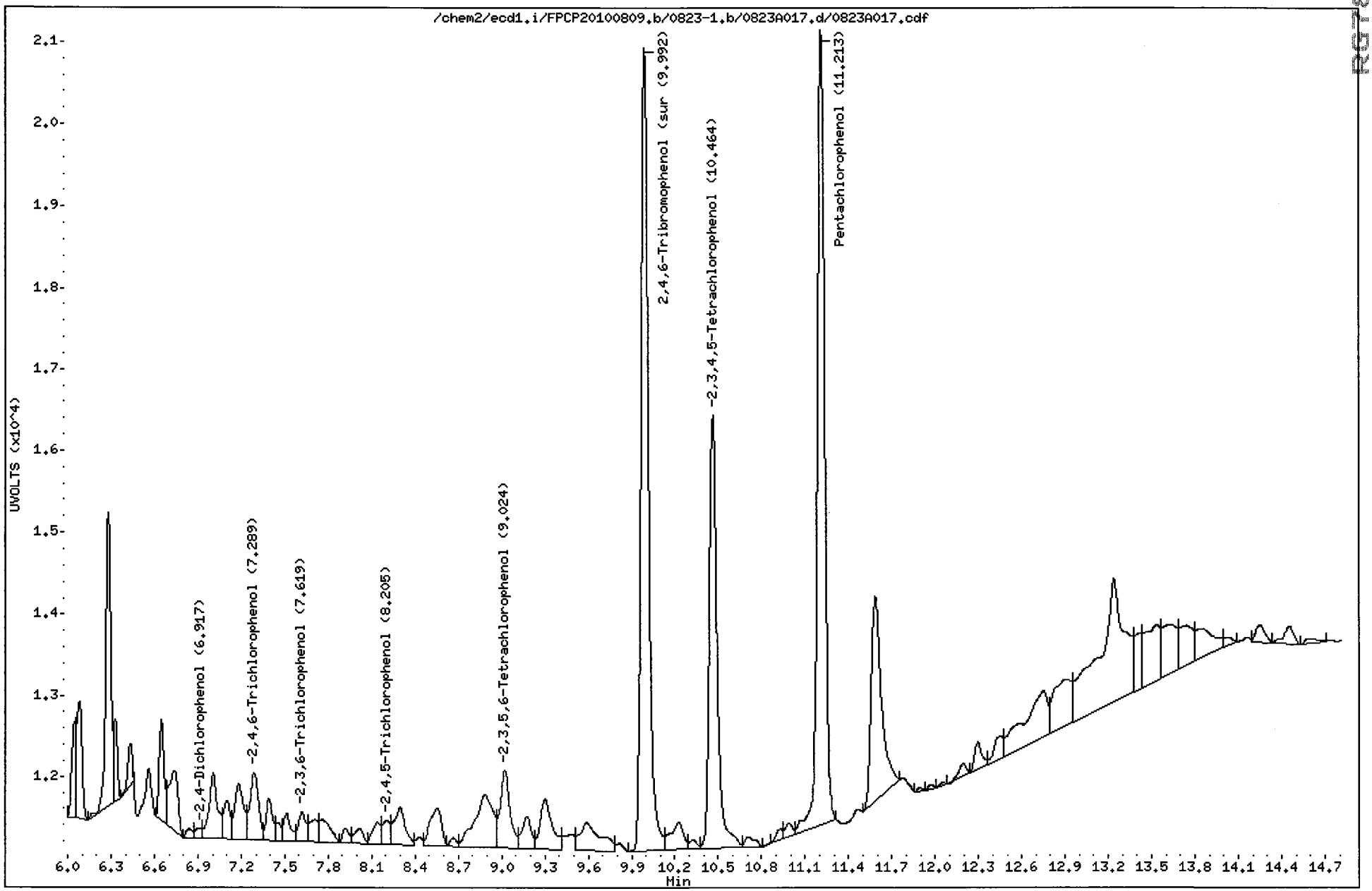
Instrument: ecd1.i

Sample Info: RG78J

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG78 : 91977

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

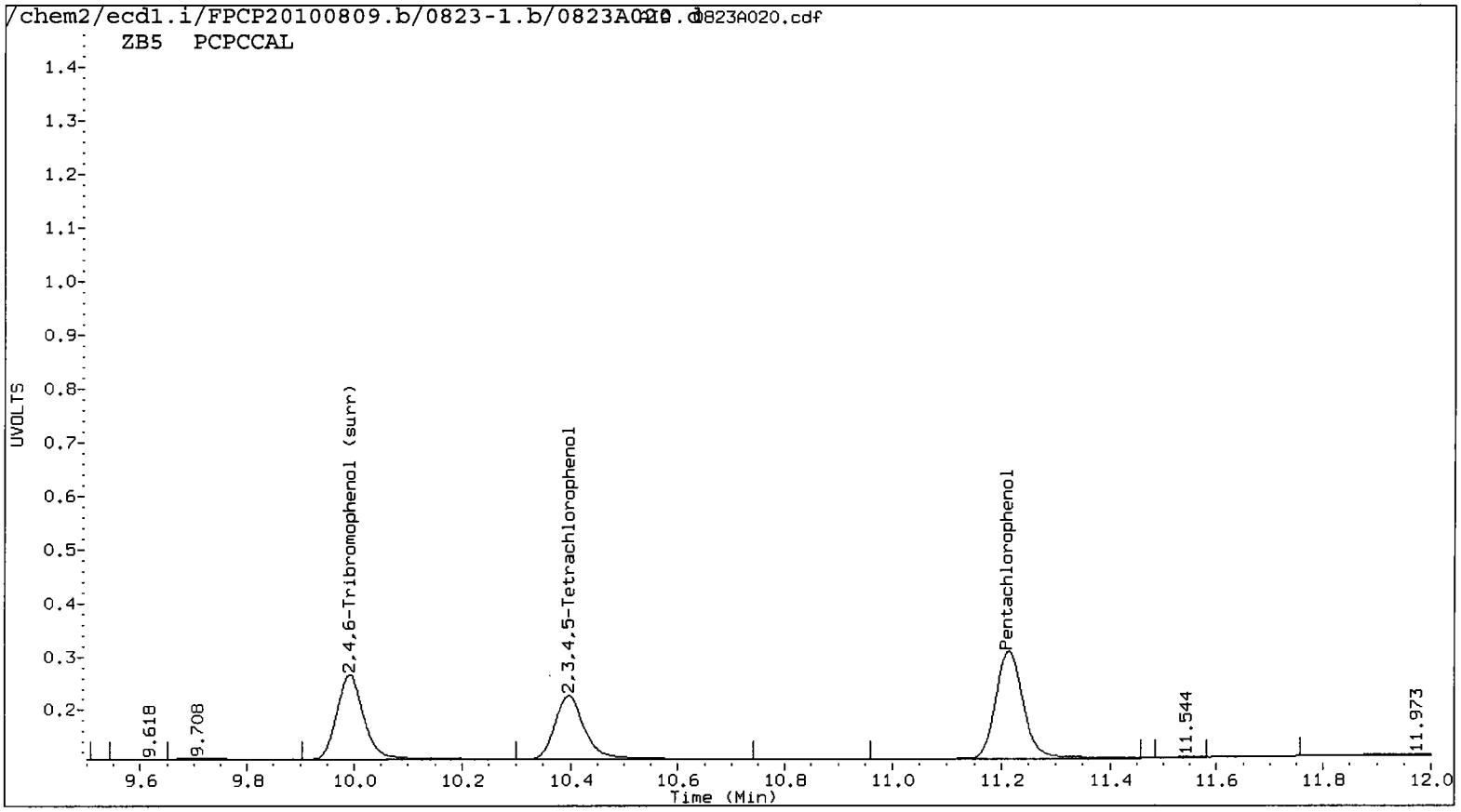
AR 8/24/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0823-1.b/0823A020.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0823-2.b/0823A020.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 23-AUG-2010 18:32
Compound Sublist: all Report Date: 08/24/2010 14:06
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.213	-0.006	368674	11.651	-0.007	549017	23.6539	23.9104	1.1	Pentachlorophenol
7.265	0.001	204277	7.333	0.000	291242	24.0916	23.3281	3.2	2,4,6-Trichlorophenol
7.618	-0.001	200675	7.861	-0.003	276405	22.5576	22.2755	1.3	2,3,6-Trichlorophenol
8.220	-0.022	115910	8.593	-0.022	150555	22.9638	23.9807	4.3	2,4,5-Trichlorophenol
8.769	-0.023	144771	9.358	-0.022	193794	21.1621	22.6624	6.8	2,3,4-Trichlorophenol
8.998	-0.009	317914	9.264	-0.013	427557	22.5382	23.0927	2.4	2,3,5,6-Tetrachlorophenol
10.397	-0.016	230509	11.110	-0.016	319309	21.9297	21.8845	0.2	2,3,4,5-Tetrachlorophenol
6.890	-0.003	111143	7.159	-0.007	143379	222.4600	228.8994	2.9	2,4-Dichlorophenol
9.992	-0.010	281985	10.633	-0.013	418311	22.6	22.4	0.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	94.6	95.6
2,4,6-Trichlorophenol	96.4	93.3
2,3,6-Trichlorophenol	90.2	89.1
2,4,5-Trichlorophenol	91.9	95.9
2,3,4-Trichlorophenol	84.6	90.6
2,3,5,6-Tetrachlorophenol	90.2	92.4
2,3,4,5-Tetrachlorophenol	87.7	87.5
2,4-Dichlorophenol	89.0	91.6
2,4,6-TBP (surr)	90.5	89.6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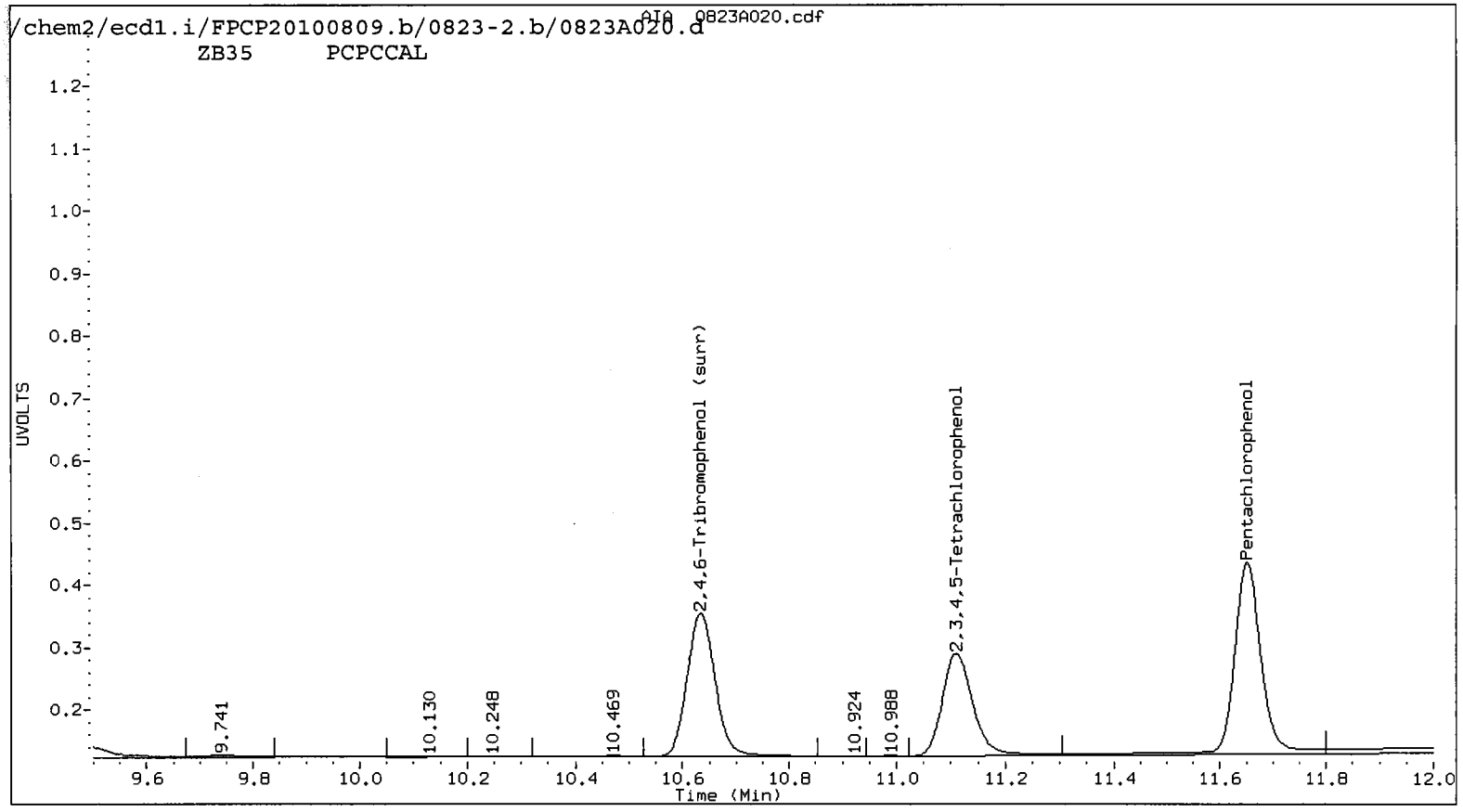
0823A020.cdf
ZB5 PCPCCAL
UVOLTS
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
9.618
9.708
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.544
11.973
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)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0823A020.cdf
ZB35 PCPCCAL
UVOLTS
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
9.741
10.130
10.248
10.469
2,4,6-Tribromophenol (surr)
10.924
10.988
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)

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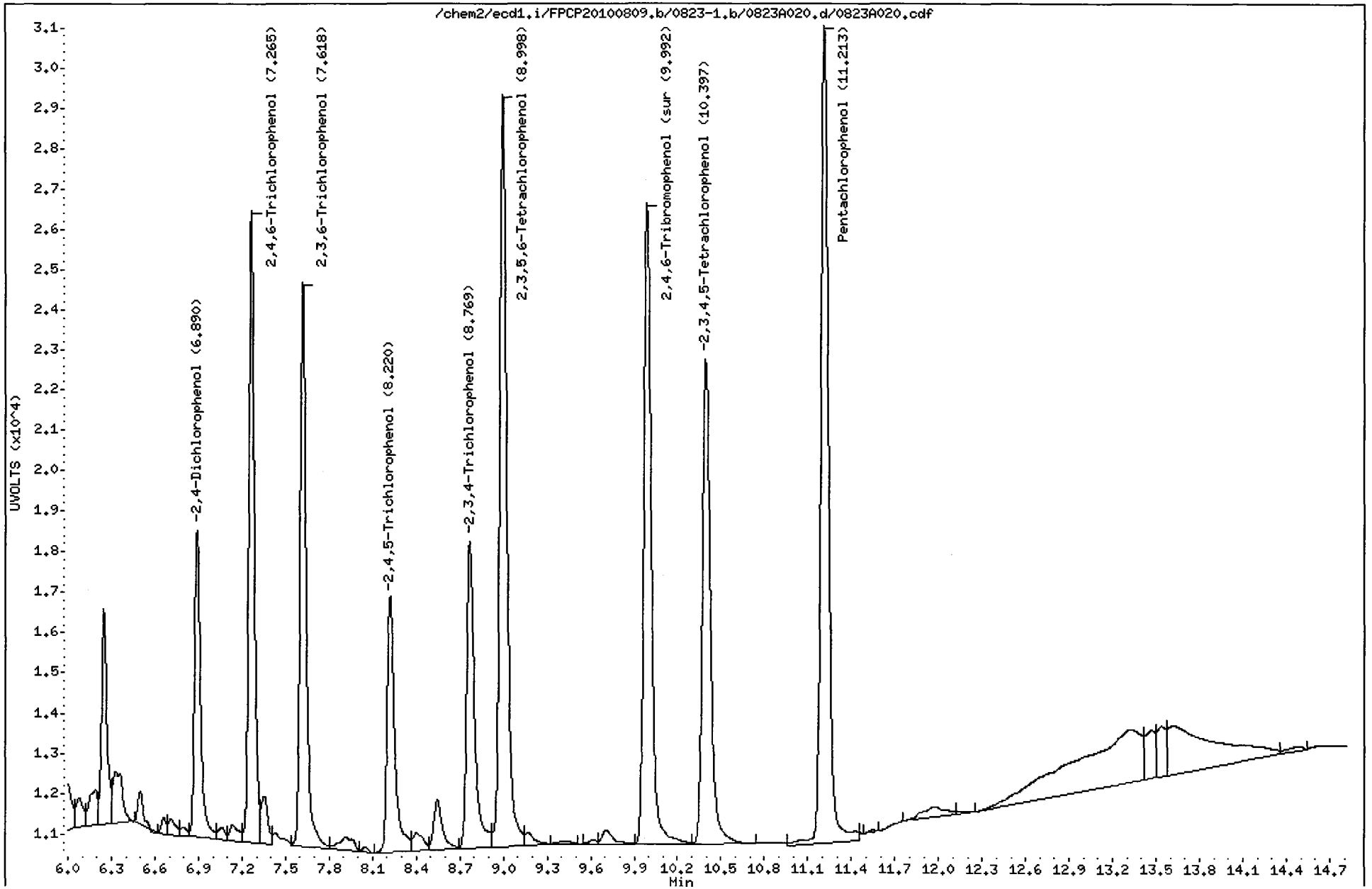
Date : 23-AUG-2010 18:32
Client ID:
Sample Info: PCPCCAL
Purge Volume: 2.0
Column phase: ZB5

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



Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 09/01/10 Analysis: PCP Analyst: YZ

GC Program: PCP Fast Column No: 150608/148146 Column Type: ZB5/35

Instrument Tune (.U or .CT.): .U EM Voltage:

Calibration File: FPCP20100809 Curve Date: 08/09/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-2/1739-1	1703-2 & 1738-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0901-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	01-SEP-2010 11:15	0901A004.d	1	PCP CCAL	
2	01-SEP-2010 11:35	0901A005.d	1	PCP CCAL	
3	01-SEP-2010 11:54	0901A006.d	1	RG78MBS2	RG78MBS2
4	01-SEP-2010 12:14	0901A007.d	1	RG78LCSS2	RG78LCSS2
5	01-SEP-2010 12:34	0901A008.d	1	RG78S	PSB9-8.5-9.5-073010
6	01-SEP-2010 12:54	0901A009.d	1	RG94A	MW14-15-16.5-080210
7	01-SEP-2010 13:14	0901A010.d	1	RG94E	MW13-18.5-19.5-0802
8	01-SEP-2010 13:34	0901A011.d	1	RG94F	MW13-18.5-19.5-0802
9	01-SEP-2010 13:54	0901A012.d	1	PCP CCAL	
10	01-SEP-2010 14:14	0901A013.d	1	RG78S	PSB9-8.5-9.5-073010
11	01-SEP-2010 14:34	0901A014.d	1	RG94E	MW13-18.5-19.5-0802
12	01-SEP-2010 14:54	0901A015.d	1	RG94F	MW13-18.5-19.5-0802
13	01-SEP-2010 15:14	0901A016.d	1	PCP CCAL	

YZ 9/1/10

Maintenance / Comments none

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG78 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-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 08/09/10 Analysis Start: 09/08/10

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):

Sample 5 was re-derivatized, and re-run on the same day.

Additional Details on Reverse: Yes / No

Analyst: YZ **Date:** 9/1/10

Reviewer: [signature] **Date:** 9/1/10

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

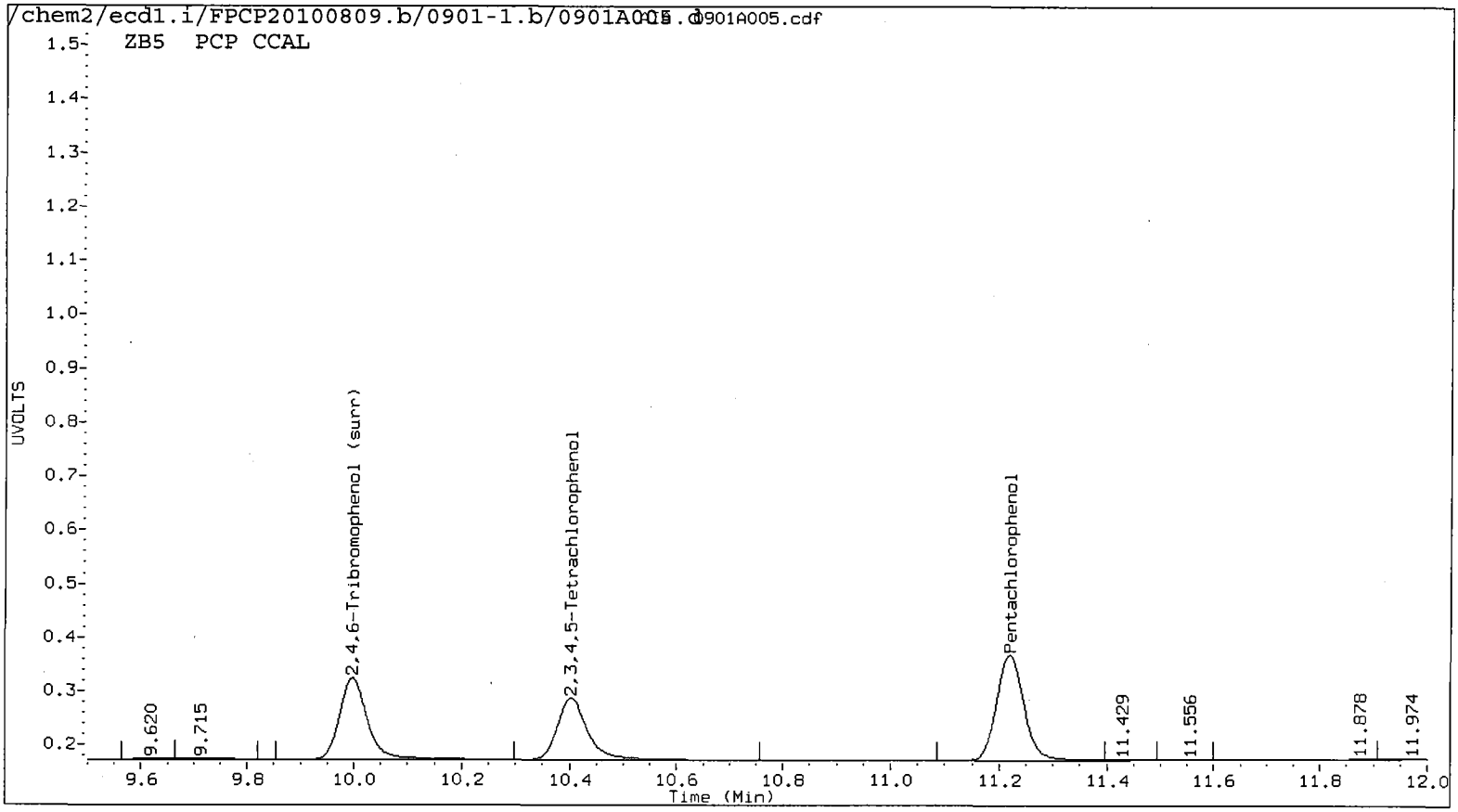
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A005.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A005.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 01-SEP-2010 11:35
Report Date: 09/01/2010 16:16
Matrix: NONE
Dilution Factor: 1.000

YZ 9/1/10

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.220	0.001	344826	11.656	-0.002	493554	21.9285	21.4949	2.0	Pentachlorophenol
7.268	0.004	193472	7.336	0.003	269397	22.6695	21.5784	4.9	2,4,6-Trichlorophenol
7.621	0.002	191836	7.864	0.000	260253	21.4735	20.9737	2.4	2,3,6-Trichlorophenol
8.224	-0.018	117874	8.598	-0.017	140174	23.3528	22.1318	5.4	2,4,5-Trichlorophenol
8.774	-0.018	135453	9.364	-0.016	192737	19.7999	22.5243	12.9	2,3,4-Trichlorophenol
9.002	-0.005	301871	9.268	-0.009	410606	21.4008	22.1771	3.6	2,3,5,6-Tetrachlorophenol
10.403	-0.010	226865	11.115	-0.011	305040	21.5264	20.9065	2.9	2,3,4,5-Tetrachlorophenol
6.893	0.000	96784	7.163	-0.003	129069	188.0731	202.5675	7.4	2,4-Dichlorophenol
9.998	-0.004	273962	10.639	-0.007	404181	21.9	21.7	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	87.7	86.0
2,4,6-Trichlorophenol	90.7	86.3
2,3,6-Trichlorophenol	85.9	83.9
2,4,5-Trichlorophenol	93.4	88.5
2,3,4-Trichlorophenol	79.2	90.1
2,3,5,6-Tetrachlorophenol	85.6	88.7
2,3,4,5-Tetrachlorophenol	86.1	83.6
2,4-Dichlorophenol	75.2	81.0
2,4,6-TBP (surr)	87.6	86.6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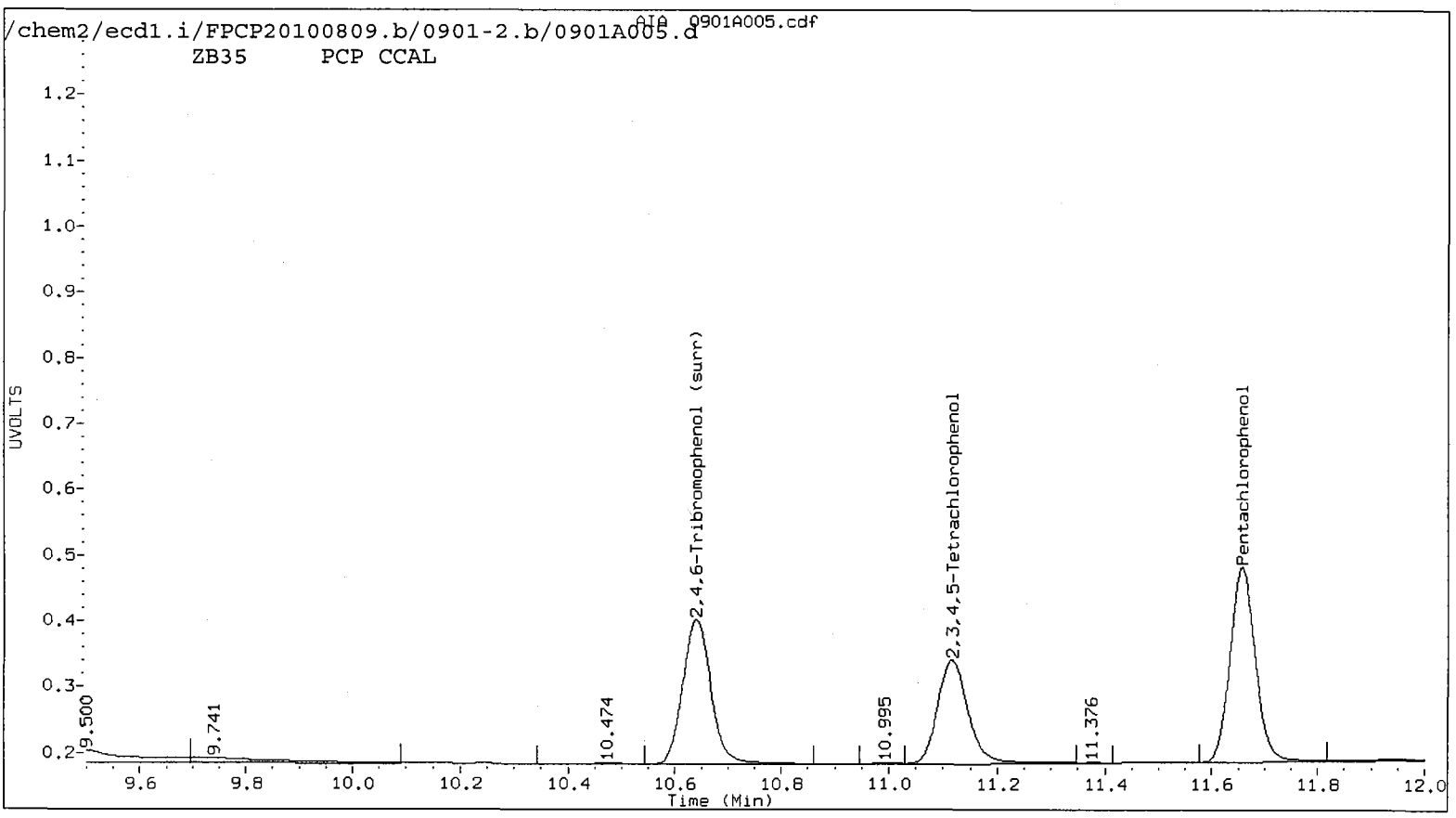
0901A005.cdf
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.620
9.715
11.429
11.556
11.878
11.974
Time (Min)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0901A005.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.500
9.741
10.474
10.995
11.376
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A005.d

Date : 01-SEP-2010 11:35

Client ID:

Sample Info: PCP CCAL

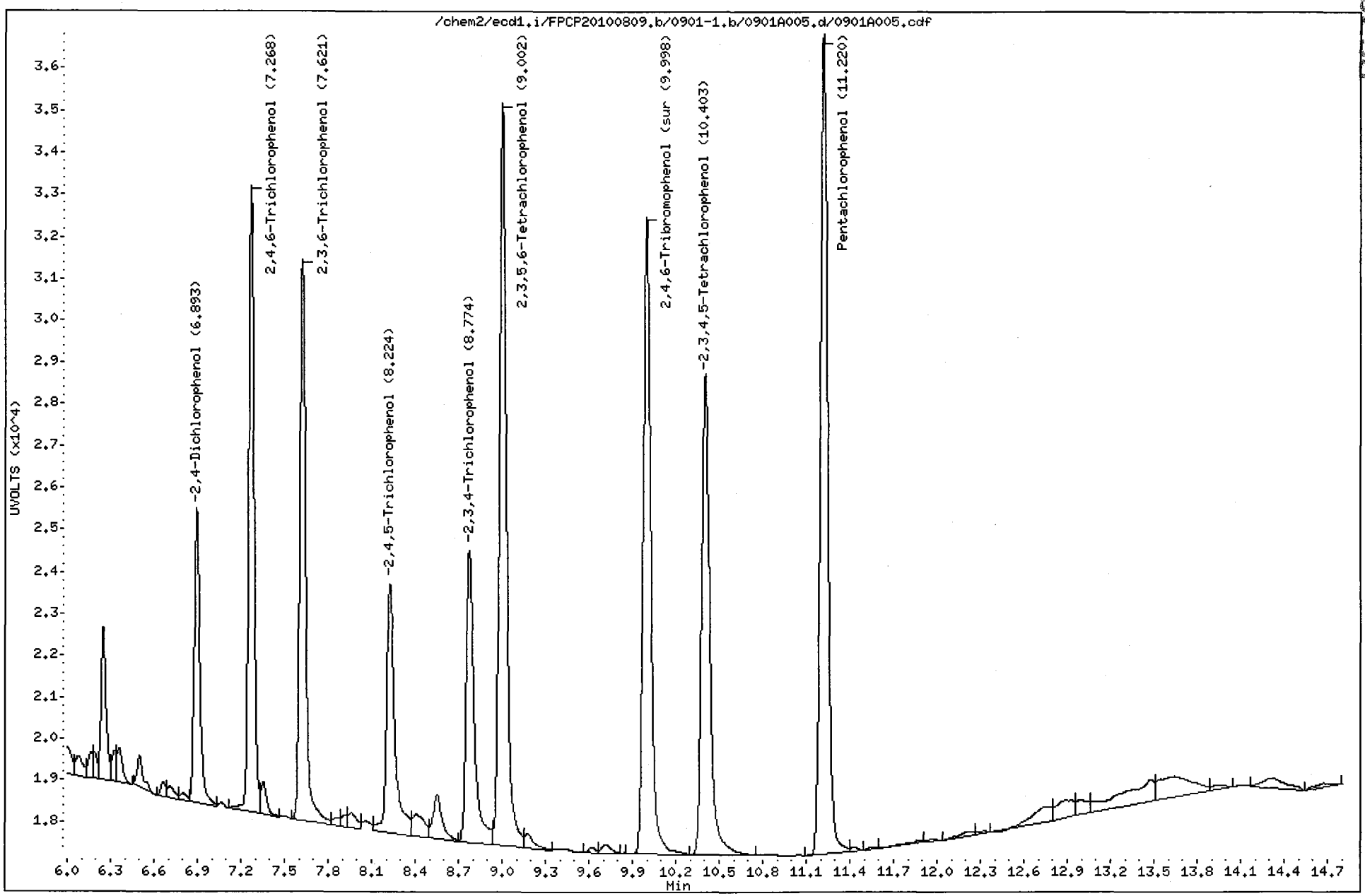
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78 : 91085



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Date : 01-SEP-2010 11:35

Client ID:

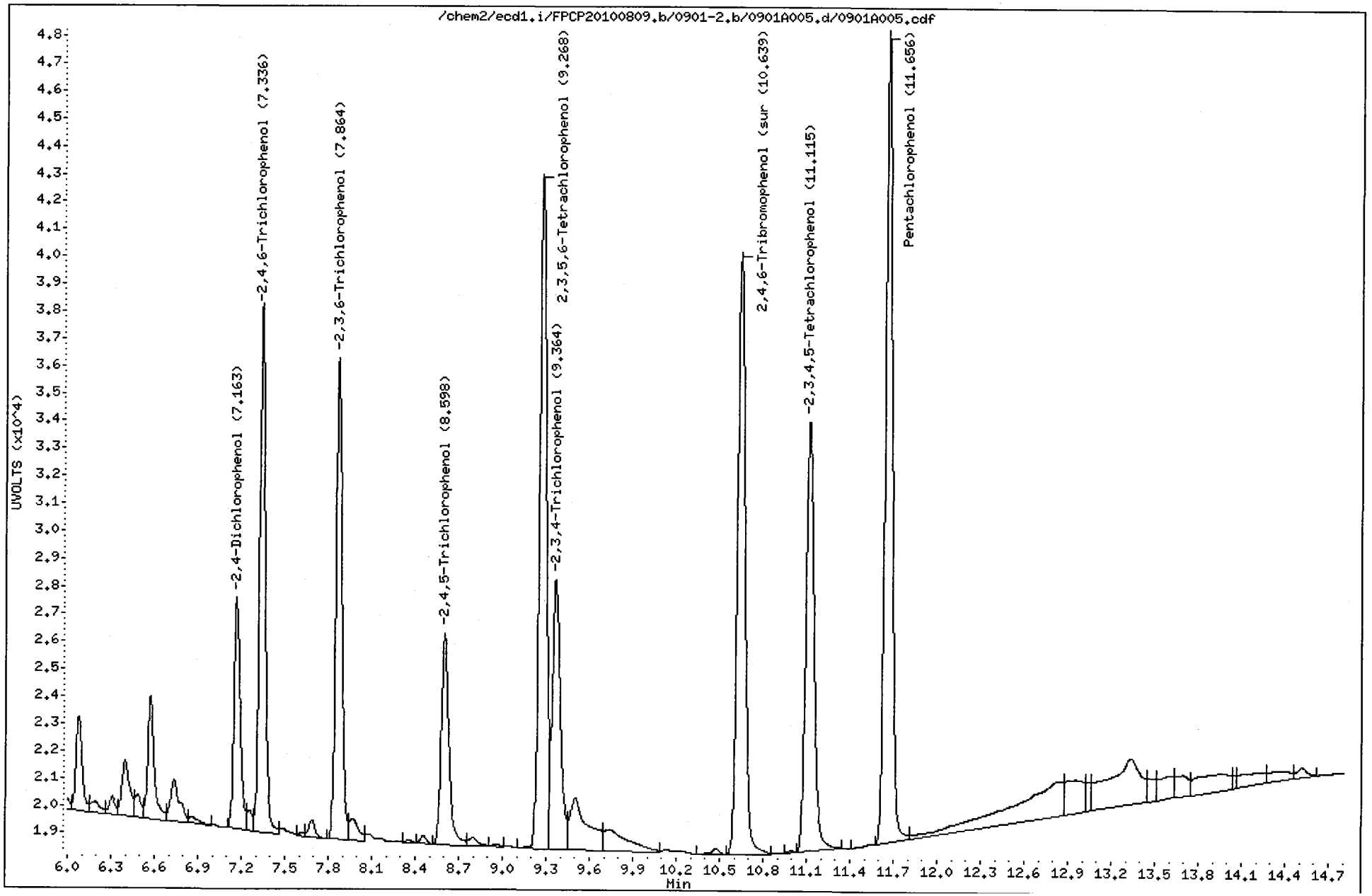
Sample Info: PCP CCAL

Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

YZ 9/1/10

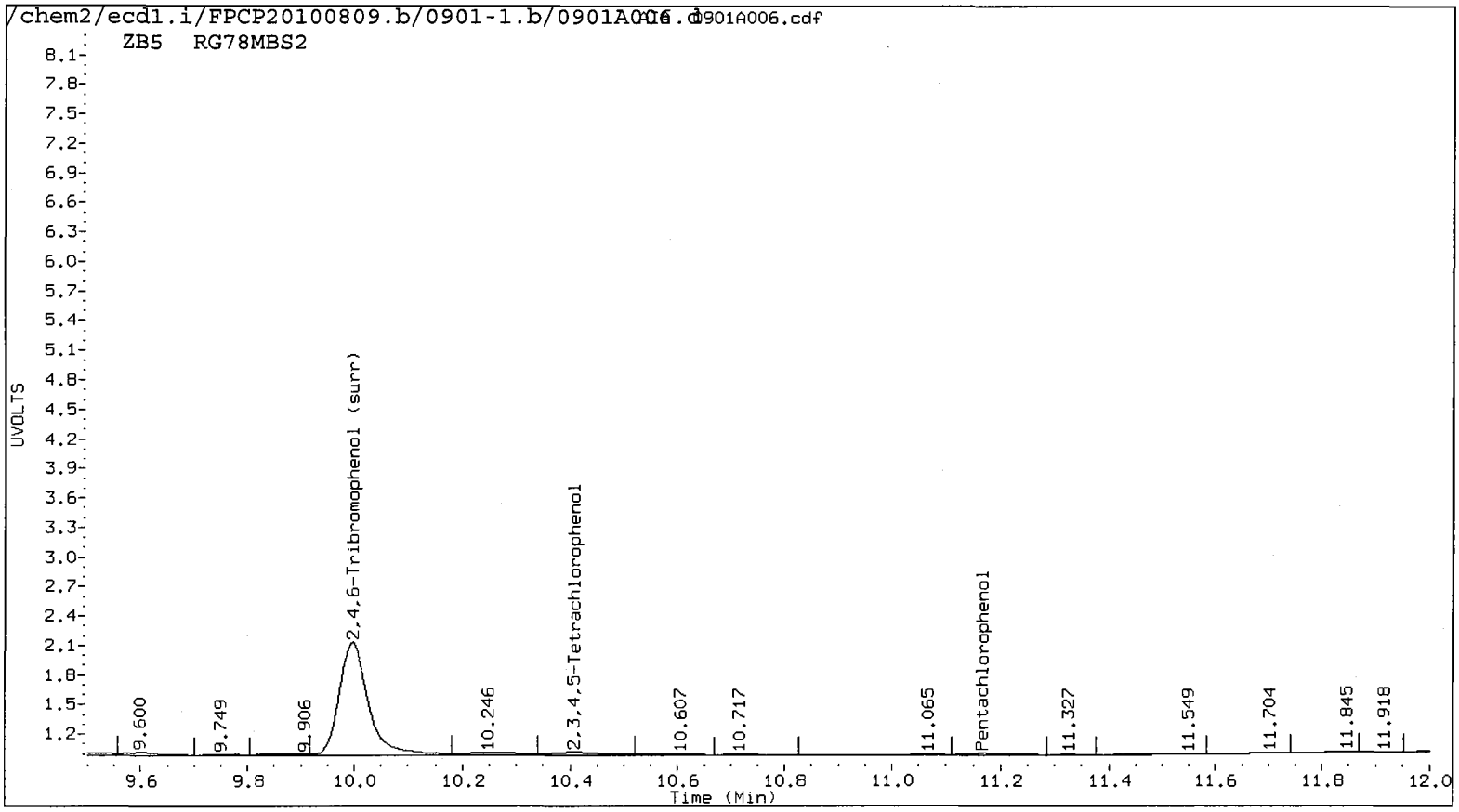
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A006.d ARI ID: RG78MBS2
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A006.d Client ID: RG78MBS2
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 11:54
Compound Sublist: all Report Date: 09/01/2010 12:43
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.167	-0.052	5133	----			0.2850	0.0000	---	Pentachlorophenol
7.231	-0.033	233856	7.373	0.040	50413	28.0689	4.0380	149.7*	2,4,6-Trichlorophenol
----			7.848	-0.016	21813	0.0000	1.7579	---	2,3,6-Trichlorophenol
8.219	-0.023	8812	8.663	0.048	11346	1.7458	1.5952	9.0	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.021	0.014	25721	9.267	-0.010	39586	1.8235	2.1381	15.9	2,3,5,6-Tetrachlorophenol
10.406	-0.007	12382	----			0.9931	0.0000	---	2,3,4,5-Tetrachlorophenol
6.906	0.013	29032	7.170	0.004	27426	~~48.4243~~	~~37.7815~~	24.7	2,4-Dichlorophenol
9.996	-0.006	221457	10.637	-0.009	314349	17.4	16.8	3.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	69.5	67.4

RG78:01087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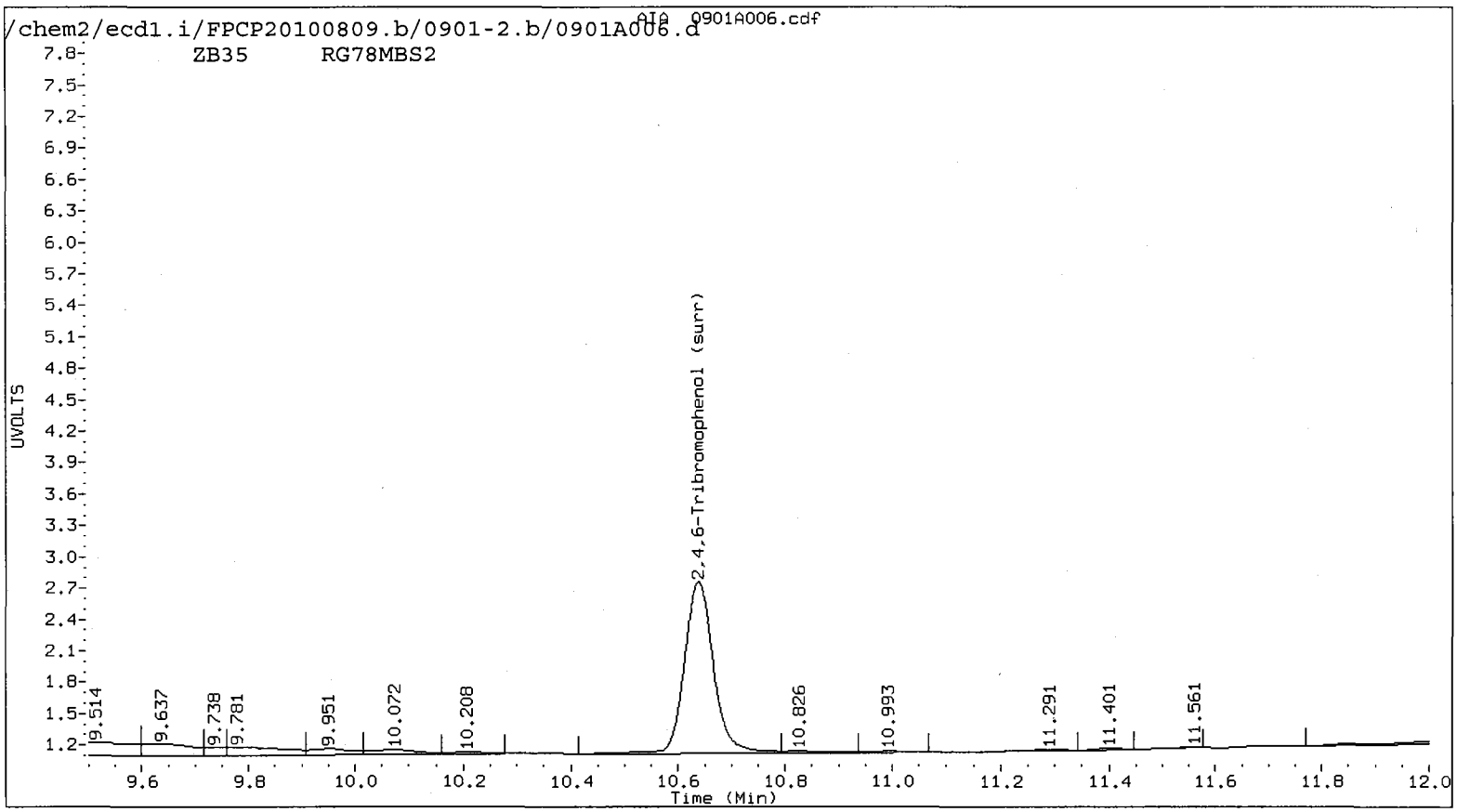
0901A006.cdf
ZB5 RG78MBS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.600
9.749
9.906
10.246
10.607
10.717
11.065
11.327
11.549
11.704
11.845
11.918
Time (Min)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0901A006.cdf
ZB35 RG78MBS2
UVOLTS
2,4,6-Tribromophenol (surr)
9.514
9.637
9.738
9.781
9.951
10.072
10.208
10.826
10.993
11.291
11.401
11.561
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A006.d

Page 1

Date : 01-SEP-2010 11:54

Client ID: RG78MBS2

Instrument: ecd1.i

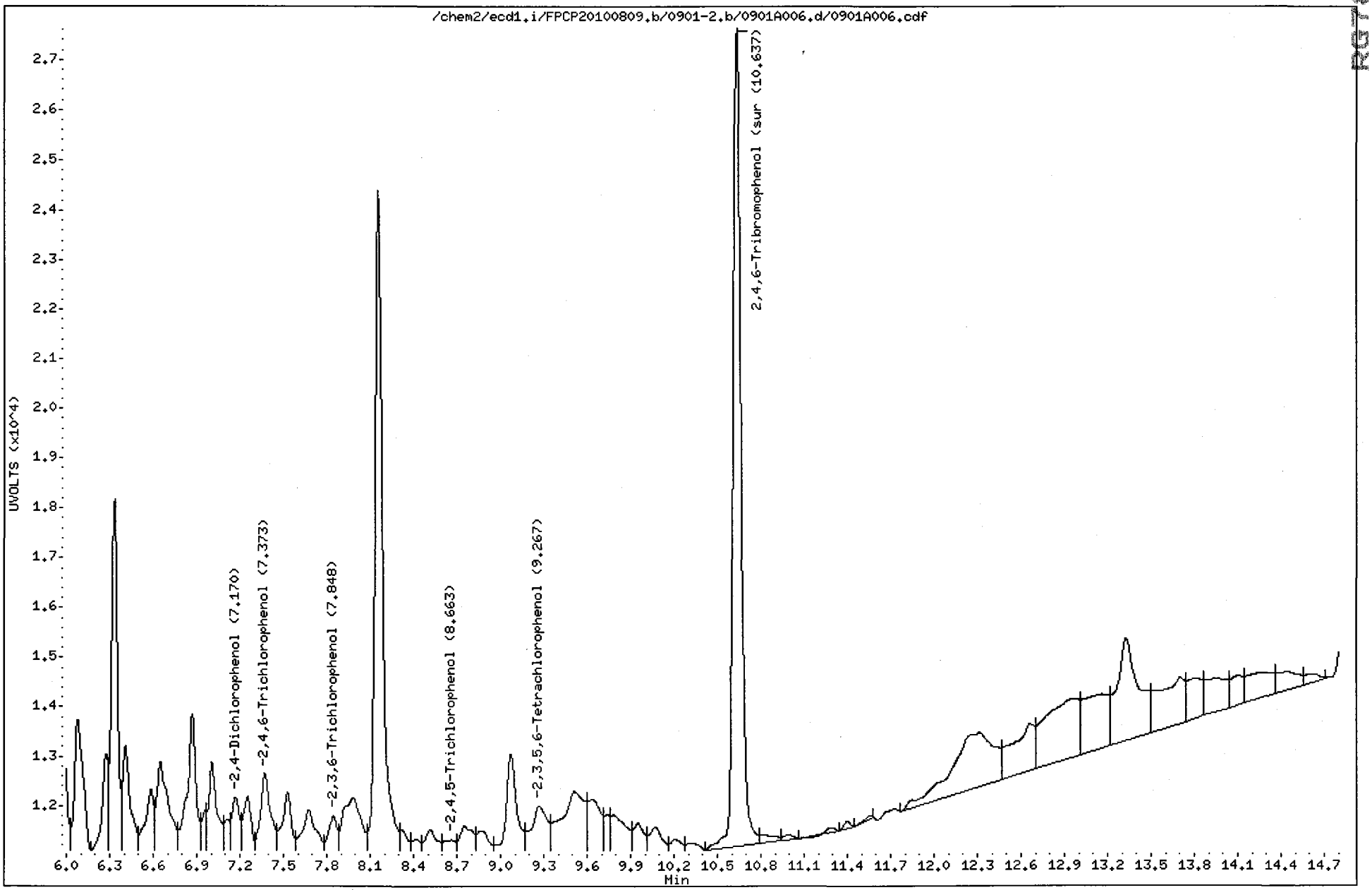
Sample Info: RG78MBS2

Operator: ar

Column phase: ZB35

Column diameter: 0.53

RG78-01689



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Date : 01-SEP-2010 11:54

Client ID: RG78MBS2

Sample Info: RG78MBS2

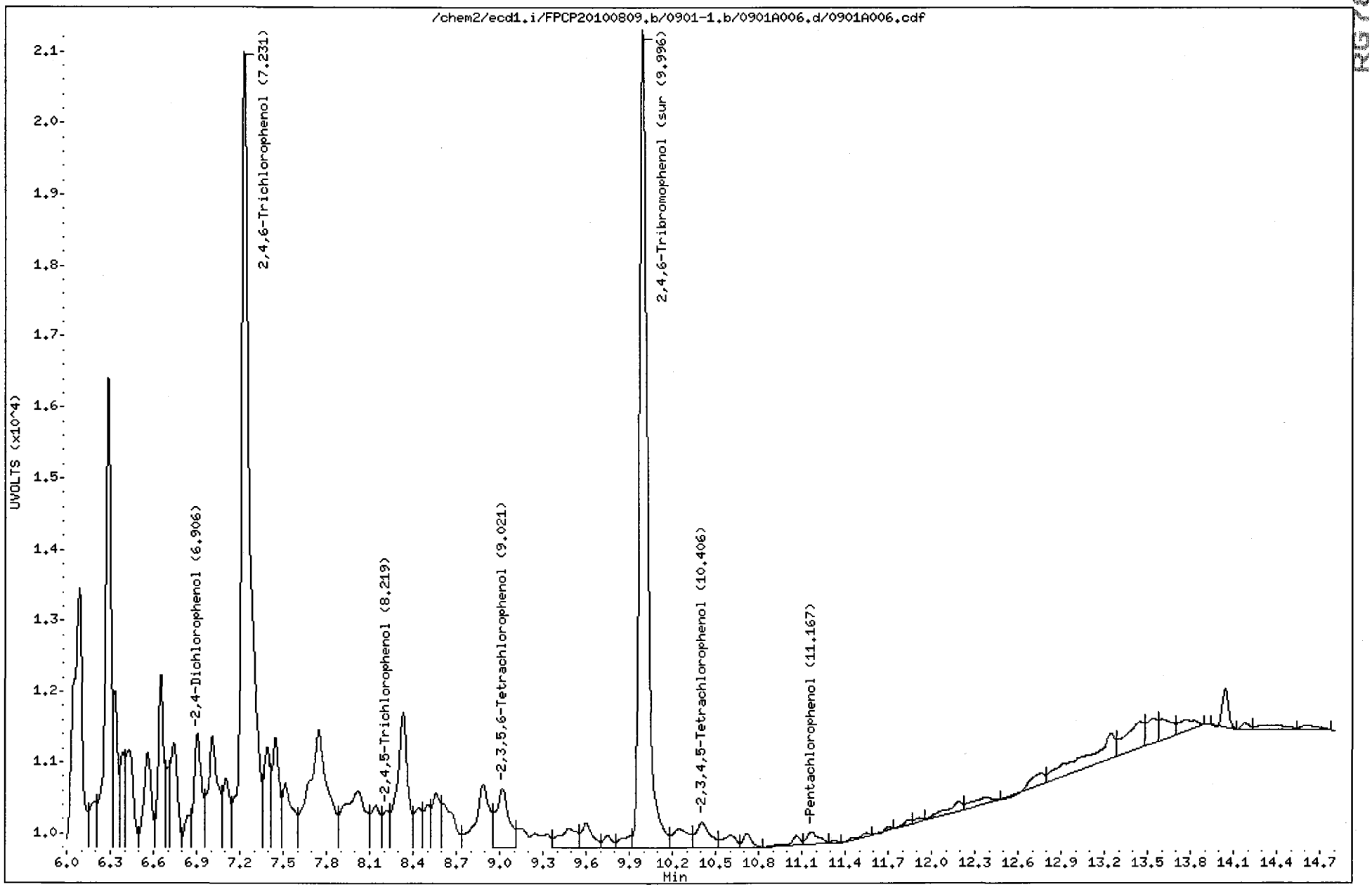
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78:91559



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

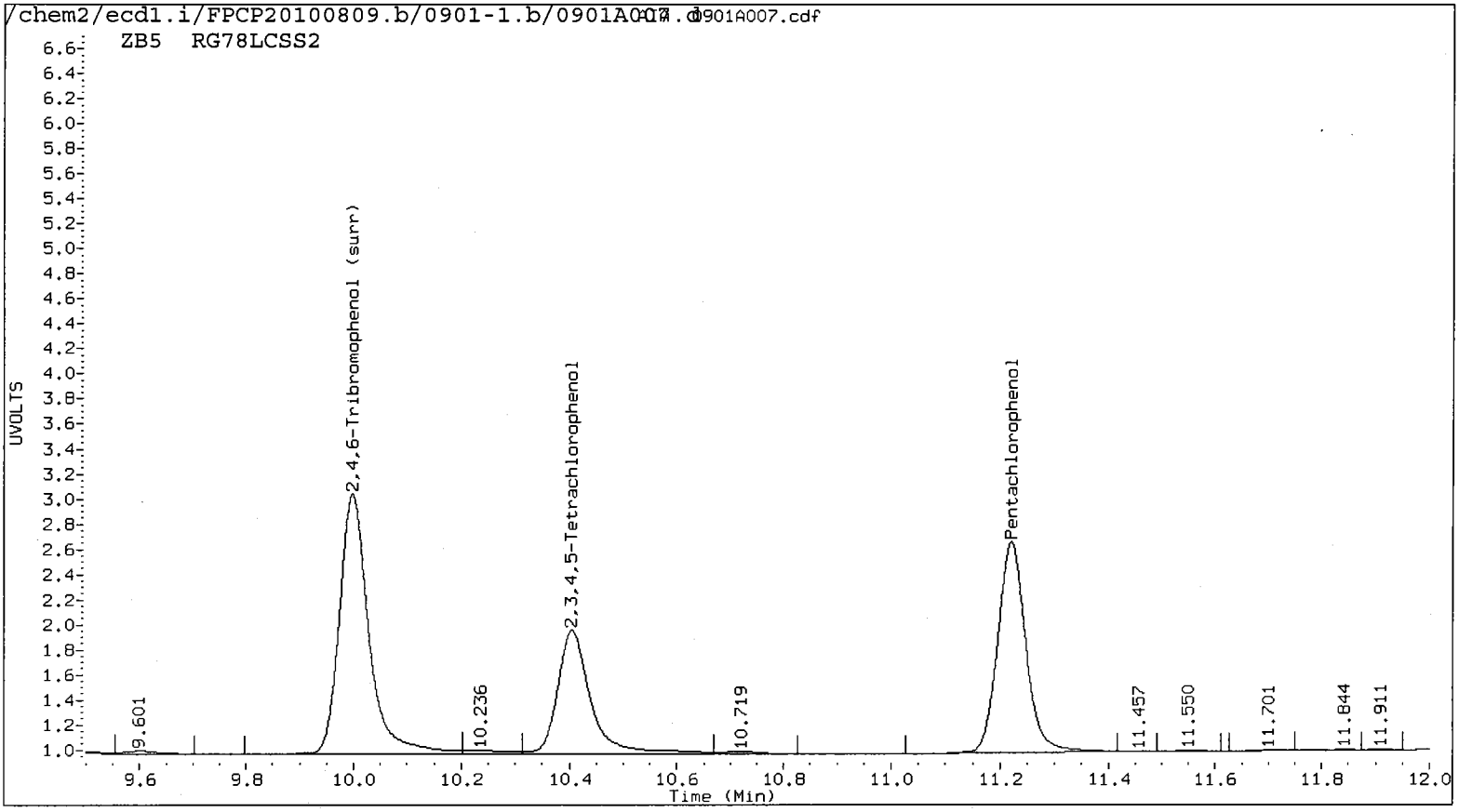
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A007.d ARI ID: RG78LCSS2
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A007.d Client ID: RG78LCSS2
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 01-SEP-2010 12:14
Report Date: 09/01/2010 14:17
Matrix: SOIL
Dilution Factor: 1.000

9/1/10

ZB-5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.220	0.001	302160	11.656	-0.002	416722	18.9091	18.1488	4.1	Pentachlorophenol
7.269	0.005	167940	7.337	0.004	242209	19.3748	19.4006	0.1	2,4,6-Trichlorophenol
7.622	0.003	166224	7.864	0.000	221646	18.3795	17.8624	2.9	2,3,6-Trichlorophenol
8.227	-0.015	85062	8.599	-0.016	125339	16.8522	19.5399	14.8	2,4,5-Trichlorophenol
8.779	-0.013	108932	9.366	-0.014	179291	15.9232	20.7824	26.5	2,3,4-Trichlorophenol
9.003	-0.004	242507	9.269	-0.008	333463	17.1922	18.0106	4.6	2,3,5,6-Tetrachlorophenol
10.404	-0.009	212487	11.116	-0.010	264239	19.9530	18.1101	9.7	2,3,4,5-Tetrachlorophenol
6.894	0.001	81629	7.163	-0.003	125488	153.5975	196.0990	24.3	2,4-Dichlorophenol
9.998	-0.004	399048	10.639	-0.007	590852	33.4	31.7	5.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	75.6	72.6
2,4,6-Trichlorophenol	77.5	77.6
2,3,6-Trichlorophenol	73.5	71.4
2,4,5-Trichlorophenol	67.4	78.2
2,3,4-Trichlorophenol	63.7	83.1
2,3,5,6-Tetrachlorophenol	68.8	72.0
2,3,4,5-Tetrachlorophenol	79.8	72.4
2,4-Dichlorophenol	61.4	78.4
2,4,6-TBP (surr)	66.7	63.3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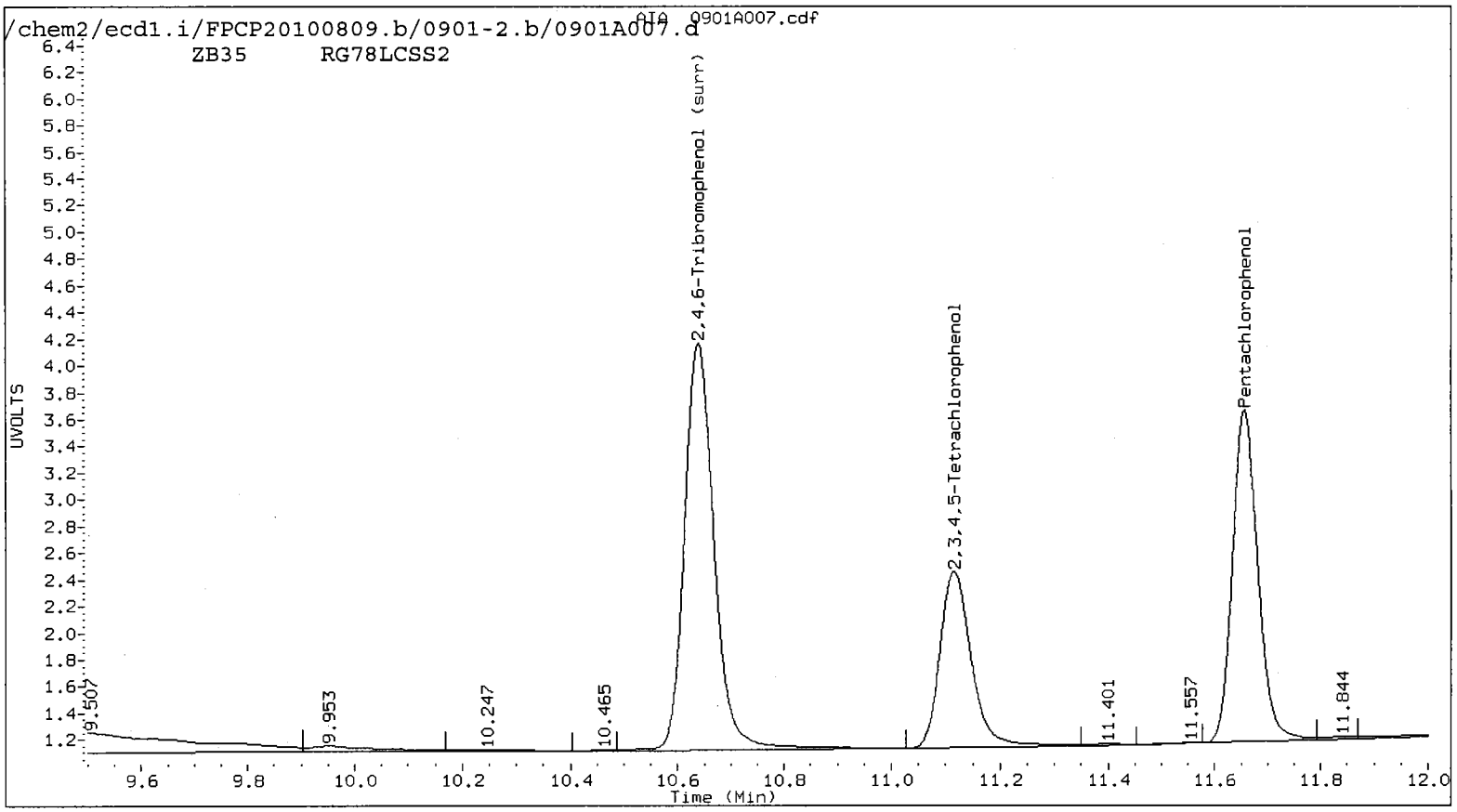
0901A007.cdf
ZB5 RG78LCSS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.601
10.236
10.719
11.457
11.550
11.701
11.844
11.911
Time (Min)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0901A007.cdf
ZB35 RG78LCSS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.507
9.953
10.247
10.465
11.401
11.557
11.844
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A007.d

Date : 01-SEP-2010 12:14

Client ID: RG78LCSS2

Sample Info: RG78LCSS2

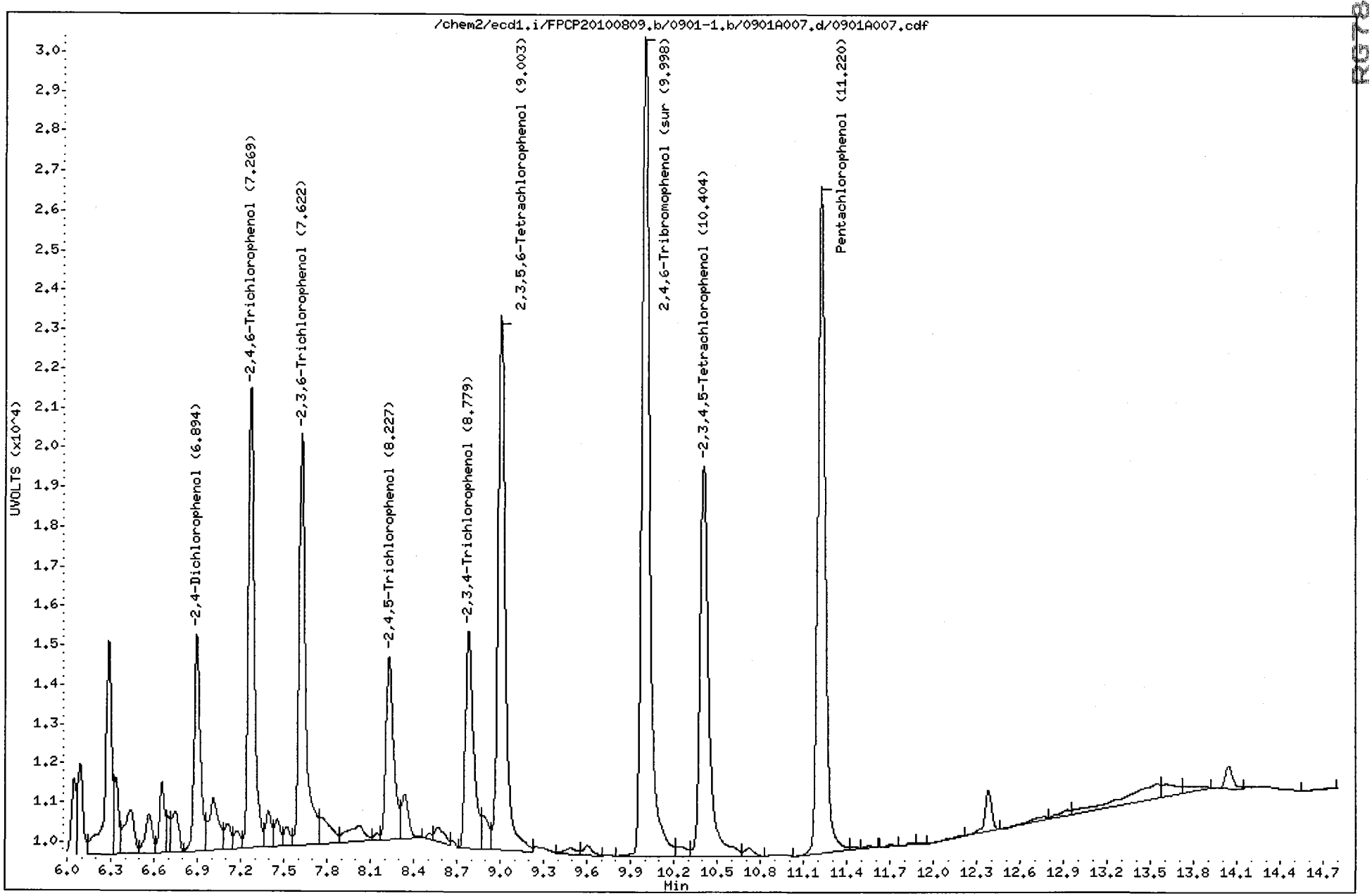
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78-01693



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Date : 01-SEP-2010 12:14

Client ID: RG78LCSS2

Sample Info: RG78LCSS2

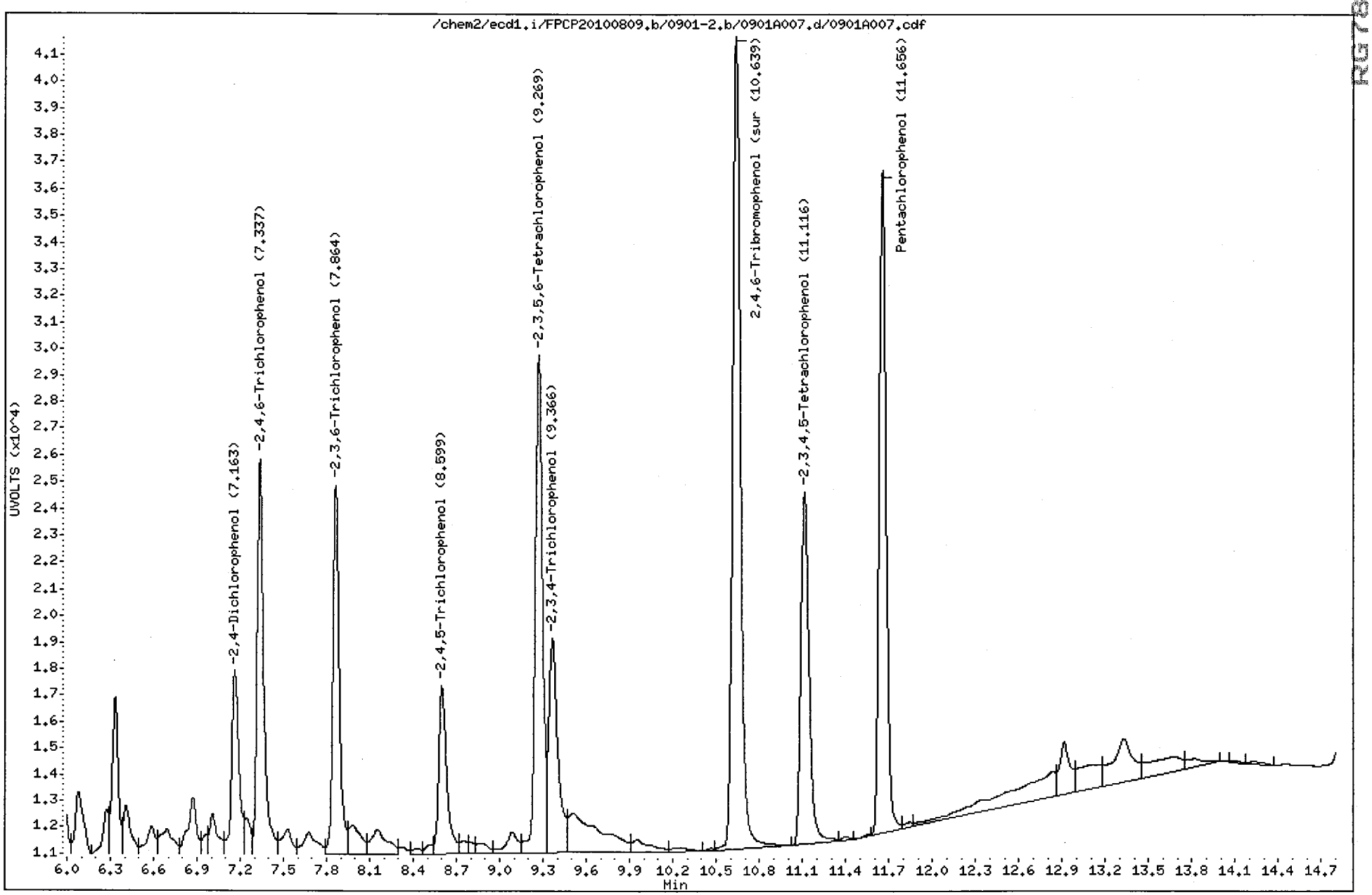
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78-0901



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A012.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A012.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 01-SEP-2010 13:54
Report Date: 09/01/2010 16:16
Matrix: NONE
Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.218	-0.001	360457	11.654	-0.004	523932	23.0563	22.8179	1.0	Pentachlorophenol
7.266	0.002	198486	7.334	0.001	284047	23.3273	22.7518	2.5	2,4,6-Trichlorophenol
7.619	0.000	199204	7.862	-0.002	272967	22.3765	21.9983	1.7	2,3,6-Trichlorophenol
8.222	-0.020	113631	8.595	-0.020	150707	22.5122	24.0079	6.4	2,4,5-Trichlorophenol
8.772	-0.020	142823	9.361	-0.019	195672	20.8772	22.9079	9.3	2,3,4-Trichlorophenol
9.000	-0.007	322455	9.266	-0.011	428374	22.8600	23.1368	1.2	2,3,5,6-Tetrachlorophenol
10.400	-0.013	237166	11.113	-0.013	324144	22.6711	22.2158	2.0	2,3,4,5-Tetrachlorophenol
6.891	-0.002	102059	7.161	-0.005	136478	200.5109	216.1043	7.5	2,4-Dichlorophenol
9.995	-0.007	286029	10.636	-0.010	425750	23.0	22.8	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	92.2	91.3
2,4,6-Trichlorophenol	93.3	91.0
2,3,6-Trichlorophenol	89.5	88.0
2,4,5-Trichlorophenol	90.0	96.0
2,3,4-Trichlorophenol	83.5	91.6
2,3,5,6-Tetrachlorophenol	91.4	92.5
2,3,4,5-Tetrachlorophenol	90.7	88.9
2,4-Dichlorophenol	80.2	86.4
2,4,6-TBP (surr)	91.9	91.2

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A012.d

Date : 01-SEP-2010 13:54

Client ID:

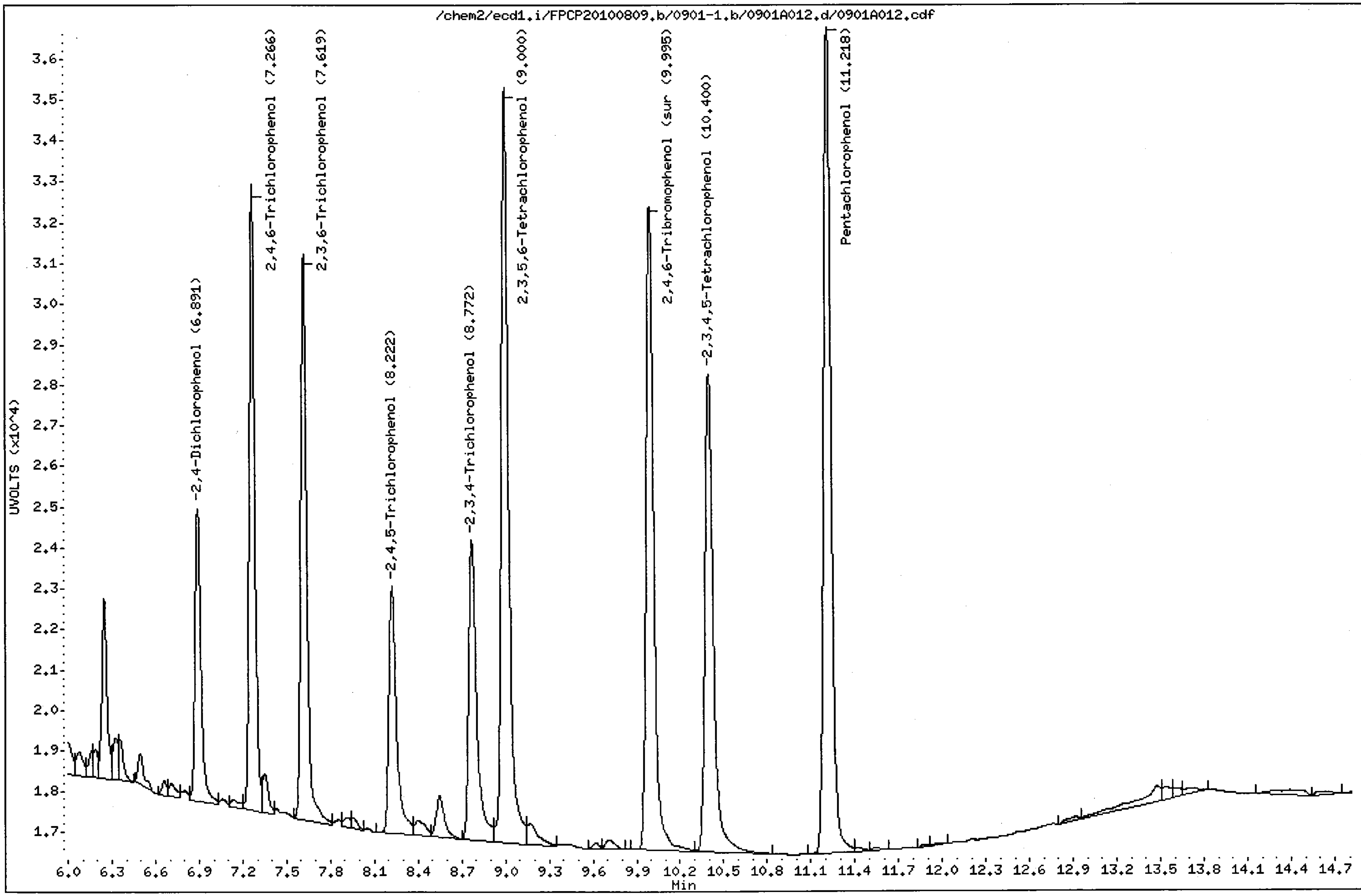
Instrument: ecd1.i

Sample Info: PCP CCAL

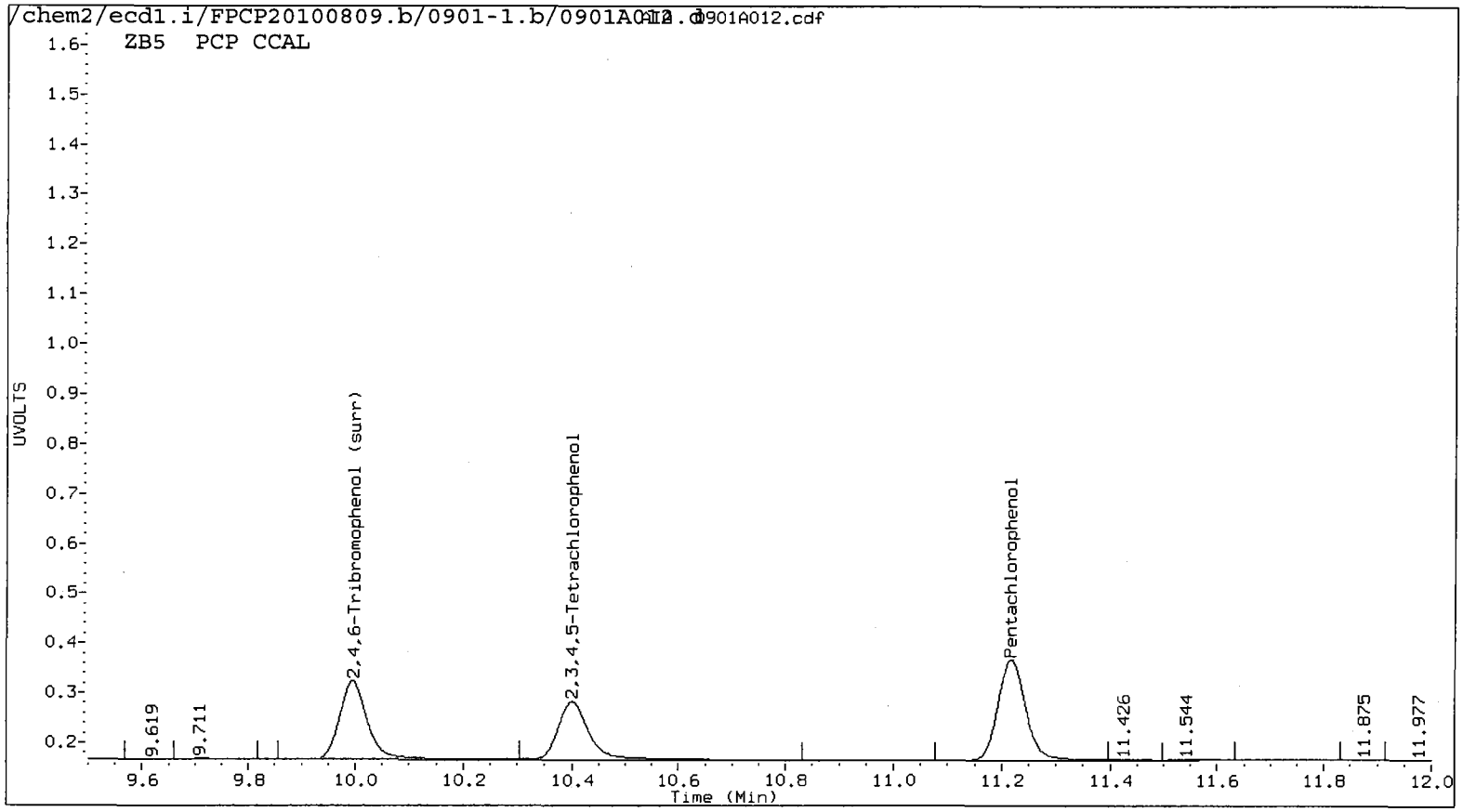
Operator: ar

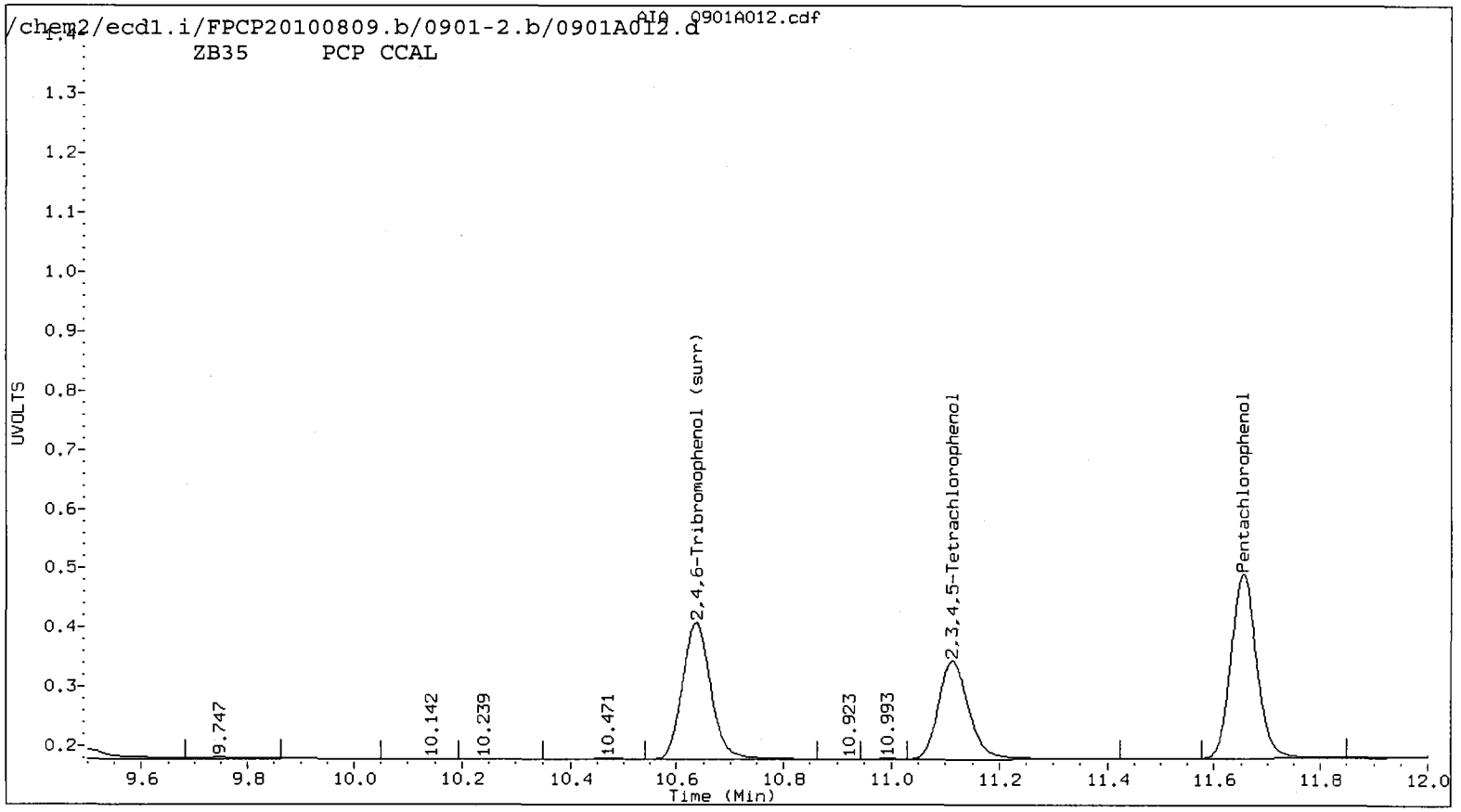
Column phase: ZB5

Column diameter: 0.53



RG78 : 01096


/chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A012.d
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.619
9.711
11.426
11.544
11.875
11.977
Time (Min)

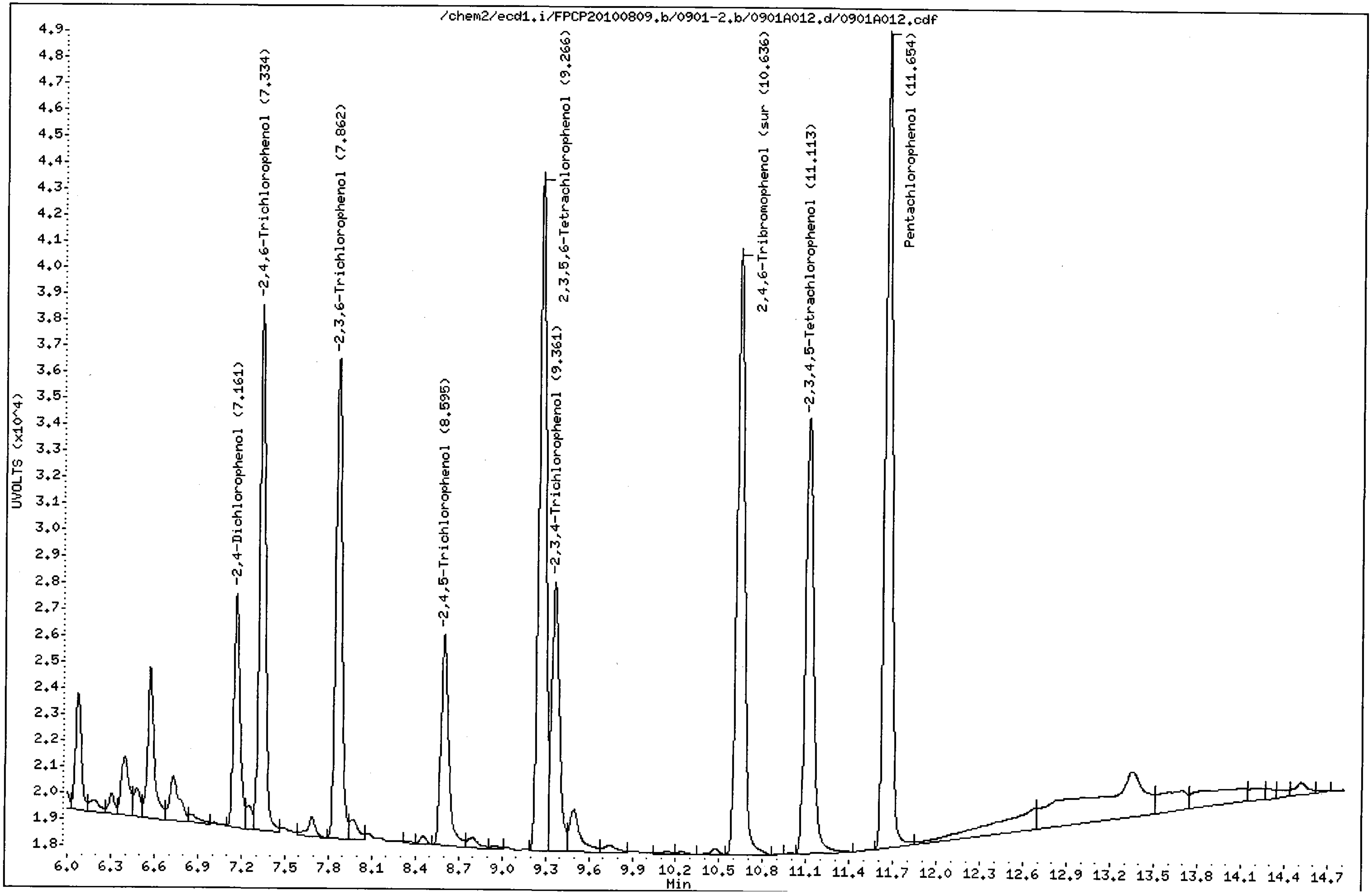

/chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A012.d
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.747
10.142
10.239
10.471
10.923
10.993
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A012.d
Date : 01-SEP-2010 13:54
Client ID:
Sample Info: PCP CCAL

Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

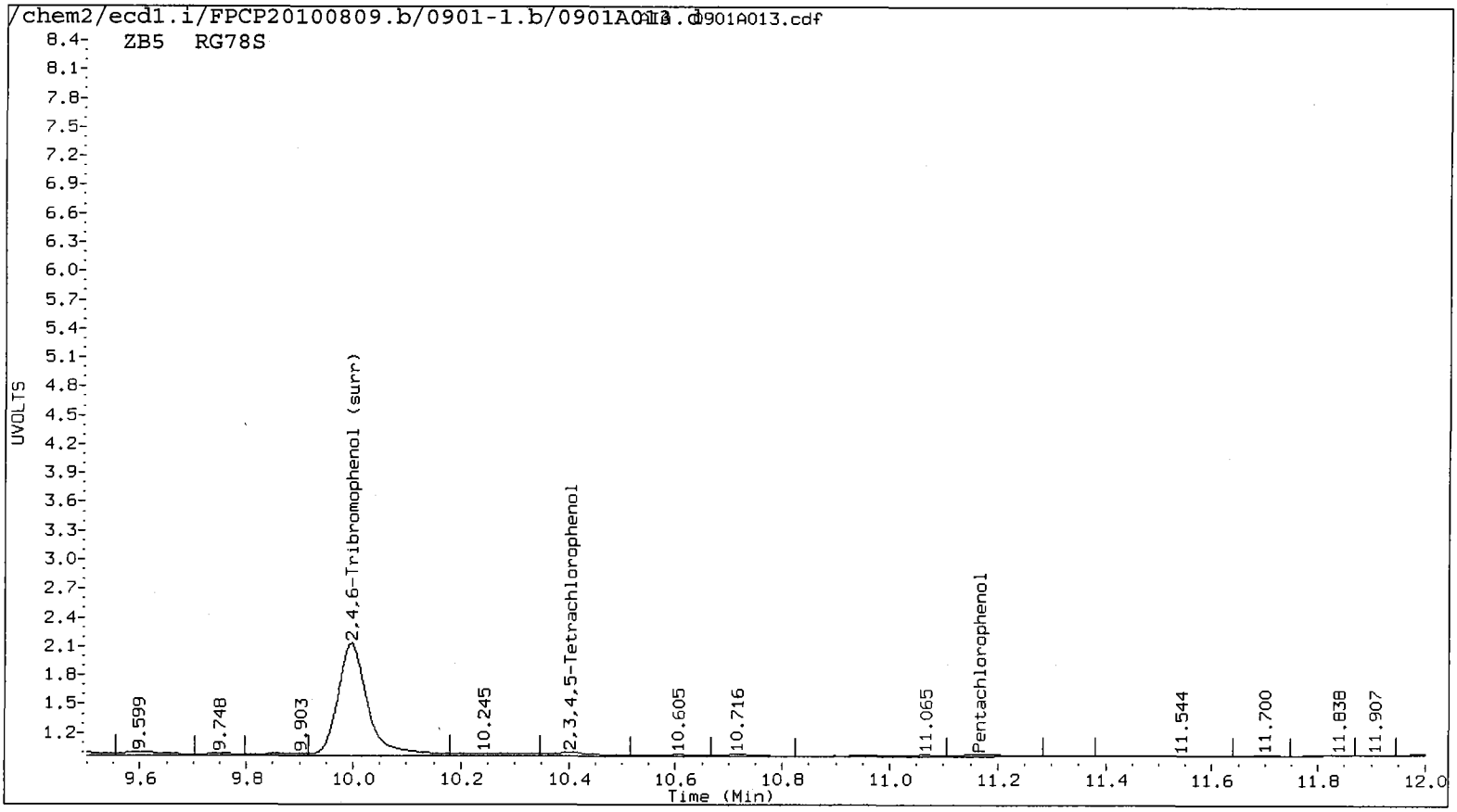
YZ 8/31/10

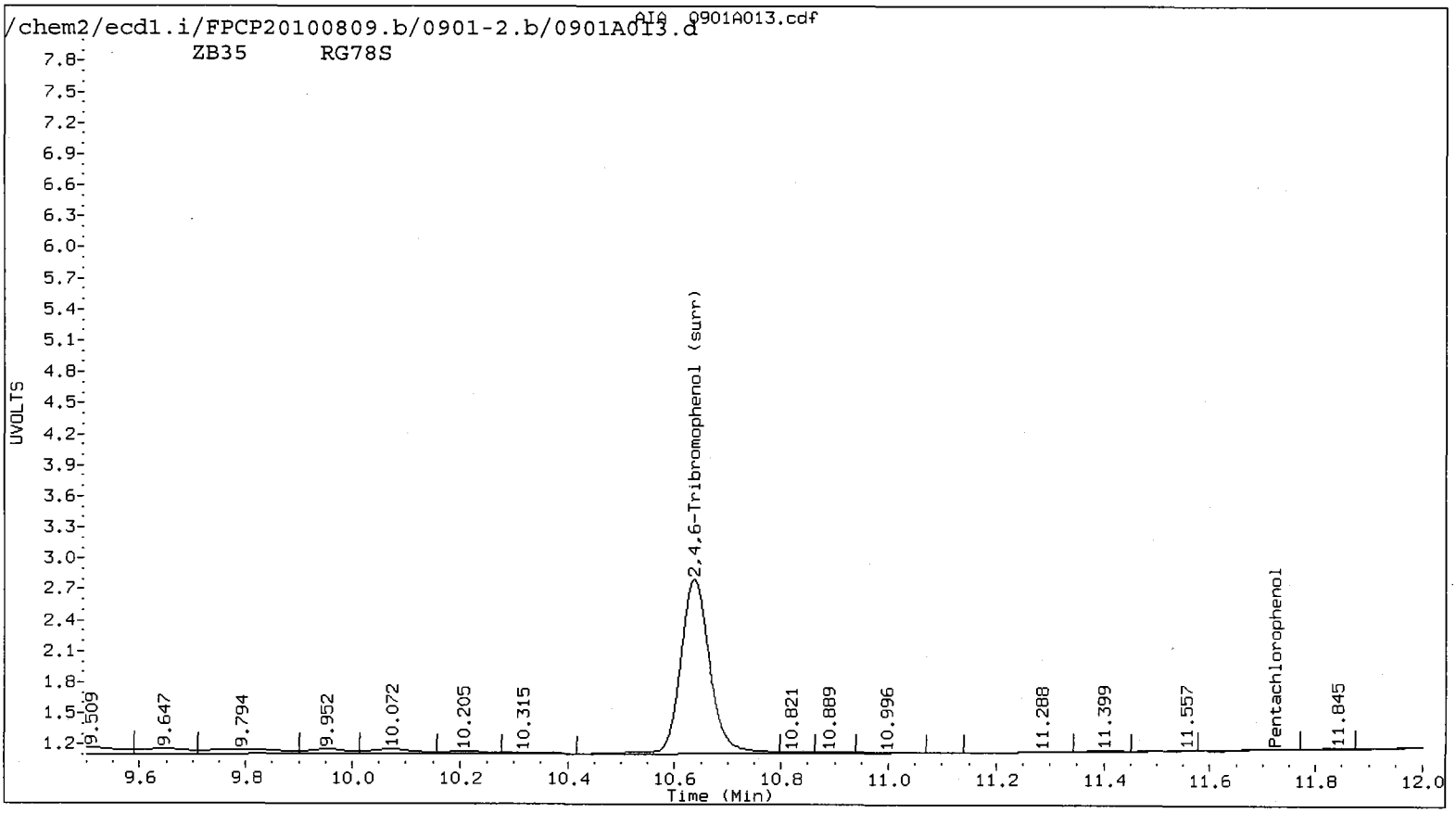
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A013.d ARI ID: RG78S
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A013.d Client ID: PSB9-8.5-9.5-073010
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 14:14
Compound Sublist: all Report Date: 09/01/2010 15:09
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.165	-0.054	6155	11.725	0.067	722	~~0.3419~~	~~0.0314~~	166.3*	Pentachlorophenol
7.231	-0.033	236075	7.373	0.040	52107	28.3722	4.1737	148.7*	2,4,6-Trichlorophenol
7.687	0.068	16721	7.846	-0.018	22627	1.7156	1.8235	6.1	2,3,6-Trichlorophenol
8.220	-0.022	4516	8.663	0.048	12155	0.8947	1.7102	62.6*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.020	0.013	19827	9.265	-0.012	32932	1.4056	1.7787	23.4	2,3,5,6-Tetrachlorophenol
10.405	-0.008	9893	----			0.7918	0.0000	---	2,3,4,5-Tetrachlorophenol
6.907	0.014	29831	7.170	0.004	27903	49.8538	38.4638	25.8	2,4-Dichlorophenol
9.996	-0.006	226177	10.637	-0.009	324059	17.8	17.4	2.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	71.1	69.4


/chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A013.d
0901A013.cdf
ZB5 RG78S
UVOLTS
9.599
9.748
9.903
2,4,6-Tribromophenol (surr)
10.245
2,3,4,5-Tetrachlorophenol
10.605
10.716
11.065
Pentachlorophenol
11.544
11.700
11.838
11.907
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A013.d
0901A013.cdf
ZB35 RG78S
UVOLTS
9.509
9.647
9.794
9.952
10.072
10.205
10.315
2,4,6-Tribromophenol (surr)
10.821
10.889
10.996
11.288
11.399
11.557
Pentachlorophenol
11.845
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A013.d

Date : 01-SEP-2010 14:14

Client ID: PSB9-8.5-9.5-073010

Sample Info: RG78S

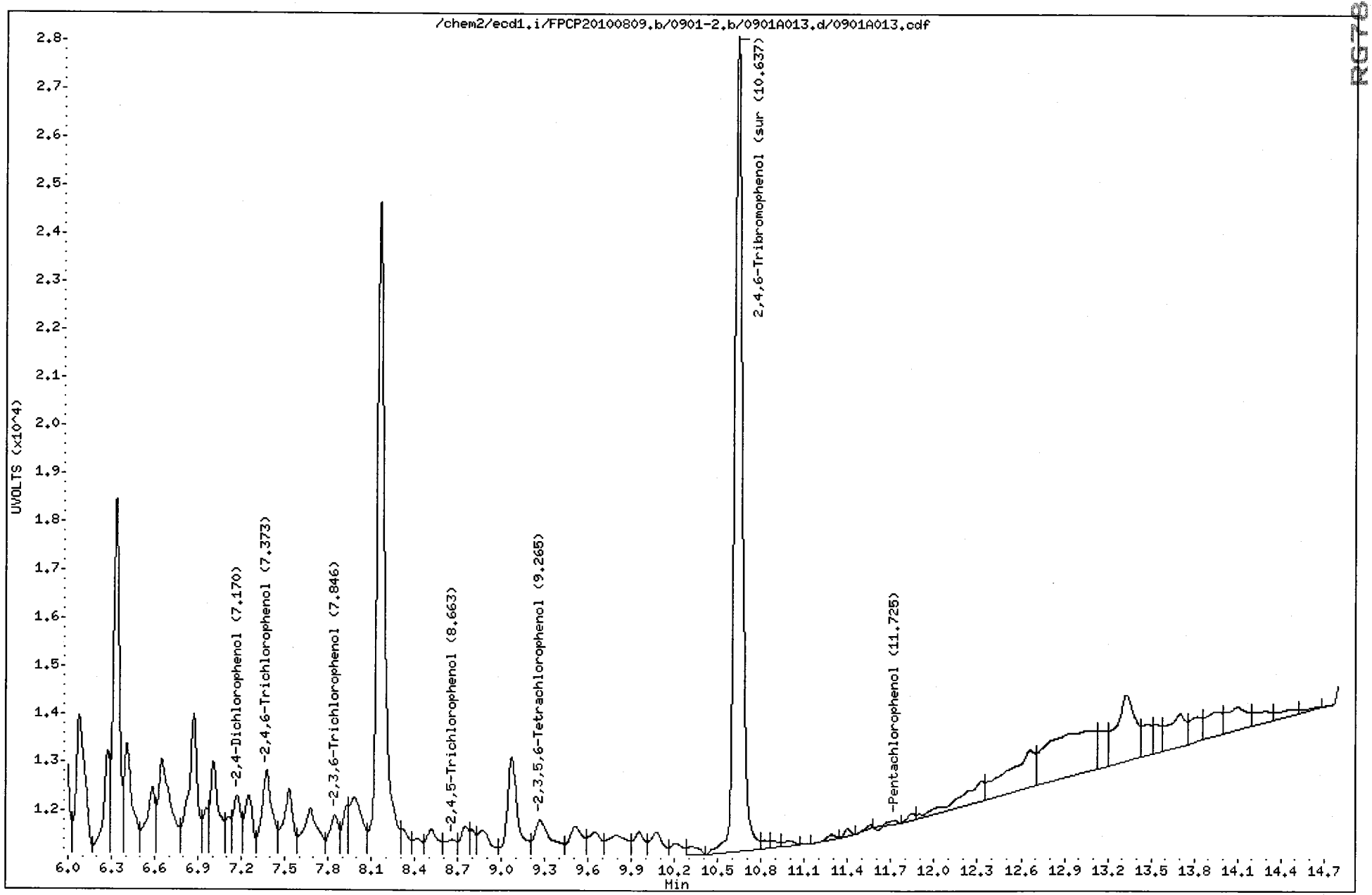
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78 : 01101



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A013.d

Date : 01-SEP-2010 14:14

Client ID: PSB9-8.5-9.5-073010

Sample Info: RG78S

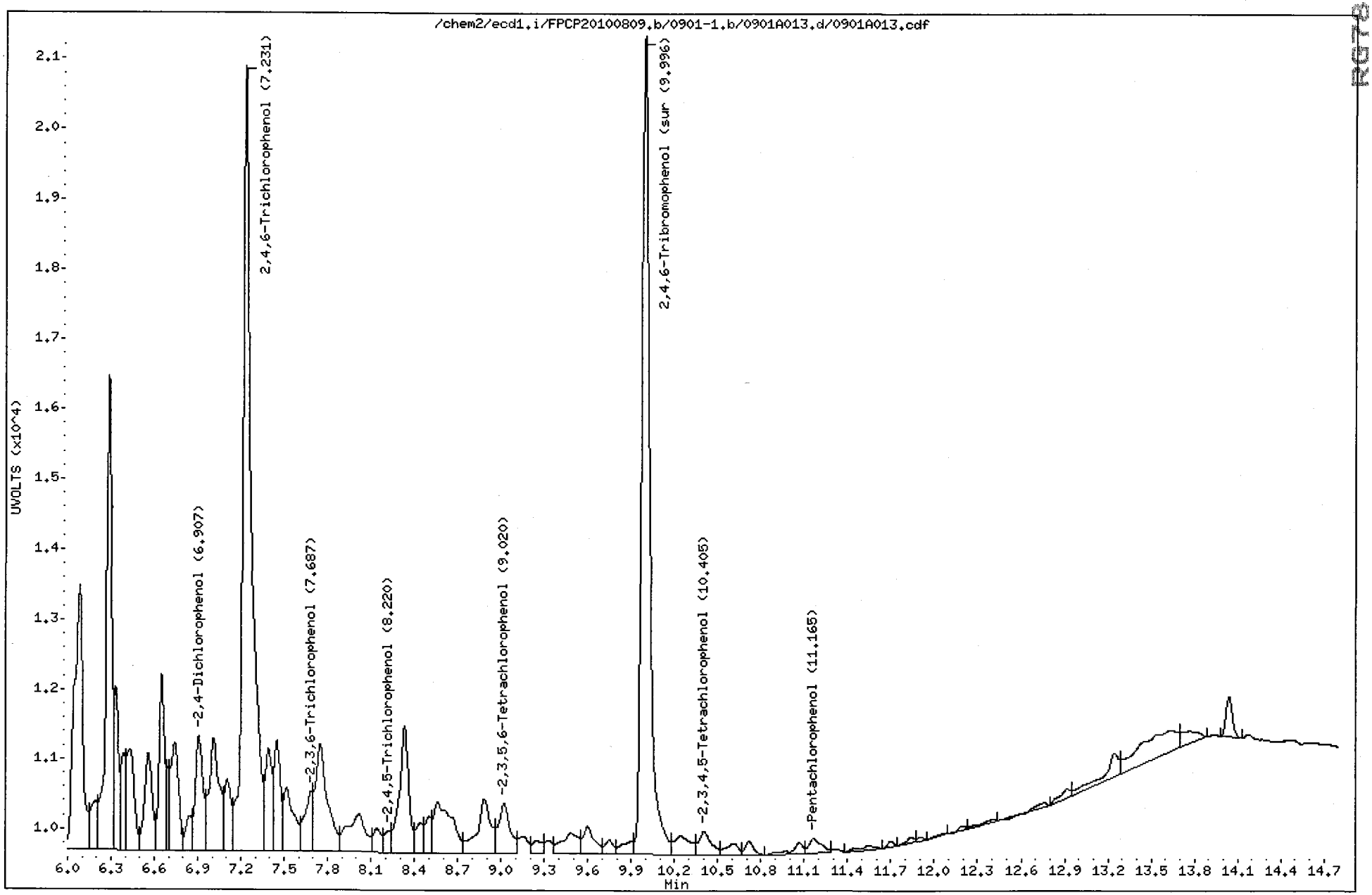
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG78 : 01102



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

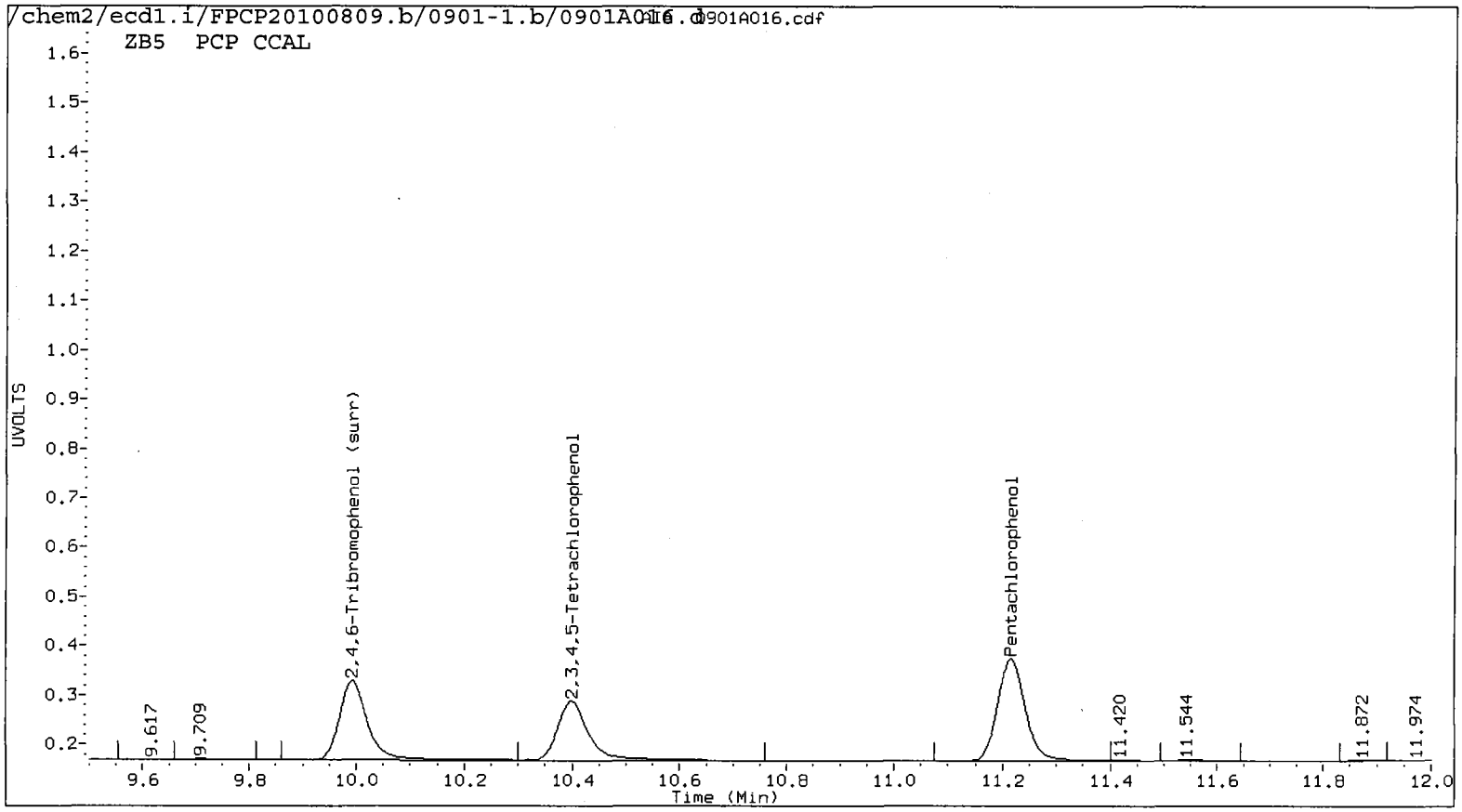
9/1/10

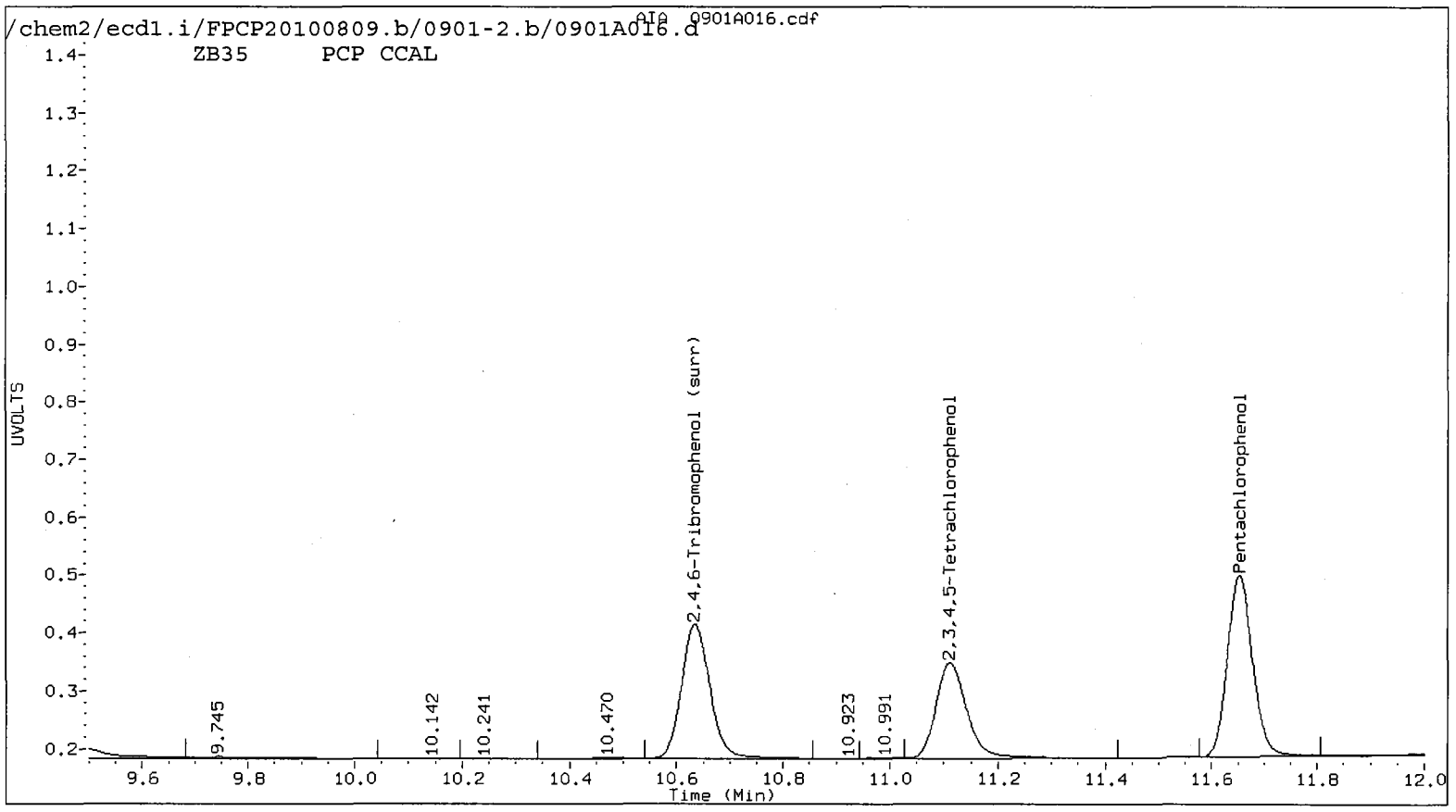
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A016.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A016.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 15:14
Compound Sublist: all Report Date: 09/01/2010 16:18
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.216	-0.003	365895	11.652	-0.006	526532	23.4514	22.9311	2.2	Pentachlorophenol
7.265	0.001	199040	7.333	0.000	287596	23.4003	23.0361	1.6	2,4,6-Trichlorophenol
7.618	-0.001	199910	7.861	-0.003	275440	22.4633	22.1976	1.2	2,3,6-Trichlorophenol
8.222	-0.020	114272	8.594	-0.021	151232	22.6392	24.1022	6.3	2,4,5-Trichlorophenol
8.771	-0.021	143894	9.360	-0.020	197000	21.0338	23.0819	9.3	2,3,4-Trichlorophenol
8.999	-0.008	319906	9.265	-0.012	433132	22.6793	23.3938	3.1	2,3,5,6-Tetrachlorophenol
10.399	-0.014	239012	11.111	-0.015	327346	22.8778	22.4352	2.0	2,3,4,5-Tetrachlorophenol
6.890	-0.003	101377	7.159	-0.007	137323	198.8901	217.6613	9.0	2,4-Dichlorophenol
9.993	-0.009	289391	10.634	-0.012	429232	23.3	23.0	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	93.8	91.7
2,4,6-Trichlorophenol	93.6	92.1
2,3,6-Trichlorophenol	89.9	88.8
2,4,5-Trichlorophenol	90.6	96.4
2,3,4-Trichlorophenol	84.1	92.3
2,3,5,6-Tetrachlorophenol	90.7	93.6
2,3,4,5-Tetrachlorophenol	91.5	89.7
2,4-Dichlorophenol	79.6	87.1
2,4,6-TBP (surr)	93.1	92.0


/chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A016.d
0901A016.cdf
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.617
9.709
11.420
11.544
11.872
11.974
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A016.d
0901A016.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.745
10.142
10.241
10.470
10.923
10.991
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A016.d

Date : 01-SEP-2010 15:14

Client ID:

Sample Info: PCP CCAL

Purge Volume: 2.0

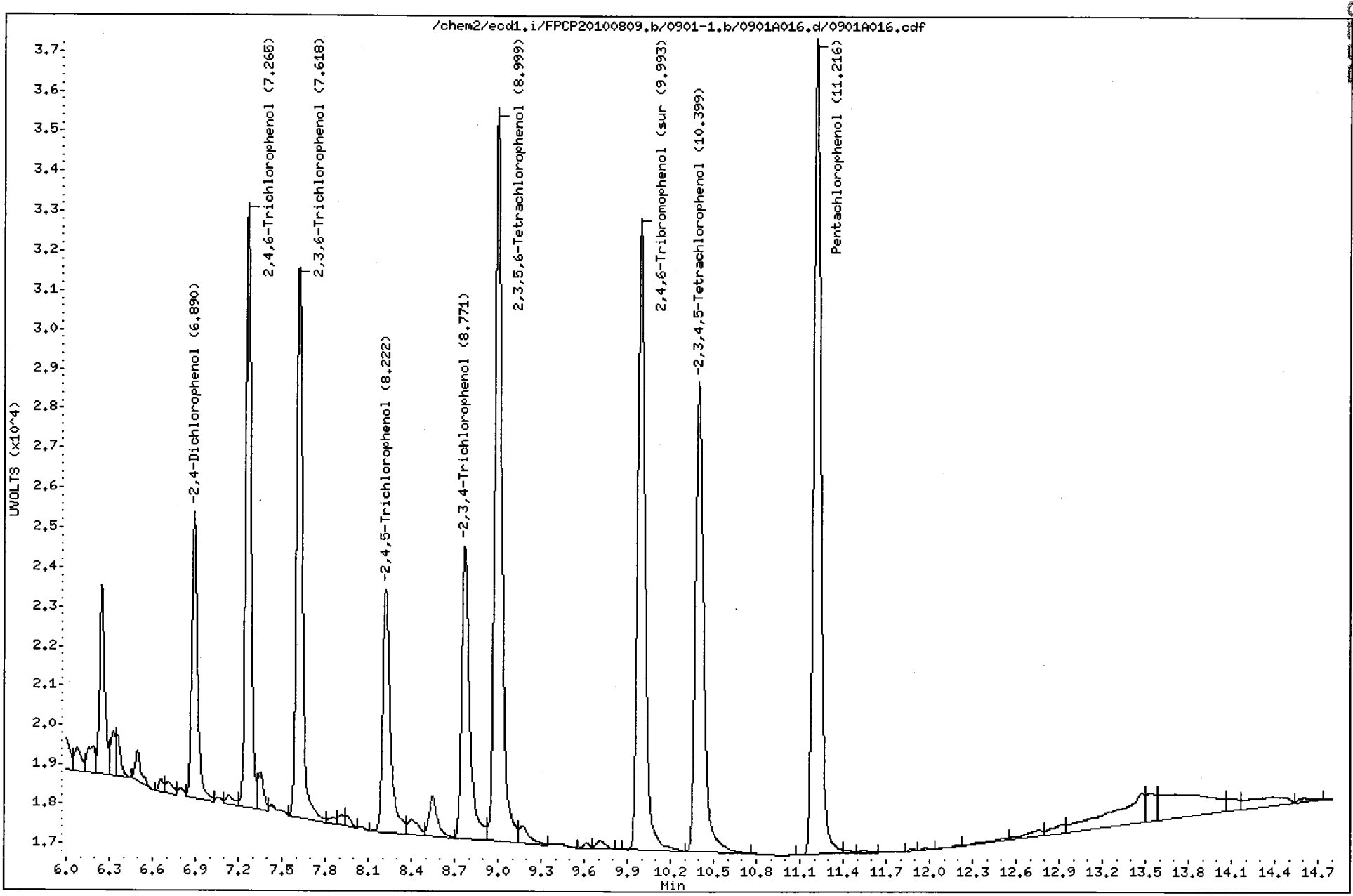
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RGTS:91165



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A016.d

Date : 01-SEP-2010 15:14

Client ID:

Sample Info: PCP CCAL

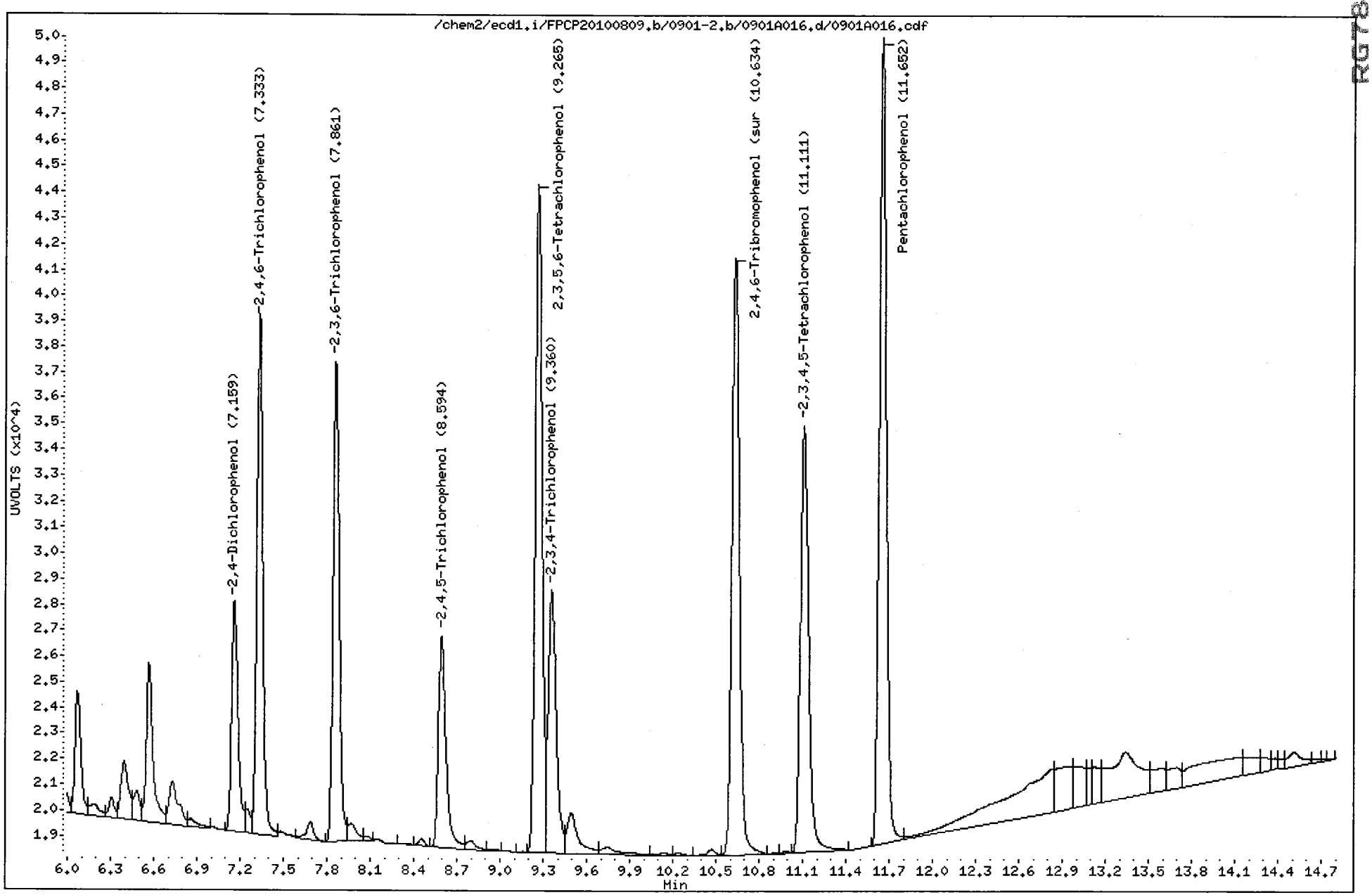
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RGT8 : 01106



TPHD Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG78

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

NWTPHD-Soil
Microwave (3546) (SOP # 3304S)

Preparation Test TPHD # 3
ARI Job No(s) RG78

In-House (5ppm)
Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Transfer to Turbo Tube	TurboVap 1 (2) 3	Acid/Silica Clean (1:1) (Y) / N	TurboVap 1 2 (3)	Final Effective Volume	Volume to Lab	Comments
	RG78 MBS	Date 8/10/10	10.00g					1mL	1mL	
	SBS									
	~~SBS Dup.~~									
2	RG78 A	check	10.19							
	B		10.39							
	C		10.21							
	D		10.10							
	E		10.05							
	F		10.06							
	G		10.05							
	H		10.16							
	I		10.00							
19	J		10.00							
	JMS		10.21							
	JMSD		10.47							
2	K		10.40							
	L		10.15							
	S		10.26							
Analyst/Date:	WC	8/11/10	→		WC 08/11/10	WC 08/11/10	WC 08/11/10	WC 08/11/10	WC 08/11/10	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	O_1	100µL	6/22/11	WC	WW
Spike	11	100µL	4/22/11	WC	WW
Extraction Time:	9:40		Balance ID:	24150193	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap. 11. Acid/Silica Clean-up?= (Y) / N. 12. TurboVap (if Silica Clean). 13. Vial in DCM.

A. Need Total Solids Y / (N) B. Archive/Freeze Y / (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG 78

Client ID: Floyd / Snider

Parameter:

Client Project:

Note problems, concerns, corrective actions	Analyst/Date
Screens: ~~Soil~~/Sediment/Solid/Other: Soil	WC 8/17/10
☒ No Anomalies (standard soil/sediment) A, C, D	↓
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☒ Rocks/Organics= Rock (B, E, F G H I J K L S)	WC 8/17/10
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

TPHD Raw Data
Initial Calibration

ARI Job ID: RG78

Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, MO;l, AK102 Curve Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest) **427S**(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): Diesel, 30wt MO;l, AK102, oTerphenyl, n-Triacontane

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

Dates: Curve: 7/28/10 Analysis Start: 7/28/10

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: _____ **Date:** 7/30/10

Reviewer: _____ **Date:** 7/30/10

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 7/25/10 Analysis: MOIPHD Analyst: JM

GC Program: TPH Column No: S02037 Column Type: HP-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/29/10

IS/SS	Ical/Ccal	LCS/ICV
	1700 1	
	1680 2	
	1730 3	
	1727 3	

me	Filename	LabID	ClientId	DF		Time	Filename	LabID	ClientId	DF
34	0728A001.D	RINSE		1	23	0018	0728A023.D	MOIL 2500		1
55	0728A002.D	RINSE		1	24	0040	0728A024.D	MOIL 5000		1
48	0728A003.D	RINSE		1	25	0101	0728A025.D	MOIL ICV		1
10	0728A004.D	RINSE		1	26	0122	0728A026.D	DIESEL#1		1
31	0728A005.D	RT		1	27	0144	0728A027.D	MOIL#1		1
53	0728A006.D	DIESEL#1		1	28	0205	0728A028.D	BUNKERC#1		1
15	0728A007.D	MOIL#1		1	29	0226	0728A029.D	RF99MBS1	RF99MBS1	1
36	0728A008.D	BUNKERC#1		1	30	0247	0728A030.D	RF99LCSS1	RF99LCSS1	1
20	0728A009.D	RINSE		1	31	0308	0728A031.D	RF99LCSDS1	RF99LCSDS1	1
41	0728A010.D	RT		1	32	0329	0728A032.D	RF99A	PL2C-DB-11-0	1
02	0728A011.D	IB		1	33	0351	0728A033.D	RF99B	PL2-DB-11-10	1
24	0728A012.D	DIESEL 50		1	34	0412	0728A034.D	RF99BMS	PL2-DB-11-10	1
45	0728A013.D	DIESEL 100		1	35	0433	0728A035.D	RF99BMSD	PL2-DB-11-10	1
07	0728A014.D	DIESEL 250		1	36	0454	0728A036.D	DIESEL#2		1
28	0728A015.D	DIESEL 500		1	37	0515	0728A037.D	MOIL#2		1
49	0728A016.D	DIESEL 1000		1	38	0537	0728A038.D	BUNKERC#2		1
11	0728A017.D	DIESEL 2500		1	39	1349	0728A039.D	RF99A	PL2C-DB-11-0	5
32	0728A018.D	DIESEL ICV		1	40	1410	0728A040.D	DIESEL#3		1
53	0728A019.D	MOIL 100		1	41	1432	0728A041.D	MOIL#3		1
15	0728A020.D	MOIL 250		1	42	1453	0728A042.D	BUNKERC#3		1
36	0728A021.D	MOIL 500		1						
57	0728A022.D	MOIL 1000		1						

JM

JM

7/30/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

ANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20100728.B

RI Job No.: DIES Method: ftphfid9a.m Instrument: fid9.i Date: 28-JUL-2010

me	Filename	LabID	ClientId	DF	Manually Integrated Compounds
24	0728A012.D	DIESEL 50		1	o-terph,
45	0728A013.D	DIESEL 100		1	o-terph,
07	0728A014.D	DIESEL 250		1	o-terph,
28	0728A015.D	DIESEL 500		1	o-terph,
49	0728A016.D	DIESEL 1000		1	o-terph,
11	0728A017.D	DIESEL 2500		1	o-terph,
32	0728A018.D	DIESEL ICV		1	o-terph,
53	0728A019.D	MOIL 100		1	Triacon Surr,
15	0728A020.D	MOIL 250		1	Triacon Surr,
36	0728A021.D	MOIL 500		1	Triacon Surr,
57	0728A022.D	MOIL 1000		1	Triacon Surr,
18	0728A023.D	MOIL 2500		1	Triacon Surr,
40	0728A024.D	MOIL 5000		1	Triacon Surr,
01	0728A025.D	MOIL ICV		1	Triacon Surr,

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0728A012	0728A013	0728A014	0728A015	0728A016	0728A017
INJ.DATE:	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010
INJ.TIME:	20:24	20:45	21:07	21:28	21:49	22:11

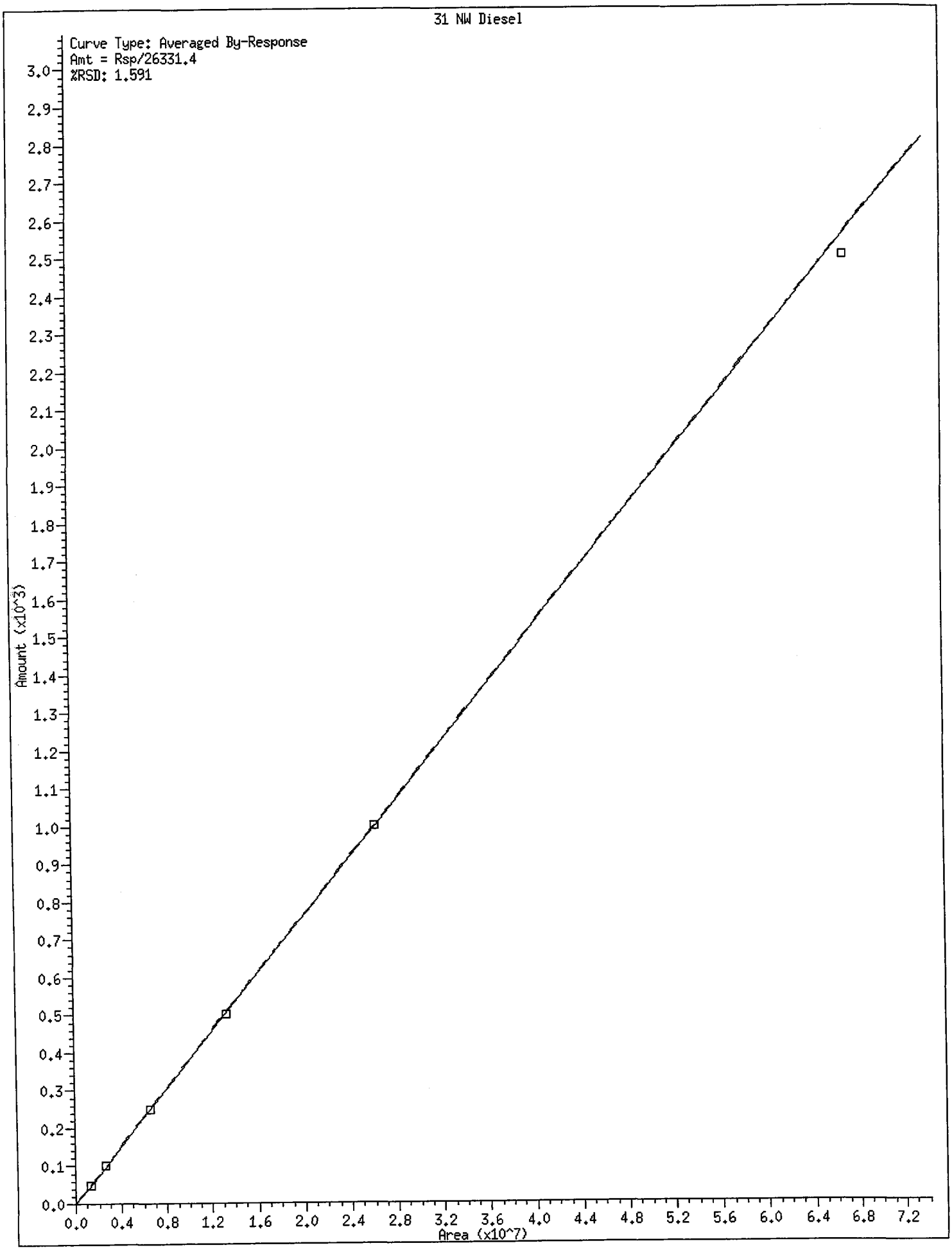
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.545	1.545	1.542	1.550	1.522	1.527	1.536	1.436-1.636	1.539	0.011
37 JET-A	1.621	1.620	1.617	1.625	1.631	1.619	1.624	1.574-1.674	1.622	0.005
2 C8	1.699	1.703	1.700	1.707	1.681	1.696	1.694	1.594-1.794	1.698	0.009
3 C10	2.459	2.452	2.450	2.453	2.453	2.446	2.455	2.405-2.505	2.452	0.004
4 C12	3.101	3.103	3.102	3.103	3.105	3.108	3.091	3.041-3.141	3.104	0.002
5 C14	3.623	3.659	3.657	3.658	3.660	3.623	3.641	3.591-3.691	3.647	0.018
6 C16	4.138	4.123	4.122	4.122	4.123	4.129	4.128	4.078-4.178	4.126	0.006
7 C18	4.565	4.567	4.567	4.564	4.571	4.575	4.569	4.519-4.619	4.568	0.004
$ 8 o-terph	4.760	4.762	4.771	4.780	4.795	4.830	4.767	4.717-4.817	4.783	0.026
9 C20	5.072	5.075	5.073	5.074	5.075	5.065	5.072	5.022-5.122	5.072	0.004
10 C22	5.592	5.588	5.589	5.584	5.588	5.599	5.589	5.539-5.639	5.590	0.005
11 C24	6.019	6.023	6.028	6.031	6.012	6.014	6.020	5.970-6.070	6.021	0.008
12 C25	6.225	6.197	6.201	6.201	6.201	6.200	6.212	6.162-6.262	6.204	0.010
13 C26	6.395	6.406	6.387	6.392	6.390	6.393	6.392	6.342-6.442	6.394	0.007
14 C28	6.710	6.710	6.716	6.713	6.716	6.714	6.723	6.673-6.773	6.713	0.003
$ 15 Triacon Surr	7.038	7.036	7.038	7.035	7.032	7.036	7.038	6.988-7.088	7.036	0.002
16 C32	7.303	7.307	7.308	7.307	7.302	7.300	7.309	7.259-7.359	7.304	0.003

Reviewer 1 ______ Date: 7/30/10
Reviewer 2 ______ Date: 7/30/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	7.594	7.593	7.600	7.599	7.591	7.598	7.596	7.546-7.646	7.596	0.004
18 Filter Peak	8.346	8.338	8.344	8.347	8.345	8.352	8.343	8.243-8.443	8.345	0.004
19 C36	7.939	7.942	7.941	7.946	7.947	7.939	7.945	7.895-7.995	7.942	0.003
20 C38	8.383	8.378	8.377	8.380	8.386	8.372	8.380	8.330-8.430	8.379	0.005
21 C40	8.938	8.938	8.935	8.933	8.938	8.930	8.935	8.885-8.985	8.935	0.003
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++


31 NW Diesel
Curve Type: Averaged By-Response
Amt = Rsp/26331.4
%RSD: 1.591
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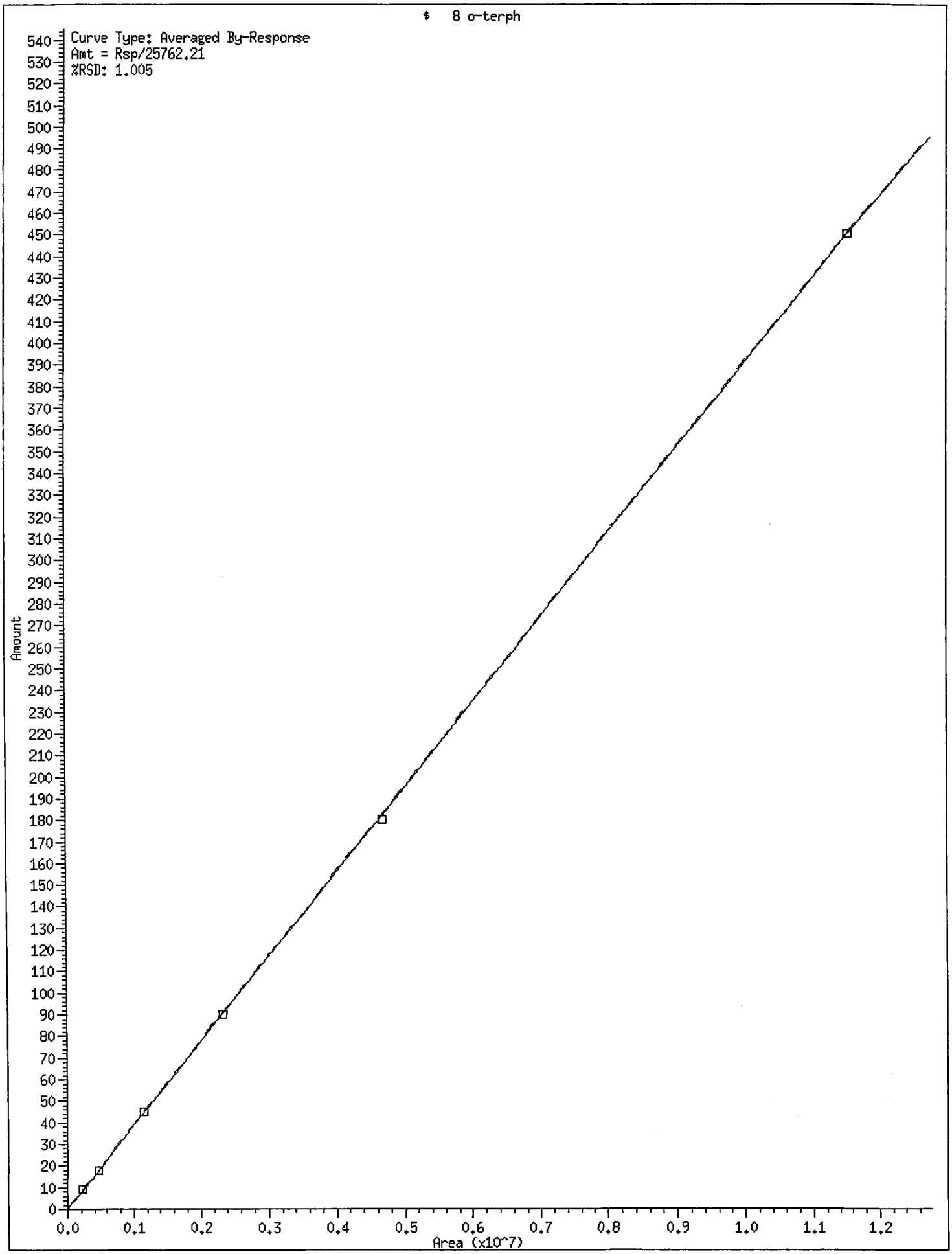
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4 6.8 7.2
Area (x10^7)


$ 8 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/25762.21
%RSD: 1.005
Amount
Area (x10^7)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2

Report Date : 30-Jul-2010 17:02

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0728A019	0728A020	0728A021	0728A022	0728A023	0728A024
INJ.DATE:	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	29-JUL-2010	29-JUL-2010
INJ.TIME:	22:53	23:15	23:36	23:57	00:18	00:40

* Not in Moil range

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.544	1.542	1.544	1.538	*+++++	1.505	1.536	1.436-1.636	1.535	0.017
37 JET-A	1.598	1.620	1.621	*+++++	1.654	*+++++	1.624	1.574-1.674	1.624	0.023
2 C8	1.726	1.701	1.728	1.703	1.718	1.724	1.694	1.594-1.794	1.717	0.012
3 C10	2.453	2.453	2.454	2.453	2.459	2.462	2.455	2.405-2.505	2.456	0.004
4 C12	3.087	3.084	3.094	3.089	3.085	3.104	3.091	3.041-3.141	3.090	0.008
5 C14	3.638	3.641	3.642	3.639	3.640	3.646	3.641	3.591-3.691	3.641	0.003
6 C16	4.130	4.130	4.125	4.129	4.130	4.129	4.128	4.078-4.178	4.129	0.002
7 C18	4.564	4.564	4.561	4.560	4.559	4.560	4.569	4.519-4.619	4.561	0.002
$ 8 o-terph	4.766	4.766	4.764	4.764	4.762	4.761	4.767	4.717-4.817	4.764	0.002
9 C20	5.075	5.076	5.072	5.072	5.069	5.070	5.072	5.022-5.122	5.072	0.003
10 C22	5.588	5.593	5.593	5.597	5.589	5.582	5.589	5.539-5.639	5.590	0.005
11 C24	6.024	6.019	6.019	6.018	6.020	6.023	6.020	5.970-6.070	6.020	0.003
12 C25	6.222	6.217	6.211	6.213	6.215	6.207	6.212	6.162-6.262	6.214	0.005
13 C26	6.393	6.394	6.394	6.389	6.388	6.393	6.392	6.342-6.442	6.392	0.003
14 C28	6.715	6.719	6.721	6.720	6.725	6.726	6.723	6.673-6.773	6.721	0.004
$ 15 Triacon Surr	7.080	7.087	7.094	7.105	7.129	7.160	7.038	6.988-7.088	7.109	0.030
16 C32	7.310	7.310	7.312	7.310	7.308	7.305	7.309	7.259-7.359	7.309	0.002

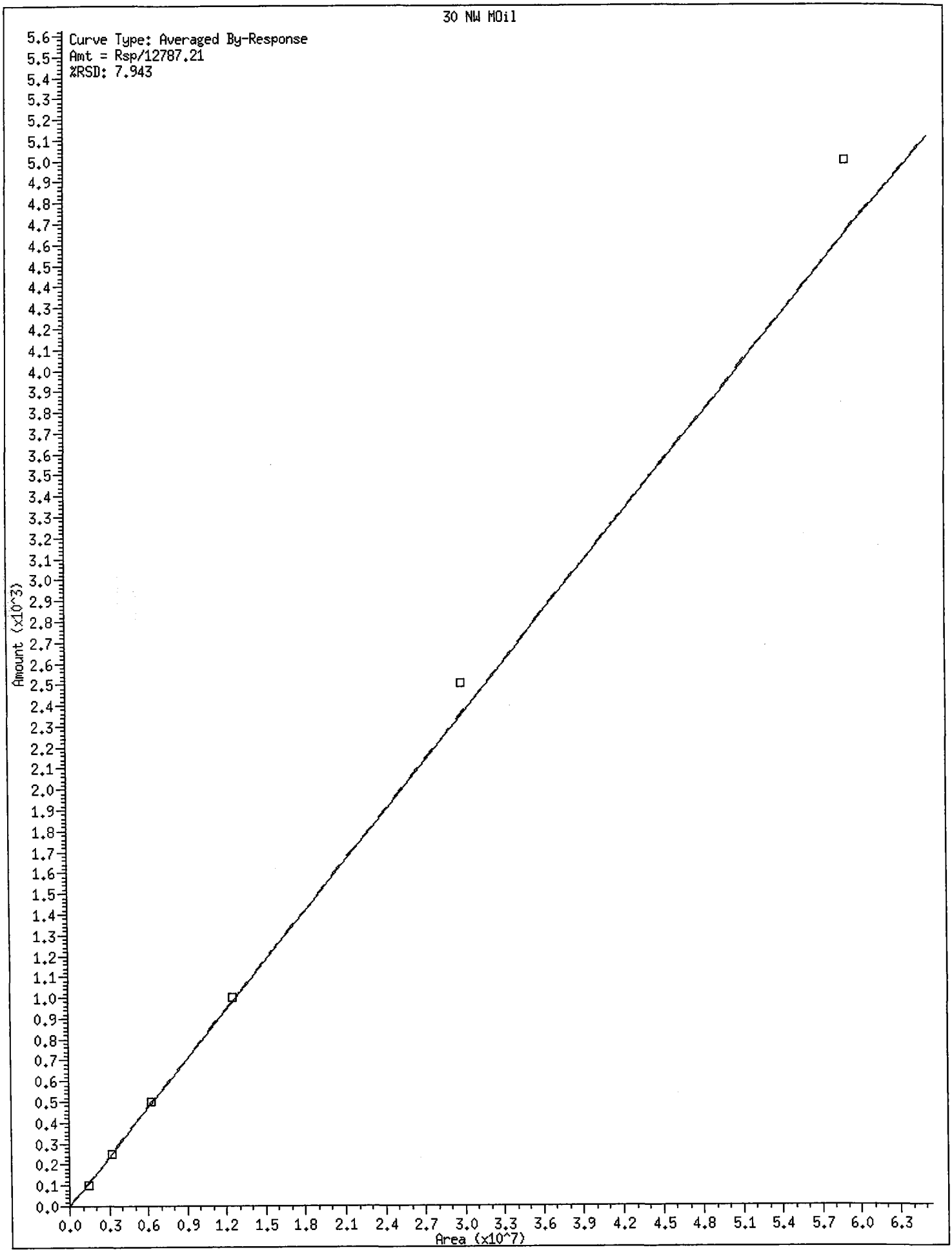
Reviewer 1 [signature] Date: 7/30/10
Reviewer 2 [signature] Date: 7/30/10

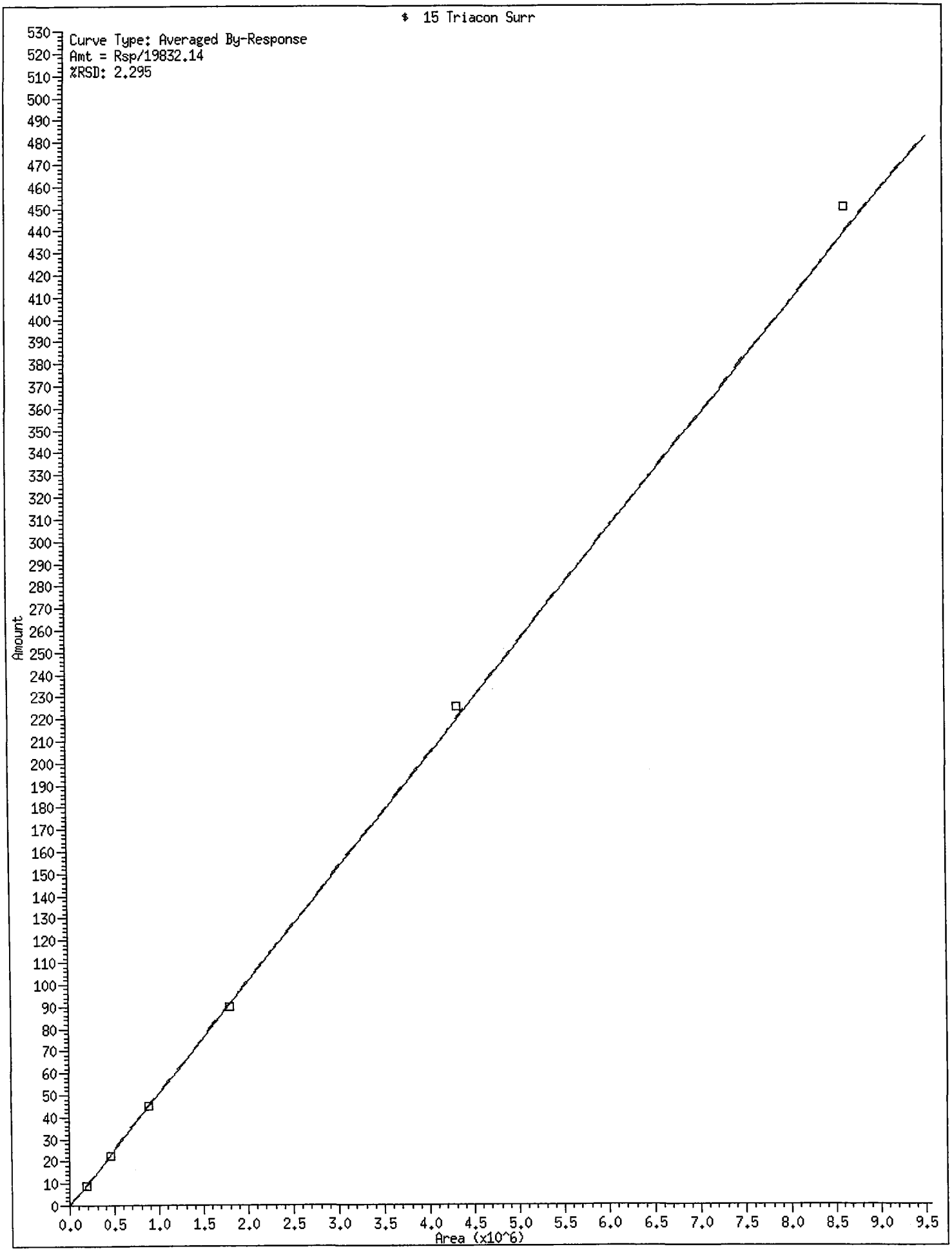
Report Date : 30-Jul-2010 17:02

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	7.596	7.596	7.600	7.599	7.594	7.597	7.596	7.546-7.646	7.597	0.002
18 Filter Peak	8.344	8.341	8.350	8.345	8.350	8.346	8.343	8.243-8.443	8.346	0.003
19 C36	7.940	7.941	7.944	7.948	7.944	7.943	7.945	7.895-7.995	7.943	0.003
20 C38	8.385	8.372	8.382	8.376	8.379	8.379	8.380	8.330-8.430	8.379	0.005
21 C40	8.936	8.931	8.934	8.939	8.938	8.935	8.935	8.885-8.985	8.935	0.003
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++


30 NW MOil
Curve Type: Averaged By-Response
Amt = Rsp/12787.21
%RSD: 7.943
Amount (x10^3)
Area (x10^7)


$ 15 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/19832.14
%RSD: 2.295
Amount
Area (x10^6)
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0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530

RG78 : 01121

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A010.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: RT
Client ID:
Injection: 28-JUL-2010 19:41
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.517	-0.019	514141	368763	GAS (Tol-C12)	1598268	76
C8	1.679	-0.015	287076	219985	DIESEL (C12-C24)	2425733	92
C10	2.459	0.004	526070	361774	M.OIL (C24-C38)	2580605	202
C12	3.102	0.011	705102	359778	AK-102 (C10-C25)	3167879	109
C14	3.656	0.015	709667	369366	AK-103 (C25-C36)	2254193	450
C16	4.147	0.018	748678	378104			
C18	4.594	0.025	597504	389741			
C20	5.109	0.036	506632	399062			
C22	5.624	0.035	543393	407898			
C24	6.058	0.038	581384	415443			
C25	6.254	0.041	732950	574610			
C26	6.434	0.042	563052	414700			
C28	6.769	0.046	524645	402665			
C32	7.355	0.046	442076	355003	JP-4 (Tol-C14)	1979943	121
C34	7.657	0.060	305593	316465	BUNKERC (C10-C38)	5745980	655
Filter Peak	8.342	-0.001	1743	1072			
C36	8.026	0.081	206132	287767			
C38	8.492	0.112	129300	109189			
C40	9.087	0.151	90977	37584			
o-terph	4.767	0.000	1717828	1429326	JET-A (C10-C18)	1904617	138
Triacon Surr	7.082	0.044	1365216	1311650	JP8 (Tol-C16)	2365997	134

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1429326	55.5	123.3
Triacontane	1311650	66.1	147.0

MM 7/30/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

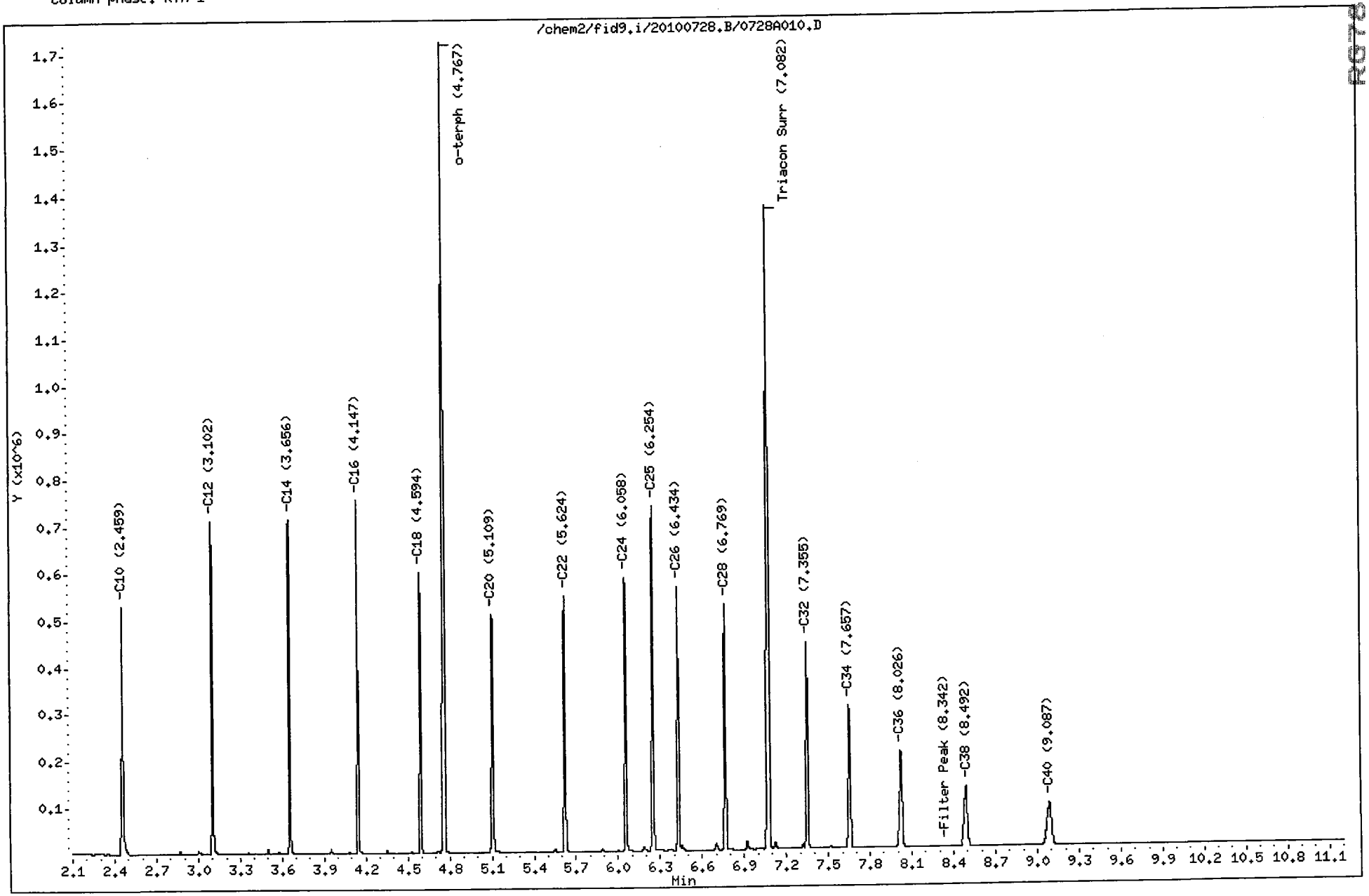
Data File: /chem2/fid9.i/20100728.B/0728A010.D
Date : 28-JUL-2010 19:41
Client ID:
Sample Info: RT

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RGTB : 61123



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A011.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: IB
Client ID:
Injection: 28-JUL-2010 20:02
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.530	-0.006	10941	17318	GAS (Tol-C12)	213324	10
C8	1.689	-0.004	6937	4554	DIESEL (C12-C24)	27462	1
C10	2.452	-0.003	2699	2277	M.OIL (C24-C38)	135692	11
C12	3.103	0.012	581	482	AK-102 (C10-C25)	59825	2
C14	3.647	0.006	145	62	AK-103 (C25-C36)	103591	21
C16	4.132	0.003	47	14			
C18	4.567	-0.002	71	44			
C20	5.077	0.005	81	41			
C22	5.586	-0.003	141	94			
C24	6.011	-0.009	520	631			
C25	6.214	0.002	168	71			
C26	6.389	-0.003	226	197			
C28	6.736	0.013	375	109			
C32	7.298	-0.011	1141	226	JP-4 (Tol-C14)	221641	14
C34	7.601	0.004	1286	813	BUNKERC (C10-C38)	194987	22
Filter Peak	8.344	0.001	1309	1007			
C36	7.945	0.001	1333	1009			
C38	8.378	-0.003	1295	257			
C40	8.936	0.001	1347	505			
o-terph	4.769	0.002	1793639	1571761	JET-A (C10-C18)	48714	4
Triacon Surr	7.081	0.043	1256163	1194769	JP8 (Tol-C16)	226922	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1571761	61.0	135.6
Triacontane	1194769	60.2	133.9

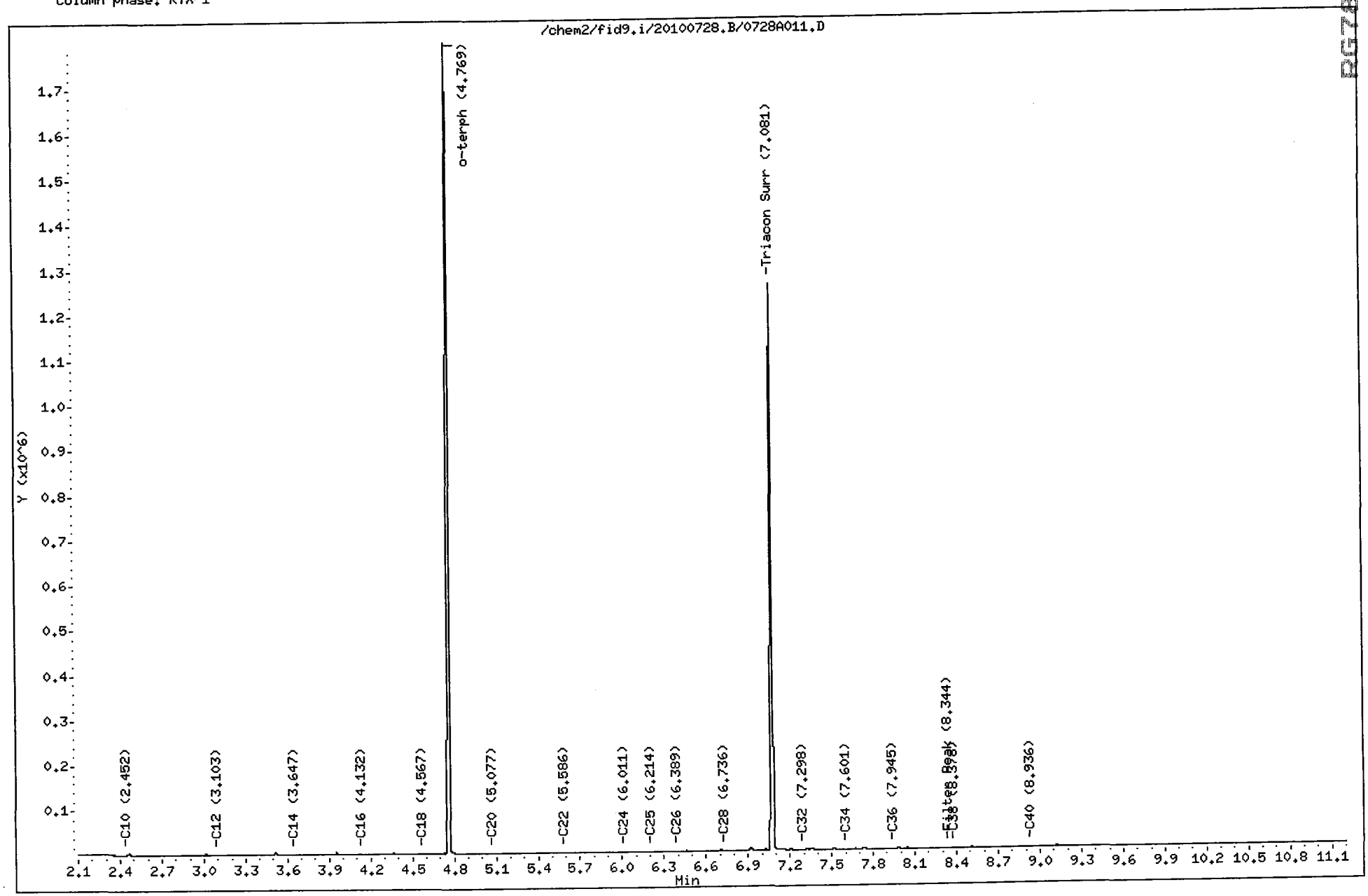
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A011.D
Date : 28-JUL-2010 20:02
Client ID:
Sample Info: IB

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A012.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 50
Client ID:
Injection: 28-JUL-2010 20:24
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.545	0.009	7102	15475	GAS (Tol-C12)	304122	14	
C8	1.699	0.005	4935	5847	DIESEL (C12-C24)	1289892	49	
C10	2.459	0.004	6197	8547	M.OIL (C24-C38)	72828	6	
C12	3.101	0.010	13983	8220	AK-102 (C10-C25)	1422020	49	M
C14	3.623	-0.018	9291	10648	AK-103 (C25-C36)	50537	10	
C16	4.138	0.009	11473	15225				
C18	4.565	-0.004	9397	11253				
C20	5.072	-0.001	4990	3711				
C22	5.592	0.004	2910	2637				
C24	6.019	-0.001	1136	455				
C25	6.225	0.013	442	364				
C26	6.395	0.003	185	147				
C28	6.710	-0.013	1703	1464				
C32	7.303	-0.006	467	137	JP-4 (Tol-C14)	499108	30	
C34	7.594	-0.002	729	202	BUNKERC (C10-C38)	1491900	170	M
Filter Peak	8.346	0.003	768	227				
C36	7.939	-0.006	787	1098				
C38	8.383	0.003	750	640				
C40	8.938	0.003	800	514				
o-terph	4.760	-0.007	374938	229869	JET-A (C10-C18)	997196	72	
Triacon Surr	7.038	0.000	197	80	JP8 (Tol-C16)	827113	47	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	229869	8.9	19.8
Triacontane	80	0.0	0.0

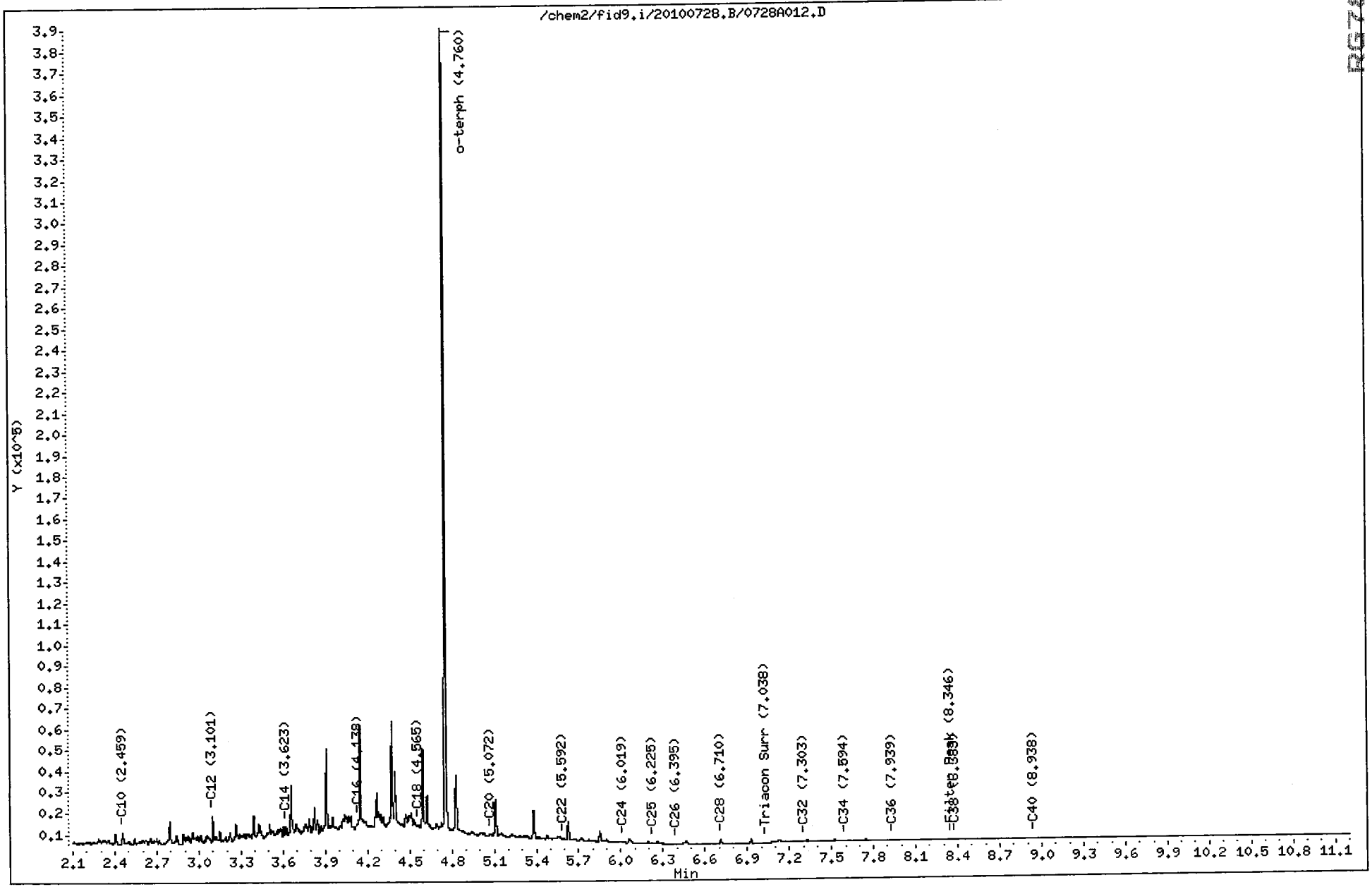
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A012.D
Date : 28-JUL-2010 20:24
Client ID:
Sample Info: DIESEL 50

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



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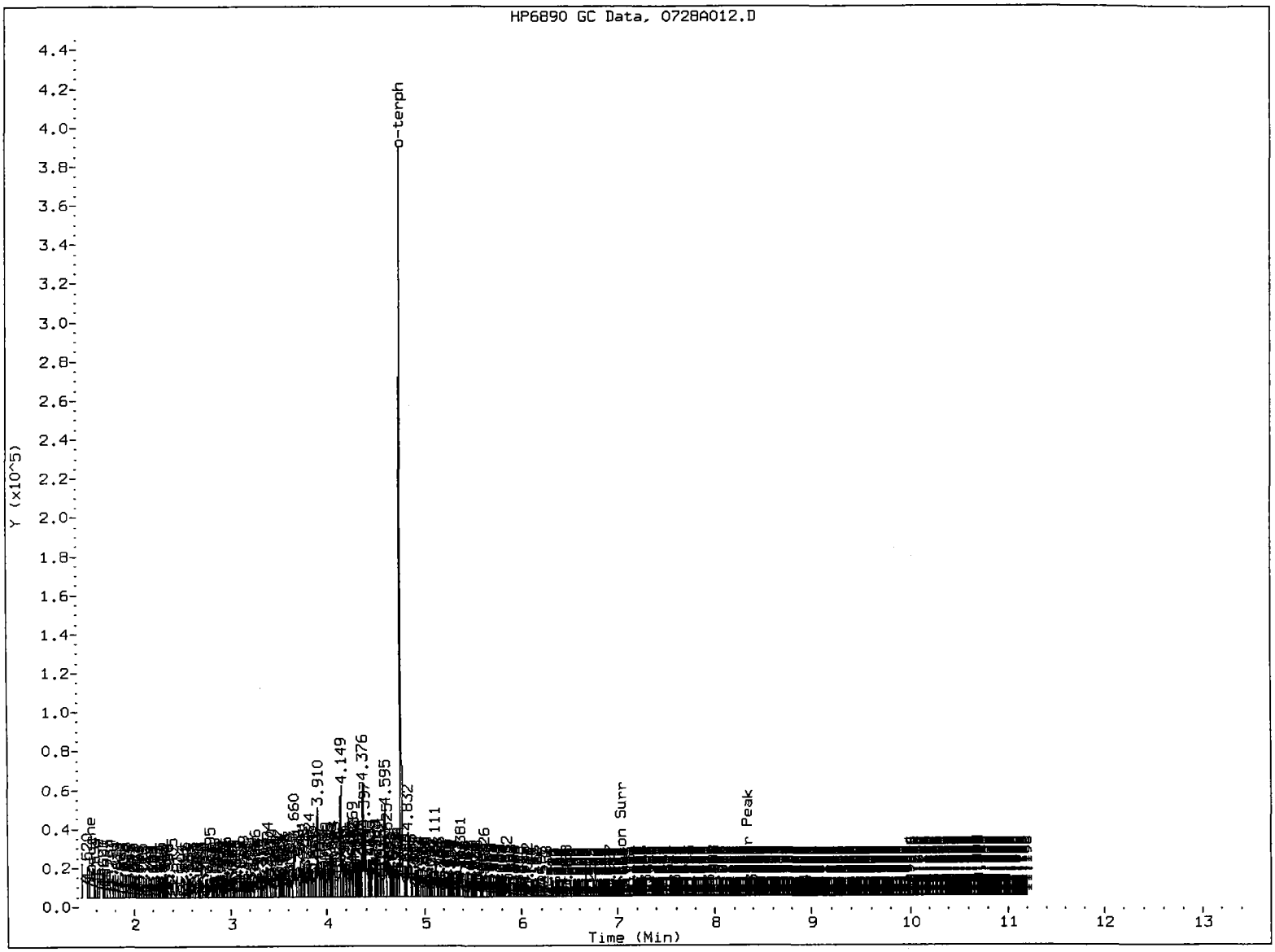


MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MM Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A013.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 100
Client ID:
Injection: 28-JUL-2010 20:45
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.545	0.009	9394	12882	GAS (Tol-C12)	449059	21	
C8	1.703	0.009	5426	7074	DIESEL (C12-C24)	2602087	99	
C10	2.452	-0.003	3226	2569	M.OIL (C24-C38)	87640	7	
C12	3.103	0.012	29285	17940	AK-102 (C10-C25)	2864062	99	M
C14	3.659	0.018	59261	58165	AK-103 (C25-C36)	61637	12	
C16	4.123	-0.005	19941	17906				
C18	4.567	-0.002	19222	19309				
C20	5.075	0.002	10542	10663				
C22	5.588	0.000	5975	5552				
C24	6.023	0.003	2217	1308				
C25	6.197	-0.015	2531	4056				
C26	6.406	0.015	394	352				
C28	6.710	-0.013	3648	2966				
C32	7.307	-0.002	362	195	JP-4 (Tol-C14)	845763	52	
C34	7.593	-0.004	637	240	BUNKERC (C10-C38)	2943973	336	M
Filter Peak	8.338	-0.005	643	405				
C36	7.942	-0.002	671	500				
C38	8.378	-0.002	638	365				
C40	8.938	0.002	649	435				
o-terph	4.762	-0.005	704196	457301	JET-A (C10-C18)	2010708	146	
Triacon Surr	7.036	-0.002	119	42	JP8 (Tol-C16)	1503559	85	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	457301	17.8	39.4
Triacontane	42	0.0	0.0

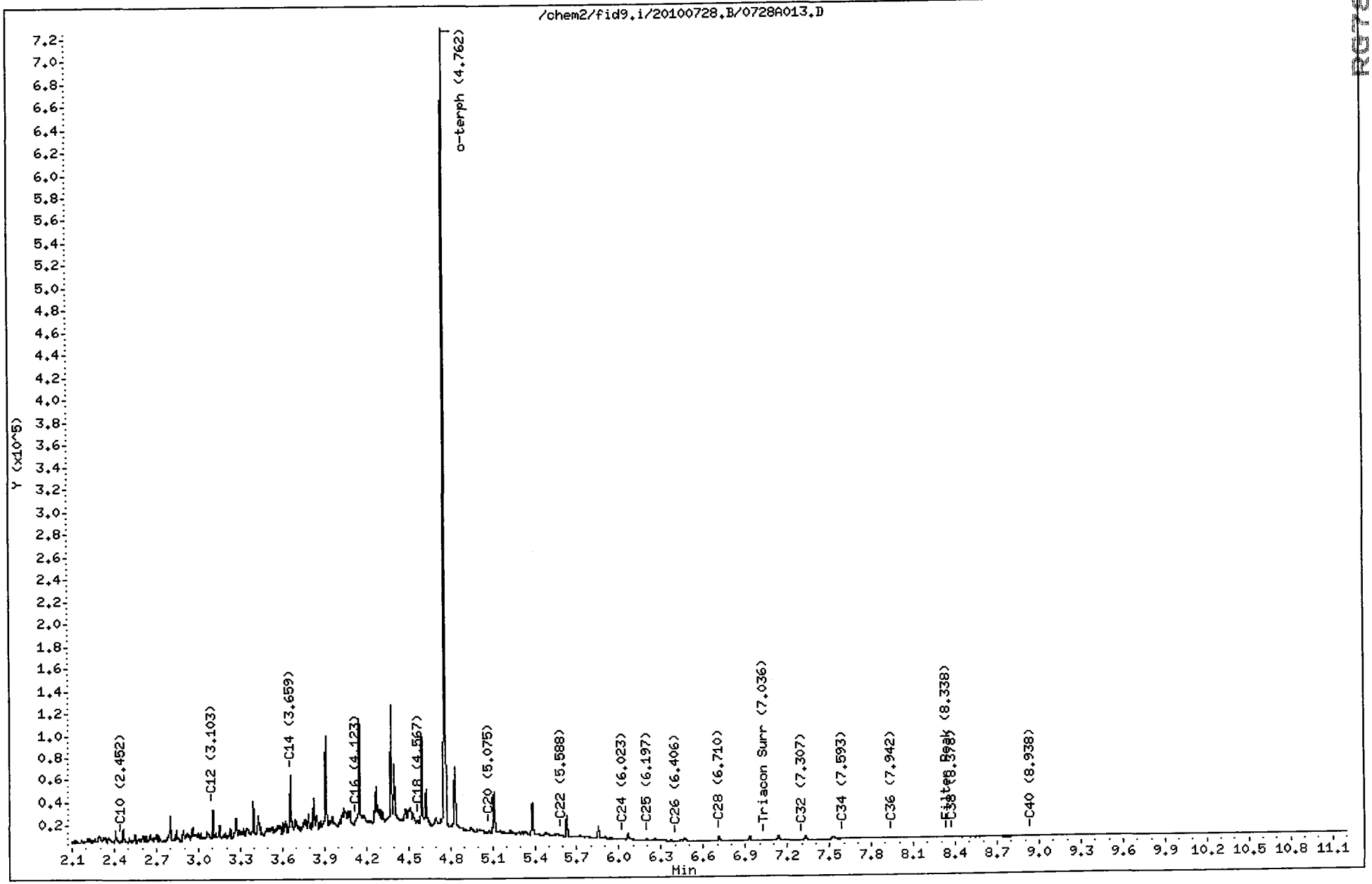
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A013.D
Date : 28-JUL-2010 20:45
Client ID:
Sample Info: DIESEL 100

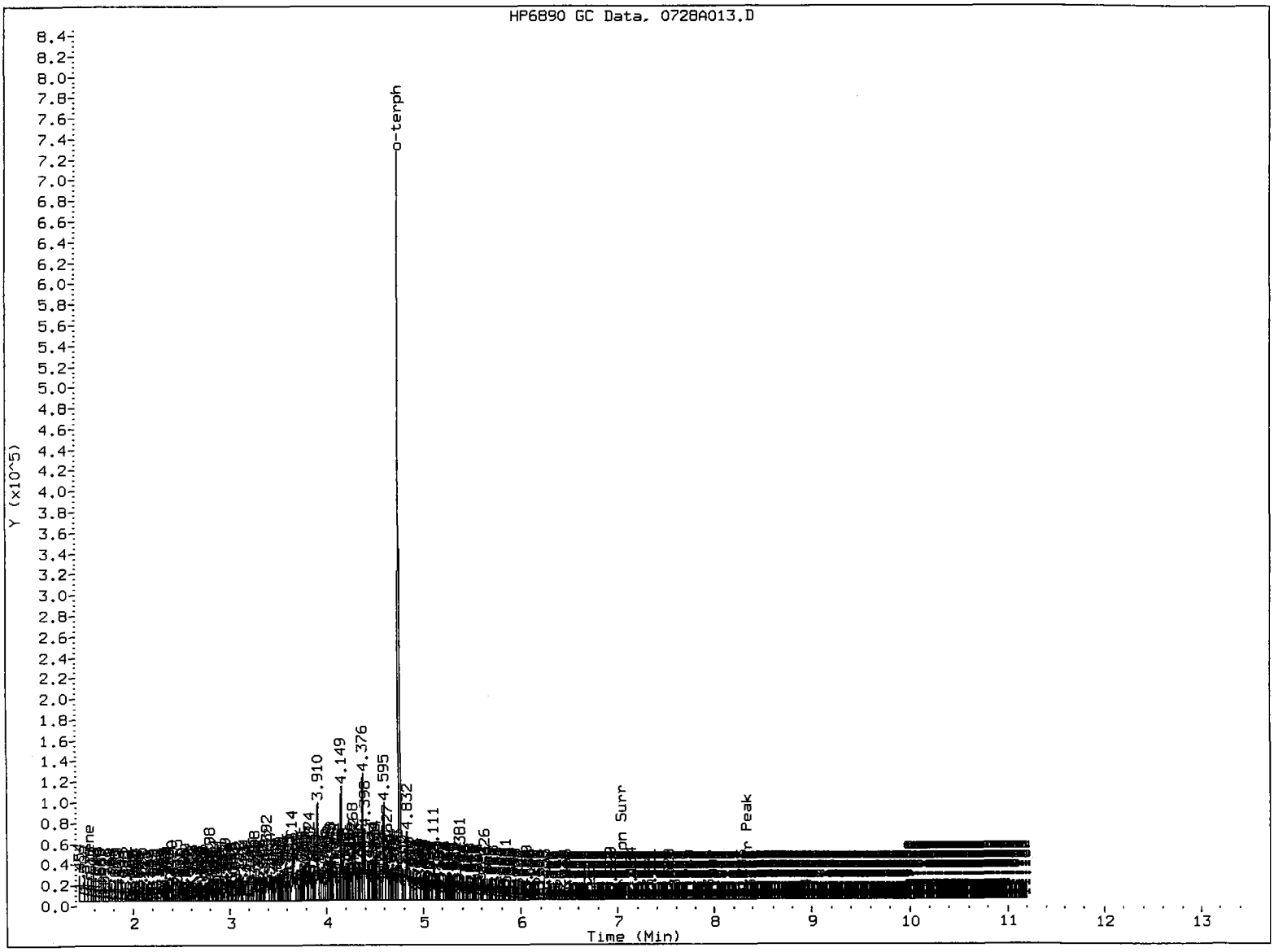
Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



FID:9A-2C/RTX-1 DIESEL 100 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/08

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A014.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 250
Client ID:
Injection: 28-JUL-2010 21:07
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.542	0.006	14752	16460	GAS (Tol-C12)	999032	48	
C8	1.700	0.006	8159	9848	DIESEL (C12-C24)	6571699	250	
C10	2.450	-0.005	6508	5183	M.OIL (C24-C38)	128061	10	
C12	3.102	0.011	80325	46536	AK-102 (C10-C25)	7261009	250	M
C14	3.657	0.016	148765	146845	AK-103 (C25-C36)	95793	19	
C16	4.122	-0.007	48814	34422				
C18	4.567	-0.002	47241	38471				
C20	5.073	0.001	26043	28336				
C22	5.589	0.000	14890	4727				
C24	6.028	0.008	5981	4805				
C25	6.201	-0.012	6774	13133				
C26	6.387	-0.005	1514	1078				
C28	6.716	-0.007	5763	5256				
C32	7.308	-0.001	228	49	JP-4 (Tol-C14)	2097448	128	
C34	7.600	0.003	463	110	BUNKERC (C10-C38)	7369358	840	M
Filter Peak	8.344	0.001	446	316				
C36	7.941	-0.004	482	433				
C38	8.377	-0.004	442	324				
C40	8.935	0.000	425	91				
o-terph	4.771	0.004	1353388	1159153	JET-A (C10-C18)	5066220	367	
Triacon Surr	7.038	0.000	49	14	JP8 (Tol-C16)	3698235	210	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159153	45.0	100.0
Triacontane	14	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

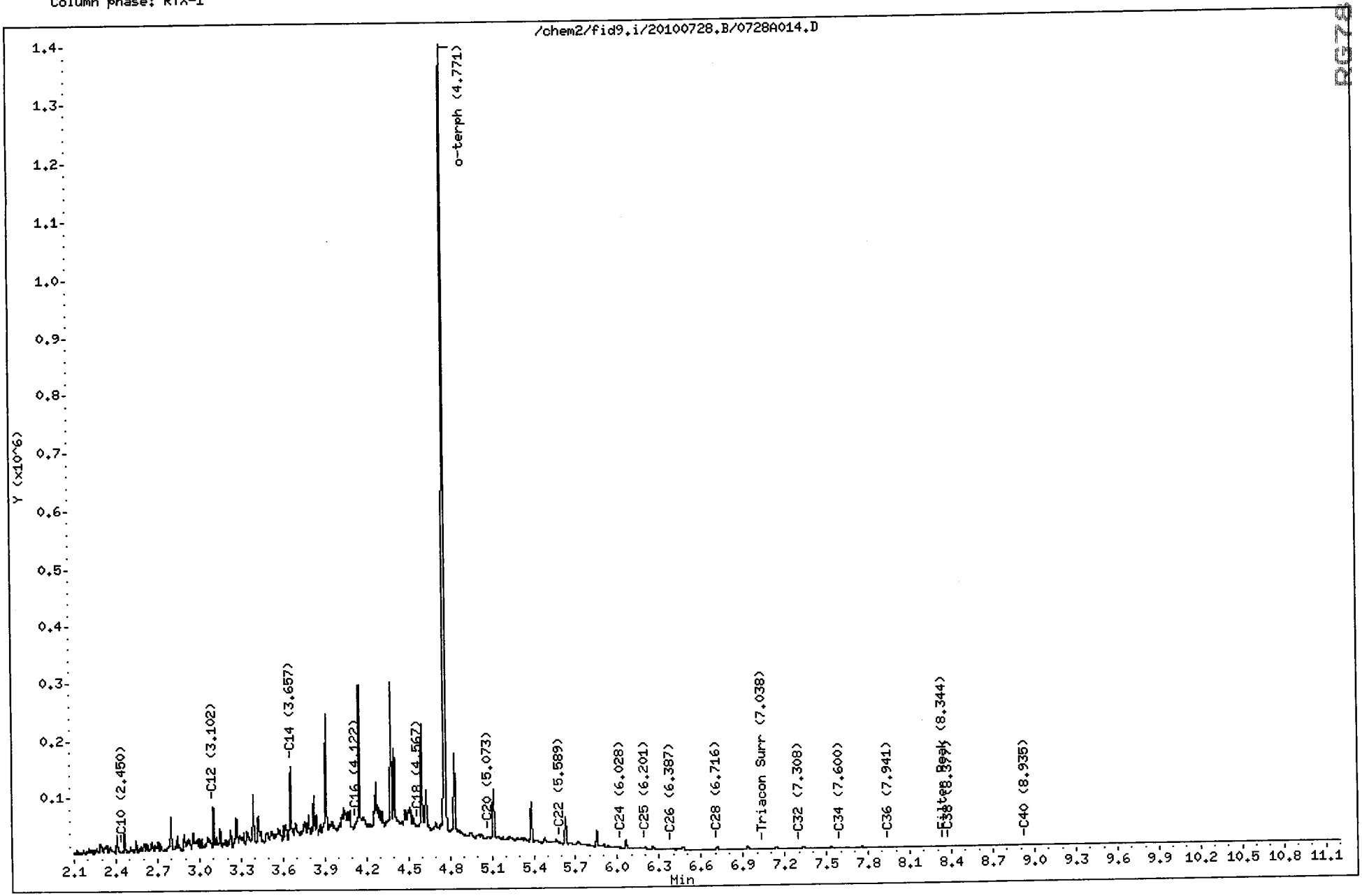
Data File: /chem2/fid9.i/20100728.B/0728A014.D
Date : 28-JUL-2010 21:07
Client ID:
Sample Info: DIESEL 250

Column phase: RTX-1

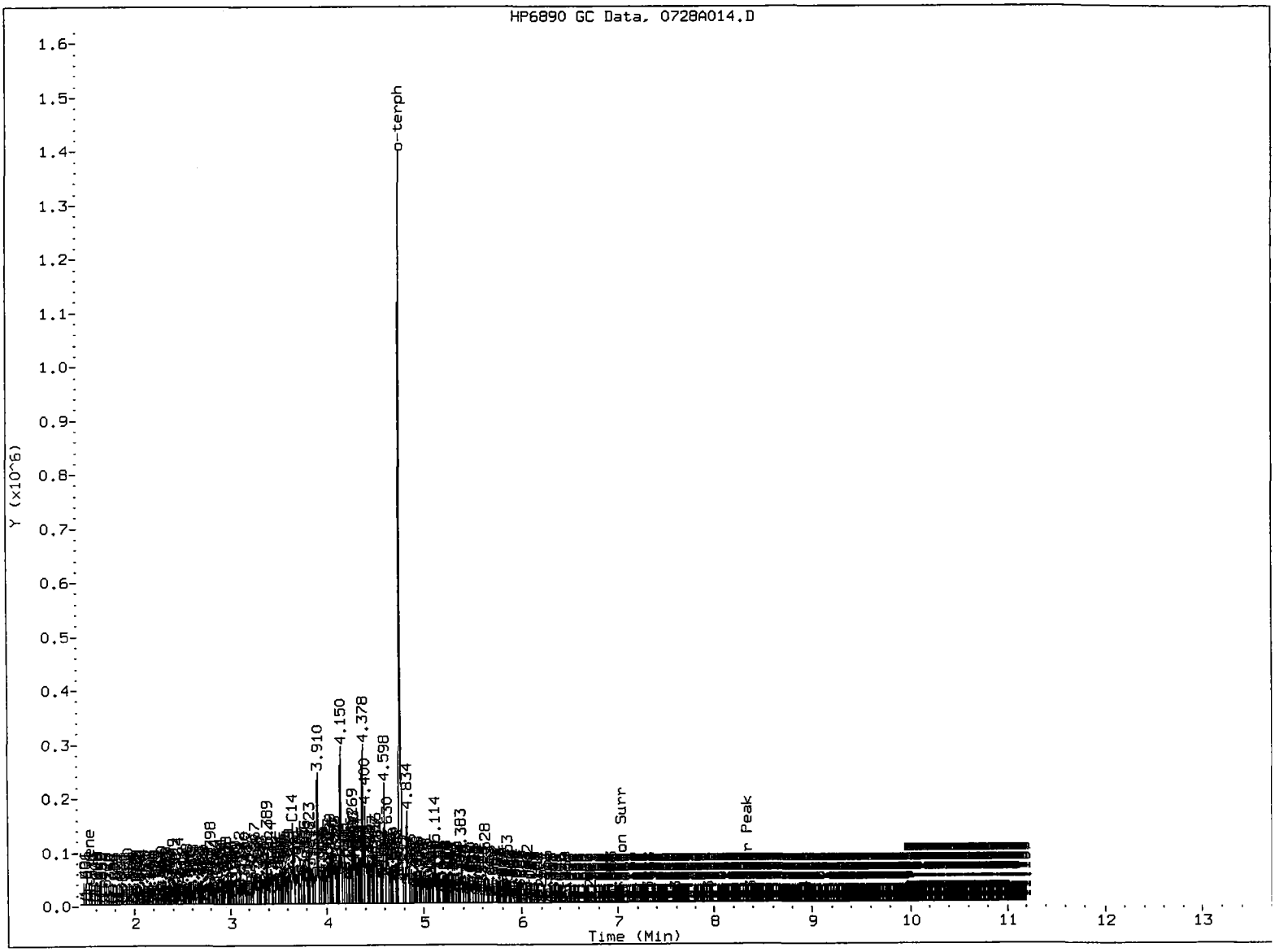
Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RG78-91133



FID:9A-2C/RTX-1 DIESEL 250 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/08

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A015.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 500
Client ID:
Injection: 28-JUL-2010 21:28
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.550	0.014	24092	21960	GAS (Tol-C12)	1901504	91	
C8	1.707	0.013	12840	13683	DIESEL (C12-C24)	13349530	507	
C10	2.453	-0.002	10841	4396	M.OIL (C24-C38)	182963	14	
C12	3.103	0.012	165409	95735	AK-102 (C10-C25)	14740415	507	M
C14	3.658	0.017	311239	296922	AK-103 (C25-C36)	133392	27	
C16	4.122	-0.006	99870	66038				
C18	4.564	-0.005	95431	110341				
C20	5.074	0.002	52479	17444				
C22	5.584	-0.004	30444	11329				
C24	6.031	0.011	12477	13304				
C25	6.201	-0.012	7950	11851				
C26	6.392	0.000	3328	3066				
C28	6.713	-0.010	2681	3159				
C32	7.307	-0.002	133	71	JP-4 (Tol-C14)	4128068	252	
C34	7.599	0.003	311	54	BUNKERC (C10-C38)	14881360	1697	M
Filter Peak	8.347	0.003	266	158				
C36	7.946	0.002	325	199				
C38	8.380	0.000	252	200				
C40	8.933	-0.002	215	132				
o-terph	4.780	0.013	2231500	2341636	JET-A (C10-C18)	10357341	749	
Triacon Surr	7.035	-0.003	24	5	JP8 (Tol-C16)	7327543	416	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2341636	90.9	202.0
Triacontane	5	0.0	0.0

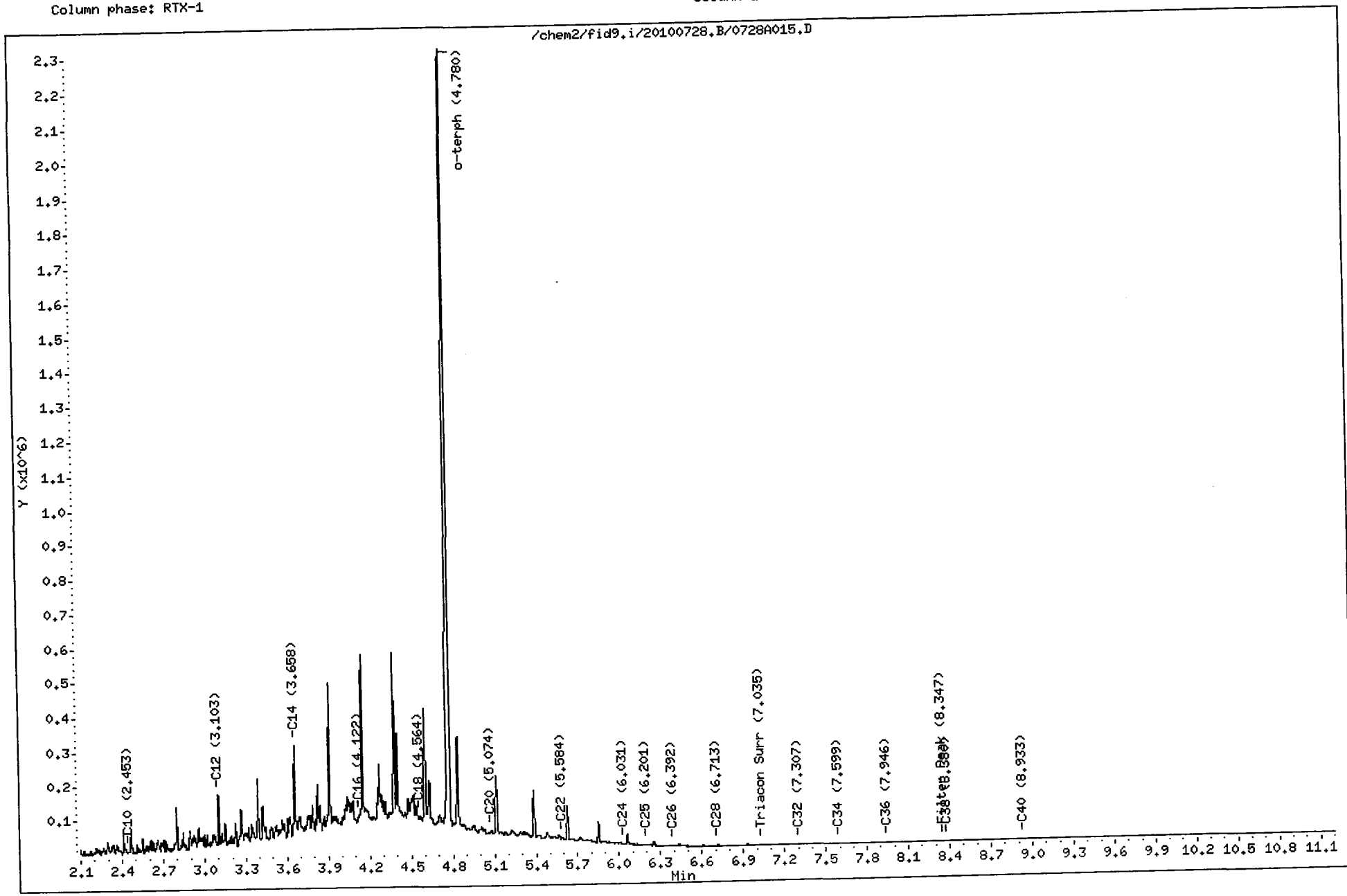
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A015.D
Date : 28-JUL-2010 21:28
Client ID:
Sample Info: DIESEL 500

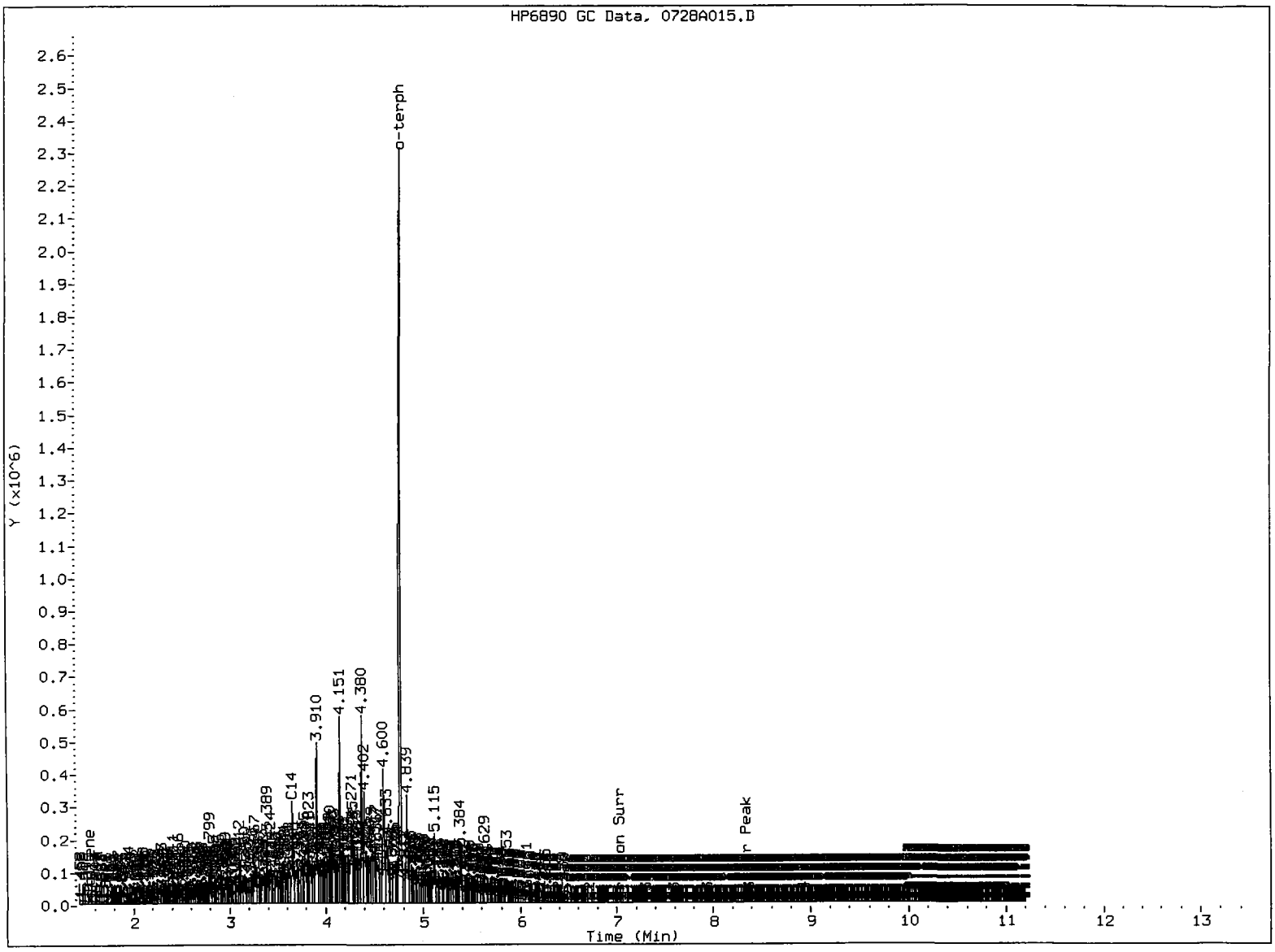
Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



FID:9A-2C/RTX-1 DIESEL 500 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/15

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A016.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 1000
Client ID:
Injection: 28-JUL-2010 21:49
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.522	-0.014	10876	15528	GAS (Tol-C12)	3531545	168	
C8	1.681	-0.013	9803	11090	DIESEL (C12-C24)	26257622	997	
C10	2.453	-0.002	18978	7692	M.OIL (C24-C38)	394336	31	
C12	3.105	0.014	327593	189038	AK-102 (C10-C25)	28983377	998	M
C14	3.660	0.019	587586	585940	AK-103 (C25-C36)	290957	58	
C16	4.123	-0.005	194975	156606				
C18	4.571	0.002	188327	195568				
C20	5.075	0.003	102065	48020				
C22	5.588	-0.001	60397	13108				
C24	6.012	-0.008	28768	31861				
C25	6.201	-0.011	17610	33377				
C26	6.390	-0.002	7211	10254				
C28	6.716	-0.006	7614	9107				
C32	7.302	-0.007	202	83	JP-4 (Tol-C14)	7631157	465	
C34	7.591	-0.005	294	192	BUNKERC (C10-C38)	29281417	3339	M
Filter Peak	8.345	0.002	161	90				
C36	7.947	0.002	235	162				
C38	8.386	0.006	146	81				
C40	8.938	0.002	67	15				
o-terph	4.795	0.028	3156698	4692065	JET-A (C10-C18)	20311515	1470	
Triacon Surr	7.032	-0.006	267	242	JP8 (Tol-C16)	14220053	808	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4692065	182.1	404.7
Triacontane	242	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A016.D

Date : 28-JUL-2010 21:49

Client ID:

Sample Info: DIESEL 1000

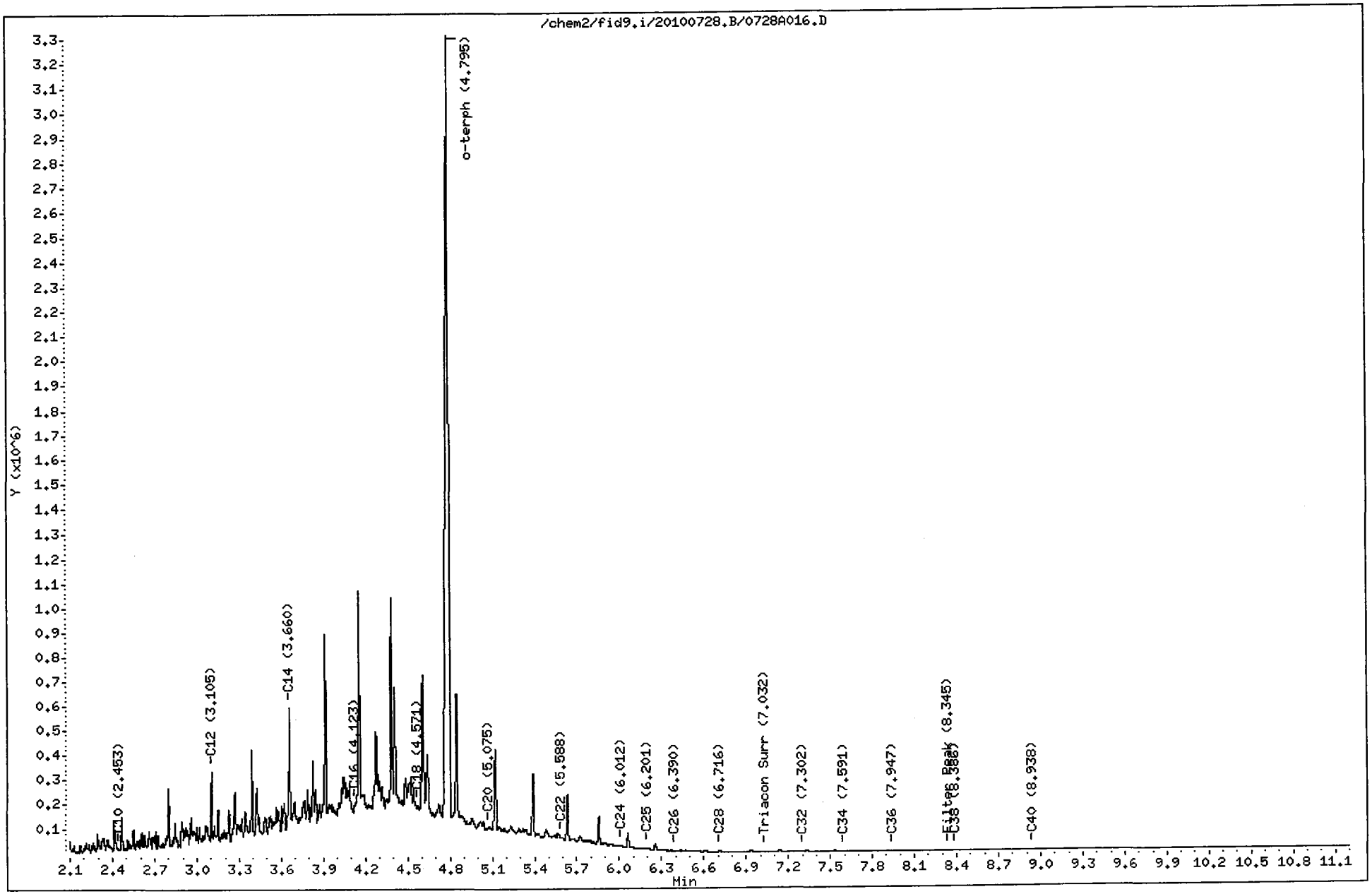
Column phase: RTX-1

Instrument: fid9.i

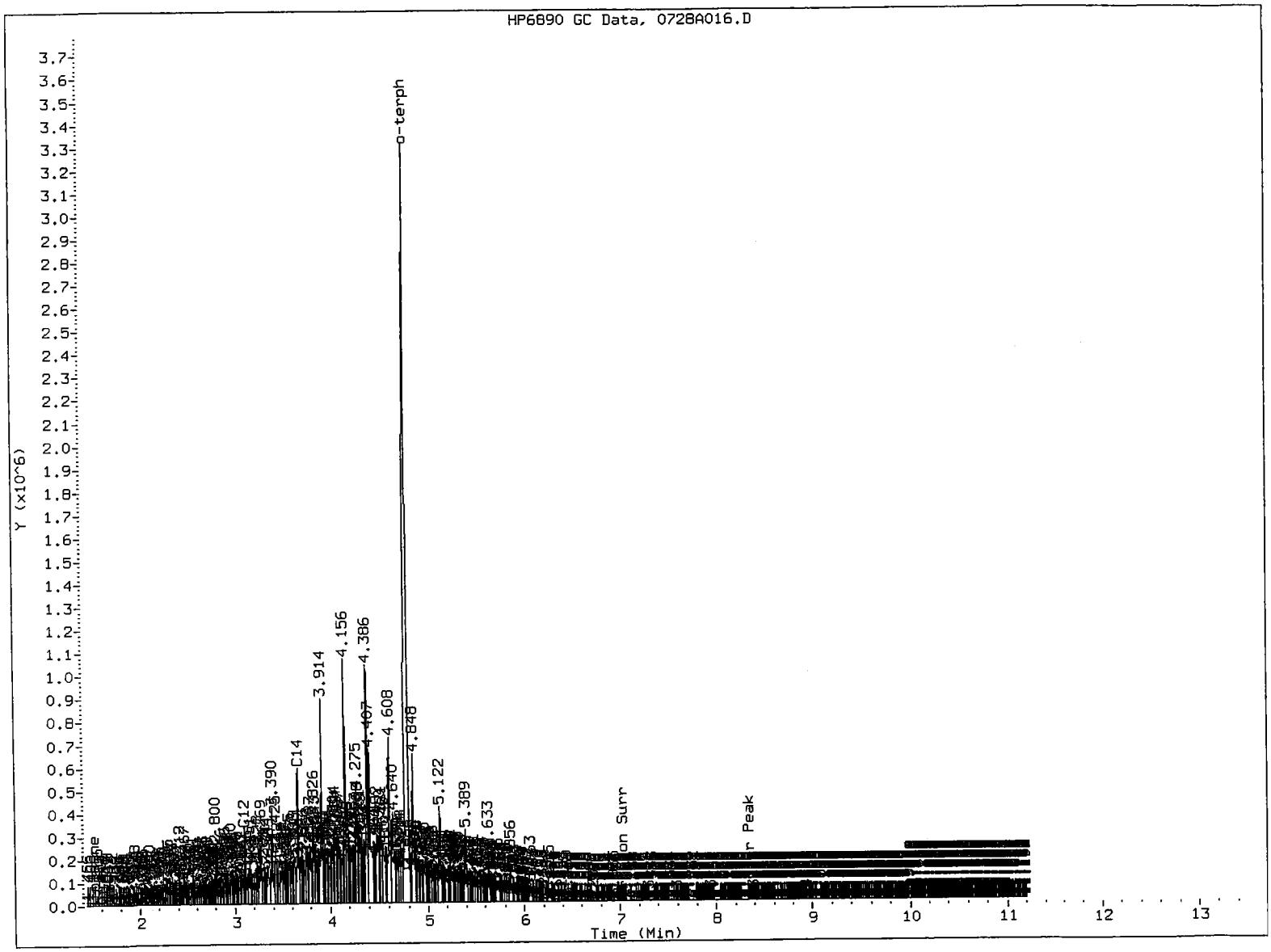
Operator: MS

Column diameter: 0.25

RG78-61139



FID:9A-2C/RTX-1 DIESEL 1000 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/15

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A017.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 2500
Client ID:
Injection: 28-JUL-2010 22:11
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.527	-0.009	13560	11562	GAS (Tol-C12)	8824002	420	
C8	1.696	0.002	11080	4589	DIESEL (C12-C24)	67315582	2557	
C10	2.446	-0.009	54486	45945	M.OIL (C24-C38)	1069546	84	
C12	3.108	0.017	766741	530976	AK-102 (C10-C25)	74315545	2558	M
C14	3.623	-0.018	472383	536342	AK-103 (C25-C36)	814815	163	
C16	4.129	0.001	485188	391044				
C18	4.575	0.006	464619	138288				
C20	5.065	-0.008	324441	293811				
C22	5.599	0.011	159352	44294				
C24	6.014	-0.006	74943	92274				
C25	6.200	-0.013	55517	125809				
C26	6.393	0.001	18866	27921				
C28	6.714	-0.009	18491	25629				
C32	7.300	-0.009	811	206	JP-4 (Tol-C14)	19257288	1174	
C34	7.598	0.002	667	236	BUNKERC (C10-C38)	75143374	8568	M
Filter Peak	8.352	0.008	294	163				
C36	7.939	-0.006	456	454				
C38	8.372	-0.008	289	303				
C40	8.930	-0.005	144	37				
o-terph	4.830	0.063	4844941	11602111	JET-A (C10-C18)	49526362	3584	
Triacon Surr	7.036	-0.002	1327	1487	JP8 (Tol-C16)	35611639	2024	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	11602111	450.4	1000.8
Triacontane	1487	0.1	0.2

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A017.D

Date : 28-JUL-2010 22:11

Client ID:

Sample Info: DIESEL 2500

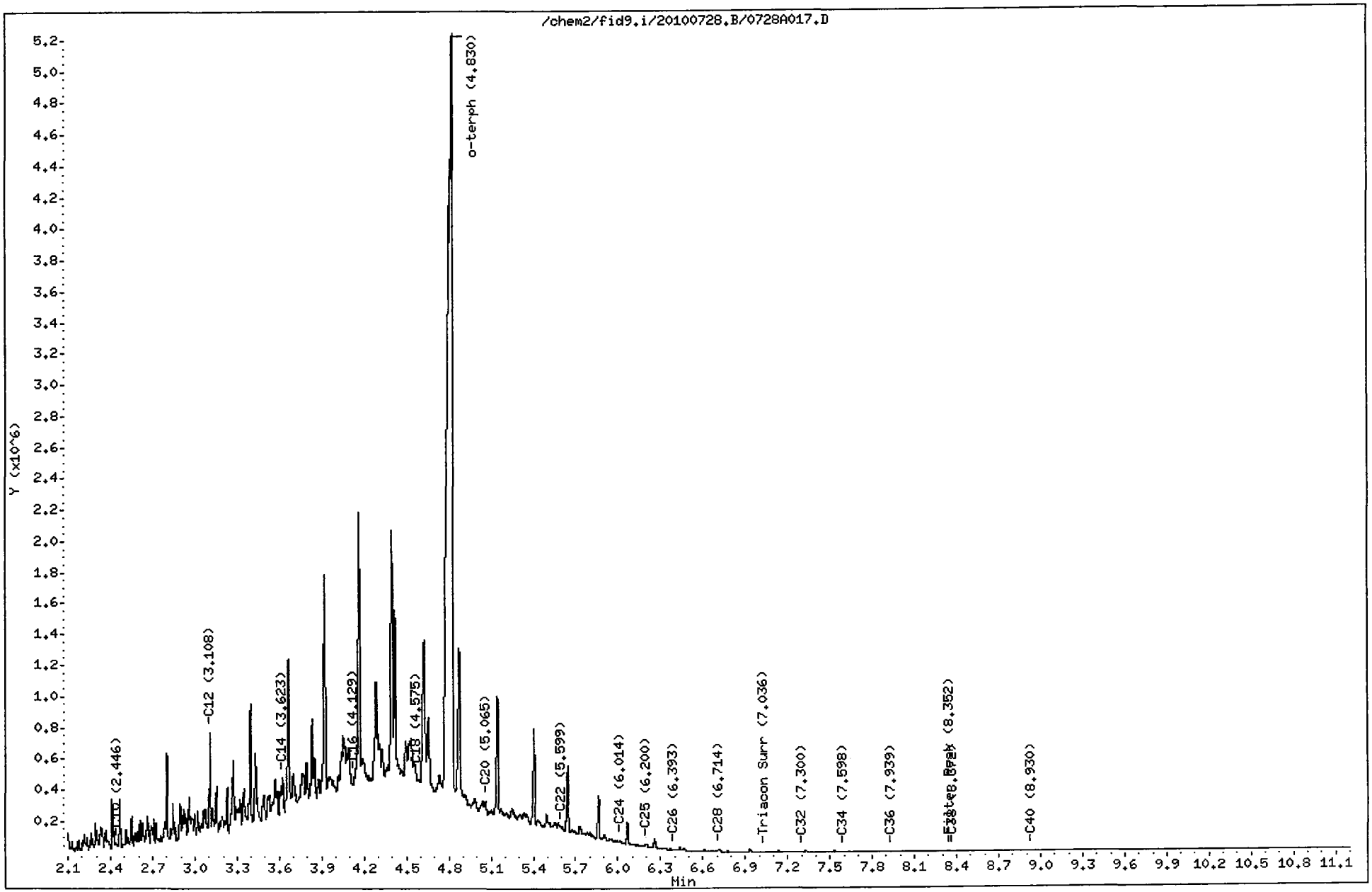
Column phase: RTX-1

Instrument: fid9.i

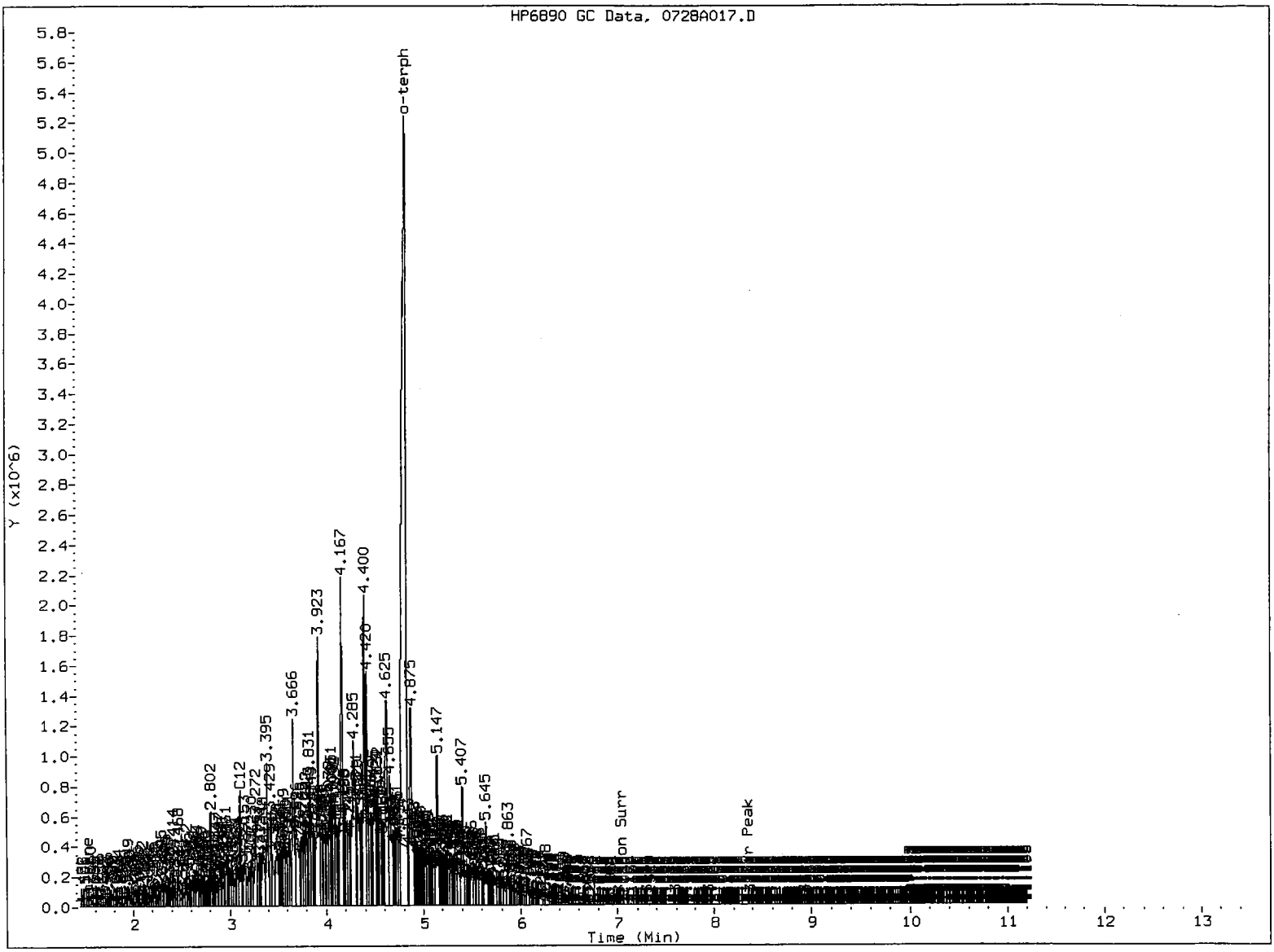
Operator: MS

Column diameter: 0.25

RG78:01142



FID:9A-2C/RTX-1 DIESEL 2500 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A018.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL ICV
Client ID:
Injection: 28-JUL-2010 22:32
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area
Toluene	1.543	0.007	16954	20227
C8	1.701	0.007	9541	12338
C10	2.452	-0.004	6974	6099
C12	3.103	0.012	84575	50749
C14	3.659	0.018	161174	159868
C16	4.125	-0.003	53296	12670
C18	4.566	-0.003	51560	65584
C20	5.072	0.000	26951	15118
C22	5.598	0.009	16514	25434
C24	6.029	0.009	6302	1731
C25	6.204	-0.009	6207	13796
C26	6.389	-0.002	1666	1190
C28	6.718	-0.005	4177	4021
C32	7.309	0.000	191	45
C34	7.596	0.000	370	71
Filter Peak	8.339	-0.004	380	324
C36	7.940	-0.004	379	284
C38	8.380	0.000	338	298
C40	8.940	0.005	284	190
o-terph	4.774	0.007	1463888	1244864
Triacon Surr	7.045	0.007	34	10

Range	Total Area	Conc
GAS (Tol-C12)	1113463	53
DIESEL (C12-C24)	7079418	269
M.OIL (C24-C38)	125009	10
AK-102 (C10-C25)	7832815	270 M
AK-103 (C25-C36)	88819	18
JP-4 (Tol-C14)	2210824	135
BUNKERC (C10-C38)	7932324	904 M
JET-A (C10-C18)	5534317	400
JP8 (Tol-C16)	4004823	228

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1244864	48.3	107.4
Triacontane	10	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A018.D

Date : 28-JUL-2010 22:32

Client ID:

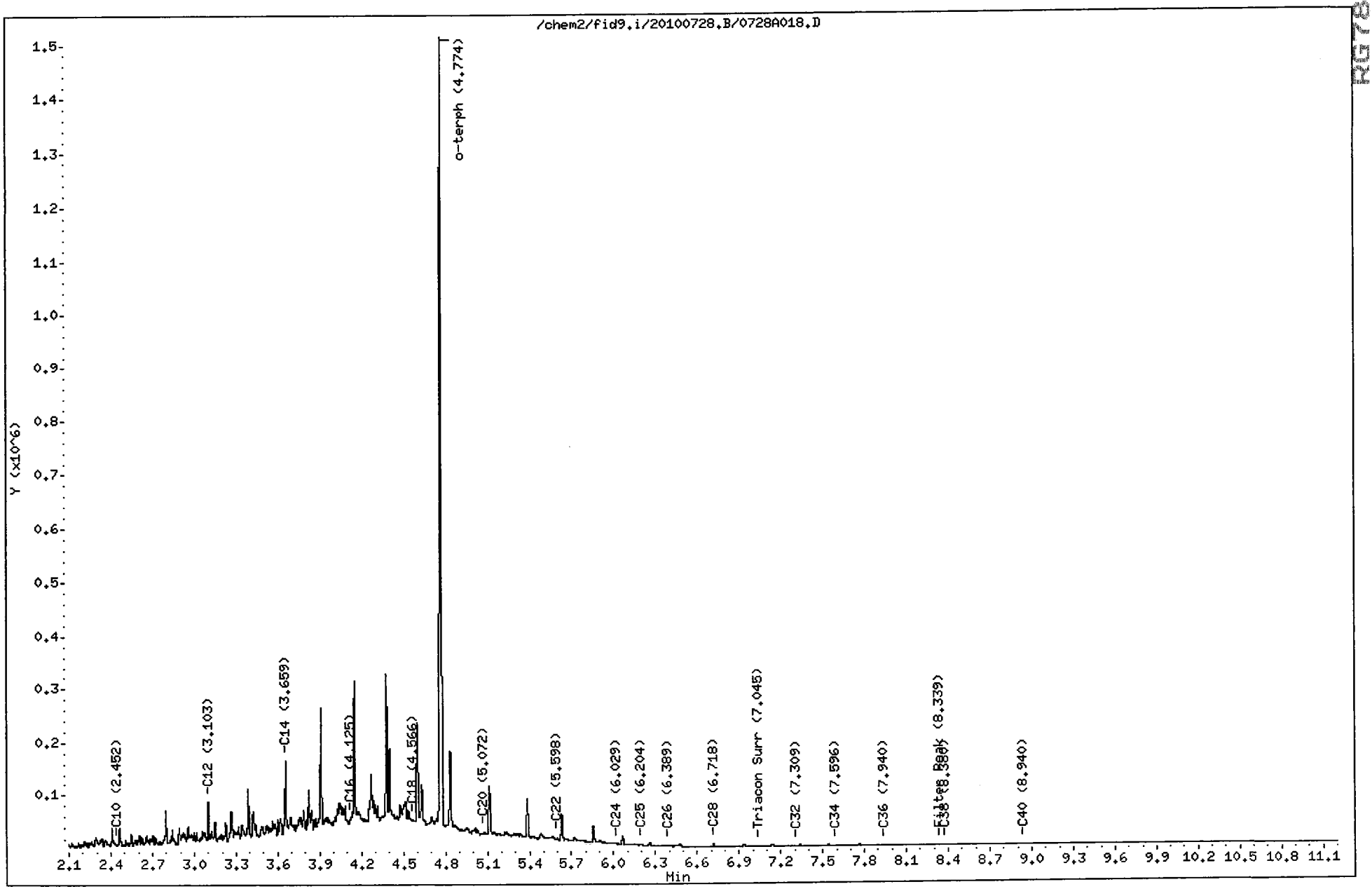
Sample Info: DIESEL ICV

Column phase: RTX-1

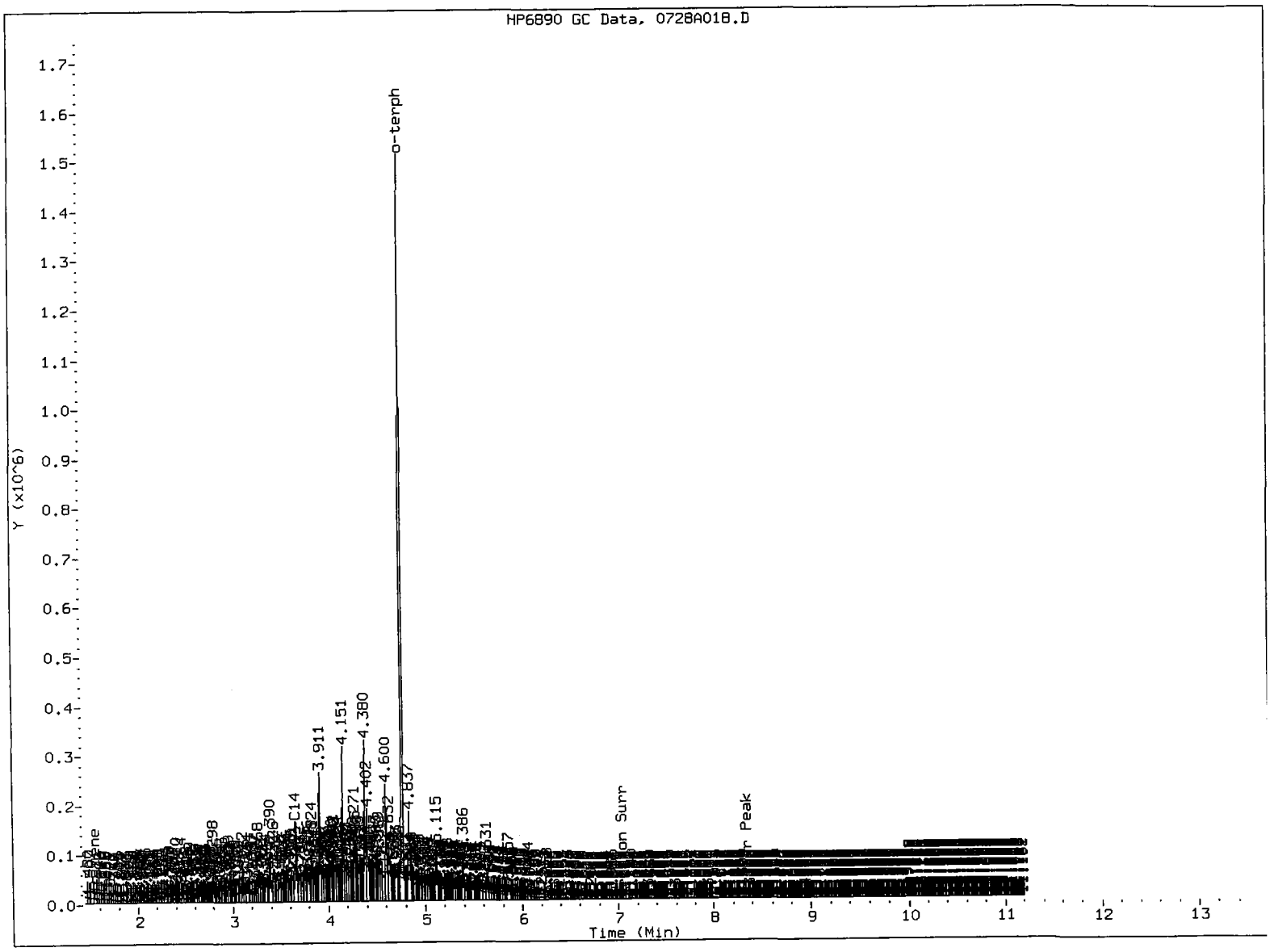
Instrument: fid9.i

Operator: MS

Column diameter: 0.25



FID:9A-2C/RTX-1 DIESEL ICV FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/16

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A019.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 100
Client ID:
Injection: 28-JUL-2010 22:53
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	7458	18695	GAS (Tol-C12)	141901	7
C8	1.726	0.033	5158	6296	DIESEL (C12-C24)	170722	6
C10	2.453	-0.002	2104	2277	M.OIL (C24-C38)	1466906	115
C12	3.087	-0.004	132	32	AK-102 (C10-C25)	227313	8
C14	3.638	-0.003	73	40	AK-103 (C25-C36)	1259769	251 M
C16	4.130	0.002	69	41			
C18	4.564	-0.005	811	866			
C20	5.075	0.003	500	282			
C22	5.588	-0.001	2108	500			
C24	6.024	0.004	5281	1867			
C25	6.222	0.010	6965	4086			
C26	6.393	0.001	8433	4859			
C28	6.715	-0.008	26196	37657			
C32	7.310	0.001	14515	3993	JP-4 (Tol-C14)	147735	9
C34	7.596	0.000	11767	4821	BUNKERC (C10-C38)	1662282	190 M
Filter Peak	8.344	0.001	6091	3946			
C36	7.940	-0.005	8533	7979			
C38	8.385	0.005	5855	2782			
C40	8.936	0.000	3917	1842			
o-terph	4.766	-0.001	1479	1425	JET-A (C10-C18)	40423	3
Triacon Surr	7.080	0.042	256627	183551	JP8 (Tol-C16)	151586	9

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1425	0.1	0.1
Triacontane	183551	9.3	20.6

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

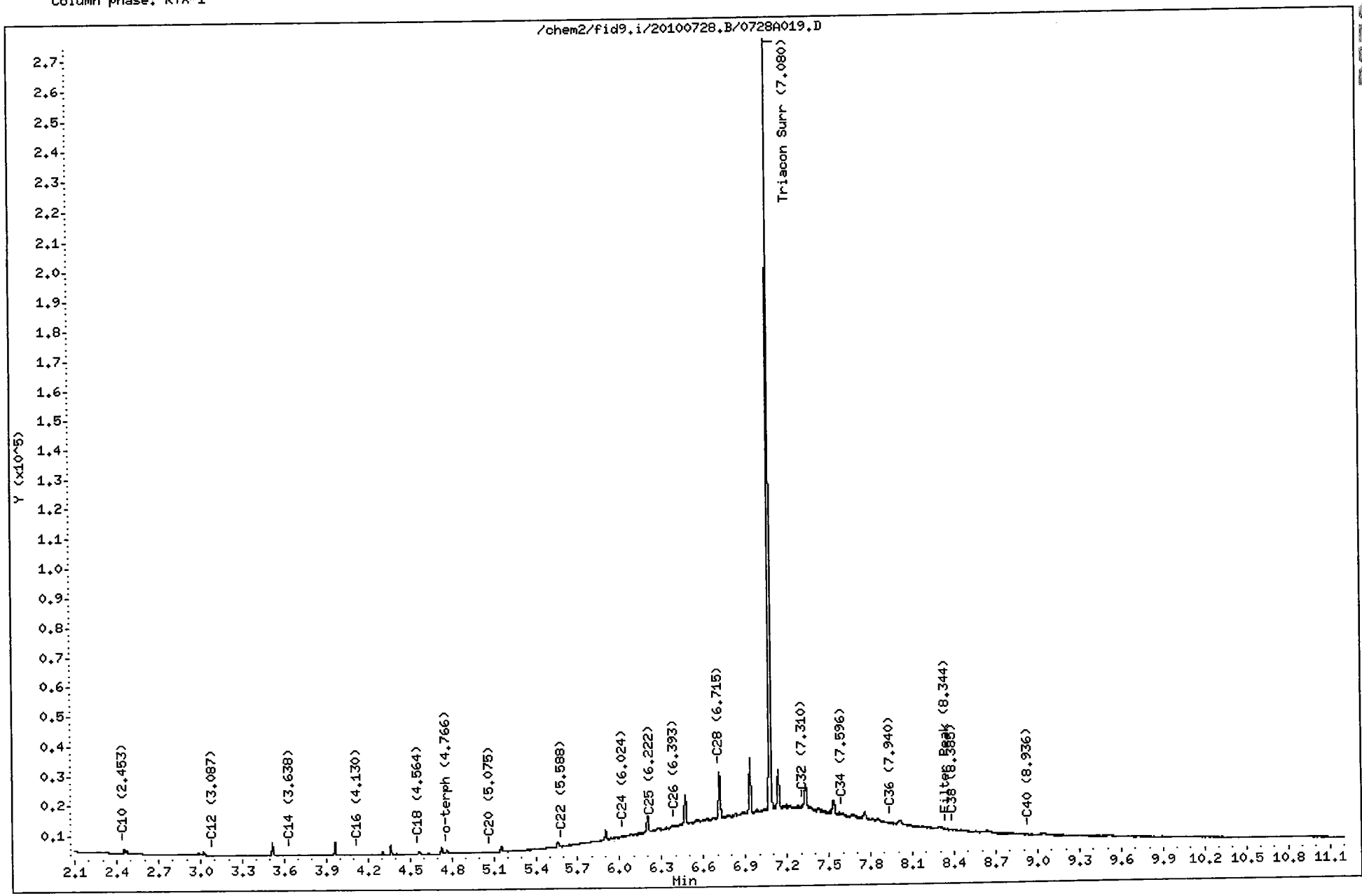
Data File: /chem2/fid9.i/20100728.B/0728A019.D
Date : 28-JUL-2010 22:53
Client ID:
Sample Info: MOIL 100

Instrument: fid9.i

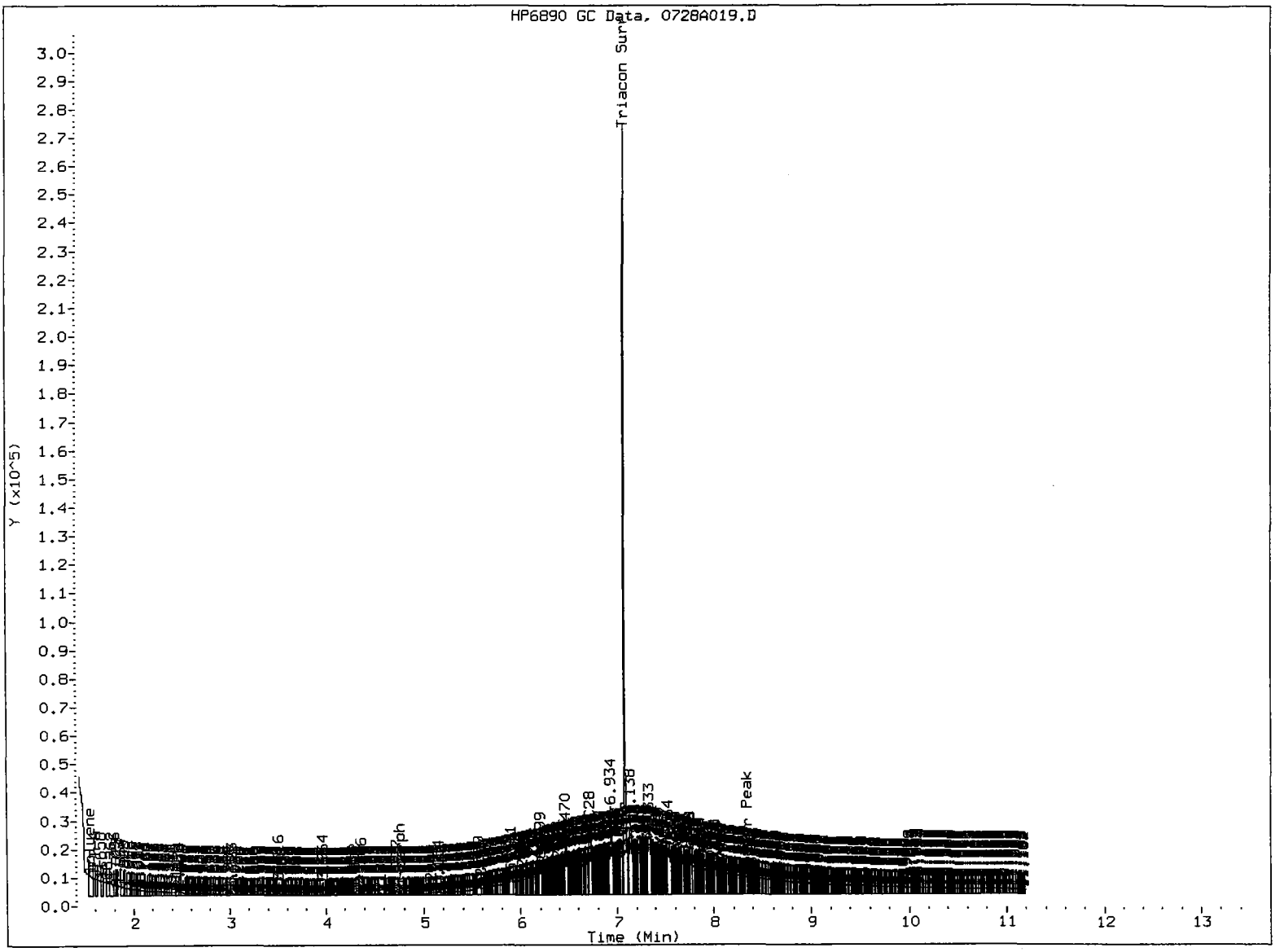
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG73-61.LIS



FID:9A-2C/RTX-1 MOIL 100 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: [signature] Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A020.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 250
Client ID:
Injection: 28-JUL-2010 23:15
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	9497	26573	GAS (Tol-C12)	196853	9
C8	1.701	0.007	5948	3882	DIESEL (C12-C24)	365810	14
C10	2.453	-0.002	2442	3279	M.OIL (C24-C38)	3266021	255
C12	3.084	-0.007	295	172	AK-102 (C10-C25)	480434	17
C14	3.641	0.000	143	28	AK-103 (C25-C36)	2796307	558 M
C16	4.130	0.002	41	6			
C18	4.564	-0.005	1875	1532			
C20	5.076	0.003	1034	1260			
C22	5.593	0.005	5116	2268			
C24	6.019	-0.001	12501	3919			
C25	6.217	0.004	16132	5120			
C26	6.394	0.003	20541	11264			
C28	6.719	-0.004	29297	45978			
C32	7.310	0.001	33294	13189	JP-4 (Tol-C14)	205495	13
C34	7.596	0.000	26975	12175	BUNKERC (C10-C38)	3666421	418 M
Filter Peak	8.341	-0.002	13586	4242			
C36	7.941	-0.004	19049	9333			
C38	8.372	-0.008	13101	10702			
C40	8.931	-0.004	8356	5723			
o-terph	4.766	-0.001	970	1169	JET-A (C10-C18)	53412	4
Triacon Surr	7.087	0.049	578614	453460	JP8 (Tol-C16)	208886	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1169	0.0	0.1
Triacontane	453460	22.9	50.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A020.D

Date : 28-JUL-2010 23:15

Client ID:

Sample Info: MOIL 250

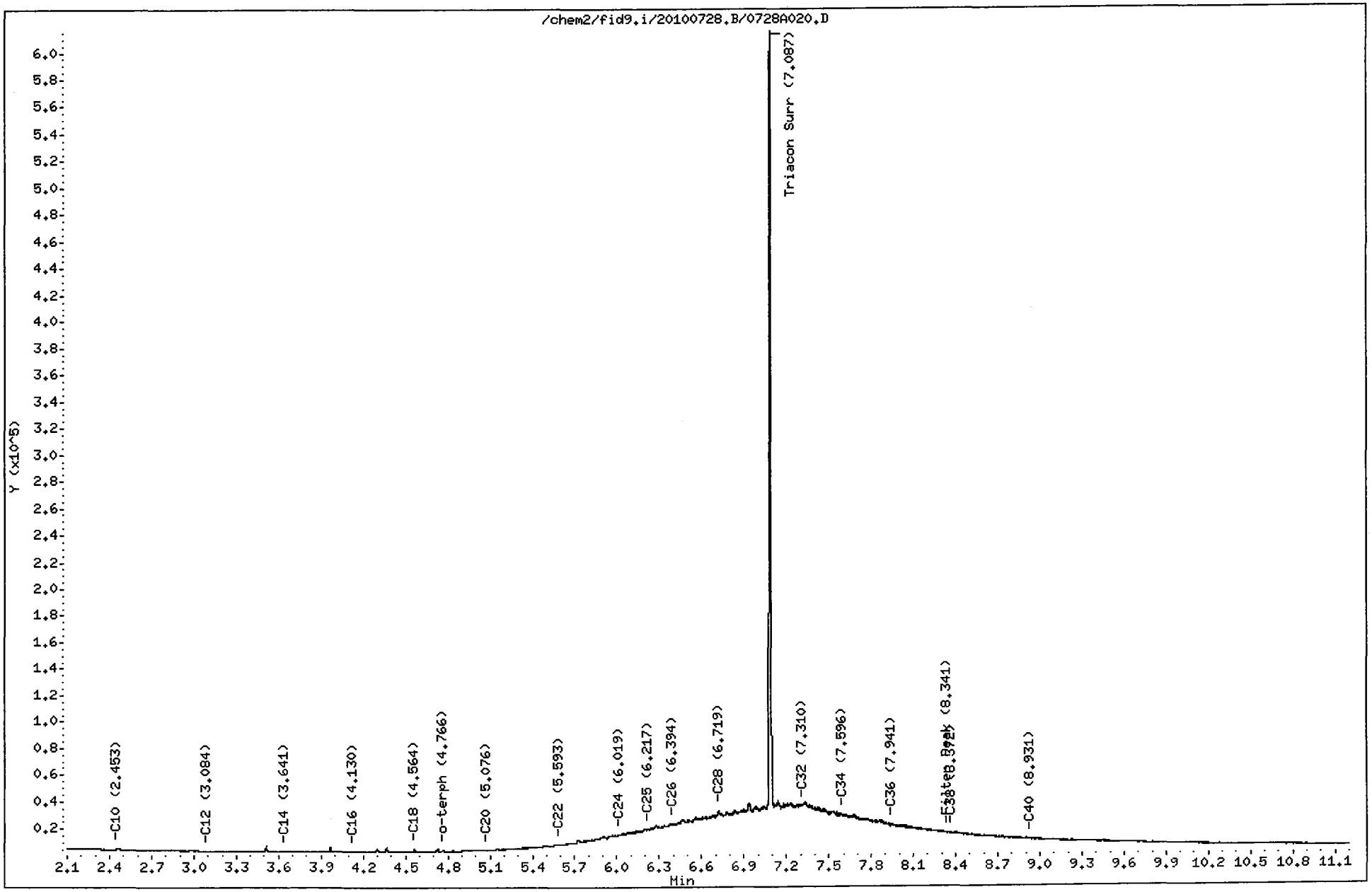
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

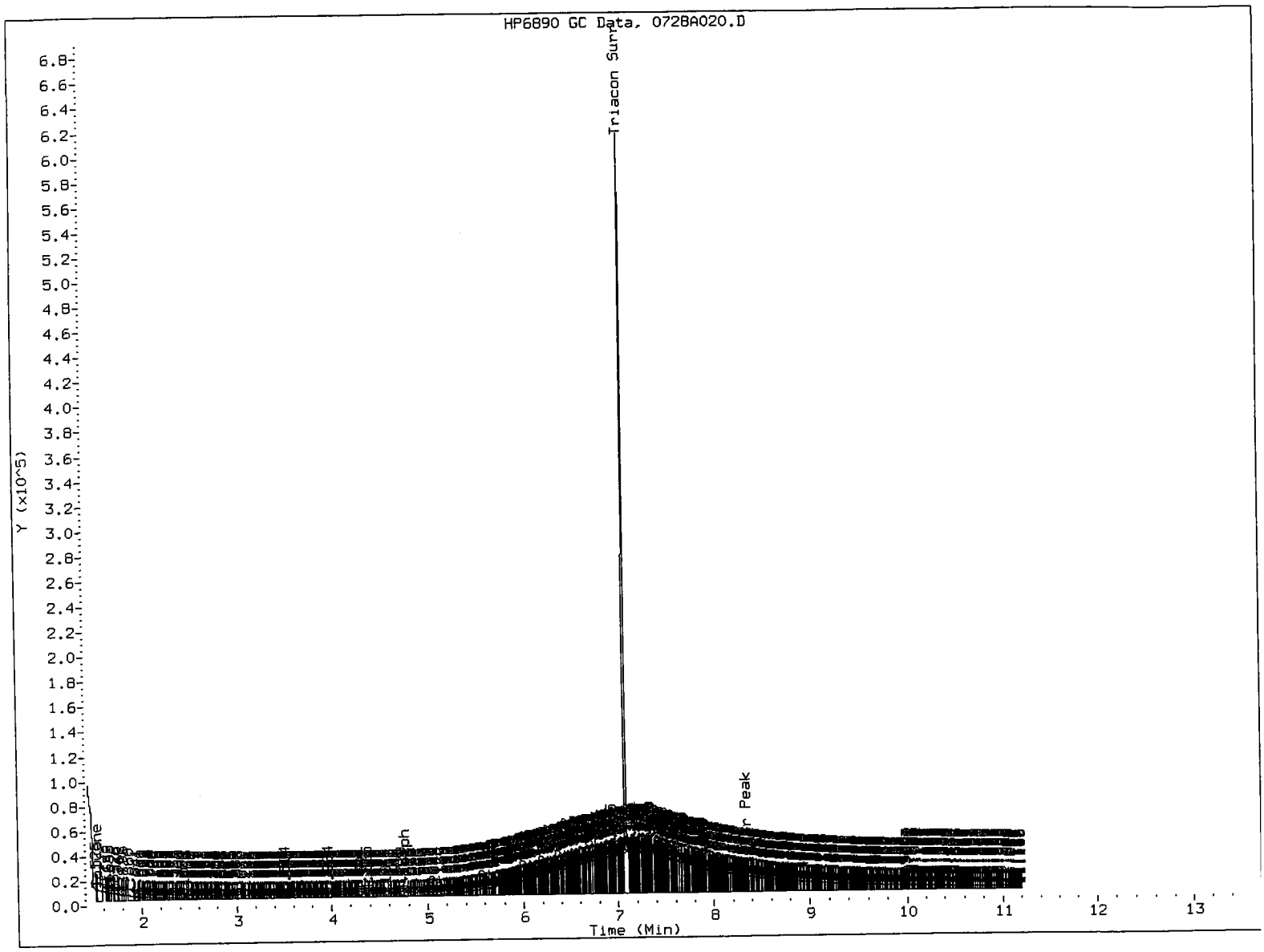
Column diameter: 0.25

RG76-01151



FID:9A-2C/RTX-1 MOIL 250

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/29/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A021.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 500
Client ID:
Injection: 28-JUL-2010 23:36
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area
Toluene	1.544	0.008	9179	20369
C8	1.728	0.034	6026	8955
C10	2.454	-0.002	2354	2271
C12	3.094	0.003	289	44
C14	3.642	0.001	195	126
C16	4.125	-0.003	40	9
C18	4.561	-0.008	3657	2936
C20	5.072	-0.001	2047	2188
C22	5.593	0.004	10080	6940
C24	6.019	-0.001	23765	7965
C25	6.211	-0.002	31744	9374
C26	6.394	0.003	39169	13151
C28	6.721	-0.002	55036	30221
C32	7.312	0.003	65826	24703
C34	7.600	0.003	52438	20690
Filter Peak	8.350	0.007	26035	6689
C36	7.944	-0.001	38444	12762
C38	8.382	0.002	26485	18398
C40	8.934	-0.002	15558	5694
o-terph	4.764	-0.003	1139	1159
Triacon Surr	7.094	0.056	990900	889470

Range	Total Area	Conc
GAS (Tol-C12)	216239	10
DIESEL (C12-C24)	681352	26
M.OIL (C24-C38)	6262414	490
AK-102 (C10-C25)	866175	30
AK-103 (C25-C36)	5350968	1068 M
JP-4 (Tol-C14)	225770	14
BUNKERC (C10-C38)	6976056	795 M
JET-A (C10-C18)	56856	4
JP8 (Tol-C16)	229628	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159	0.0	0.1
Triacontane	889470	44.8	99.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A021.D

Date : 28-JUL-2010 23:36

Client ID:

Sample Info: MOIL 500

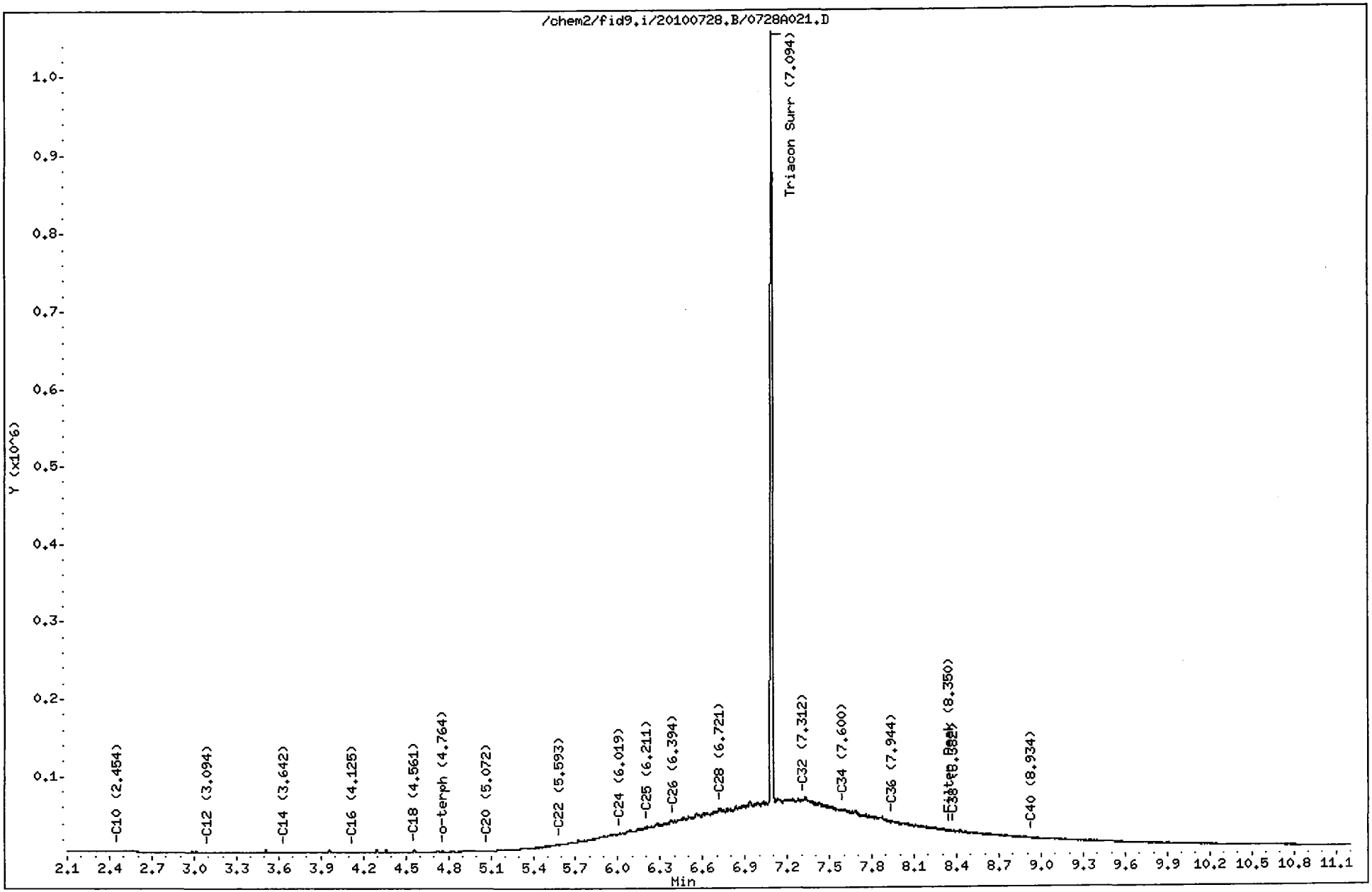
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

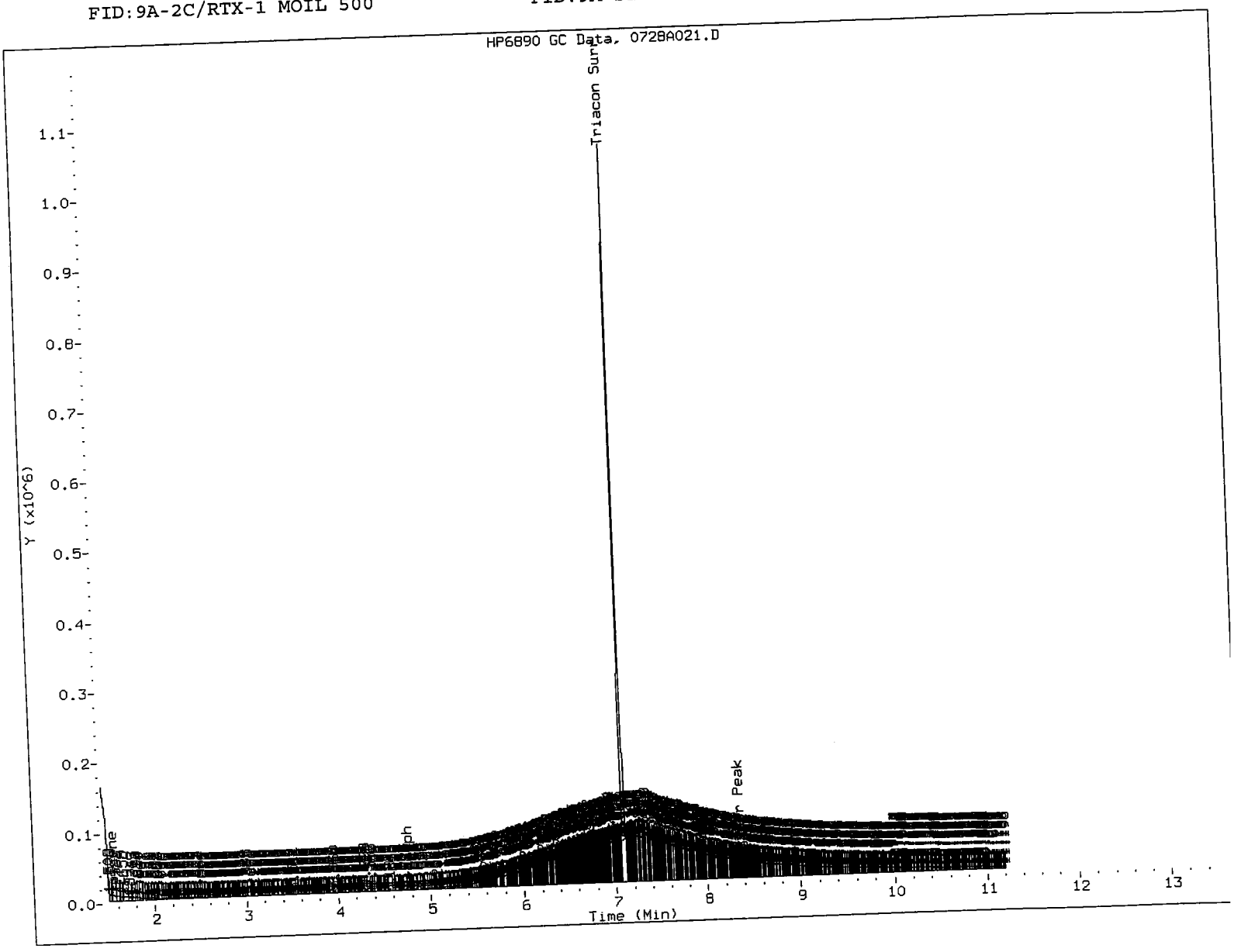
Column diameter: 0.25

RG78-01154



FID:9A-2C/RTX-1 MOIL 500

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 2/20/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A022.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 1000
Client ID:
Injection: 28-JUL-2010 23:57
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.538	0.002	10649	63178	GAS (Tol-C12)	218627	10
C8	1.703	0.010	6083	4895	DIESEL (C12-C24)	1375330	52
C10	2.453	-0.003	2350	1902	M.OIL (C24-C38)	12575741	983
C12	3.089	-0.002	381	214	AK-102 (C10-C25)	1720432	59
C14	3.639	-0.002	299	246	AK-103 (C25-C36)	10794434	2155 M
C16	4.129	0.000	79	16			
C18	4.560	-0.009	7645	6024			
C20	5.072	0.000	4064	7040			
C22	5.597	0.008	20853	24416			
C24	6.018	-0.002	49376	52041			
C25	6.213	0.001	63610	16233			
C26	6.389	-0.002	79064	34283			
C28	6.720	-0.003	107910	42122			
C32	7.310	0.001	130942	41405	JP-4 (Tol-C14)	231895	14
C34	7.599	0.002	108281	136091	BUNKERC (C10-C38)	13985045	1595 M
Filter Peak	8.345	0.002	52029	25346			
C36	7.948	0.003	74855	16070			
C38	8.376	-0.004	51433	44591			
C40	8.939	0.003	30398	16046			
o-terph	4.764	-0.003	1794	1847	JET-A (C10-C18)	72341	5
Triacon Surr	7.105	0.067	1701872	1806179	JP8 (Tol-C16)	236928	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1847	0.1	0.2
Triacontane	1806179	91.1	202.4

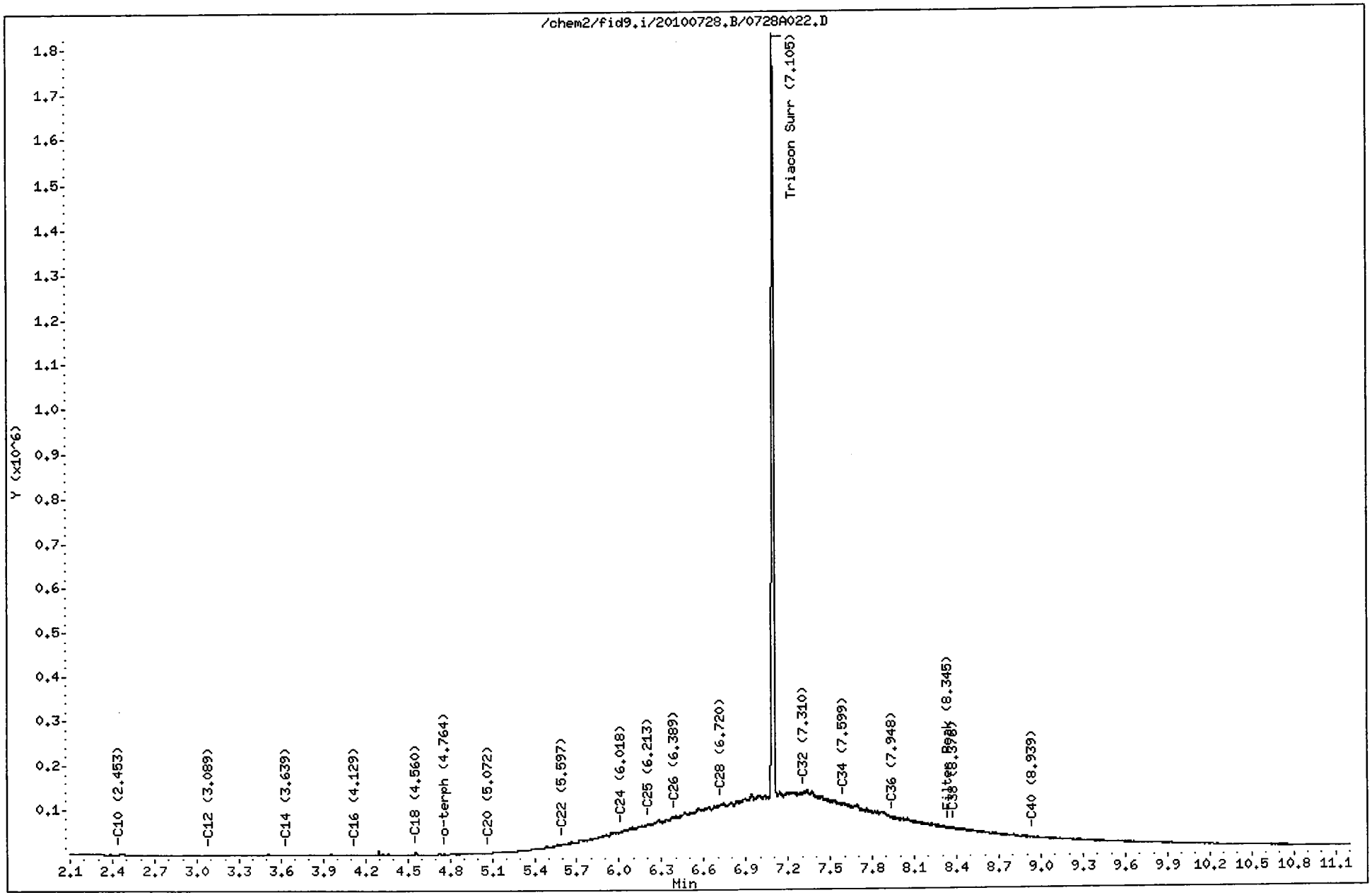
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A022.D
Date : 28-JUL-2010 23:57
Client ID:
Sample Info: MOIL 1000

Instrument: fid9.i

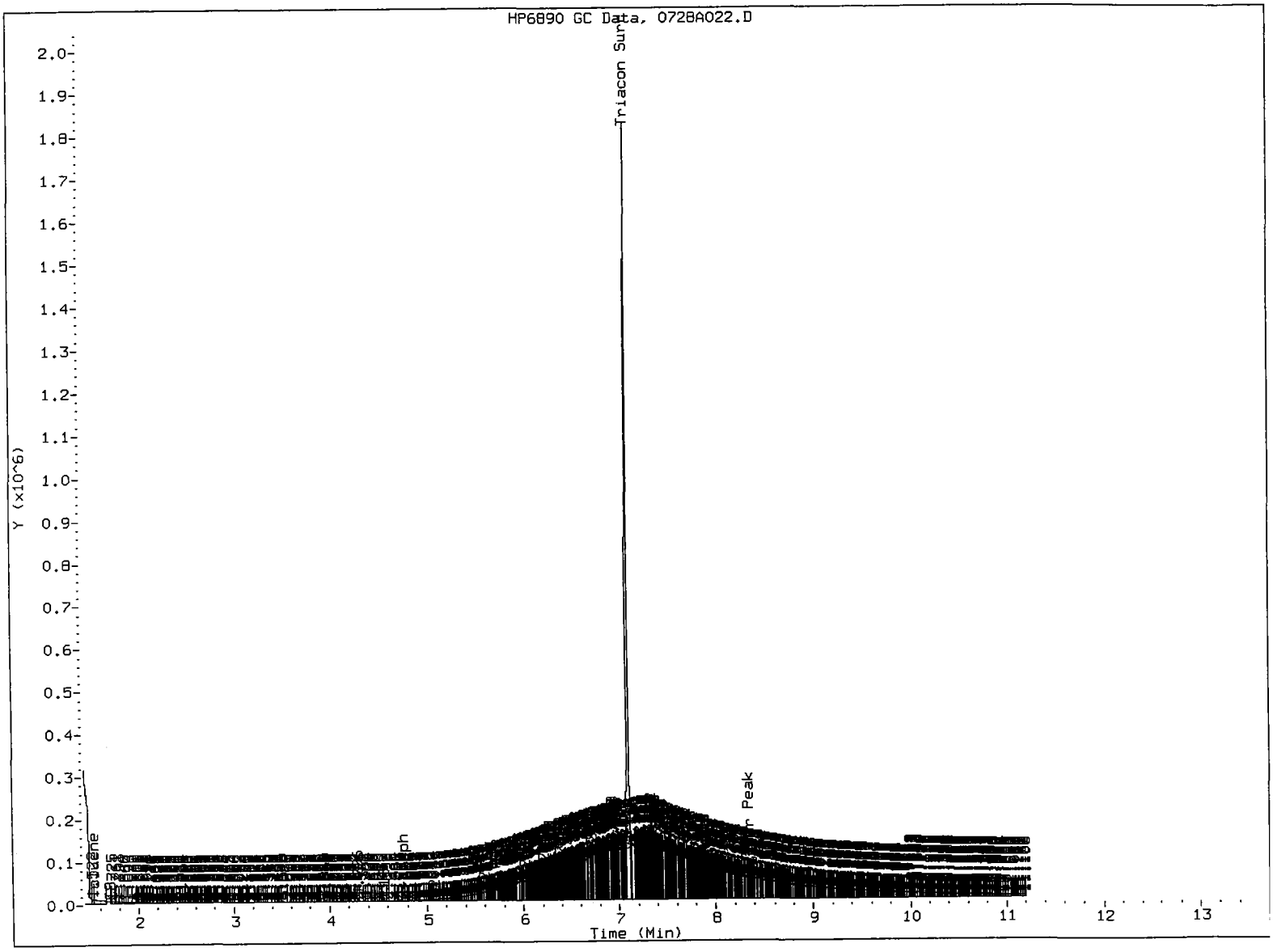
Operator: MS
Column diameter: 0.25

Column phase: RTX-1



FID:9A-2C/RTX-1 MOIL 1000

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 9/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A023.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 2500
Client ID:
Injection: 29-JUL-2010 00:18
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	----				GAS (Tol-C12)	185483	9	
C8	1.718	0.025	7199	4779	DIESEL (C12-C24)	3353157	127	
C10	2.459	0.004	3767	6961	M.OIL (C24-C38)	30008483	2347	
C12	3.085	-0.006	494	385	AK-102 (C10-C25)	4193453	144	
C14	3.640	-0.001	498	323	AK-103 (C25-C36)	25718318	5134	M
C16	4.130	0.001	204	91				
C18	4.559	-0.010	20942	16266				
C20	5.069	-0.004	9741	14269				
C22	5.589	0.001	46953	16444				
C24	6.020	0.000	116155	30105				
C25	6.215	0.003	149541	35623				
C26	6.388	-0.003	192672	83538				
C28	6.725	0.002	249614	49500				
C32	7.308	-0.001	301815	83744	JP-4 (Tol-C14)	202516	12	
C34	7.594	-0.002	255953	217957	BUNKERC (C10-C38)	33397372	3808	M
Filter Peak	8.350	0.006	124584	111418				
C36	7.944	-0.001	179229	56451				
C38	8.379	-0.001	117276	59781				
C40	8.938	0.003	70596	37072				
o-terph	4.762	-0.005	3843	4178	JET-A (C10-C18)	110588	8	
Triacon Surr	7.129	0.091	2546702	4343398	JP8 (Tol-C16)	210004	12	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4178	0.2	0.4
Triacontane	4343398	219.0	486.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A023.D

Date : 29-JUL-2010 00:18

Client ID:

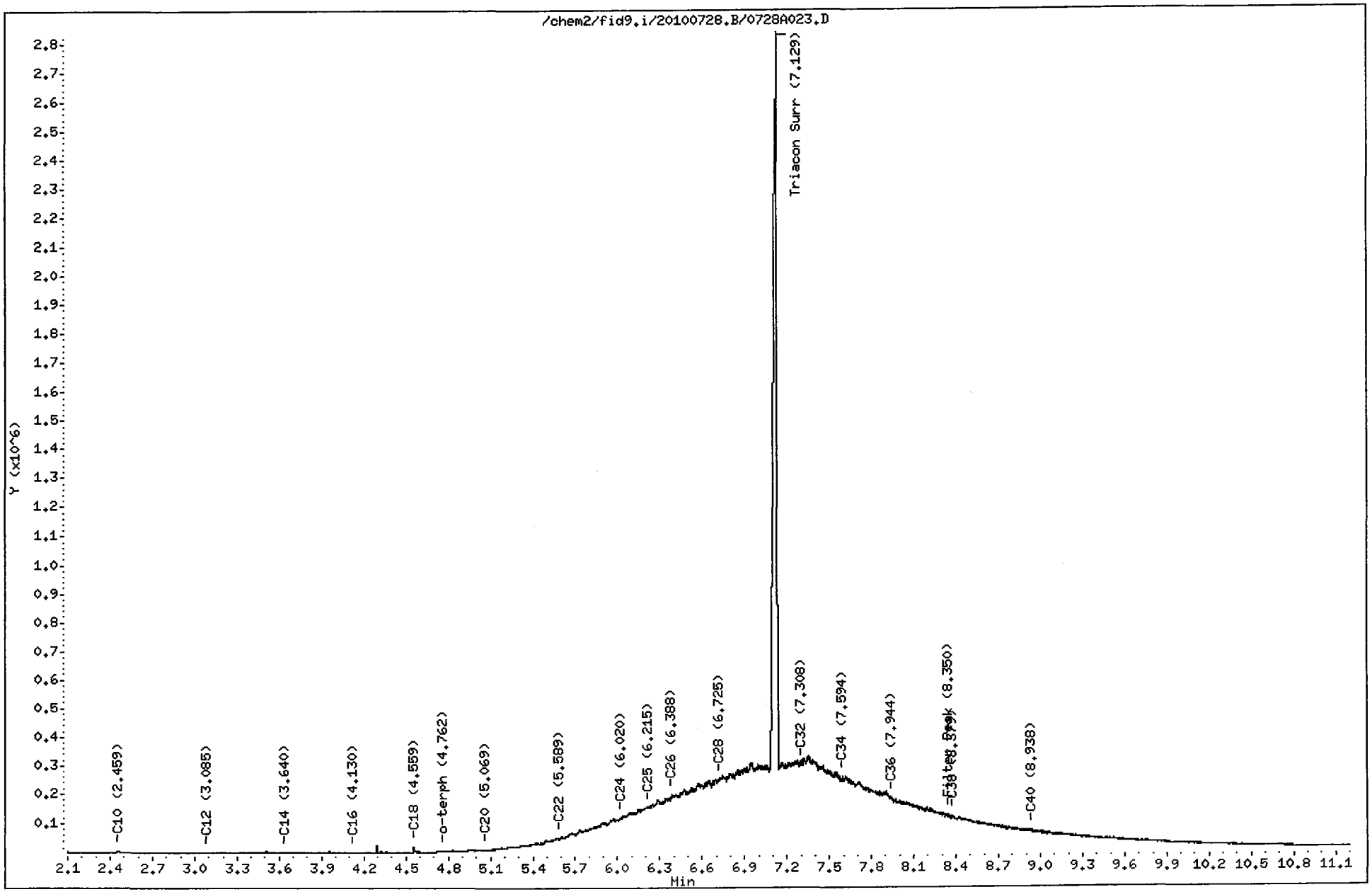
Sample Info: MOIL 2500

Column phase: RTX-1

Instrument: fid9.i

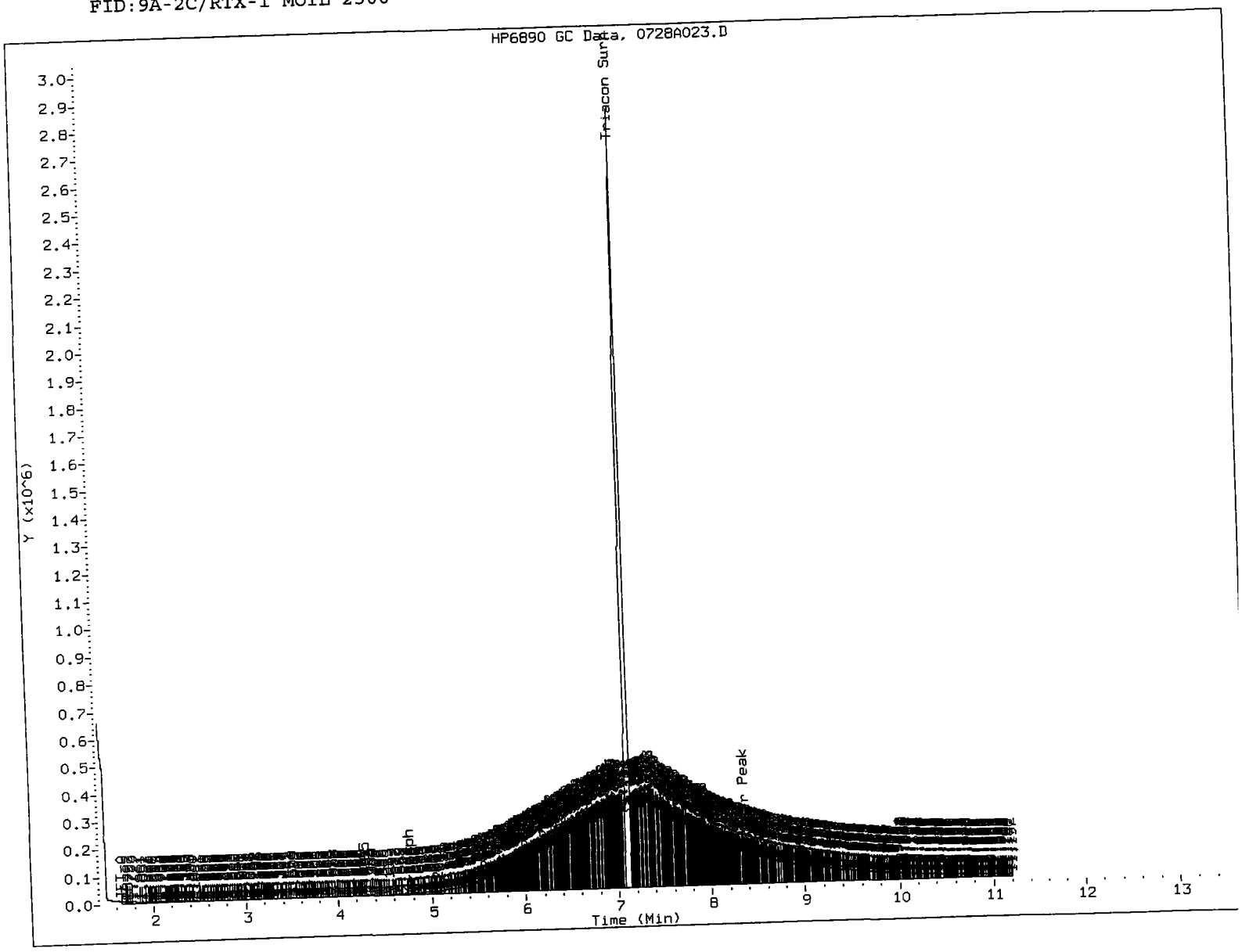
Operator: MS

Column diameter: 0.25



FID:9A-2C/RTX-1 MOIL 2500

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A024.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 5000
Client ID:
Injection: 29-JUL-2010 00:40
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.505	-0.031	22596	103344	GAS (Tol-C12)	263209	13
C8	1.724	0.030	8164	11347	DIESEL (C12-C24)	6666776	253
C10	2.462	0.006	6166	7110	M.OIL (C24-C38)	59430781	4648
C12	3.104	0.013	3368	1784	AK-102 (C10-C25)	8147281	280
C14	3.646	0.005	615	350	AK-103 (C25-C36)	51523751	10286 M
C16	4.129	0.001	608	343			
C18	4.560	-0.009	37045	30543			
C20	5.070	-0.002	19428	26259			
C22	5.582	-0.007	96098	68803			
C24	6.023	0.003	234560	106000			
C25	6.207	-0.006	297700	255615			
C26	6.393	0.001	373459	230456			
C28	6.726	0.003	495735	196084			
C32	7.305	-0.004	602415	260738	JP-4 (Tol-C14)	285229	17
C34	7.597	0.000	510745	472002	BUNKERC (C10-C38)	66134433	7540 M
Filter Peak	8.346	0.002	226260	178664			
C36	7.943	-0.001	358012	278298			
C38	8.379	-0.001	210178	74132			
C40	8.935	0.000	96401	47669			
o-terph	4.761	-0.006	24528	21927	JET-A (C10-C18)	180059	13
Triacon Surr	7.160	0.122	3196100	8687632	JP8 (Tol-C16)	304722	17

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	21927	0.9	1.9
Triacontane	8687632	438.1	973.5

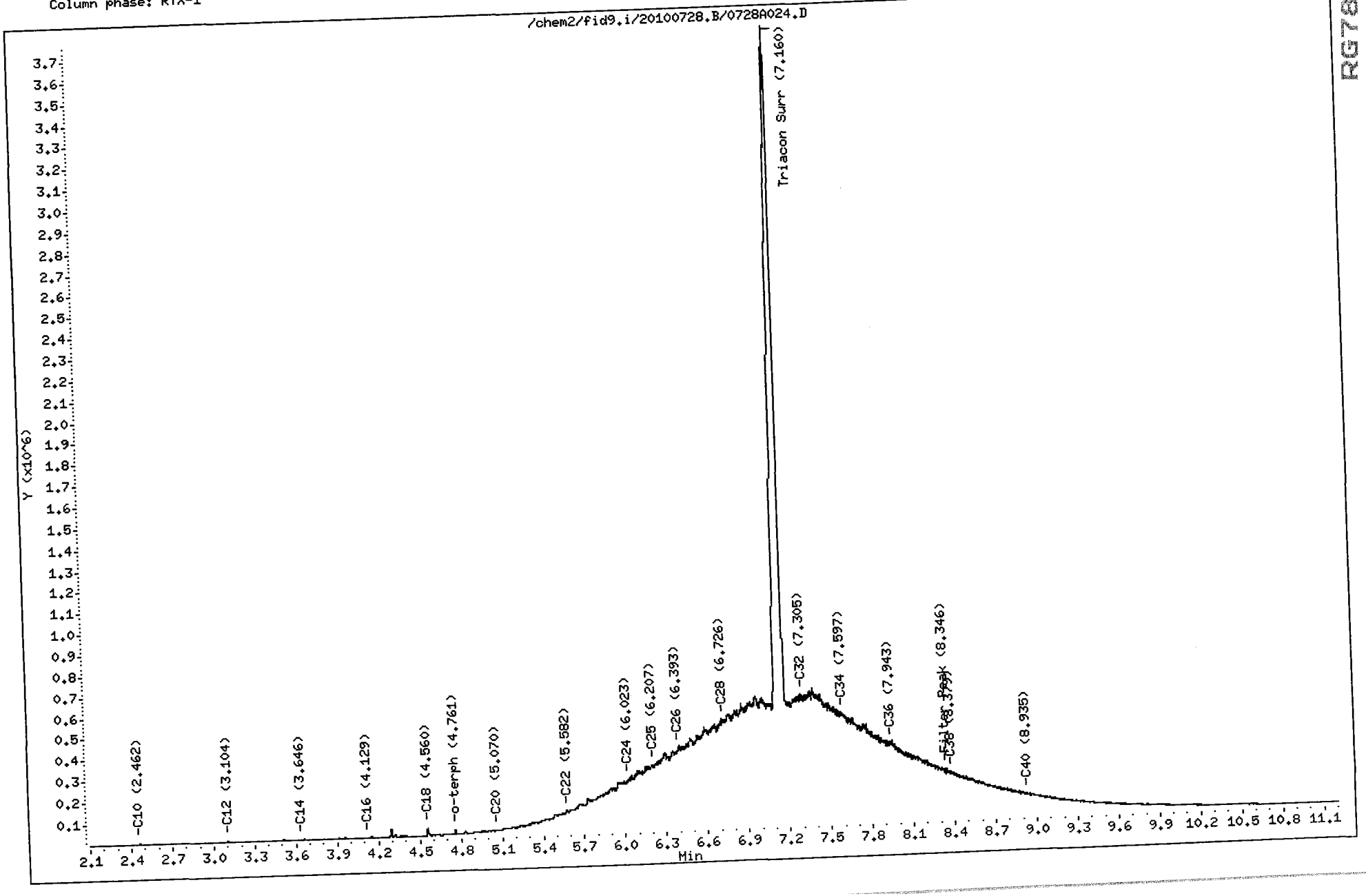
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A024.D
Date : 29-JUL-2010 00:40
Client ID:
Sample Info: MOIL 5000

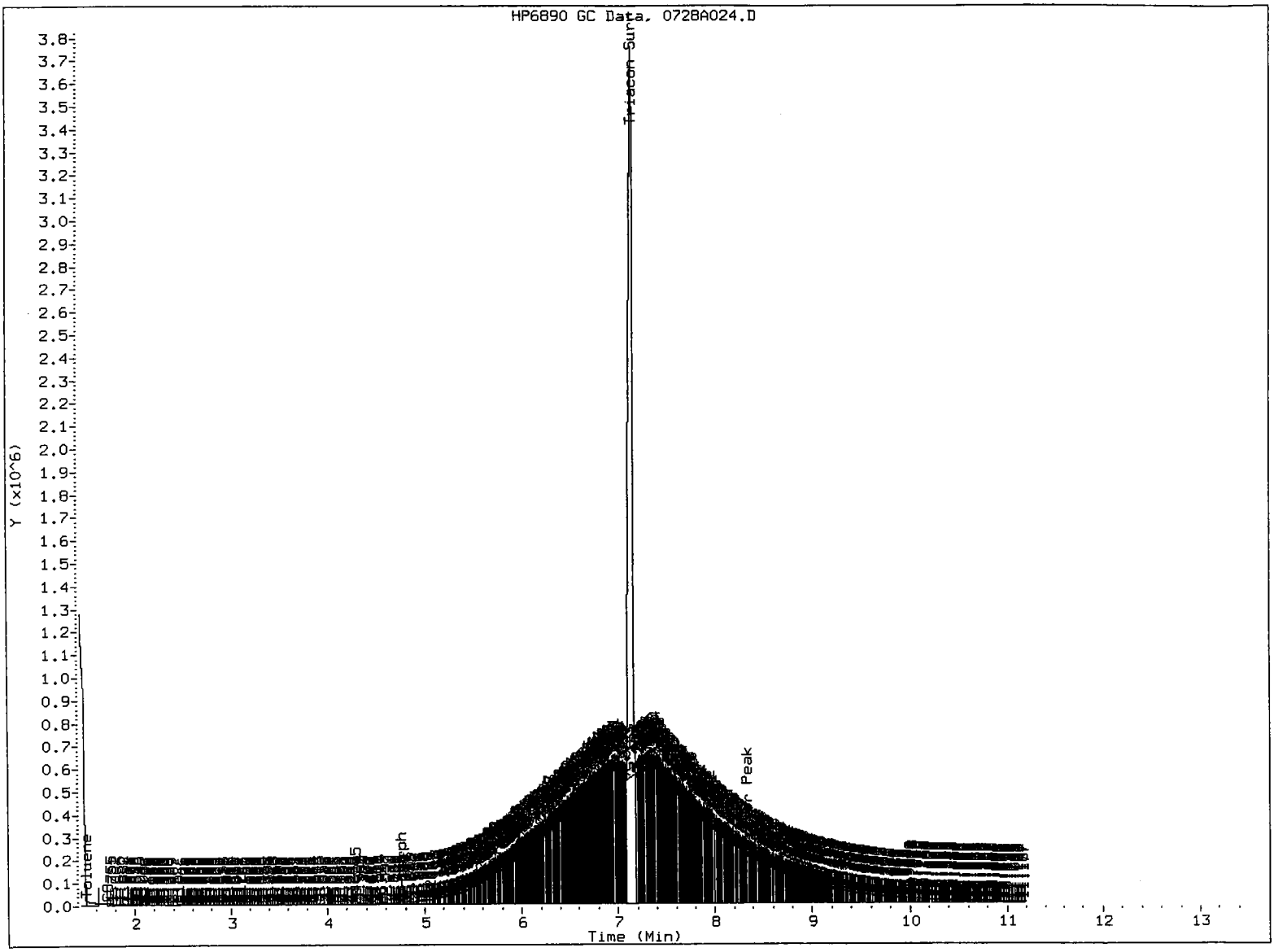
Instrument: fid9.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG78-91163



FID:9A-2C/RTX-1 MOIL 5000 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/12

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A025.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL ICV
Client ID:
Injection: 29-JUL-2010 01:01
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.517	-0.019	9568	56363	GAS (Tol-C12)	190702	9	
C8	1.697	0.003	5379	6116	DIESEL (C12-C24)	677543	26	
C10	2.453	-0.003	2206	3494	M.OIL (C24-C38)	5773753	452	
C12	3.084	-0.007	333	287	AK-102 (C10-C25)	857527	30	
C14	3.646	0.005	183	82	AK-103 (C25-C36)	4998197	998	M
C16	4.126	-0.002	42	25				
C18	4.562	-0.007	4629	3455				
C20	5.075	0.002	1877	2081				
C22	5.592	0.004	9446	5227				
C24	6.020	0.000	22370	8391				
C25	6.201	-0.012	39707	65163				
C26	6.392	0.000	36721	13853				
C28	6.716	-0.007	75296	117760				
C32	7.311	0.002	59183	16220	JP-4 (Tol-C14)	199835	12	
C34	7.599	0.003	44801	35701	BUNKERC (C10-C38)	6481420	739	M
Filter Peak	8.343	0.000	21659	10132				
C36	7.947	0.002	30815	9065				
C38	8.381	0.000	20938	14432				
C40	8.931	-0.004	13390	8876				
o-terph	4.764	-0.003	832	933	JET-A (C10-C18)	55969	4	
Triacon Surr	7.090	0.052	914145	806969	JP8 (Tol-C16)	204147	12	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	933	0.0	0.1
Triacontane	806969	40.7	90.4

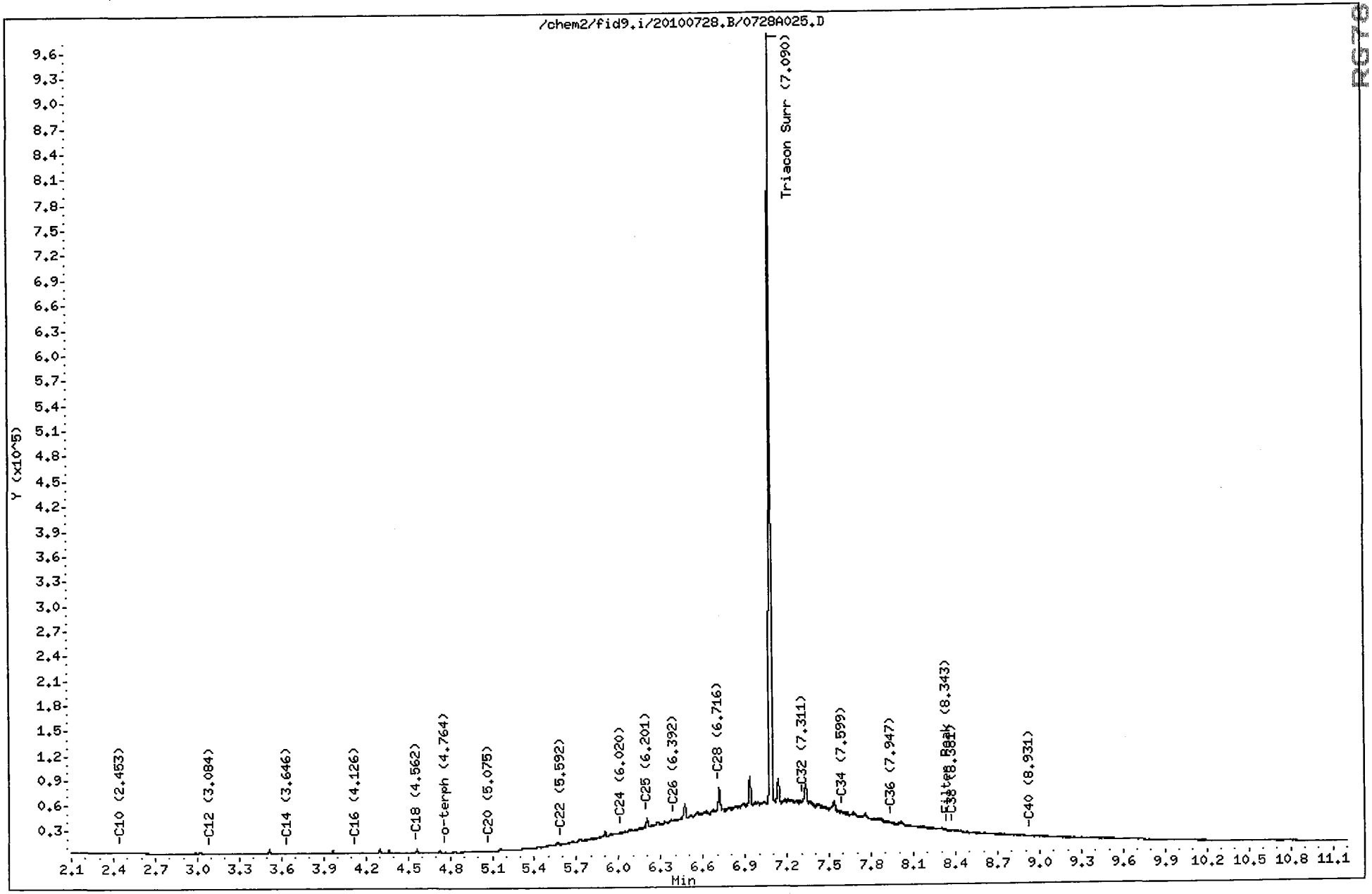
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A025.D
Date : 29-JUL-2010 01:01
Client ID:
Sample Info: MOIL ICV

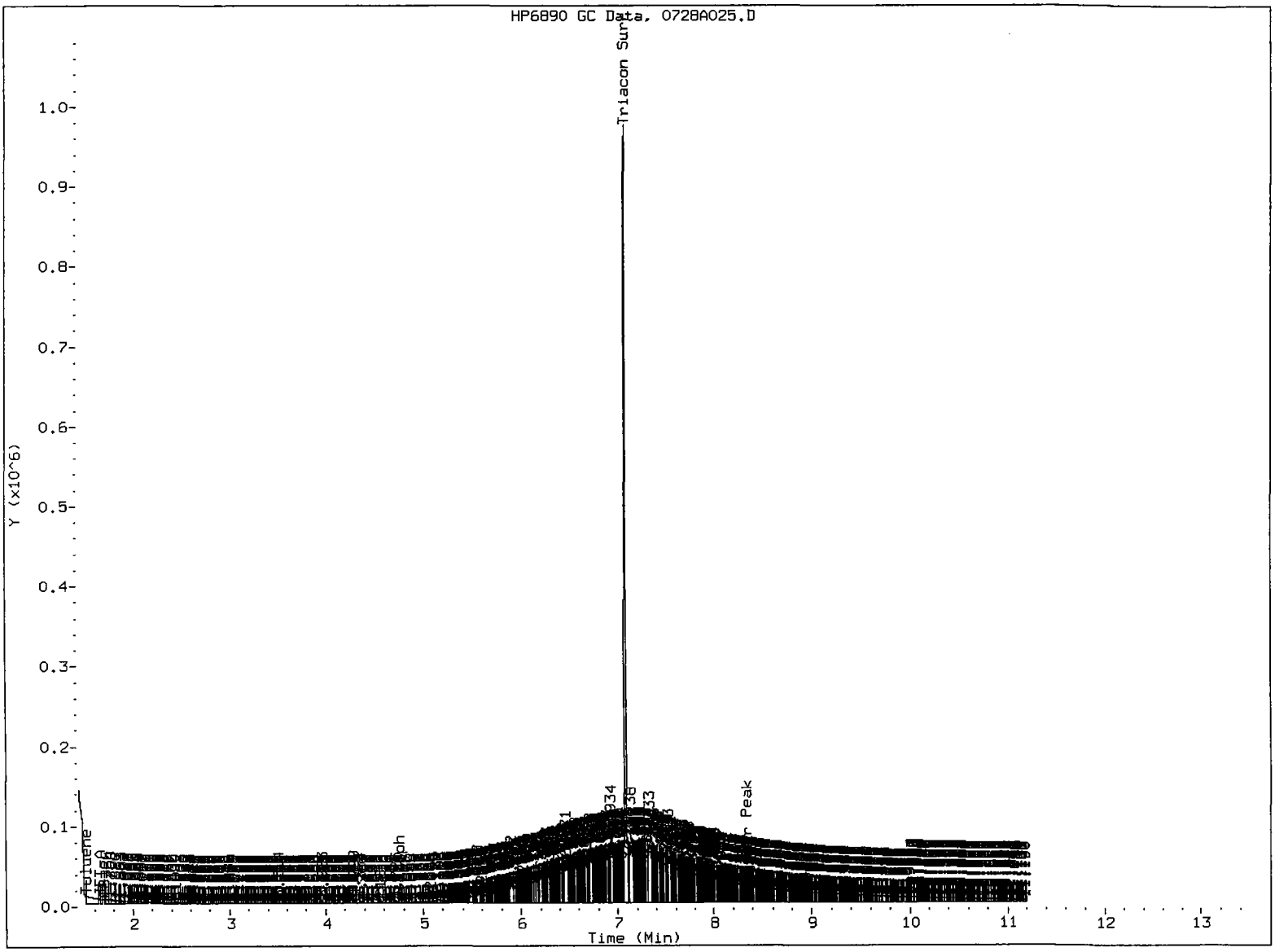
Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



FID:9A-2C/RTX-1 MOIL ICV FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/08

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A012.D ARI ID: DIESEL 50
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 20:24
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.545	0.009	7102	15475	GAS (Tol-C12)	304122	14
C8	1.699	0.005	4935	5847	DIESEL (C12-C24)	1257340	48
C10	2.459	0.004	6197	8547	M.OIL (C24-C38)	72828	6
C12	3.101	0.010	13983	8220	AK-102 (C10-C25)	1389468	48
C14	3.623	-0.018	9291	10648	AK-103 (C25-C36)	50537	10
C16	4.138	0.009	11473	15225			
C18	4.565	-0.004	9397	11253			
C20	5.072	-0.001	4990	3711			
C22	5.592	0.004	2910	2637			
C24	6.019	-0.001	1136	455			
C25	6.225	0.013	442	364			
C26	6.395	0.003	185	147			
C28	6.710	-0.013	1703	1464			
C32	7.303	-0.006	467	137	JP-4 (Tol-C14)	499108	30
C34	7.594	-0.002	729	202	BUNKERC (C10-C38)	1459349	166
Filter Peak	8.346	0.003	768	227			
C36	7.939	-0.006	787	1098			
C38	8.383	0.003	750	640			
C40	8.938	0.003	800	514			
o-terph	4.760	-0.007	385436	262259	JET-A (C10-C18)	997196	72
Triacon Surr	7.038	0.000	197	80	JP8 (Tol-C16)	827113	47

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	262259	10.2	22.6
Triacontane	80	0.0	0.0

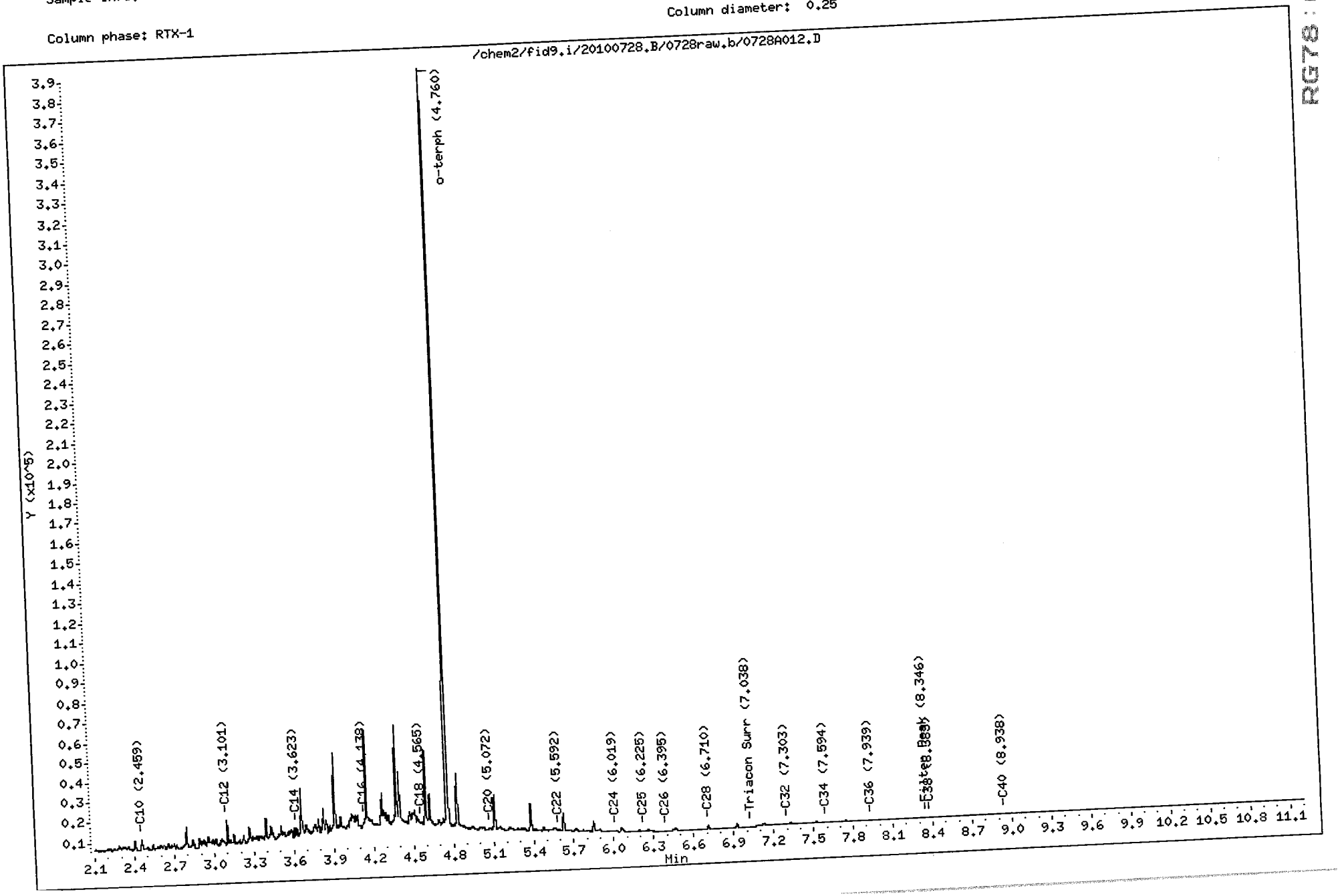
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A012.D
Date : 28-JUL-2010 20:24
Client ID:
Sample Info: DIESEL 50

Instrument: fid9.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG78-91169



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A013.D ARI ID: DIESEL 100
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 20:45
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.545	0.009	9394	12882	GAS (Tol-C12)	449059	21
C8	1.703	0.009	5426	7074	DIESEL (C12-C24)	2552776	97
C10	2.452	-0.003	3226	2569	M.OIL (C24-C38)	87640	7
C12	3.103	0.012	29285	17940	AK-102 (C10-C25)	2814752	97
C14	3.659	0.018	59261	58165	AK-103 (C25-C36)	61637	12
C16	4.123	-0.005	19941	17906			
C18	4.567	-0.002	19222	19309			
C20	5.075	0.002	10542	10663			
C22	5.588	0.000	5975	5552			
C24	6.023	0.003	2217	1308			
C25	6.197	-0.015	2531	4056			
C26	6.406	0.015	394	352			
C28	6.710	-0.013	3648	2966			
C32	7.307	-0.002	362	195	JP-4 (Tol-C14)	845763	52
C34	7.593	-0.004	637	240	BUNKERC (C10-C38)	2894663	330
Filter Peak	8.338	-0.005	643	405			
C36	7.942	-0.002	671	500			
C38	8.378	-0.002	638	365			
C40	8.938	0.002	649	435			
o-terph	4.762	-0.005	723348	506270	JET-A (C10-C18)	2010708	146
Triacon Surr	7.036	-0.002	119	42	JP8 (Tol-C16)	1503559	85

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	506270	19.7	43.7
Triacontane	42	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A013.D

Page 1

Date : 28-JUL-2010 20:45

Client ID:

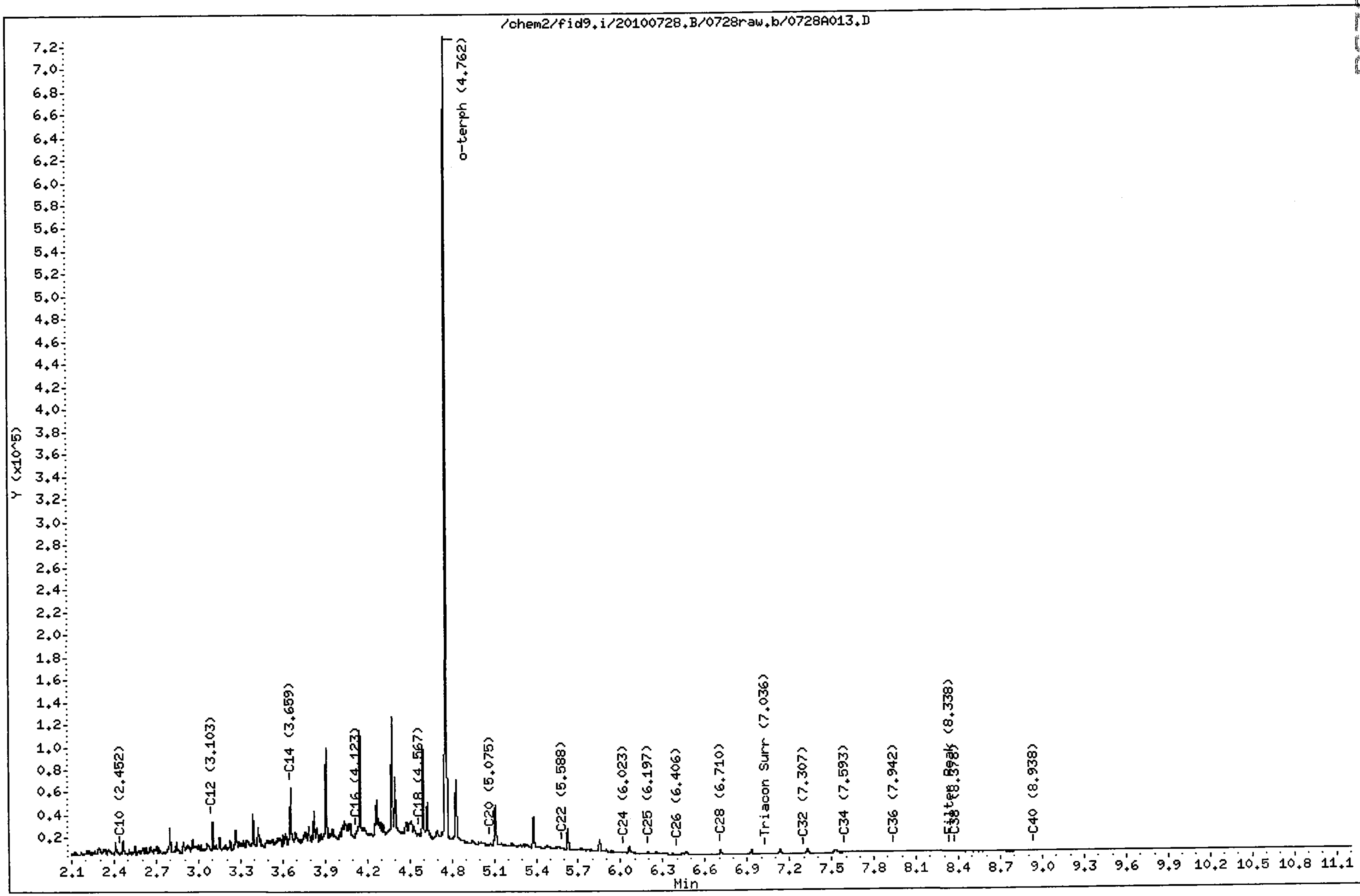
Instrument: fid9.i

Sample Info: DIESEL 100

Operator: MS

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A014.D ARI ID: DIESEL 250
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:07
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	14752	16460	GAS (Tol-C12)	999032	48
C8	1.700	0.006	8159	9848	DIESEL (C12-C24)	6436255	244
C10	2.450	-0.005	6508	5183	M.OIL (C24-C38)	128061	10
C12	3.102	0.011	80325	46536	AK-102 (C10-C25)	7125565	245
C14	3.657	0.016	148765	146845	AK-103 (C25-C36)	95793	19
C16	4.122	-0.007	48814	34422			
C18	4.567	-0.002	47241	38471			
C20	5.073	0.001	26043	28336			
C22	5.589	0.000	14890	4727			
C24	6.028	0.008	5981	4805			
C25	6.201	-0.012	6774	13133			
C26	6.387	-0.005	1514	1078			
C28	6.716	-0.007	5763	5256			
C32	7.308	-0.001	228	49	JP-4 (Tol-C14)	2097448	128
C34	7.600	0.003	463	110	BUNKERC (C10-C38)	7233913	825
Filter Peak	8.344	0.001	446	316			
C36	7.941	-0.004	482	433			
C38	8.377	-0.004	442	324			
C40	8.935	0.000	425	91			
o-terph	4.771	0.004	1395660	1293787	JET-A (C10-C18)	5066220	367
Triacon Surr	7.038	0.000	49	14	JP8 (Tol-C16)	3698235	210

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1293787	50.2	111.6
Triacontane	14	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

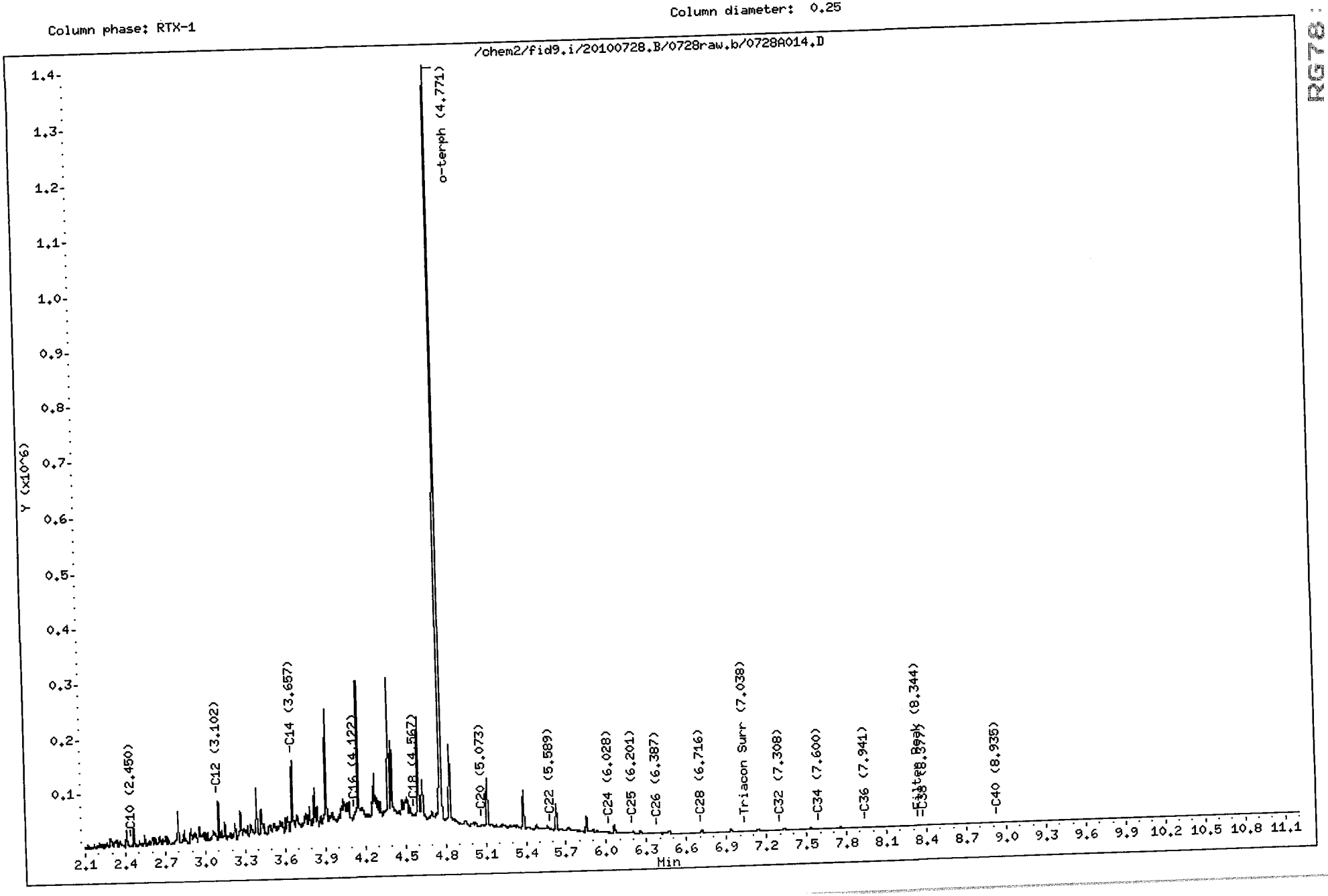
7/30/10

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A014.D
Date : 28-JUL-2010 21:07
Client ID:
Sample Info: DIESEL 250

Instrument: fid9.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG78-61173



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A015.D ARI ID: DIESEL 500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:28
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.550	0.014	24092	21960	GAS (Tol-C12)	1901504	91
C8	1.707	0.013	12840	13683	DIESEL (C12-C24)	13073976	497
C10	2.453	-0.002	10841	4396	M.OIL (C24-C38)	182963	14
C12	3.103	0.012	165409	95735	AK-102 (C10-C25)	14464860	498
C14	3.658	0.017	311239	296922	AK-103 (C25-C36)	133392	27
C16	4.122	-0.006	99870	66038			
C18	4.564	-0.005	95431	110341			
C20	5.074	0.002	52479	17444			
C22	5.584	-0.004	30444	11329			
C24	6.031	0.011	12477	13304			
C25	6.201	-0.012	7950	11851			
C26	6.392	0.000	3328	3066			
C28	6.713	-0.010	2681	3159			
C32	7.307	-0.002	133	71	JP-4 (Tol-C14)	4128068	252
C34	7.599	0.003	311	54	BUNKERC (C10-C38)	14605806	1665
Filter Peak	8.347	0.003	266	158			
C36	7.946	0.002	325	199			
C38	8.380	0.000	252	200			
C40	8.933	-0.002	215	132			
o-terph	4.780	0.013	2312150	2615553	JET-A (C10-C18)	10357341	749
Triacon Surr	7.035	-0.003	24	5	JP8 (Tol-C16)	7327543	416

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2615553	101.5	225.6
Triacontane	5	0.0	0.0

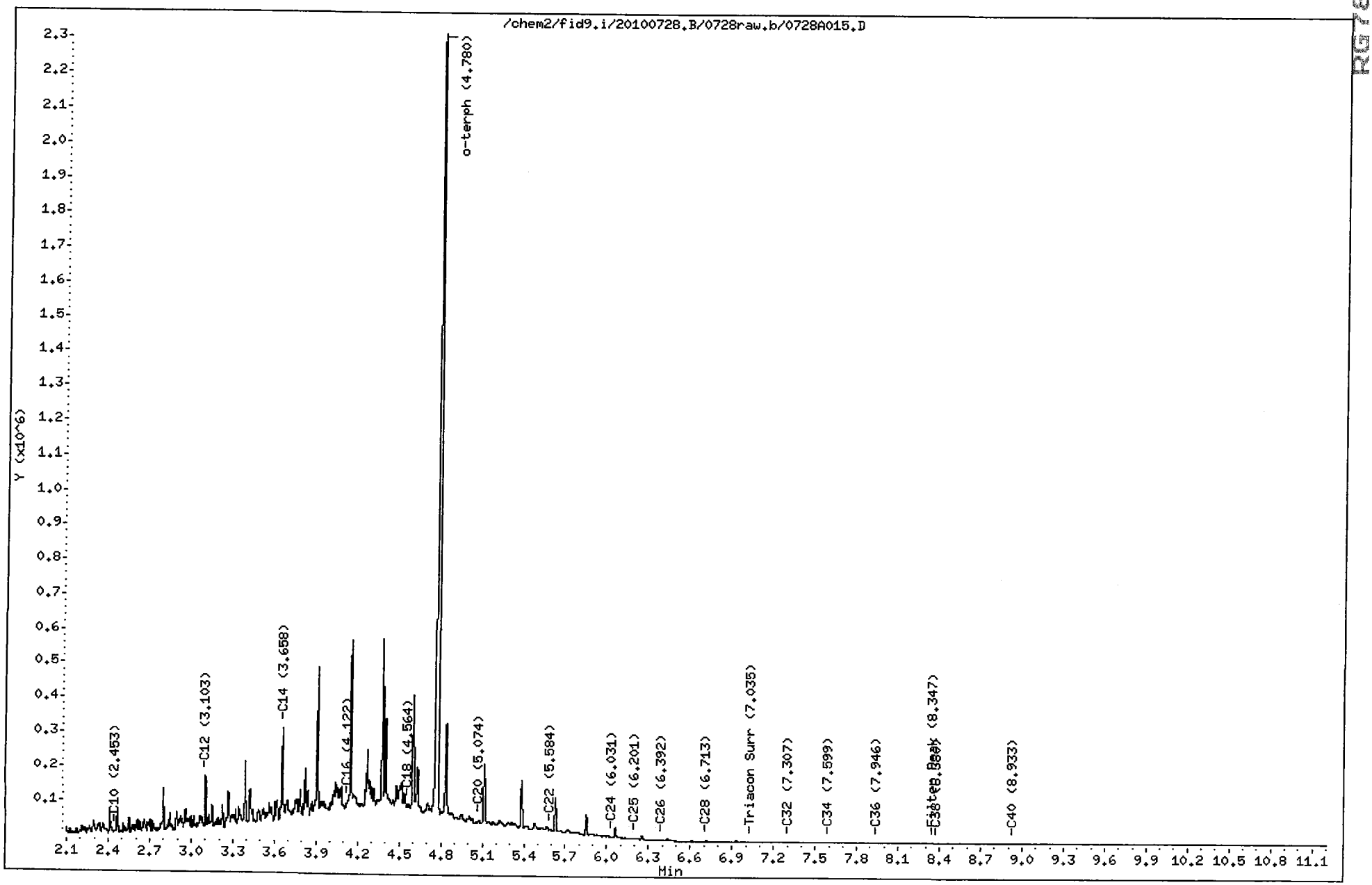
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A015.D
Date : 28-JUL-2010 21:28
Client ID:
Sample Info: DIESEL 500

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A016.D ARI ID: DIESEL 1000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:49
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.522	-0.014	10876	15528	GAS (Tol-C12)	3531545	168
C8	1.681	-0.013	9803	11090	DIESEL (C12-C24)	25634454	974
C10	2.453	-0.002	18978	7692	M.OIL (C24-C38)	394336	31
C12	3.105	0.014	327593	189038	AK-102 (C10-C25)	28360210	976
C14	3.660	0.019	587586	585940	AK-103 (C25-C36)	290957	58
C16	4.123	-0.005	194975	156606			
C18	4.571	0.002	188327	195568			
C20	5.075	0.003	102065	48020			
C22	5.588	-0.001	60397	13108			
C24	6.012	-0.008	28768	31861			
C25	6.201	-0.011	17610	33377			
C26	6.390	-0.002	7211	10254			
C28	6.716	-0.006	7614	9107			
C32	7.302	-0.007	202	83	JP-4 (Tol-C14)	7631157	465
C34	7.591	-0.005	294	192	BUNKERC (C10-C38)	28658250	3268
Filter Peak	8.345	0.002	161	90			
C36	7.947	0.002	235	162			
C38	8.386	0.006	146	81			
C40	8.938	0.002	67	15			
o-terph	4.795	0.028	3307229	5312362	JET-A (C10-C18)	20311515	1470
Triacon Surr	7.032	-0.006	267	242	JP8 (Tol-C16)	14220053	808

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	5312362	206.2	458.2
Triacontane	242	0.0	0.0

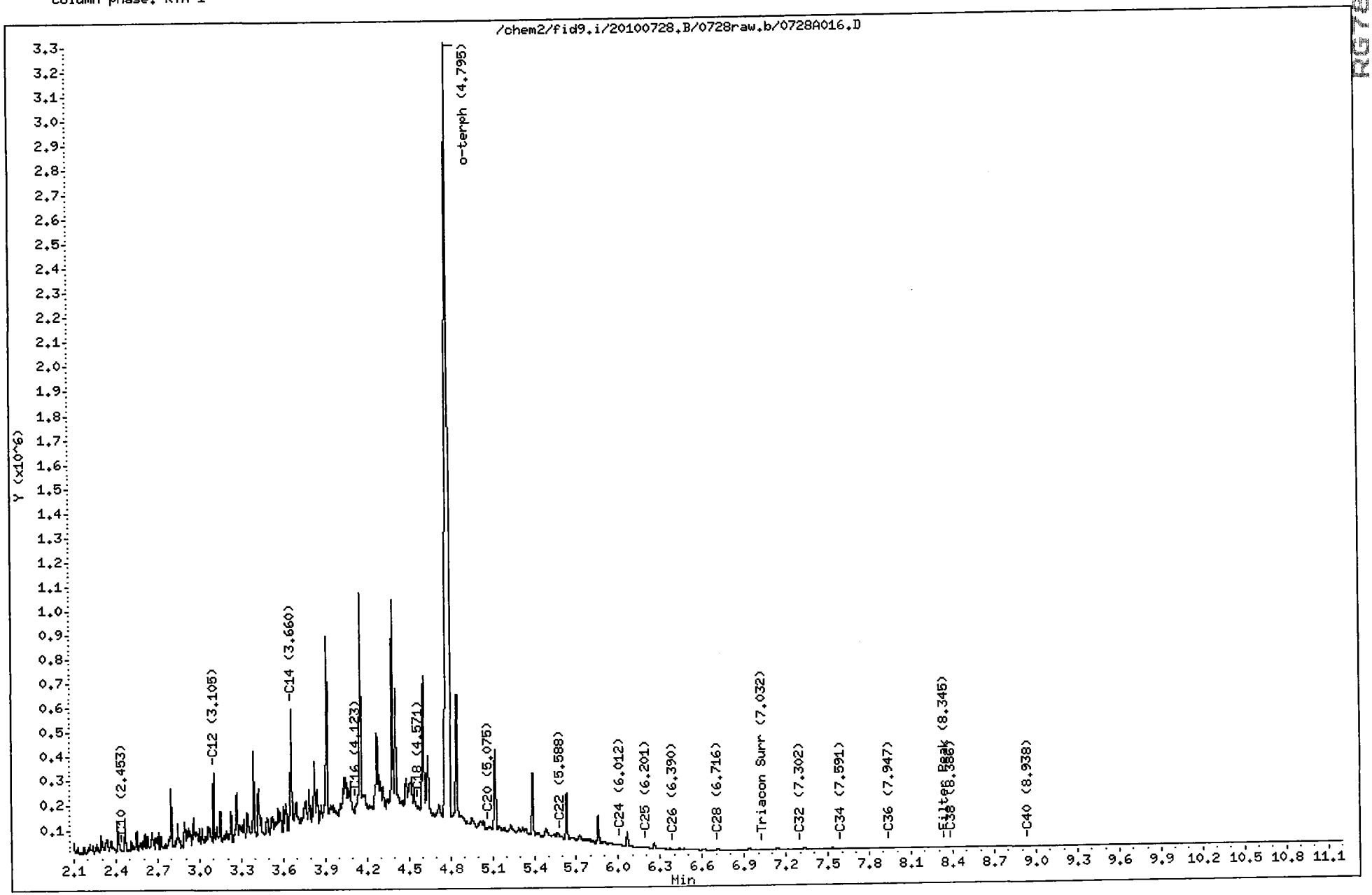
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A016.D
Date : 28-JUL-2010 21:49
Client ID:
Sample Info: DIESEL 1000

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



RG78-01177

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A017.D ARI ID: DIESEL 2500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 22:11
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.527	-0.009	13560	11562	GAS (Tol-C12)	8824002	420
C8	1.696	0.002	11080	4589	DIESEL (C12-C24)	78583836	2984
C10	2.446	-0.009	54486	45945	M.OIL (C24-C38)	1069546	84
C12	3.108	0.017	766741	530976	AK-102 (C10-C25)	85583799	2946
C14	3.623	-0.018	472383	536342	AK-103 (C25-C36)	814815	163
C16	4.129	0.001	485188	391044			
C18	4.575	0.006	464619	138288			
C20	5.065	-0.008	324441	293811			
C22	5.599	0.011	159352	44294			
C24	6.014	-0.006	74943	92274			
C25	6.200	-0.013	55517	125809			
C26	6.393	0.001	18866	27921			
C28	6.714	-0.009	18491	25629			
C32	7.300	-0.009	811	206	JP-4 (Tol-C14)	19257288	1174
C34	7.598	0.002	667	236	BUNKERC (C10-C38)	86411627	9852
Filter Peak	8.352	0.008	294	163			
C36	7.939	-0.006	456	454			
C38	8.372	-0.008	289	303			
C40	8.930	-0.005	144	37			
o-terph	4.745	-0.022	442051	349242	JET-A (C10-C18)	49526362	3584
Triacon Surr	7.036	-0.002	1327	1487	JP8 (Tol-C16)	35611639	2024

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	349242	13.6	30.1
Triacontane	1487	0.1	0.2

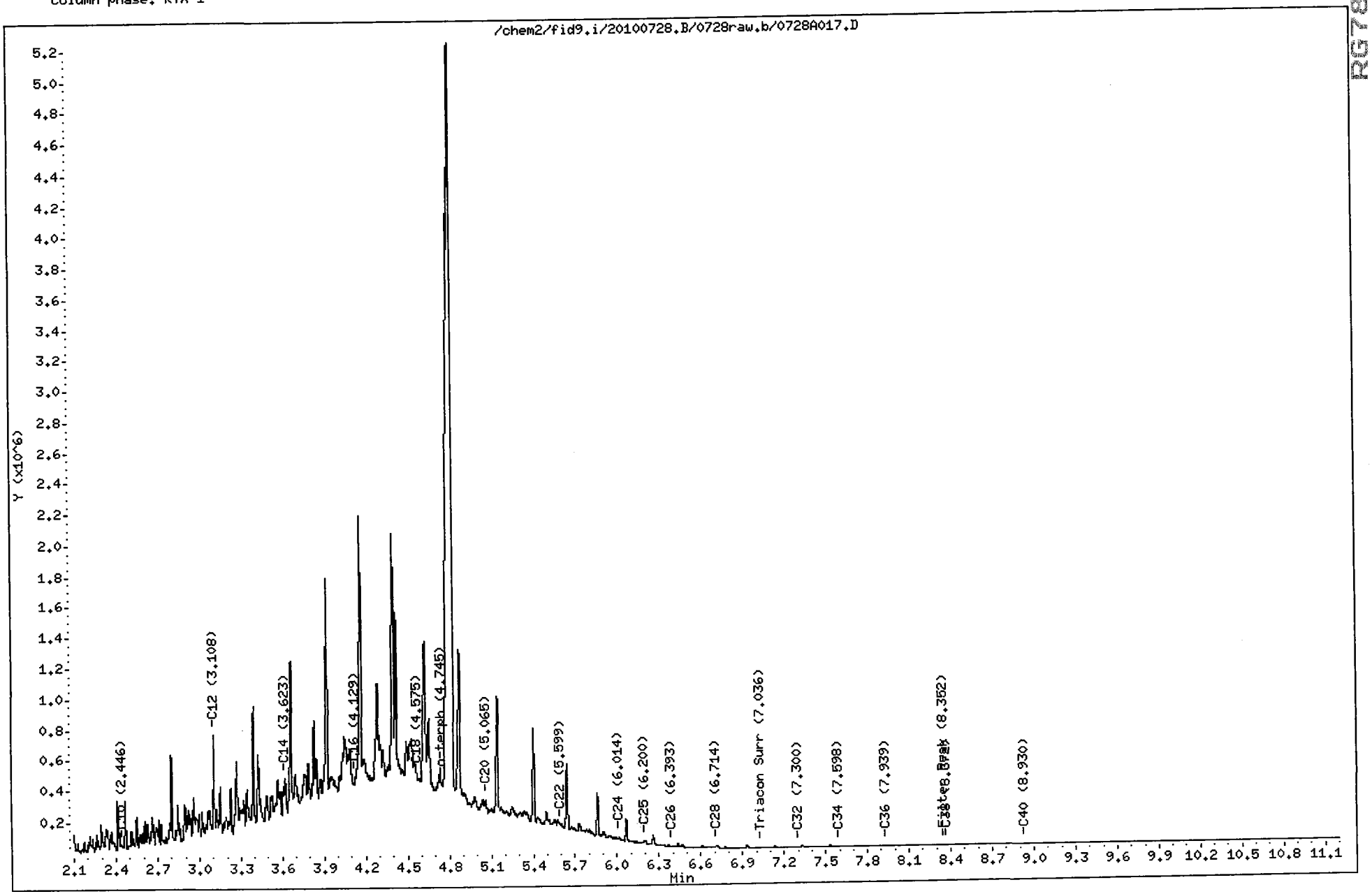
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A017.D
Date : 28-JUL-2010 22:11
Client ID:
Sample Info: DIESEL 2500

Instrument: fid9.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG78-91179



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A019.D ARI ID: MOIL 100
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 22:53
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	7458	18695	GAS (Tol-C12)	141901	7
C8	1.726	0.033	5158	6296	DIESEL (C12-C24)	170722	6
C10	2.453	-0.002	2104	2277	M.OIL (C24-C38)	1637902	128
C12	3.087	-0.004	132	32	AK-102 (C10-C25)	227313	8
C14	3.638	-0.003	73	40	AK-103 (C25-C36)	1430764	286
C16	4.130	0.002	69	41			
C18	4.564	-0.005	811	866			
C20	5.075	0.003	500	282			
C22	5.588	-0.001	2108	500			
C24	6.024	0.004	5281	1867			
C25	6.222	0.010	6965	4086			
C26	6.393	0.001	8433	4859			
C28	6.715	-0.008	26196	37657			
C32	7.310	0.001	14515	3993	JP-4 (Tol-C14)	147735	9
C34	7.596	0.000	11767	4821	BUNKERC (C10-C38)	1833277	209
Filter Peak	8.344	0.001	6091	3946			
C36	7.940	-0.005	8533	7979			
C38	8.385	0.005	5855	2782			
C40	8.936	0.000	3917	1842			
o-terph	4.766	-0.001	1479	1425	JET-A (C10-C18)	40423	3
Triacon Surr	7.036	-0.002	13527	12287	JP8 (Tol-C16)	151586	9

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1425	0.1	0.1
Triacontane	12287	0.6	1.4

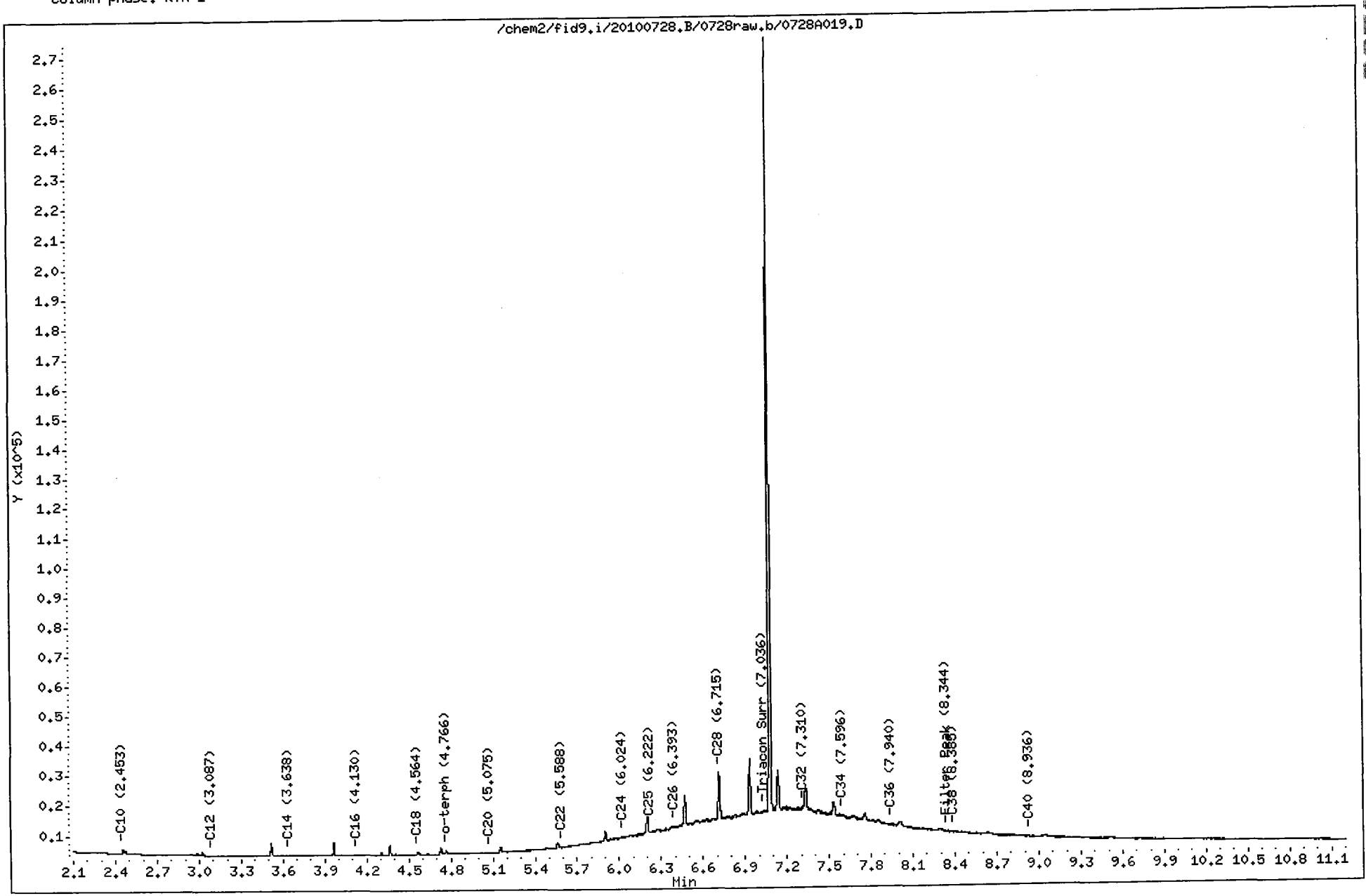
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A019.D
Date : 28-JUL-2010 22:53
Client ID:
Sample Info: MOIL 100

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A020.D ARI ID: MOIL 250
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:15
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	9497	26573	GAS (Tol-C12)	196853	9
C8	1.701	0.007	5948	3882	DIESEL (C12-C24)	365810	14
C10	2.453	-0.002	2442	3279	M.OIL (C24-C38)	3704698	290
C12	3.084	-0.007	295	172	AK-102 (C10-C25)	480434	17
C14	3.641	0.000	143	28	AK-103 (C25-C36)	3234984	646
C16	4.130	0.002	41	6			
C18	4.564	-0.005	1875	1532			
C20	5.076	0.003	1034	1260			
C22	5.593	0.005	5116	2268			
C24	6.019	-0.001	12501	3919			
C25	6.217	0.004	16132	5120			
C26	6.394	0.003	20541	11264			
C28	6.719	-0.004	29297	45978			
C32	7.310	0.001	33294	13189	JP-4 (Tol-C14)	205495	13
C34	7.596	0.000	26975	12175	BUNKERC (C10-C38)	4105098	468
Filter Peak	8.341	-0.002	13586	4242			
C36	7.941	-0.004	19049	9333			
C38	8.372	-0.008	13101	10702			
C40	8.931	-0.004	8356	5723			
o-terph	4.766	-0.001	970	1169	JET-A (C10-C18)	53412	4
Triacon Surr	7.041	0.003	32829	14153	JP8 (Tol-C16)	208886	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1169	0.0	0.1
Triacontane	14153	0.7	1.6

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

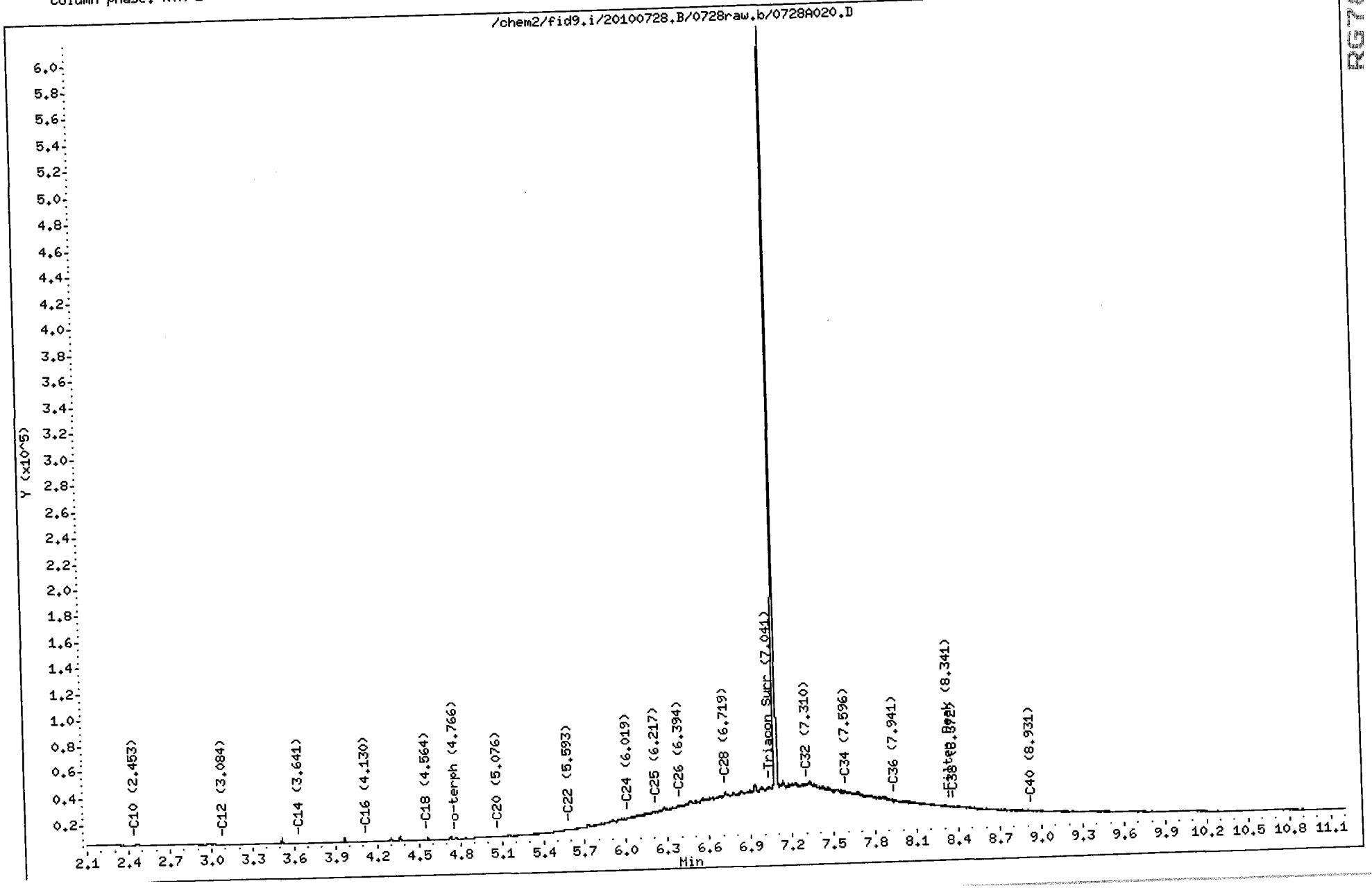
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A020.D
Date : 28-JUL-2010 23:15
Client ID:
Sample Info: MOIL 250

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RG78-54183



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A021.D ARI ID: MOIL 500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:36
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	9179	20369	GAS (Tol-C12)	216239	10
C8	1.728	0.034	6026	8955	DIESEL (C12-C24)	681352	26
C10	2.454	-0.002	2354	2271	M.OIL (C24-C38)	7090303	554
C12	3.094	0.003	289	44	AK-102 (C10-C25)	866175	30
C14	3.642	0.001	195	126	AK-103 (C25-C36)	6178857	1234
C16	4.125	-0.003	40	9			
C18	4.561	-0.008	3657	2936			
C20	5.072	-0.001	2047	2188			
C22	5.593	0.004	10080	6940			
C24	6.019	-0.001	23765	7965			
C25	6.211	-0.002	31744	9374			
C26	6.394	0.003	39169	13151			
C28	6.721	-0.002	55036	30221			
C32	7.312	0.003	65826	24703	JP-4 (Tol-C14)	225770	14
C34	7.600	0.003	52438	20690	BUNKERC (C10-C38)	7803945	890
Filter Peak	8.350	0.007	26035	6689			
C36	7.944	-0.001	38444	12762			
C38	8.382	0.002	26485	18398			
C40	8.934	-0.002	15558	5694			
o-terph	4.764	-0.003	1139	1159	JET-A (C10-C18)	56856	4
Triacon Surr	7.035	-0.003	64313	60373	JP8 (Tol-C16)	229628	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159	0.0	0.1
Triacontane	60373	3.0	6.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

8/30/10

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A021.D

Date : 28-JUL-2010 23:36

Client ID:

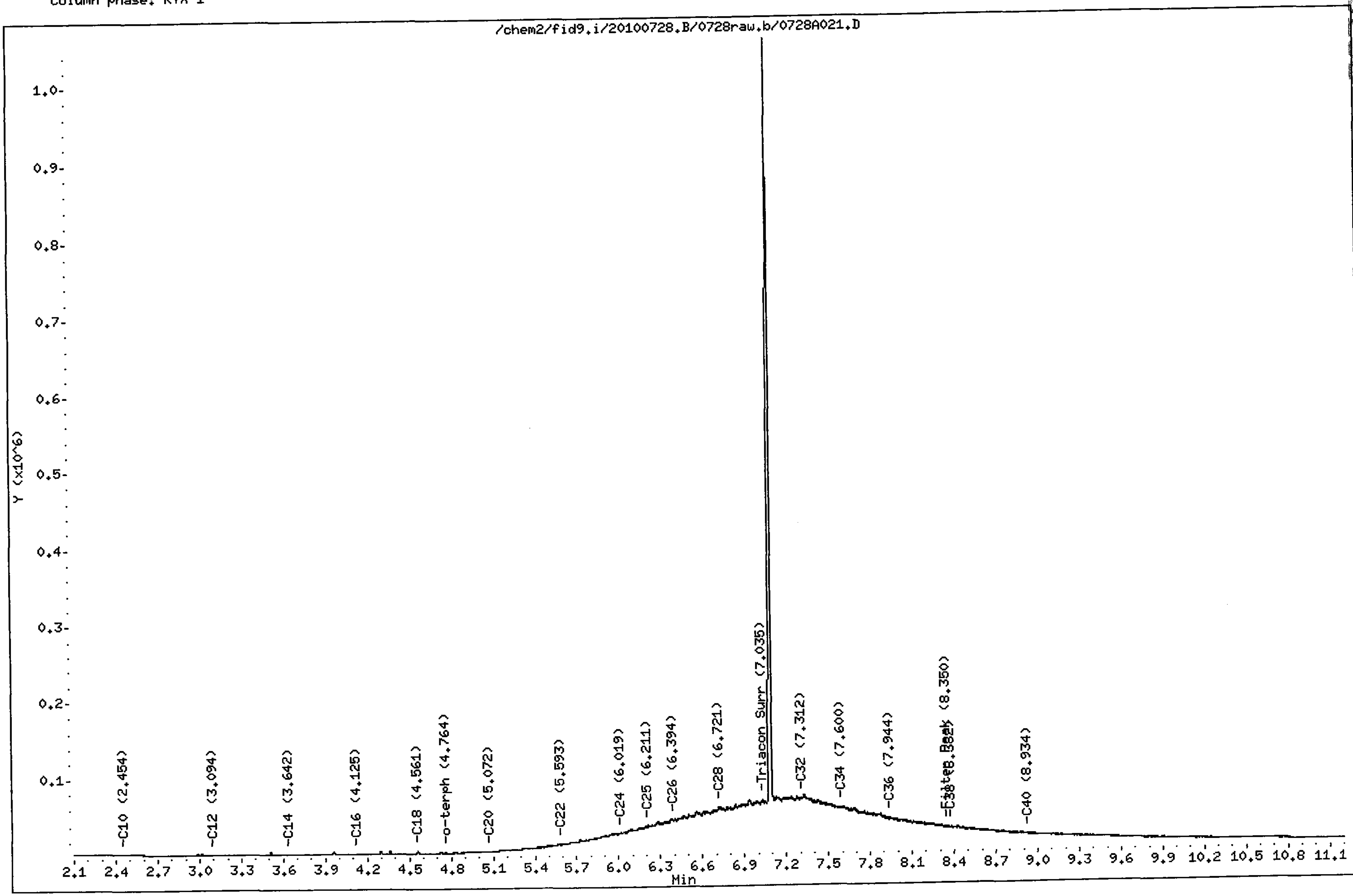
Sample Info: MOIL 500

Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A022.D ARI ID: MOIL 1000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:57
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.538	0.002	10649	63178	GAS (Tol-C12)	218627	10
C8	1.703	0.010	6083	4895	DIESEL (C12-C24)	1375330	52
C10	2.453	-0.003	2350	1902	M.OIL (C24-C38)	14305504	1119
C12	3.089	-0.002	381	214	AK-102 (C10-C25)	1720432	59
C14	3.639	-0.002	299	246	AK-103 (C25-C36)	12524196	2500
C16	4.129	0.000	79	16			
C18	4.560	-0.009	7645	6024			
C20	5.072	0.000	4064	7040			
C22	5.597	0.008	20853	24416			
C24	6.018	-0.002	49376	52041			
C25	6.213	0.001	63610	16233			
C26	6.389	-0.002	79064	34283			
C28	6.720	-0.003	107910	42122			
C32	7.310	0.001	130942	41405	JP-4 (Tol-C14)	231895	14
C34	7.599	0.002	108281	136091	BUNKERC (C10-C38)	15714808	1792
Filter Peak	8.345	0.002	52029	25346			
C36	7.948	0.003	74855	16070			
C38	8.376	-0.004	51433	44591			
C40	8.939	0.003	30398	16046			
o-terph	4.764	-0.003	1794	1847	JET-A (C10-C18)	72341	5
Triacon Surr	7.037	-0.001	127050	74010	JP8 (Tol-C16)	236928	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1847	0.1	0.2
Triacontane	74010	3.7	8.3

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

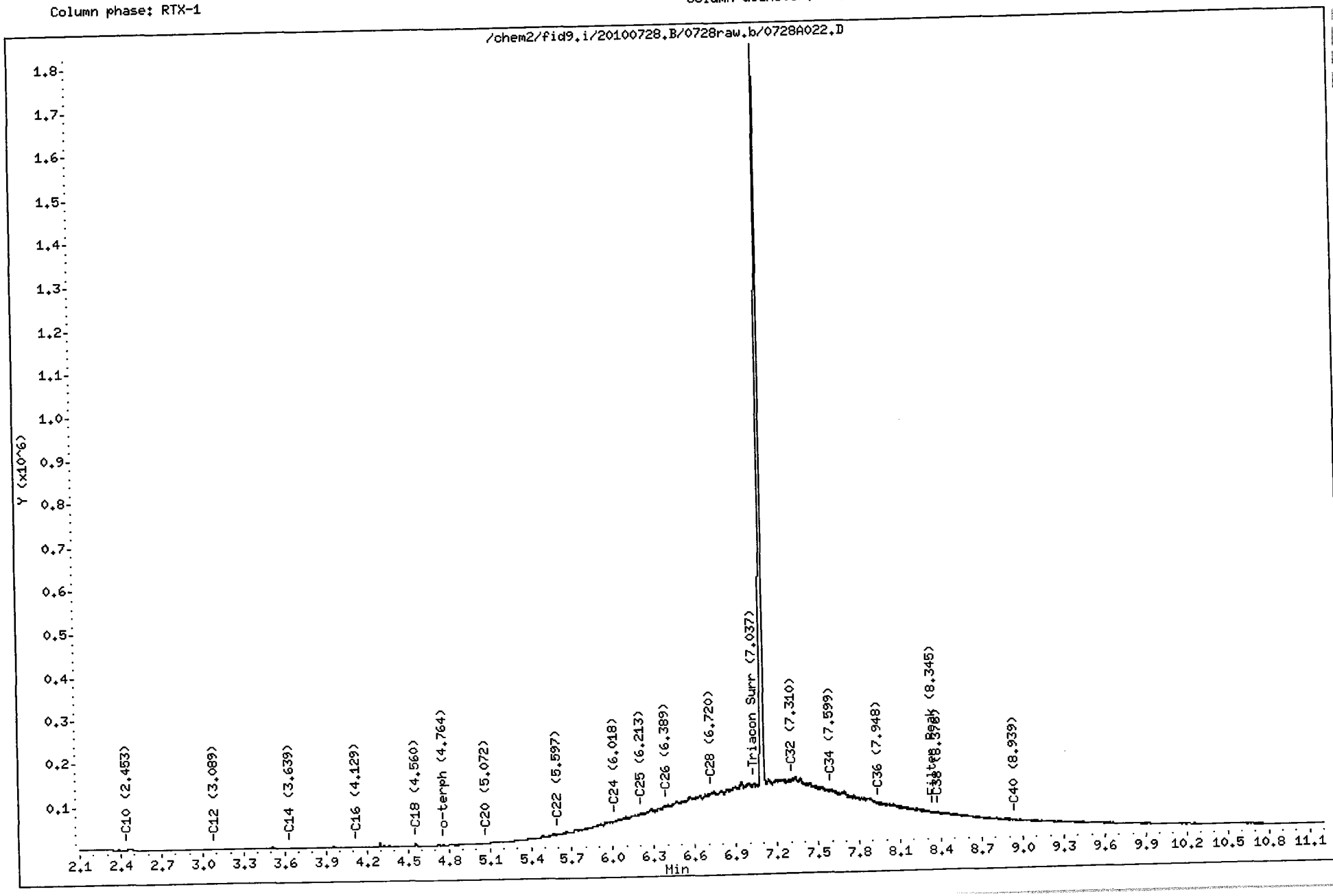
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A022.D
Date : 28-JUL-2010 23:57
Client ID:
Sample Info: MOIL 1000

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG78-01137



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A023.D ARI ID: MOIL 2500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 29-JUL-2010 00:18
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	185483	9
C8	1.718	0.025	7199	4779	DIESEL (C12-C24)	3353157	127
C10	2.459	0.004	3767	6961	M.OIL (C24-C38)	34124562	2669
C12	3.085	-0.006	494	385	AK-102 (C10-C25)	4193453	144
C14	3.640	-0.001	498	323	AK-103 (C25-C36)	29834397	5956
C16	4.130	0.001	204	91			
C18	4.559	-0.010	20942	16266			
C20	5.069	-0.004	9741	14269			
C22	5.589	0.001	46953	16444			
C24	6.020	0.000	116155	30105			
C25	6.215	0.003	149541	35623			
C26	6.388	-0.003	192672	83538			
C28	6.725	0.002	249614	49500			
C32	7.308	-0.001	301815	83744	JP-4 (Tol-C14)	202516	12
C34	7.594	-0.002	255953	217957	BUNKERC (C10-C38)	37513451	4277
Filter Peak	8.350	0.006	124584	111418			
C36	7.944	-0.001	179229	56451			
C38	8.379	-0.001	117276	59781			
C40	8.938	0.003	70596	37072			
o-terph	4.762	-0.005	3843	4178	JET-A (C10-C18)	110588	8
Triacon Surr	7.043	0.005	291768	230191	JP8 (Tol-C16)	210004	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4178	0.2	0.4
Triacontane	230191	11.6	25.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A023.D

Page 1

Date : 29-JUL-2010 00:18

Client ID:

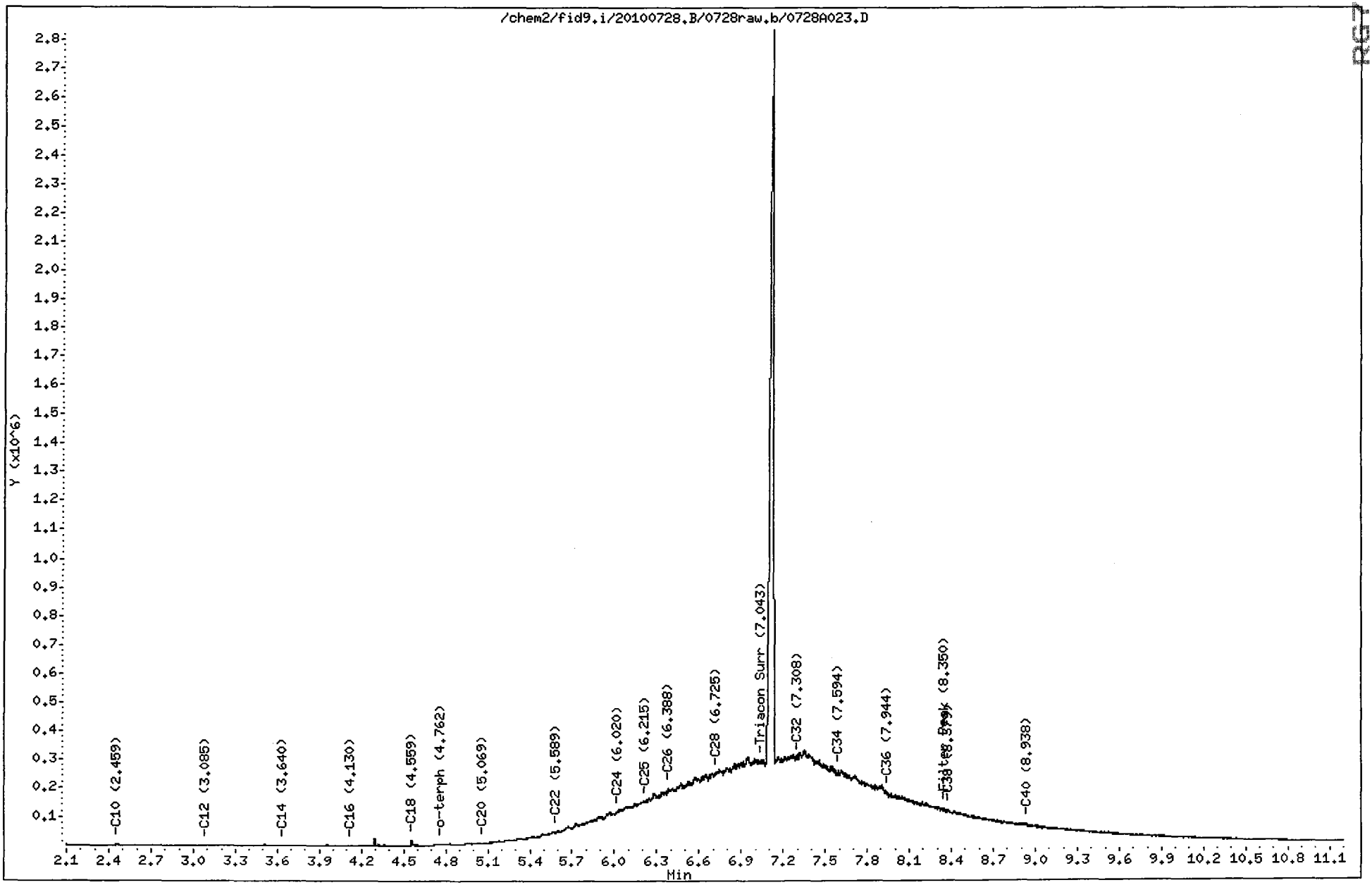
Instrument: fid9.i

Sample Info: MOIL 2500

Operator: MS

Column phase: RTX-1

Column diameter: 0.25



RGTB-01189

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A024.D ARI ID: MOIL 5000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 29-JUL-2010 00:40
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.505	-0.031	22596	103344	GAS (Tol-C12)	263209	13
C8	1.724	0.030	8164	11347	DIESEL (C12-C24)	6666776	253
C10	2.462	0.006	6166	7110	M.OIL (C24-C38)	67258151	5260
C12	3.104	0.013	3368	1784	AK-102 (C10-C25)	8147281	280
C14	3.646	0.005	615	350	AK-103 (C25-C36)	59351121	11849
C16	4.129	0.001	608	343			
C18	4.560	-0.009	37045	30543			
C20	5.070	-0.002	19428	26259			
C22	5.582	-0.007	96098	68803			
C24	6.023	0.003	234560	106000			
C25	6.207	-0.006	297700	255615			
C26	6.393	0.001	373459	230456			
C28	6.726	0.003	495735	196084			
C32	7.305	-0.004	602415	260738	JP-4 (Tol-C14)	285229	17
C34	7.597	0.000	510745	472002	BUNKERC (C10-C38)	73961804	8433
Filter Peak	8.346	0.002	226260	178664			
C36	7.943	-0.001	358012	278298			
C38	8.379	-0.001	210178	74132			
C40	8.935	0.000	96401	47669			
o-terph	4.761	-0.006	24528	21927	JET-A (C10-C18)	180059	13
Triacon Surr	7.043	0.005	564895	111509	JP8 (Tol-C16)	304722	17

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	21927	0.9	1.9
Triacontane	111509	5.6	12.5

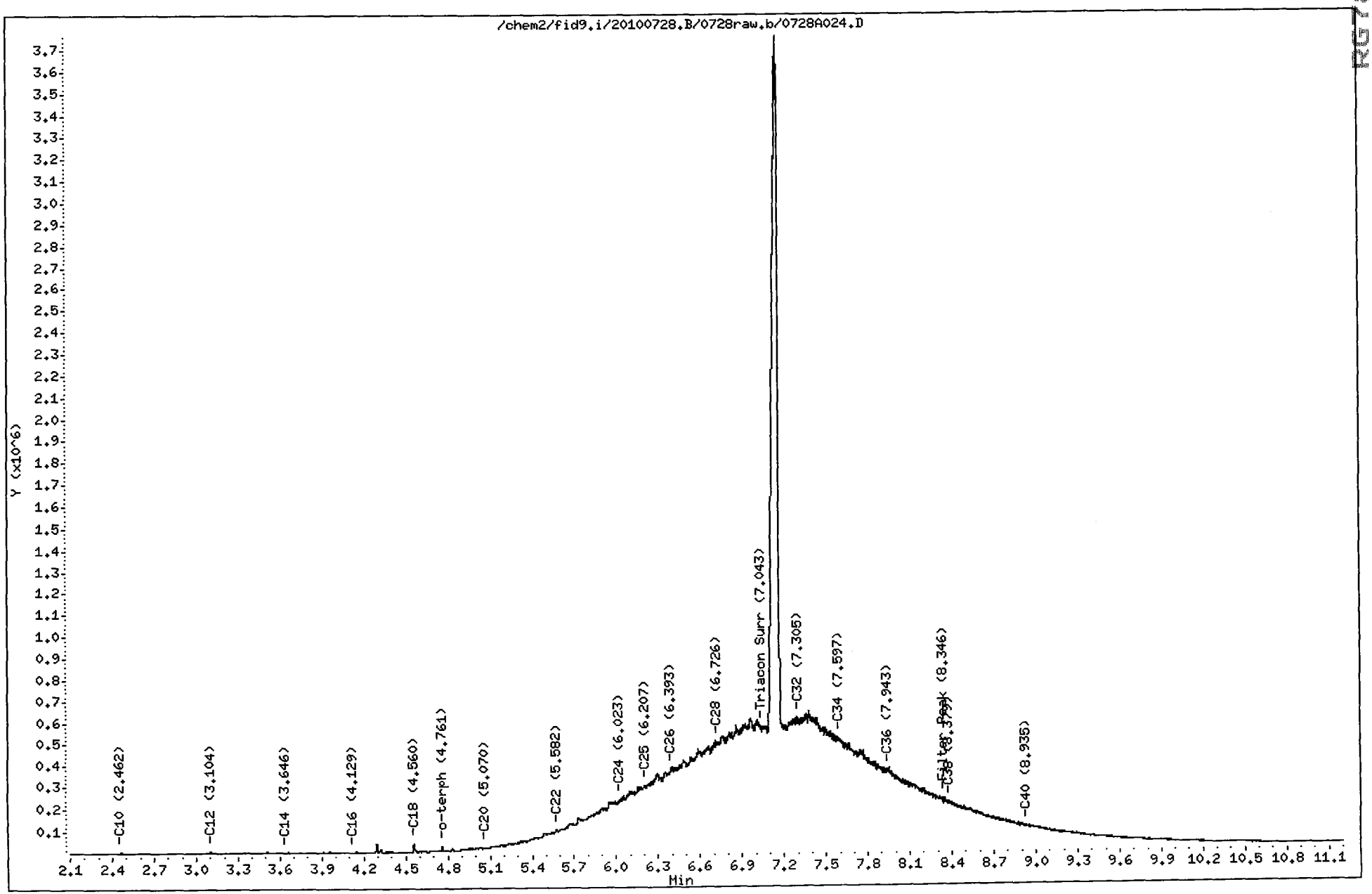
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A024.D
Date : 29-JUL-2010 00:40
Client ID:
Sample Info: MOIL 5000

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG78

Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG78 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): Diesel, Mobil, & Kerosene.

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

Dates: Curve: 7/29/10 Analysis Start: 8/11/10

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: mm **Date:** 8/12/10

Reviewer: [signature] **Date:** 8/12/10

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 8/11/10 Analysis: NWTPHD Analyst: M.D.

GC Program: TPH Column No: 802031 Column Type: rtx-1

Instrument Tune (.U or .CT.): — EM Voltage: —

Calibration File: — Curve Date: 7/28/10

IS/SS

Ical/Ccal

1700-1
1751-2
1730-3
1755-2

LCS/ICV

	Time	Filename	LabID	ClientId	DF
1	1253	0811A001.D	RINSE		1
2	1314	0811A002.D	RINSE		1
3	1336	0811A003.D	RT		1
4	1358	0811A004.D	IB		1
5	1419	0811A005.D	DIESEL#1		1
6	1441	0811A006.D	MOIL#1		1
7	1553	0811A007.D	RG78F		5
8	1615	0811A008.D	RG78I	PSB10-4-6-07	1
9	1636	0811A009.D	RG78A	PSB9A-11-13.	1
10	1658	0811A010.D	RG78B	PSB9A-1.5-2-	1
11	1720	0811A011.D	RG78C	PSB9A-2-4-07	1
12	1741	0811A012.D	RG78D	PSB9A-4-6-07	1
13	1803	0811A013.D	RG78E	PSB9A-0-0.5-	1
14	1825	0811A014.D	RG78F	PSB10-0-0.5-	1
15	1846	0811A015.D	RG78G	PSB10-1.5-2-	1
16	1908	0811A016.D	RG78H	PSB10-2-4-07	1
17	1929	0811A017.D	DIESEL#2		1
18	1951	0811A018.D	MOIL#2		1
19	2012	0811A019.D	RG78J	PSB10-8.5-10	1
20	2034	0811A020.D	RG78JMS	PSB10-8.5-10	1
21	2055	0811A021.D	RG78JMSD	PSB10-8.5-10	1
22	2116	0811A022.D	RG78K	PSB10-14-15	1
23	2138	0811A023.D	RG78L	PSB10-20-25-	1
24	2159	0811A024.D	RG78S	PSB9-8.5-9.5	1
25	2221	0811A025.D	RG78LCSS1	RG78LCSS1	1
26	2242	0811A026.D	RG78MBS1	RG78MBS1	1
27	2303	0811A027.D	DIESEL#3		1
28	2325	0811A028.D	MOIL#3		1

8/12/10

Maintenance / Comments none

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20100811.B

ARI Job No.: RINS Method: ftphfid9a.m Instrument: fid9.i Date: 11-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1253	0811A001.D	RINSE		1	NO MANUAL INTEGRATION
1314	0811A002.D	RINSE		1	NO MANUAL INTEGRATION
1336	0811A003.D	RT		1	C20, C24,
1358	0811A004.D	IB		1	NO MANUAL INTEGRATION
1419	0811A005.D	DIESEL#1		1	o-terph,
1441	0811A006.D	MOIL#1		1	Triacon Surr,
1553	0811A007.D	RG78F		5	o-terph, Triacon Surr,
1615	0811A008.D	RG78I		1	o-terph, Triacon Surr,
1636	0811A009.D	RG78A		1	NO MANUAL INTEGRATION
1658	0811A010.D	RG78B		1	NO MANUAL INTEGRATION
1720	0811A011.D	RG78C		1	NO MANUAL INTEGRATION
1741	0811A012.D	RG78D		1	Triacon Surr,
1803	0811A013.D	RG78E		1	Triacon Surr,
1825	0811A014.D	RG78F		1	o-terph, Triacon Surr,
1846	0811A015.D	RG78G		1	o-terph, Triacon Surr,
1908	0811A016.D	RG78H		1	o-terph, Triacon Surr,
1929	0811A017.D	DIESEL#2		1	o-terph,
1951	0811A018.D	MOIL#2		1	Triacon Surr,
2012	0811A019.D	RG78J		1	Triacon Surr,
2034	0811A020.D	RG78JMS		1	o-terph, Triacon Surr,
2055	0811A021.D	RG78JMSD		1	o-terph, Triacon Surr,
2116	0811A022.D	RG78K		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20100811.B

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2138	0811A023.D	RG78L		1	NO MANUAL INTEGRATION
2159	0811A024.D	RG78S		1	Triacon Surr, reassigned
2221	0811A025.D	RG78LCSS1		1	o-terph,
2242	0811A026.D	RG78MBS1		1	NO MANUAL INTEGRATION
2303	0811A027.D	DIESEL#3		1	o-terph,
2325	0811A028.D	MOIL#3		1	Triacon Surr,

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A003.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RT
Client ID:
Injection: 11-AUG-2010 13:36
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.560	0.009	904480	426993	GAS (Tol-C12)	1352476	64
C8	1.721	0.005	553518	281843	DIESEL (C12-C24)	1818283	69
C10	2.484	0.002	695913	303237	M.OIL (C24-C38)	2006242	157
C12	3.119	-0.001	609841	272471	AK-102 (C10-C25)	2428032	84
C14	3.675	-0.001	507753	295265	AK-103 (C25-C36)	1791029	358
C16	4.168	0.012	524156	298949			
C18	4.618	0.012	428795	300408			
C20	5.146	0.000	342827	301126			
C22	5.659	0.015	388143	298218			
C24	6.095	0.000	359130	296386			
C25	6.294	-0.001	467232	405452			
C26	6.479	0.003	313446	294373			
C28	6.814	0.018	353568	287823			
C32	7.408	-0.012	295737	279012	JP-4 (Tol-C14)	1654465	101
C34	7.732	-0.011	199596	262380	BUNKERC (C10-C38)	4430269	505
Filter Peak	8.332	-0.011	754	376			
C36	8.135	-0.014	134756	207914			
C38	8.642	-0.030	74020	108051			
C40	9.302	-0.006	45866	44391			
o-terph	4.792	-0.002	1242683	1074058	JET-A (C10-C18)	1515156	110
Triacon Surr	7.127	-0.018	919386	979417	JP8 (Tol-C16)	1958093	111

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1074058	41.7	92.6
Triacontane	979417	49.4	109.7

MO 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A003.D

Date : 11-AUG-2010 13:36

Client ID:

Sample Info: RT

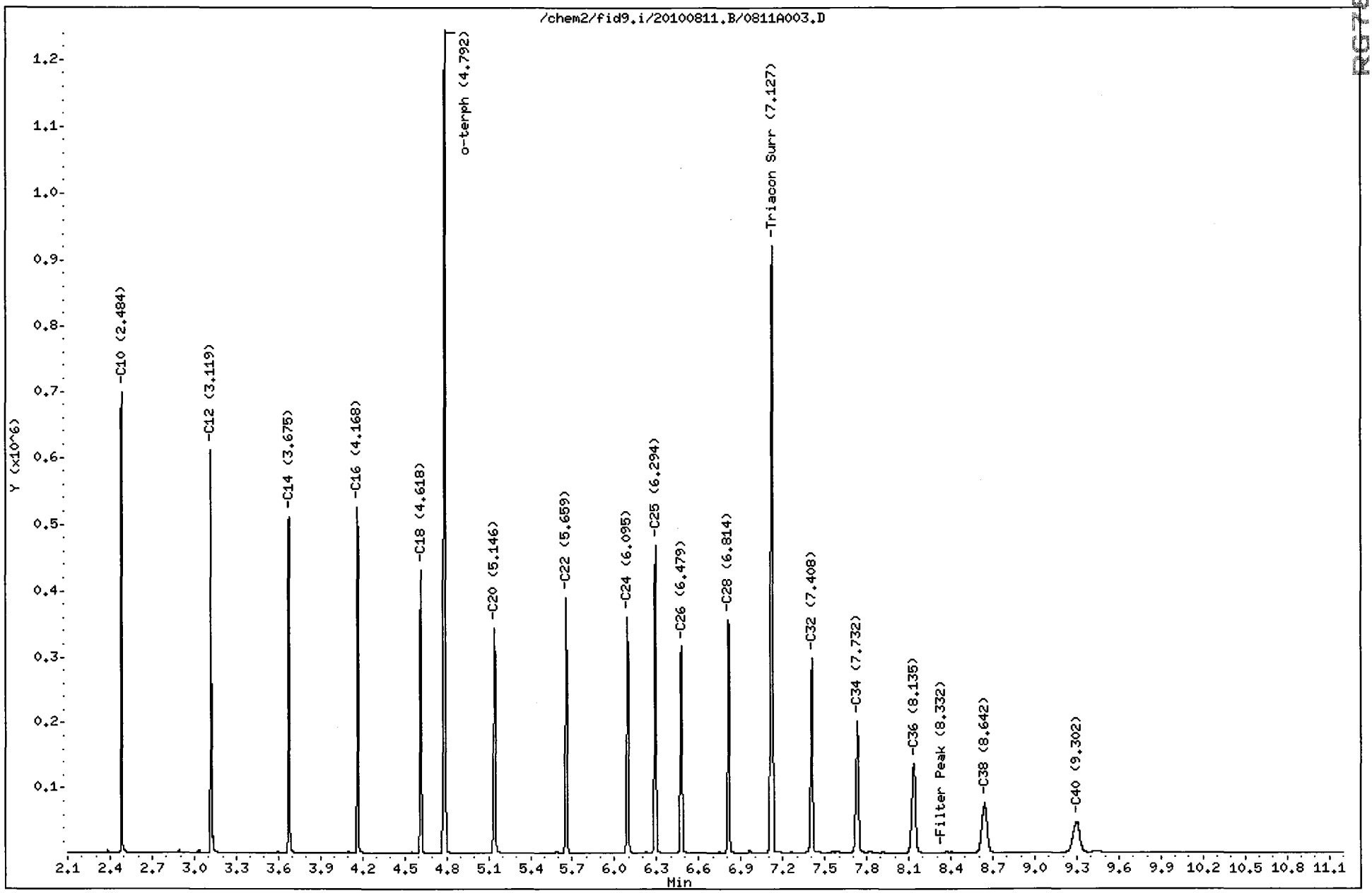
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RC78-61198



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A004.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: IB
Client ID:
Injection: 11-AUG-2010 13:58
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.563	0.012	1315	1714	GAS (Tol-C12)	33886	2
C8	1.714	-0.003	670	131	DIESEL (C12-C24)	12086	0
C10	2.493	0.012	1724	1673	M.OIL (C24-C38)	74779	6
C12	3.122	0.003	131	77	AK-102 (C10-C25)	21452	1
C14	3.680	0.004	69	11	AK-103 (C25-C36)	56349	11
C16	4.153	-0.002	44	23			
C18	4.601	-0.006	34	8			
C20	5.141	-0.005	48	9			
C22	5.644	-0.001	39	13			
C24	6.099	0.004	434	523			
C25	6.293	-0.001	686	735			
C26	6.477	0.001	571	653			
C28	6.796	0.000	212	100			
C32	7.408	-0.012	957	1856	JP-4 (Tol-C14)	36861	2
C34	7.741	-0.002	623	210	BUNKERC (C10-C38)	95536	11
Filter Peak	8.339	-0.004	624	795			
C36	8.151	0.002	683	187			
C38	8.678	0.006	832	907			
C40	9.306	-0.002	675	510			
o-terph	4.790	-0.004	1235547	1021382	JET-A (C10-C18)	14541	1
Triacon Surr	7.144	-0.001	818749	791422	JP8 (Tol-C16)	38416	2

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1021382	39.6	88.1
Triacontane	791422	39.9	88.7

8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A004.D

Date : 11-AUG-2010 13:58

Client ID:

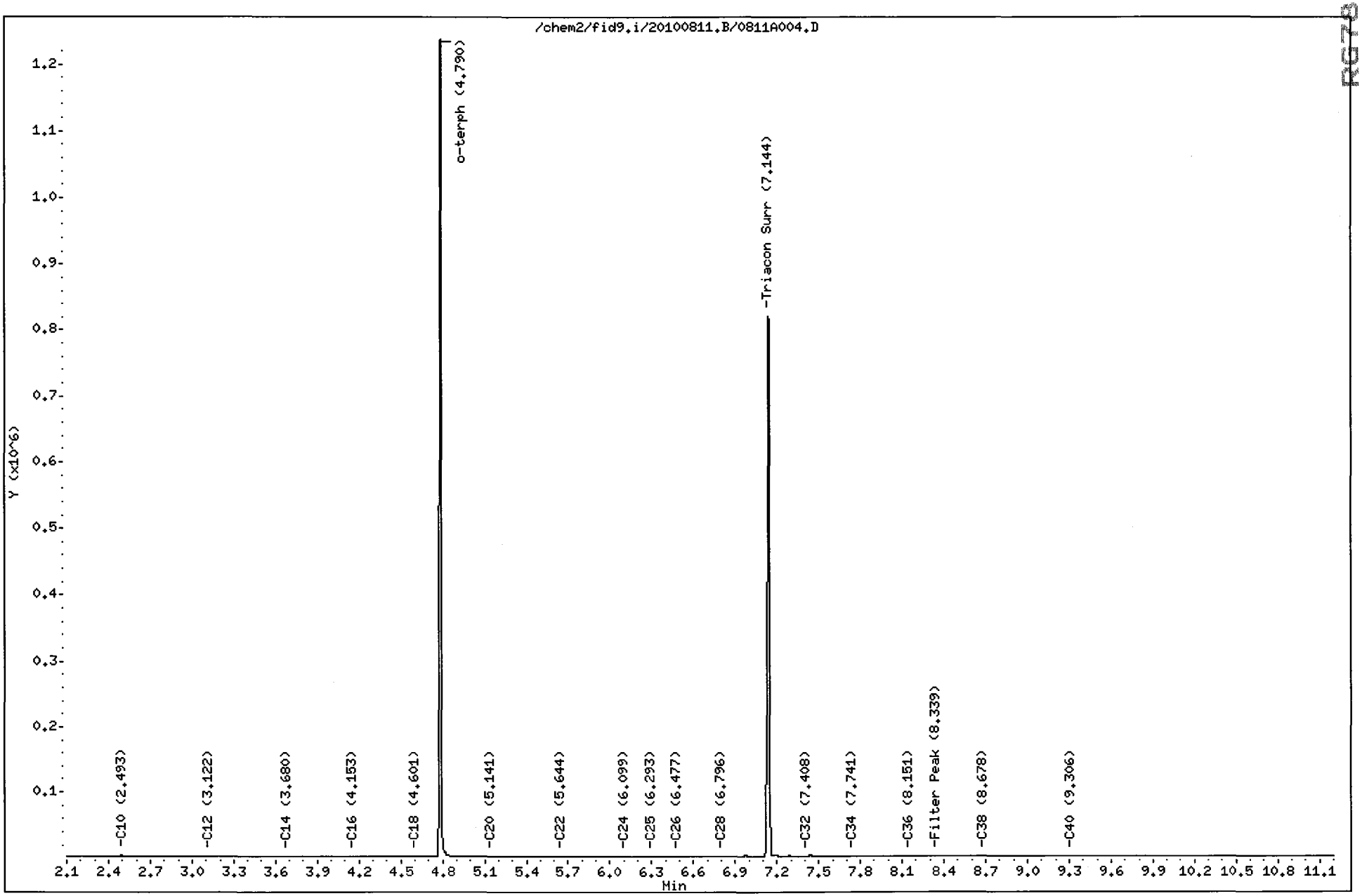
Sample Info: IB

Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A005.D ARI ID: DIESEL#1
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
Instrument: fid9.i Injection: 11-AUG-2010 14:19
Operator: MS Dilution Factor: 1
Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.567	0.016	10326	5644	GAS (Tol-C12)	959963	46
C8	1.726	0.010	5781	4280	DIESEL (C12-C24)	6463560	245
C10	2.485	0.003	40552	27708	M.OIL (C24-C38)	80659	6
C12	3.120	0.001	79696	44274	AK-102 (C10-C25)	7211713	248
C14	3.674	-0.001	149598	146975	AK-103 (C25-C36)	57737	12
C16	4.154	-0.002	60223	11948			
C18	4.616	0.010	207942	210506			
C20	5.141	-0.004	102972	113767			
C22	5.655	0.011	54249	57235			
C24	6.090	-0.005	15949	22698			
C25	6.288	-0.007	7012	11814			
C26	6.475	-0.001	2660	4021			
C28	6.797	0.000	235	101			
C32	7.420	0.000	203	261	JP-4 (Tol-C14)	2030088	124
C34	7.741	-0.002	203	144	BUNKERC (C10-C38)	7273507	829
Filter Peak	8.342	-0.002	137	30			
C36	8.147	-0.002	181	81			
C38	8.669	-0.002	148	115			
C40	9.305	-0.003	175	80			
o-terph	4.793	-0.001	1345106	1241451	JET-A (C10-C18)	5303221	384
Triacon Surr	7.161	0.015	89	47	JP8 (Tol-C16)	3686993	210

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1241451	48.2	107.1
Triacontane	47	0.0	0.0

8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A005.D

Date : 11-AUG-2010 14:19

Client ID: LORA LAKE APTS.

Sample Info: DIESEL#1

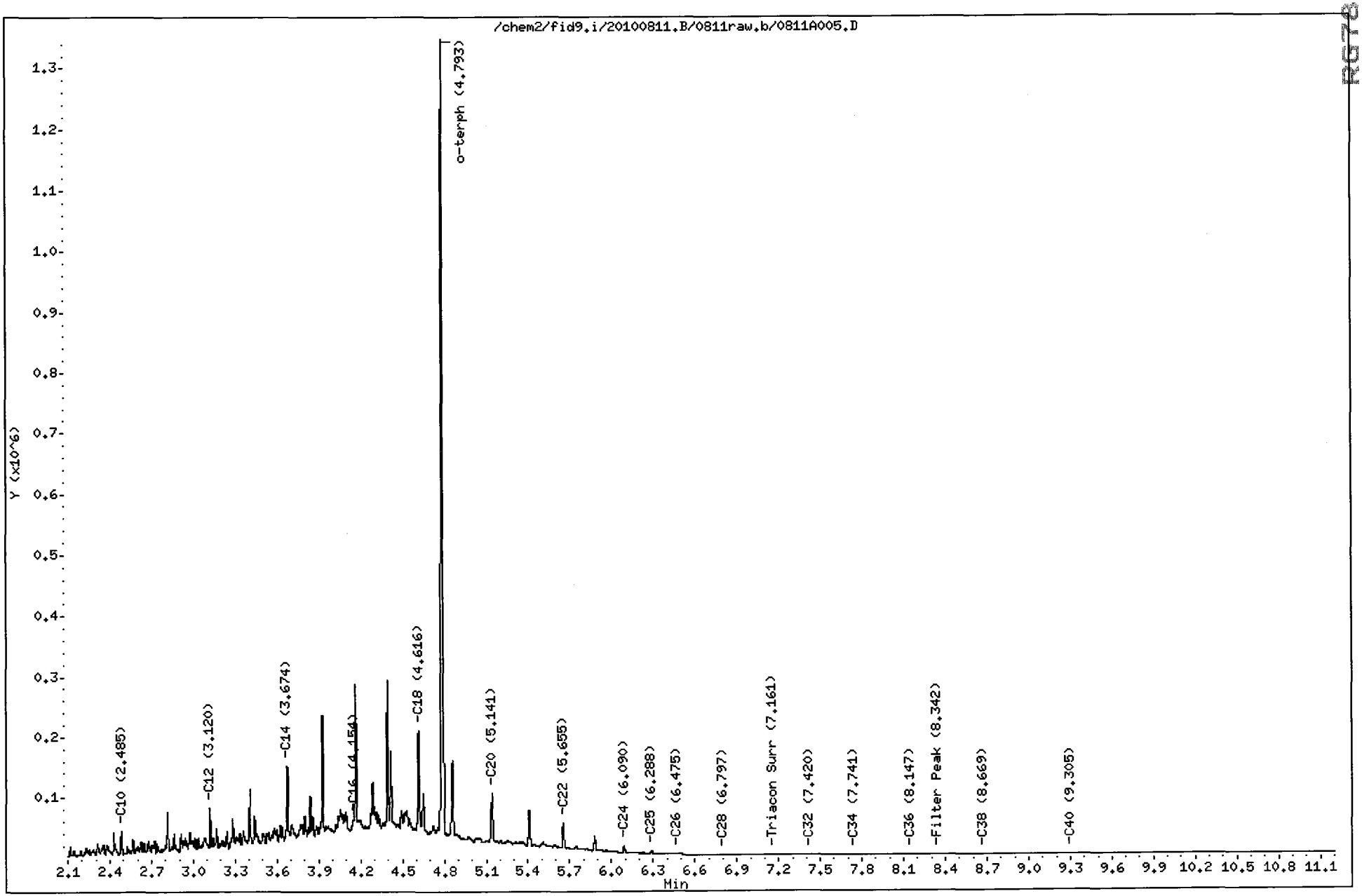
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RG78 : 01202



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A005.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: DIESEL#1
Client ID:
Injection: 11-AUG-2010 14:19
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.567	0.016	10326	5644	GAS (Tol-C12)	959963	46	
C8	1.726	0.010	5781	4280	DIESEL (C12-C24)	6583083	250	
C10	2.485	0.003	40552	27708	M.OIL (C24-C38)	80659	6	
C12	3.120	0.001	79696	44274	AK-102 (C10-C25)	7331237	252	M
C14	3.674	-0.001	149598	146975	AK-103 (C25-C36)	57737	12	
C16	4.154	-0.002	60223	11948				
C18	4.616	0.010	207942	210506				
C20	5.141	-0.004	102972	113767				
C22	5.655	0.011	54249	57235				
C24	6.090	-0.005	15949	22698				
C25	6.288	-0.007	7012	11814				
C26	6.475	-0.001	2660	4021				
C28	6.797	0.000	235	101				
C32	7.420	0.000	203	261	JP-4 (Tol-C14)	2030088	124	
C34	7.741	-0.002	203	144	BUNKERC (C10-C38)	7393031	843	M
Filter Peak	8.342	-0.002	137	30				
C36	8.147	-0.002	181	81				
C38	8.669	-0.002	148	115				
C40	9.305	-0.003	175	80				
o-terph	4.793	-0.001	1303283	1122727	JET-A (C10-C18)	5303221	384	
Triacon Surr	7.161	0.015	89	47	JP8 (Tol-C16)	3686993	210	

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1122727	43.6	96.8
Triacontane	47	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A005.D

Date : 11-AUG-2010 14:19

Client ID:

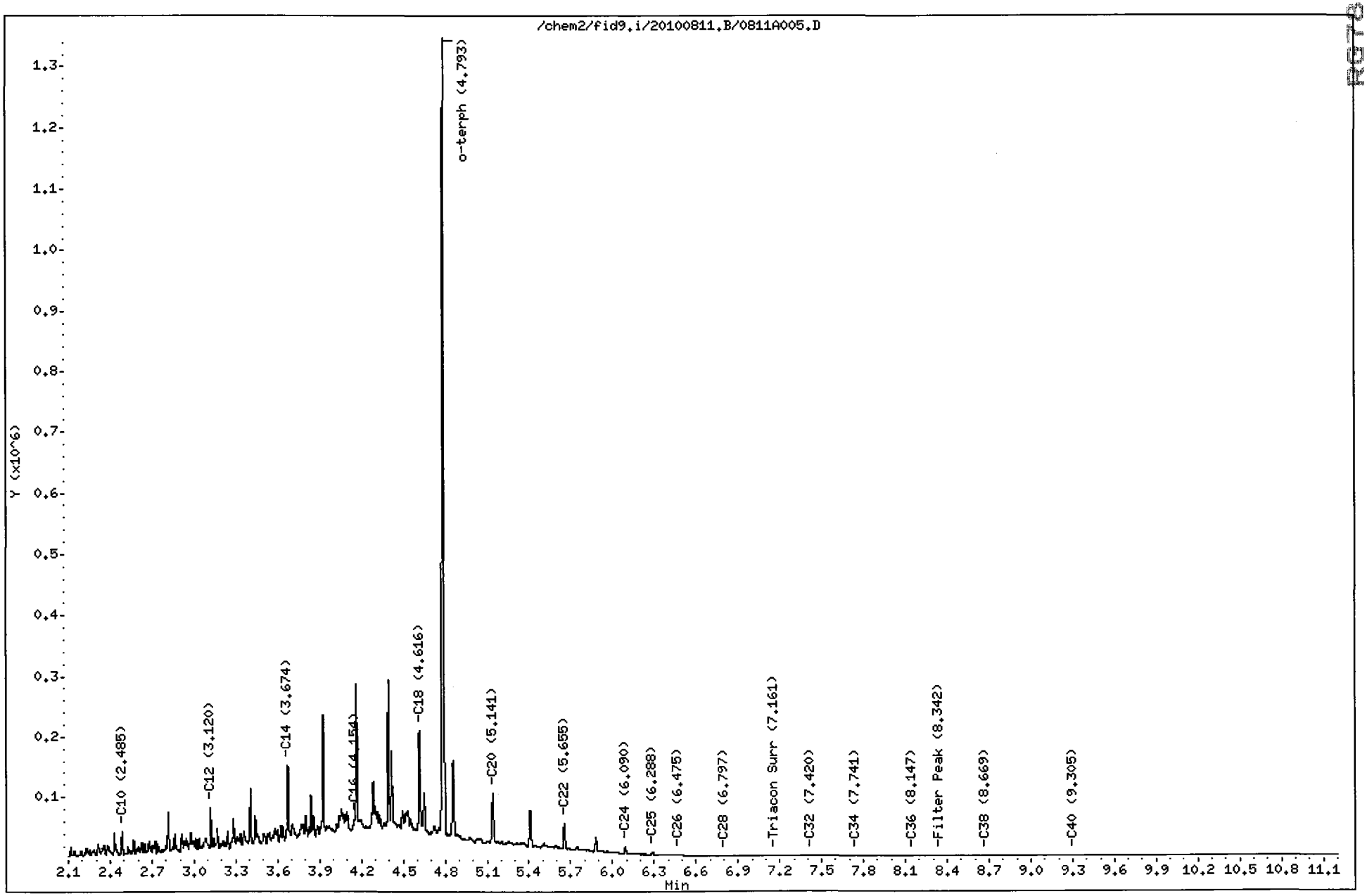
Sample Info: DIESEL#1

Column phase: RTX-1

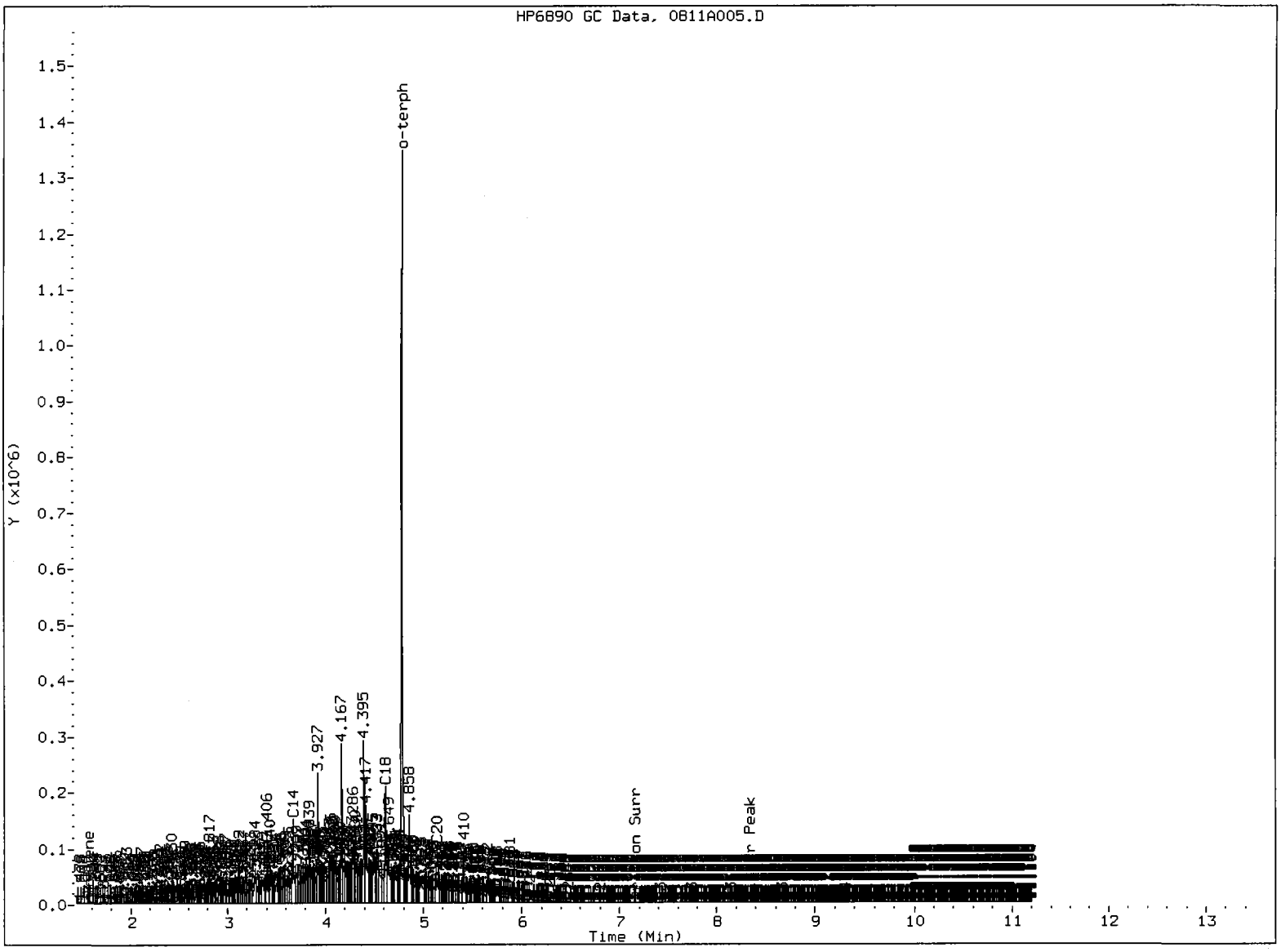
Instrument: fid9.i

Operator: MS

Column diameter: 0.25



FID:9A-2C/RTX-1 DIESEL#1 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MO Date: 8/24/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A006.D ARI ID: MOIL#1
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
Instrument: fid9.i Injection: 11-AUG-2010 14:41
Operator: MS Dilution Factor: 1
Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.546	-0.005	1354	743	GAS (Tol-C12)	29669	1
C8	1.710	-0.006	635	358	DIESEL (C12-C24)	745746	28
C10	2.485	0.004	875	801	M.OIL (C24-C38)	6286709	492
C12	3.121	0.002	73	12	AK-102 (C10-C25)	903686	31
C14	3.674	-0.002	51	35	AK-103 (C25-C36)	5350041	1068
C16	4.154	-0.002	49	8			
C18	4.618	0.011	651	788			
C20	5.144	-0.002	2675	1239			
C22	5.645	0.001	10399	3256			
C24	6.096	0.001	25843	5116			
C25	6.296	0.001	33919	11945			
C26	6.474	-0.002	38409	15179			
C28	6.799	0.003	47768	17960			
C32	7.424	0.004	63631	46616	JP-4 (Tol-C14)	31569	2
C34	7.738	-0.006	49383	23285	BUNKERC (C10-C38)	7037813	802
Filter Peak	8.343	-0.001	29407	13164			
C36	8.148	-0.001	35356	18669			
C38	8.667	-0.004	20602	13267			
C40	9.305	-0.003	11430	5708			
o-terph	4.782	-0.011	2508	2770	JET-A (C10-C18)	23845	2
Triacon Surr	7.150	0.005	849006	1085850	JP8 (Tol-C16)	33098	2

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2770	0.1	0.2
Triacontane	1085850	54.8	121.7

8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A006.D

Date : 11-AUG-2010 14:41

Client ID: LORA LAKE APTS.

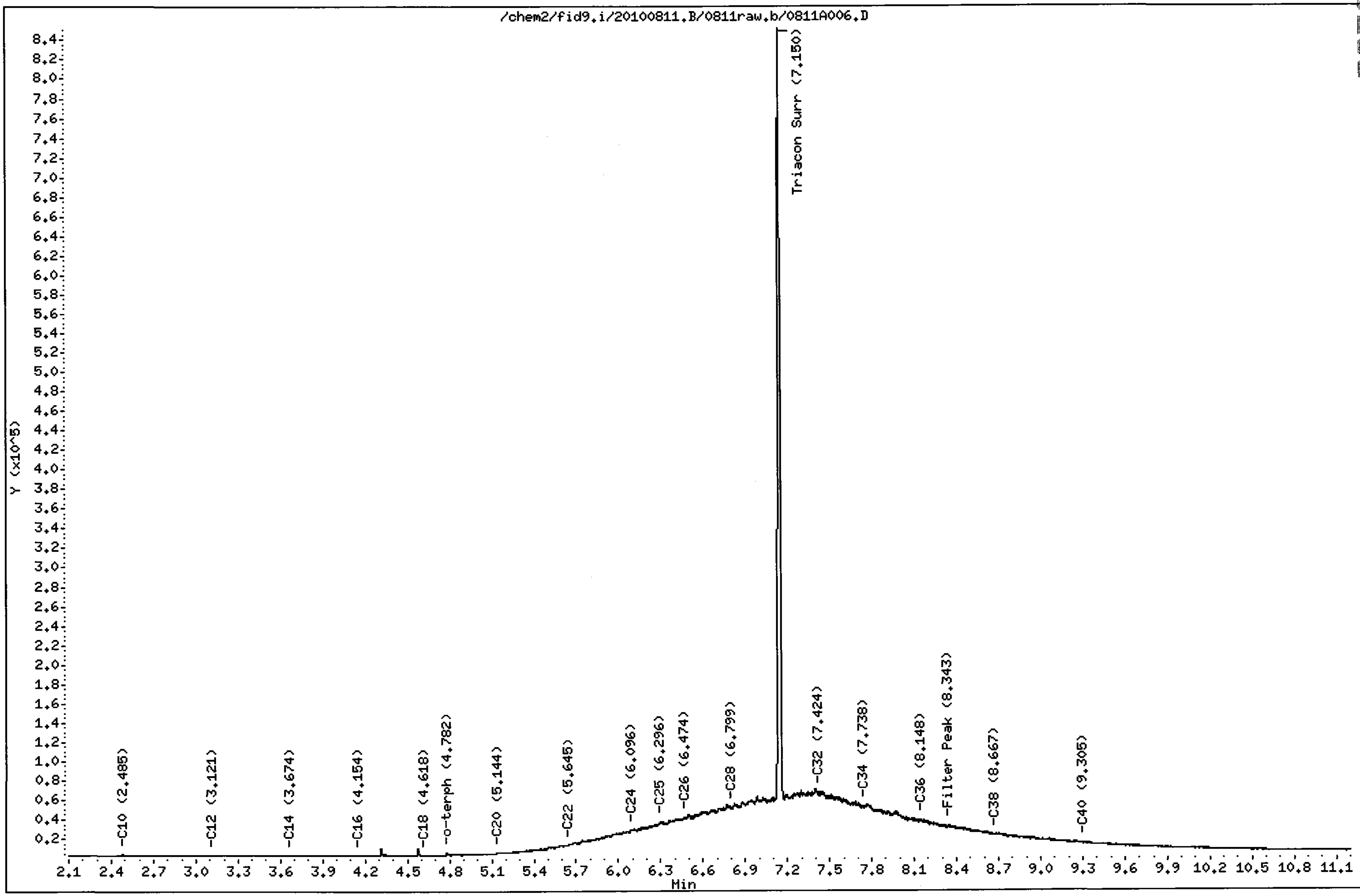
Instrument: fid9.i

Sample Info: MOIL#1

Operator: MS

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A006.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: MOIL#1
Client ID:
Injection: 11-AUG-2010 14:41
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.546	-0.005	1354	743	GAS (Tol-C12)	29669	1
C8	1.710	-0.006	635	358	DIESEL (C12-C24)	745746	28
C10	2.485	0.004	875	801	M.OIL (C24-C38)	6483680	507
C12	3.121	0.002	73	12	AK-102 (C10-C25)	903686	31
C14	3.674	-0.002	51	35	AK-103 (C25-C36)	5547012	1107 M
C16	4.154	-0.002	49	8			
C18	4.618	0.011	651	788			
C20	5.144	-0.002	2675	1239			
C22	5.645	0.001	10399	3256			
C24	6.096	0.001	25843	5116			
C25	6.296	0.001	33919	11945			
C26	6.474	-0.002	38409	15179			
C28	6.799	0.003	47768	17960			
C32	7.424	0.004	63631	46616	JP-4 (Tol-C14)	31569	2
C34	7.738	-0.006	49383	23285	BUNKERC (C10-C38)	7234784	825 M
Filter Peak	8.343	-0.001	29407	13164			
C36	8.148	-0.001	35356	18669			
C38	8.667	-0.004	20602	13267			
C40	9.305	-0.003	11430	5708			
o-terph	4.782	-0.011	2508	2770	JET-A (C10-C18)	23845	2
Triacon Surr	7.150	0.005	789624	890015	JP8 (Tol-C16)	33098	2

M Indicates manual integration within range.
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2770	0.1	0.2
Triacontane	890015	44.9	99.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010