Semivolatile Organics
Standard Raw Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Calibration Date: 05/03/07

LAB FILE ID: RRF1 =0010503 RRF5 =0050503 RRF10 =0100503
RRF25 =0250503 RRF30 =0300503 RRF40 =0400503

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 30	RRF 40	___ RRF	%RSD /R^2	
Phenol	2.330	2.443	2.663	2.300	2.163	2.154	2.342	8.2	*
Bis(2-Chloroethyl)ether	2.036	1.982	2.090	1.794	1.709	1.672	1.880	9.5	
2-Chlorophenol	1.623	1.737	1.828	1.650	1.549	1.548	1.656	6.6	
1,3-Dichlorobenzene	1.766	1.736	1.824	1.650	1.518	1.519	1.669	7.7	
1,4-Dichlorobenzene	1.820	1.755	1.830	1.638	1.535	1.525	1.684	8.2	*
1,2-Dichlorobenzene	1.704	1.692	1.729	1.557	1.428	1.415	1.588	8.9	
Benzyl alcohol	1.170	1.273	1.320	1.149	1.055	1.035	1.167	9.8	
2,2'-oxybis(1-Chloropropane)	2.971	2.920	3.145	2.760	2.594	2.537	2.821	8.3	
2-Methylphenol	1.430	1.660	1.795	1.601	1.500	1.467	1.576	8.7	
Hexachloroethane	0.760	0.759	0.802	0.726	0.681	0.677	0.734	6.7	
N-Nitroso-di-n-propylamine	1.213	1.288	1.366	1.190	1.112	1.099	1.211	8.5	~
4-Methylphenol	1.409	1.722	1.788	1.586	1.453	1.460	1.570	10.0	
Nitrobenzene	0.486	0.506	0.545	0.490	0.476	0.474	0.496	5.3	
Isophorone	0.890	0.970	1.016	0.911	0.866	0.858	0.918	6.8	
2-Nitrophenol		0.191	0.216	0.199	0.202	0.204	0.202	4.5	*
2,4-Dimethylphenol	0.340	0.421	0.462	0.429	0.400	0.399	0.408	10.0	
Bis(2-Chloroethoxy)methane	0.580	0.602	0.637	0.554	0.534	0.526	0.572	7.4	
2,4-Dichlorophenol		0.312	0.317	0.298	0.271	0.270	0.294	7.6	*
1,2,4-Trichlorobenzene	0.368	0.362	0.364	0.339	0.310	0.312	0.342	7.8	
Naphthalene	1.298	1.251	1.294	1.141	1.073	1.052	1.185	9.3	
Benzoic acid		0.216	0.272	0.292	0.282	0.305	0.273	12.6	
4-Chloroaniline		0.555	0.575	0.520	0.486	0.483	0.524	7.8	
Hexachlorobutadiene	0.172	0.182	0.185	0.171	0.158	0.157	0.171	6.9	*
4-Chloro-3-methylphenol		0.362	0.390	0.355	0.332	0.332	0.354	6.9	*
2-Methylnaphthalene	0.648	0.658	0.650	0.593	0.530	0.535	0.602	9.8	
Hexachlorocyclopentadiene		0.216	0.270	0.298	0.292	0.312	0.278	13.5	~
2,4,6-Trichlorophenol		0.388	0.432	0.415	0.392	0.401	0.406	4.5	*
2,4,5-Trichlorophenol		0.411	0.466	0.450	0.412	0.423	0.432	5.6	
2-Chloronaphthalene	1.350	1.382	1.411	1.261	1.182	1.185	1.295	7.7	
2-Nitroaniline		0.467	0.520	0.479	0.476	0.488	0.486	4.2	
Acenaphthylene	2.170	2.244	2.320	2.068	1.929	1.921	2.109	7.8	
Dimethylphthalate	1.248	1.349	1.413	1.281	1.195	1.227	1.286	6.3	
2,6-Dinitrotoluene		0.247	0.285	0.267	0.268	0.274	0.268	5.1	
Acenaphthene	1.318	1.352	1.372	1.217	1.146	1.167	1.262	7.7	*
3-Nitroaniline		0.350	0.399	0.362	0.358	0.369	0.368	5.1	
2,4-Dinitrophenol		0.011	0.038	0.069	0.091	0.110	0.064	62.7	~
Dibenzofuran	1.870	1.892	1.853	1.621	1.485	1.488	1.702	11.3	

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-1

6C

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Calibration Date: 05/03/07

LAB FILE ID: RRF1 =0010503 RRF5 =0050503 RRF10 =0100503
RRF25 =0250503 RRF30 =0300503 RRF40 =0400503

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 30	RRF 40	___ RRF	%RSD /R^2	
4-Nitrophenol		0.180	0.228	0.219	0.204	0.214	0.209	8.7	~
2,4-Dinitrotoluene		0.287	0.368	0.344	0.349	0.359	0.341	9.2	
Fluorene	1.421	1.469	1.488	1.301	1.186	1.178	1.340	10.3	
4-Chlorophenyl-phenylether	0.638	0.682	0.693	0.621	0.576	0.580	0.632	7.8	
Diethylphthalate	1.315	1.362	1.407	1.258	1.168	1.177	1.281	7.6	
4-Nitroaniline		0.356	0.394	0.388	0.353	0.379	0.374	5.0	
4,6-Dinitro-2-methylphenol		0.049	0.090	0.101	0.117	0.120	0.095	30.1	
N-Nitrosodiphenylamine (1)	0.654	0.692	0.704	0.620	0.588	0.583	0.640	8.0	
4-Bromophenyl-phenylether	0.265	0.265	0.269	0.236	0.225	0.222	0.247	8.9	
Hexachlorobenzene	0.272	0.285	0.286	0.251	0.237	0.233	0.261	9.0	
Pentachlorophenol		0.138	0.157	0.164	0.152	0.163	0.155	6.7	*
Phenanthrene	1.445	1.459	1.461	1.271	1.196	1.176	1.335	10.2	
Anthracene	1.454	1.511	1.514	1.331	1.241	1.224	1.379	9.6	
Carbazole	1.220	1.304	1.291	1.158	1.079	1.069	1.187	8.6	
Di-n-butylphthalate	1.438	1.578	1.605	1.454	1.353	1.353	1.464	7.4	
Fluoranthene	1.303	1.410	1.378	1.238	1.136	1.133	1.266	9.3	*
Pyrene	1.672	1.707	1.838	1.610	1.568	1.561	1.659	6.3	
Butylbenzylphthalate	0.691	0.788	0.841	0.800	0.777	0.784	0.780	6.3	
Benzo(a)anthracene	1.468	1.550	1.638	1.486	1.408	1.414	1.494	5.9	
3,3'-Dichlorobenzidine		0.609	0.613	0.579	0.531	0.543	0.575	6.5	
Chrysene	1.548	1.567	1.619	1.494	1.414	1.426	1.511	5.4	
bis(2-Ethylhexyl)phthalate	0.626	0.709	0.742	0.688	0.668	0.677	0.685	5.7	
Di-n-octylphthalate	1.167	1.231	1.266	1.178	1.130	1.156	1.188	4.3	*
Benzo(b)fluoranthene	1.403	1.390	1.398	1.225	1.182	1.183	1.297	8.5	
Benzo(k)fluoranthene	1.320	1.411	1.361	1.240	1.084	1.058	1.246	11.8	
Benzo(a)pyrene	1.396	1.436	1.405	1.245	1.159	1.145	1.298	10.1	*
Indeno(1,2,3-cd)pyrene	1.499	1.665	1.690	1.522	1.428	1.403	1.534	7.8	
Dibenzo(a,h)anthracene	1.223	1.390	1.409	1.273	1.181	1.150	1.271	8.5	
Benzo(g,h,i)perylene	1.383	1.515	1.542	1.380	1.325	1.290	1.406	7.2	
N-Nitrosodimethylamine		1.287	1.396	1.198	1.205	1.206	1.258	6.8	
Aniline		3.270	3.342	2.912	2.714	2.718	2.991	10.0	
Benzidine		1.051	1.093	0.738	0.842	0.792	0.903	17.6	
Pyridine		2.372	2.378	2.093	2.036	2.055	2.187	7.9	
1-methylnaphthalene	0.610	0.606	0.627	0.579	0.526	0.528	0.579	7.5	
Azobenzene (1,2-DP-Hydrazine	1.875	2.039	2.146	1.894	1.790	1.787	1.922	7.4	
2-Fluorophenol		1.934	2.012	1.781	1.680	1.684	1.818	8.2	

(1) Cannot be seperated from Diphenylamine
* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-2

6C

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Calibration Date: 05/03/07

LAB FILE ID: RRF1 =0010503 RRF5 =0050503 RRF10 =0100503
RRF25 =0250503 RRF30 =0300503 RRF40 =0400503

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 30	RRF 40	___ RRF	%RSD /R^2
Phenol-d5		2.269	2.408	2.091	1.949	1.950	2.133	9.5
2-Chlorophenol-d4		1.590	1.640	1.462	1.344	1.340	1.475	9.3
1,2-Dichlorobenzene-d4		1.017	1.026	0.892	0.793	0.783	0.902	13.0
Nitrobenzene-d5		0.488	0.518	0.458	0.456	0.459	0.476	5.7
2-Fluorobiphenyl		1.472	1.486	1.316	1.227	1.249	1.350	9.1
2,4,6-Tribromophenol		0.198	0.217	0.209	0.194	0.200	0.204	4.4
Terphenyl-d14		1.080	1.150	1.038	0.993	0.994	1.051	6.3

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-3

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt6.i/20070503.b/0010503.d
Level 2: /chem1/nt6.i/20070503.b/0050503.d
Level 3: /chem1/nt6.i/20070503.b/0100503.d
Level 4: /chem1/nt6.i/20070503.b/0250503.d
Level 5: /chem1/nt6.i/20070503.b/0300503.d
Level 6: /chem1/nt6.i/20070503.b/0400503.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	$\overline{RRF}$	% RSD	
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
133 Butylatedhydroxytoluene	0.96667	1.04496	1.06236	0.92350	0.87085	0.86281	0.95519	8.923	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	___ RRF	% RSD	
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
144 alpha-Terpineol	0.37899	0.41960	0.43310	0.39051	0.36857	0.36535	0.39269	7.093	
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
123 Acetophenone	2.33675	2.36286	2.48124	2.15083	2.02984	2.01122	2.22879	8.662	
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
143 1,4-Dioxane	0.86104	0.86859	0.90110	0.77748	0.77708	0.78017	0.82758	6.731	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
118 Triphenyl Phosphate	0.25043	0.28166	0.29903	0.27878	0.26912	0.27217	0.27520	5.818	
117 Butyl Diphenyl Phosphate	0.35805	0.39764	0.44009	0.37821	0.37013	0.36516	0.38488	7.865	
116 Dibutyl Phenyl Phosphate	0.58869	0.68352	0.69431	0.62240	0.58865	0.58514	0.62712	7.953	
115 Tributyl Phosphate	1.36249	1.56354	1.62799	1.38858	1.33948	1.30639	1.43141	9.203	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.87516	2.03874	2.14562	1.89414	1.78998	1.78703	1.92178	7.441	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 1-methylnaphthalene	0.61060	0.60653	0.62697	0.57879	0.52629	0.52795	0.57952	7.498	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	___ RRF	% RSD	
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
162 1,2,3,4-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
3 Phenol	2.32996	2.44323	2.66299	2.29958	2.16275	2.15443	2.34216	8.158	
4 Bis(2-Chloroethyl)ether	2.03592	1.98222	2.08953	1.79415	1.70880	1.67163	1.88037	9.476	
6 2-Chlorophenol	1.62262	1.73740	1.82774	1.64958	1.54860	1.54770	1.65561	6.646	
7 1,3-Dichlorobenzene	1.76566	1.73653	1.82364	1.65049	1.51774	1.51928	1.66889	7.741	
9 1,4-Dichlorobenzene	1.82048	1.75474	1.83020	1.63755	1.53503	1.52512	1.68385	8.169	
11 Benzyl alcohol	1.16984	1.27272	1.31991	1.14941	1.05512	1.03513	1.16702	9.754	
12 1,2-Dichlorobenzene	1.70404	1.69187	1.72923	1.55680	1.42784	1.41506	1.58747	8.941	
13 2-Methylphenol	1.42956	1.66002	1.79539	1.60073	1.50027	1.46662	1.57543	8.747	
14 2,2'-oxybis(1-Chloropropane)	2.97064	2.91953	3.14531	2.76014	2.59391	2.53712	2.82111	8.285	
15 4-Methylphenol	1.40929	1.72232	1.78852	1.58655	1.45333	1.46023	1.57004	9.978	
16 N-Nitroso-di-n-propylamine	1.21342	1.28810	1.36624	1.18984	1.11194	1.09931	1.21147	8.481	
17 Hexachloroethane	0.75959	0.75872	0.80224	0.72619	0.68140	0.67722	0.73423	6.665	
19 Nitrobenzene	0.48619	0.50653	0.54520	0.49001	0.47646	0.47412	0.49641	5.347	
20 Isophorone	0.88962	0.96961	1.01597	0.91068	0.86575	0.85780	0.91824	6.796	
21 2-Nitrophenol	+++++	0.19088	0.21579	0.19934	0.20193	0.20459	0.20251	4.460	
22 2,4-Dimethylphenol	0.33974	0.42073	0.46186	0.42884	0.40044	0.39935	0.40849	9.966	
23 Bis(2-Chloroethoxy)methane	0.57977	0.60198	0.63667	0.55431	0.53370	0.52597	0.57207	7.433	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	___ RRF	% RSD	
24 Benzoic acid	+++++	0.21560	0.27219	0.29172	0.28242	0.30510	0.27341	12.624	
25 2,4-Dichlorophenol	+++++	0.31215	0.31684	0.29773	0.27072	0.27030	0.29354	7.556	
26 1,2,4-Trichlorobenzene	0.36839	0.36181	0.36416	0.33921	0.30993	0.31158	0.34251	7.769	
28 Naphthalene	1.29759	1.25105	1.29368	1.14115	1.07274	1.05165	1.18464	9.336	
29 4-Chloroaniline	+++++	0.55462	0.57522	0.51967	0.48635	0.48284	0.52374	7.809	
30 Hexachlorobutadiene	0.17225	0.18259	0.18500	0.17099	0.15783	0.15696	0.17094	6.935	
31 4-Chloro-3-methylphenol	+++++	0.36224	0.39034	0.35486	0.33151	0.33194	0.35418	6.890	
32 2-Methylnaphthalene	0.64803	0.65754	0.65011	0.59267	0.53004	0.53472	0.60219	9.771	
33 Hexachlorocyclopentadiene	+++++	0.21631	0.26973	0.29831	0.29233	0.31226	0.27779	13.548	
34 2,4,6-Trichlorophenol	+++++	0.38774	0.43252	0.41518	0.39229	0.40105	0.40575	4.499	
35 2,4,5-Trichlorophenol	+++++	0.41128	0.46599	0.44981	0.41228	0.42287	0.43245	5.632	
37 2-Chloronaphthalene	1.35007	1.38200	1.41143	1.26111	1.18228	1.18473	1.29527	7.734	
38 2-Nitroaniline	+++++	0.46682	0.52038	0.47922	0.47617	0.48808	0.48613	4.237	
39 Dimethylphthalate	1.24808	1.34896	1.41269	1.28132	1.19510	1.22715	1.28555	6.339	
40 Acenaphthylene	2.17041	2.24416	2.31991	2.06851	1.92927	1.92076	2.10884	7.818	
41 2,6-Dinitrotoluene	+++++	0.24728	0.28506	0.26702	0.26833	0.27437	0.26841	5.139	
43 3-Nitroaniline	+++++	0.35042	0.39916	0.36170	0.35857	0.36868	0.36771	5.104	
44 Acenaphthene	1.31795	1.35224	1.37189	1.21741	1.14615	1.16681	1.26208	7.749	
45 2,4-Dinitrophenol	+++++	0.01088	0.03752	0.06934	0.09087	0.11002	0.06373	62.727	<- PP
46 Dibenzofuran	1.86973	1.89155	1.85261	1.62080	1.48492	1.48818	1.70130	11.342	5/8/07
47 4-Nitrophenol	+++++	0.18013	0.22753	0.21938	0.20386	0.21360	0.20890	8.735	
48 2,4-Dinitrotoluene	+++++	0.28749	0.36759	0.34440	0.34888	0.35945	0.34156	9.239	
49 Fluorene	1.42111	1.46904	1.48762	1.30115	1.18657	1.17844	1.34065	10.345	
50 Diethylphthalate	1.31524	1.36237	1.40664	1.25786	1.16773	1.17716	1.28116	7.626	
51 4-Chlorophenyl-phenylether	0.63845	0.68155	0.69330	0.62099	0.57636	0.57987	0.63175	7.815	
52 4-Nitroaniline	+++++	0.35588	0.39439	0.38842	0.35327	0.37945	0.37428	5.018	
53 4,6-Dinitro-2-methylphenol	+++++	0.04904	0.08999	0.10081	0.11743	0.12019	0.09549	30.115	PP
54 N-Nitrosodiphenylamine	0.65375	0.69154	0.70370	0.62049	0.58819	0.58281	0.64008	8.039	
56 4-Bromophenyl-phenylether	0.26462	0.26533	0.26932	0.23578	0.22495	0.22183	0.24697	8.853	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	___ RRF	% RSD	
57 Hexachlorobenzene	0.27198	0.28530	0.28571	0.25143	0.23731	0.23338	0.26085	8.969	
58 Pentachlorophenol	+++++	0.13850	0.15747	0.16387	0.15218	0.16281	0.15497	6.660	
60 Phenanthrene	1.44526	1.45920	1.46060	1.27122	1.19575	1.17636	1.33473	10.162	
61 Anthracene	1.45453	1.51093	1.51401	1.33079	1.24076	1.22368	1.37912	9.559	
62 Carbazole	1.21969	1.30390	1.29132	1.15753	1.07894	1.06903	1.18673	8.600	
63 Di-n-butylphthalate	1.43859	1.57803	1.60491	1.45444	1.35273	1.35271	1.46357	7.382	
64 Fluoranthene	1.30305	1.40953	1.37794	1.23841	1.13605	1.13320	1.26636	9.329	
65 Pyrene	1.67215	1.70676	1.83818	1.61011	1.56833	1.56142	1.65949	6.302	
67 Butylbenzylphthalate	0.69112	0.78768	0.84146	0.79966	0.77718	0.78446	0.78026	6.318	
68 Benzo(a)anthracene	1.46789	1.54983	1.63753	1.48652	1.40849	1.41360	1.49398	5.853	
70 3,3'-Dichlorobenzidine	+++++	0.60891	0.61280	0.57946	0.53079	0.54281	0.57495	6.502	
71 Chrysene	1.54815	1.56689	1.61892	1.49352	1.41424	1.42609	1.51130	5.378	
72 bis(2-Ethylhexyl)phthalate	0.62631	0.70868	0.74220	0.68754	0.66802	0.67742	0.68503	5.702	
73 Di-n-octylphthalate	1.16741	1.23122	1.26597	1.17771	1.13054	1.15600	1.18814	4.259	
74 Benzo(b)fluoranthene	1.40285	1.39009	1.39765	1.22501	1.18157	1.18334	1.29675	8.547	
75 Benzo(k)fluoranthene	1.31961	1.41085	1.36138	1.24011	1.08413	1.05824	1.24572	11.765	
76 Benzo(a)pyrene	1.39632	1.43646	1.40508	1.24538	1.15947	1.14501	1.29795	10.085	
78 Indeno(1,2,3-cd)pyrene	1.49945	1.66480	1.68981	1.52232	1.42752	1.40327	1.53453	7.773	
79 Dibenzo(a,h)anthracene	1.22272	1.39020	1.40884	1.27272	1.18146	1.14981	1.27096	8.492	
80 Benzo(g,h,i)perylene	1.38289	1.51476	1.54175	1.37998	1.32486	1.29026	1.40575	7.216	
90 N-Nitrosodimethylamine	+++++	1.28700	1.39651	1.19757	1.20465	1.20613	1.25837	6.791	
91 Aniline	+++++	3.27022	3.34173	2.91229	2.71447	2.71803	2.99135	10.003	
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
93 Benzidine	+++++	1.05119	1.09289	0.73816	0.84203	0.79232	0.90332	17.604	PP
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
98 Retene	0.87125	0.89855	0.95573	0.83264	0.79956	0.80324	0.86016	7.052	
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAY-2007 10:33
End Cal Date : 03-MAY-2007 13:16
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20070507.b/SW846.m
Cal Date : 08-May-2007 13:12 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	30.000 Level 5	40.000 Level 6	RRF	% RSD	
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103 Pyridine	+++++	2.37206	2.37829	2.09322	2.03572	2.05465	2.18679	7.922	
$ 1 2-Fluorophenol	+++++	1.93396	2.01252	1.78083	1.68047	1.68390	1.81834	8.229	
$ 137 d8-1,4-Dioxane	+++++	0.88575	0.93640	0.79911	0.80467	0.80152	0.84549	7.395	
$ 2 Phenol-d5	+++++	2.26912	2.40807	2.09131	1.94911	1.94995	2.13351	9.469	
$ 5 2-Chlorophenol-d4	+++++	1.58955	1.64002	1.46208	1.34402	1.34040	1.47521	9.331	
$ 10 1,2-Dichlorobenzene-d4	+++++	1.01711	1.02573	0.89188	0.79277	0.78294	0.90209	12.971	
$ 18 Nitrobenzene-d5	+++++	0.48788	0.51813	0.45840	0.45573	0.45936	0.47590	5.671	
$ 36 2-Fluorobiphenyl	+++++	1.47150	1.48639	1.31559	1.22670	1.24889	1.34981	9.072	
$ 55 2,4,6-Tribromophenol	+++++	0.19800	0.21669	0.20903	0.19459	0.19977	0.20362	4.448	
$ 66 Terphenyl-d14	+++++	1.07970	1.15002	1.03789	0.99324	0.99362	1.05089	6.281	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0010503.d
Lab Smp Id: ABN 1
Inj Date : 03-MAY-2007 12:43
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 1
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 12:43 Cal File: 0010503.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJK 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.448	5.451	(0.741)	15445	1.00000	0.9951
$ 2 Phenol-d5	99	6.933	6.942	(0.943)	17778	1.00000	0.9762
3 Phenol	94	6.949	6.963	(0.945)	19889	1.00000	0.9948
$ 5 2-Chlorophenol-d4	132	7.056	7.059	(0.960)	12246	1.00000	0.9725
4 Bis(2-Chloroethyl)ether	93	7.029	7.038	(0.956)	17379	1.00000	1.083
6 2-Chlorophenol	128	7.077	7.081	(0.963)	13851	1.00000	0.9801
7 1,3-Dichlorobenzene	146	7.291	7.294	(0.992)	15072	1.00000	1.058
* 8 1,4-Dichlorobenzene-d4	152	7.350	7.353	(1.000)	170724	20.0000	
9 1,4-Dichlorobenzene	146	7.371	7.380	(1.003)	15540	1.00000	1.081
$ 10 1,2-Dichlorobenzene-d4	152	7.644	7.647	(1.040)	9075	1.00000	1.179
12 1,2-Dichlorobenzene	146	7.660	7.668	(1.042)	14546	1.00000	1.073
11 Benzyl alcohol	108	7.628	7.636	(1.038)	9986	1.00000	1.002(M)
14 2,2'-oxybis(1-Chloropropane)	45	7.889	7.893	(1.073)	25358	1.00000	1.053
13 2-Methylphenol	108	7.868	7.877	(1.070)	12203	1.00000	0.9074
17 Hexachloroethane	117	8.146	8.149	(1.108)	6484	1.00000	1.035
16 N-Nitroso-di-n-propylamine	70	8.098	8.112	(1.102)	10358	1.00000	1.002
15 4-Methylphenol	108	8.092	8.106	(1.101)	12030	1.00000	0.8976(M)
$ 18 Nitrobenzene-d5	82	8.263	8.272	(0.882)	13663	1.00000	0.9306
19 Nitrobenzene	77	8.290	8.299	(0.885)	14999	1.00000	0.9794
20 Isophorone	82	8.669	8.678	(0.925)	27445	1.00000	0.9688
21 2-Nitrophenol	139	8.803	8.812	(0.940)	4438	1.00000	0.7104
22 2,4-Dimethylphenol	107	8.926	8.934	(0.953)	10481	1.00000	0.8317
23 Bis(2-Chloroethoxy)methane	93	9.070	9.079	(0.968)	17886	1.00000	1.013
24 Benzoic acid	105	9.033	9.218	(0.964)	5519	5.00000	0.6543(M)
25 2,4-Dichlorophenol	162	9.188	9.191	(0.981)	5393	1.00000	0.5955
26 1,2,4-Trichlorobenzene	180	9.316	9.319	(0.994)	11365	1.00000	1.076
* 27 Naphthalene-d8	136	9.369	9.372	(1.000)	617004	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	9.396	9.405	(1.003)	40031	1.00000	1.095
	29 4-Chloroaniline	127	9.546	9.554	(1.019)	16648	1.00000	1.030(M)
	30 Hexachlorobutadiene	225	9.727	9.730	(1.038)	5314	1.00000	1.008
	31 4-Chloro-3-methylphenol	107	10.368	10.371	(1.107)	9248	1.00000	0.8464(M)
	32 2-Methylnaphthalene	141	10.518	10.521	(1.123)	19992	1.00000	1.076
	33 Hexachlorocyclopentadiene	237	10.902	10.906	(0.892)	1499	1.00000	0.3488
	34 2,4,6-Trichlorophenol	196	11.041	11.039	(0.903)	3538	1.00000	0.5636
	35 2,4,5-Trichlorophenol	196	11.111	11.093	(0.909)	6162	1.00000	0.9210(M)
$	36 2-Fluorobiphenyl	172	11.164	11.173	(0.913)	22686	1.00000	1.086(M)
	37 2-Chloronaphthalene	162	11.292	11.301	(0.924)	20888	1.00000	1.042
	38 2-Nitroaniline	65	11.527	11.536	(0.943)	5133	1.00000	0.6825
	39 Dimethylphthalate	163	11.912	11.921	(0.974)	19310	1.00000	0.9709(M)
	40 Acenaphthylene	152	11.971	11.974	(0.979)	33580	1.00000	1.029(M)
	41 2,6-Dinitrotoluene	165	11.998	12.006	(0.981)	2246	1.00000	0.5408
*	42 Acenaphthene-d10	164	12.227	12.231	(1.000)	309435	20.0000	
	43 3-Nitroaniline	138	12.206	12.214	(0.998)	4121	1.00000	0.7244(M)
	44 Acenaphthene	153	12.270	12.279	(1.003)	20391	1.00000	1.044(M)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	12.537	12.546	(1.025)	28928	1.00000	1.099(M)
	47 4-Nitrophenol	109	12.574	12.546	(1.028)	1452	1.00000	0.4492(M)
	48 2,4-Dinitrotoluene	165	12.623	12.631	(1.032)	2331	1.00000	0.4411
	50 Diethylphthalate	149	13.066	13.080	(1.069)	20349	1.00000	1.027(M)
	49 Fluorene	166	13.093	13.096	(1.071)	21987	1.00000	1.060(M)
	51 4-Chlorophenyl-phenylether	204	13.125	13.128	(1.073)	9878	1.00000	1.011
	52 4-Nitroaniline	138	13.216	13.213	(1.081)	4136	1.00000	0.7142(M)
	53 4,6-Dinitro-2-methylphenol	198	13.269	13.288	(0.909)	144	5.00000	0.06847(M)
	54 N-Nitrosodiphenylamine	169	13.333	13.336	(0.914)	14398	1.00000	1.021
$	55 2,4,6-Tribromophenol	330	13.525	13.523	(1.106)	2322	1.00000	0.7371(M)
	56 4-Bromophenyl-phenylether	248	13.905	13.908	(0.953)	5828	1.00000	1.071
	57 Hexachlorobenzene	284	14.118	14.127	(0.967)	5990	1.00000	1.043
	58 Pentachlorophenol	266	14.423	14.426	(0.988)	1268	1.00000	0.3715(M)
*	59 Phenanthrene-d10	188	14.594	14.597	(1.000)	440473	20.0000	
	60 Phenanthrene	178	14.626	14.640	(1.002)	31830	1.00000	1.083
	61 Anthracene	178	14.701	14.709	(1.007)	32034	1.00000	1.055
	62 Carbazole	167	14.994	14.998	(1.027)	26862	1.00000	1.028
	63 Di-n-butylphthalate	149	15.732	15.735	(1.078)	31683	1.00000	0.9829
	64 Fluoranthene	202	16.565	16.574	(1.135)	28698	1.00000	1.029
	65 Pyrene	202	16.918	16.926	(0.895)	30207	1.00000	1.008
$	66 Terphenyl-d14	244	17.249	17.257	(0.912)	19321	1.00000	1.018
	67 Butylbenzylphthalate	149	18.141	18.150	(0.960)	12485	1.00000	0.8858
	68 Benzo(a)anthracene	228	18.884	18.887	(0.999)	26517	1.00000	0.9825
*	69 Chrysene-d12	240	18.905	18.914	(1.000)	361295	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.900	18.908	(1.000)	10231	1.00000	0.9850
	71 Chrysene	228	18.942	18.956	(1.002)	27967	1.00000	1.024
	72 bis(2-Ethylhexyl)phthalate	149	19.151	19.154	(0.953)	17031	1.00000	0.9143
*	134 Di-n-octylphthalate-d4	153	20.086	20.083	(1.000)	543854	20.0000	
	73 Di-n-octylphthalate	149	20.096	20.099	(1.001)	31745	1.00000	0.9826

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	20.534	20.548	(0.975)	33519	1.00000	1.082
75 Benzo(k)fluoranthene	252	20.566	20.580	(0.976)	31530	1.00000	1.059
76 Benzo(a)pyrene	252	20.978	20.992	(0.996)	33363	1.00000	1.076 (M)
* 77 Perylene-d12	264	21.063	21.066	(1.000)	477869	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.500	22.519	(1.068)	35827	1.00000	0.9771 (M)
79 Dibenzo(a,h)anthracene	278	22.527	22.546	(1.069)	29215	1.00000	0.9620
80 Benzo(g,h,i)perylene	276	22.879	22.909	(1.086)	33042	1.00000	0.9837 (M)
90 N-Nitrosodimethylamine	74	3.017	3.031	(0.411)	11175	1.00000	1.040
103 Pyridine	79	3.023	2.999	(0.411)	20141	1.00000	1.079 (M)
91 Aniline	93	6.912	6.920	(0.940)	28913	1.00000	1.132
105 1-methylnaphthalene	141	10.689	10.692	(1.141)	18837	1.00000	1.054 (M)
93 Benzidine	184	16.832	16.835	(0.890)	18564	1.00000	1.138 (M)
98 Retene	219	17.495	17.503	(0.925)	15739	1.00000	1.013
111 Azobenzene (1,2-DP-Hydrazine)	77	13.376	13.384	(1.094)	29012	1.00000	0.9757
144 alpha-Terpineol	59	9.433	9.442	(1.007)	11692	1.00000	0.9651
143 1,4-Dioxane	88	2.414	2.406	(0.328)	7350	1.00000	1.040
$ 137 d8-1,4-Dioxane	96	2.366	2.364	(0.322)	7276	1.00000	1.008
133 Butylatedhydroxytoluene	205	12.420	12.423	(1.016)	14956	1.00000	1.012
115 Tributyl Phosphate	99	13.445	13.459	(0.921)	30007	1.00000	0.9518
116 Dibutyl Phenyl Phosphate	175	15.171	15.179	(1.040)	12965	1.00000	0.9387
117 Butyl Diphenyl Phosphate	94	16.854	16.862	(0.891)	6468	1.00000	0.9303
118 Triphenyl Phosphate	326	18.451	18.459	(0.976)	4524	1.00000	0.9100
123 Acetophenone	105	8.034	8.042	(1.093)	19947	1.00000	1.048

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: 0010503.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	170724	25.01
27 Naphthalene-d8	497815	248908	995630	617004	23.94
42 Acenaphthene-d10	245165	122582	490330	309435	26.21
59 Phenanthrene-d10	363763	181882	727526	440473	21.09
69 Chrysene-d12	285968	142984	571936	361295	26.34
134 Di-n-octylphthala	466956	233478	933912	543854	16.47
77 Perylene-d12	427729	213864	855458	477869	11.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.02
27 Naphthalene-d8	9.37	8.87	9.87	9.37	-0.04
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.01
59 Phenanthrene-d10	14.60	14.10	15.10	14.59	-0.03
69 Chrysene-d12	18.91	18.41	19.41	18.90	-0.05
134 Di-n-octylphthala	20.08	19.58	20.58	20.09	0.01
77 Perylene-d12	21.07	20.57	21.57	21.06	-0.02

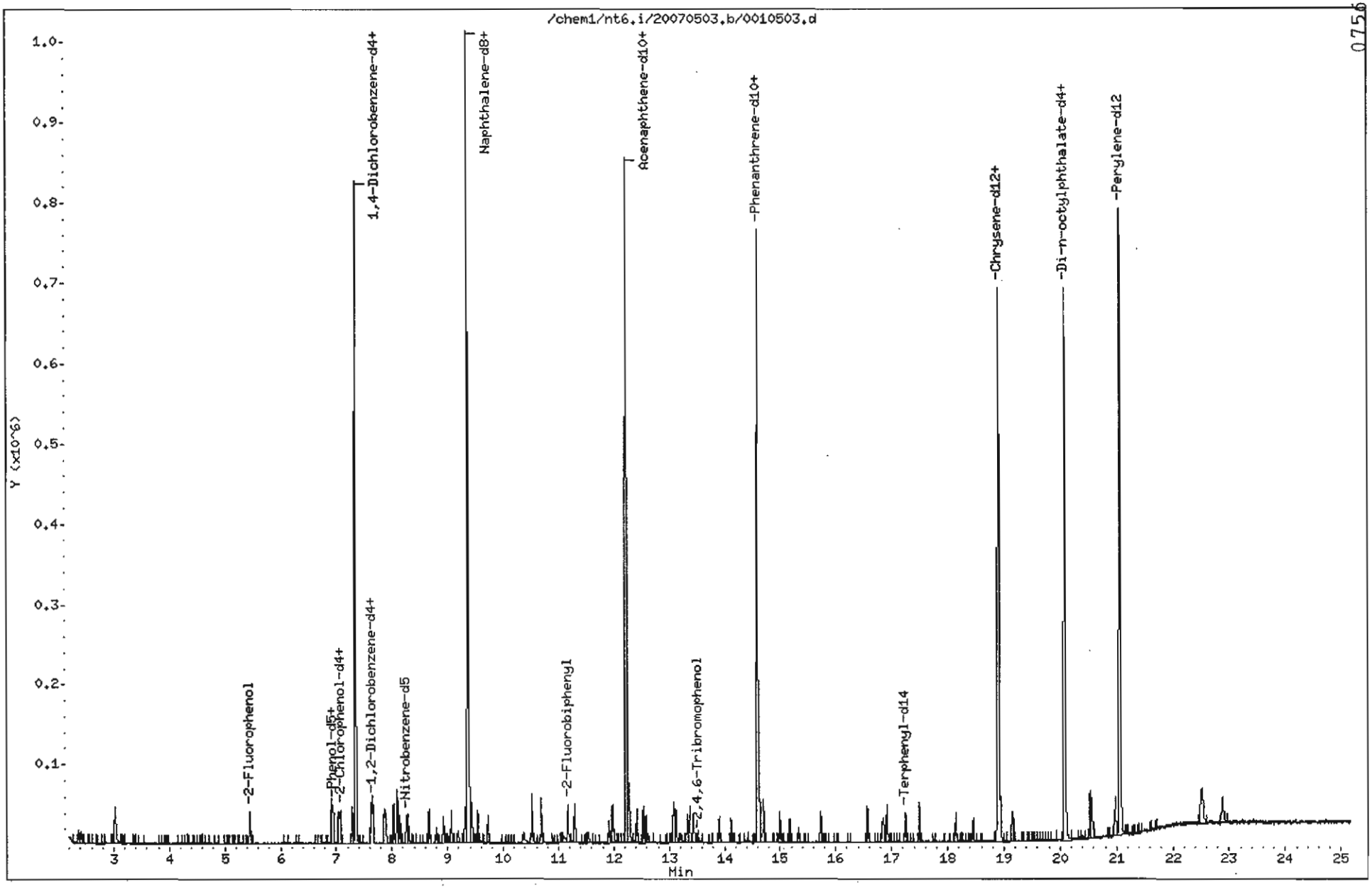
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20070503.b/0010503.d
Date : 03-MAY-2007 12:43
Client ID:
Sample Info: ABN 1

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5



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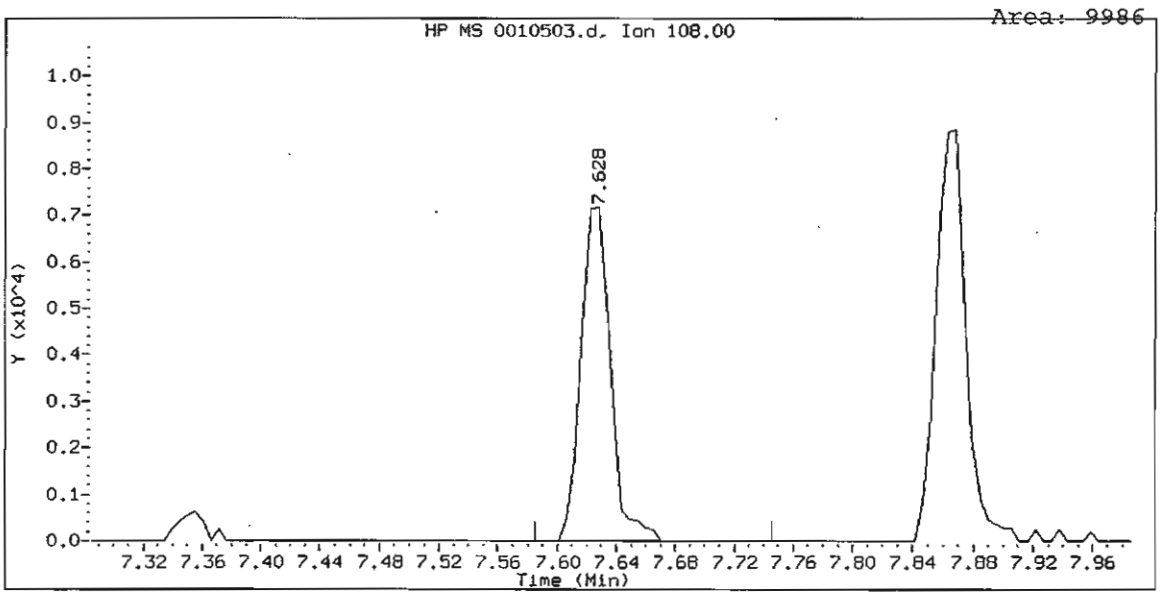
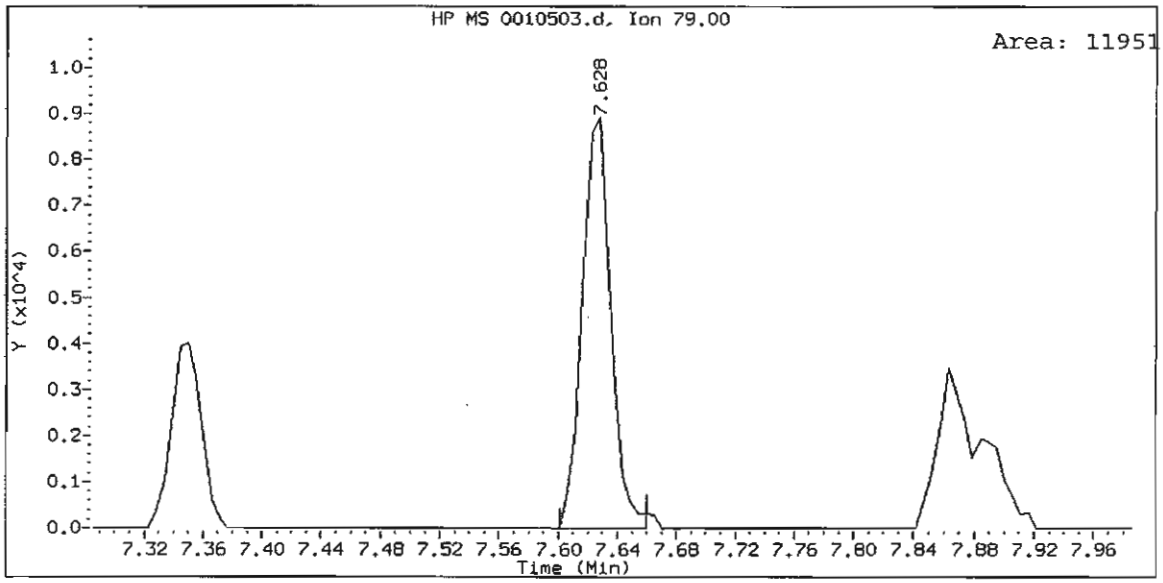
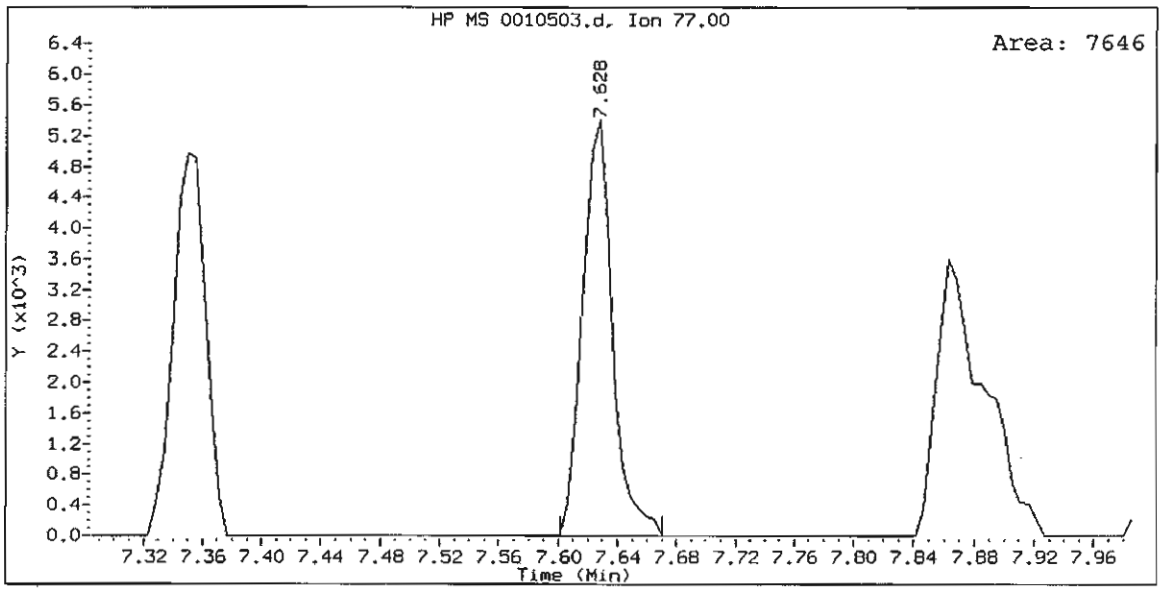
Benzyl alcohol Amount: 1.00







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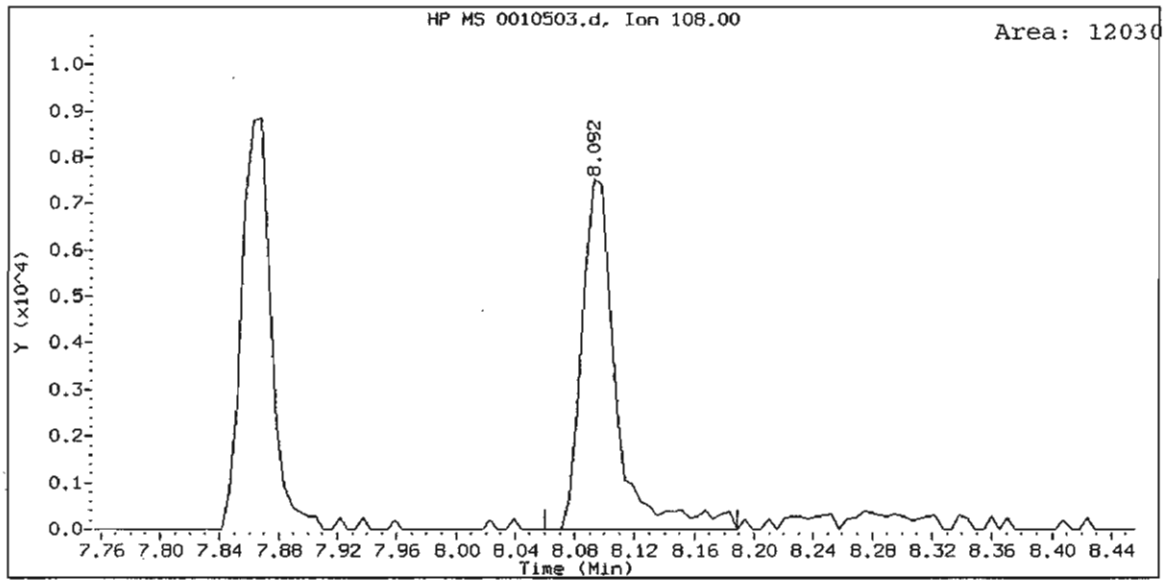
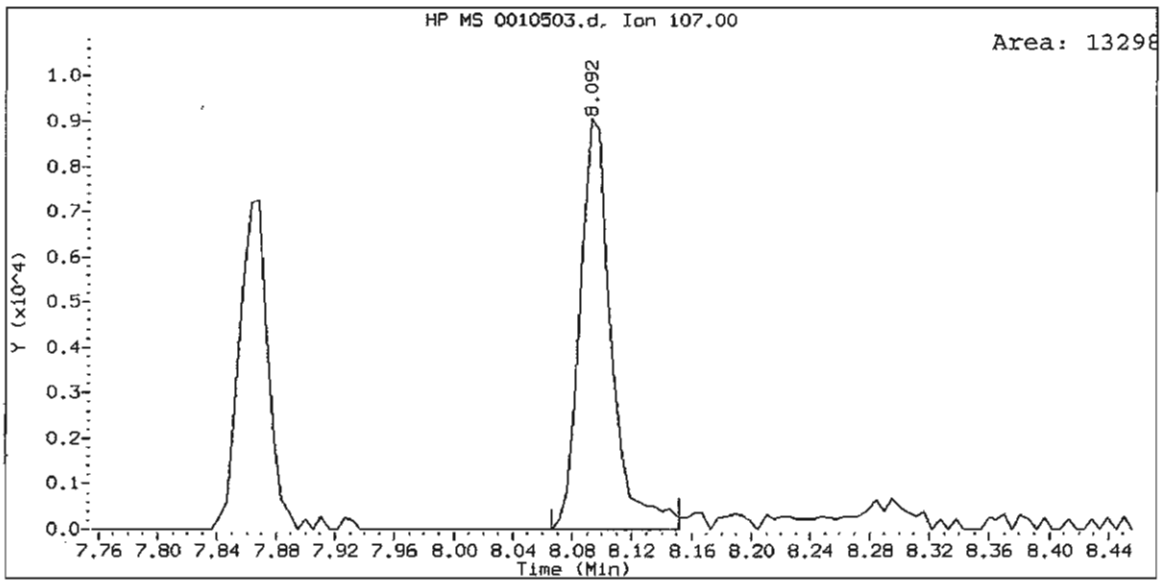
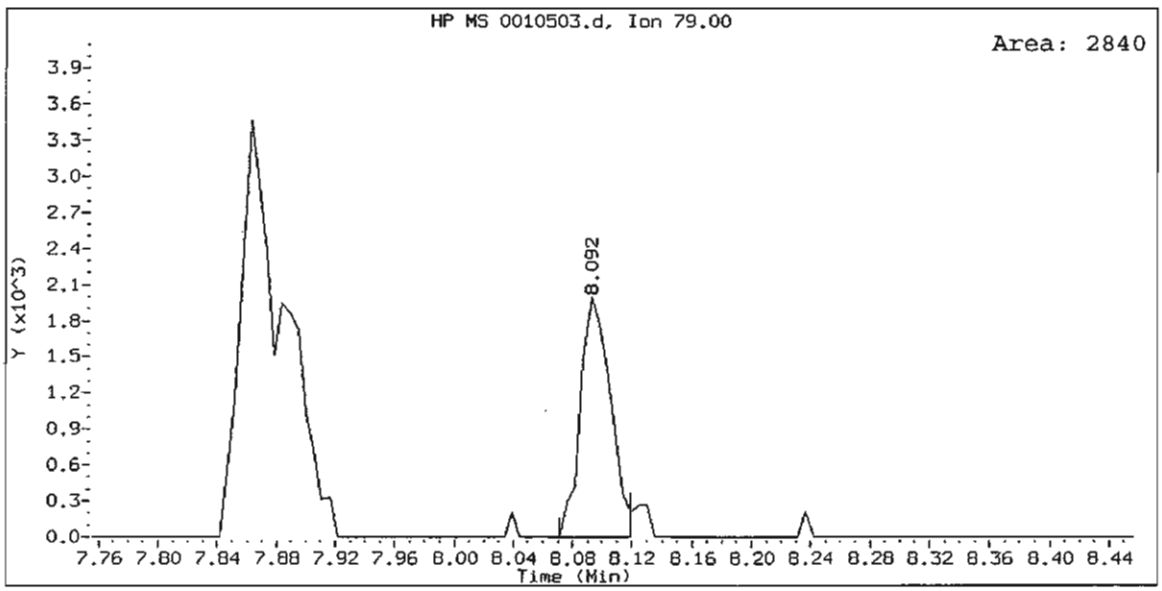
4-Methylphenol Amount: 0.90







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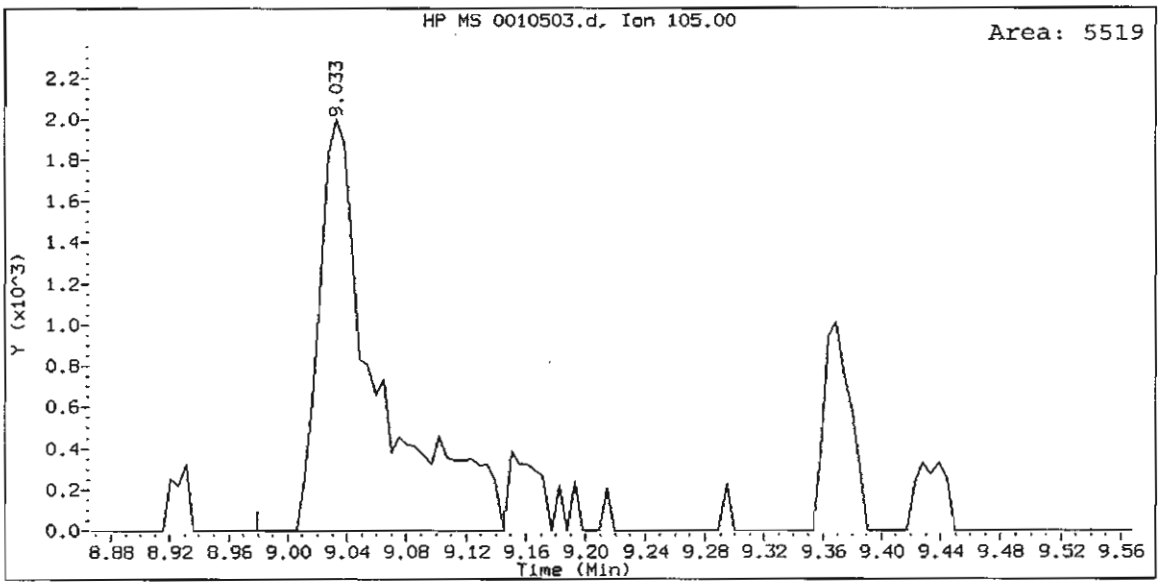
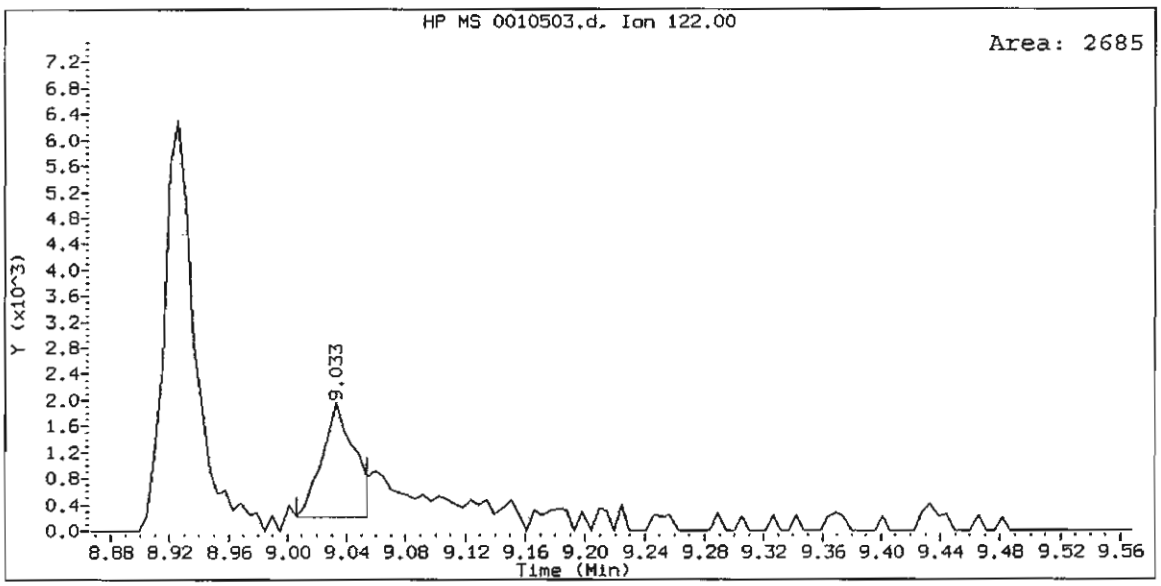
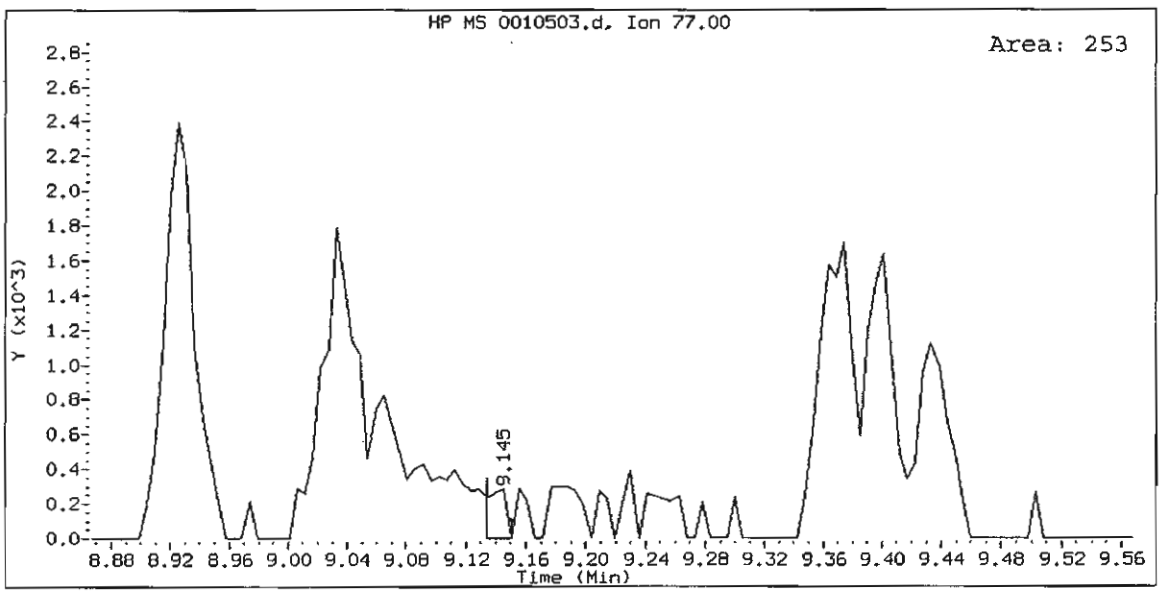
Benzoic acid Amount: 0.65







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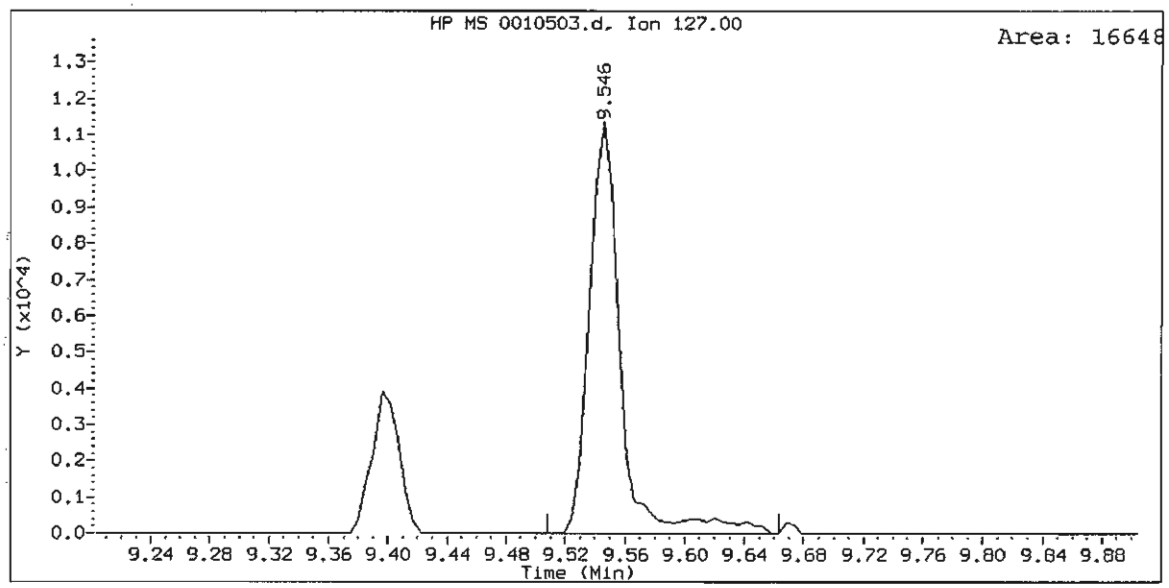
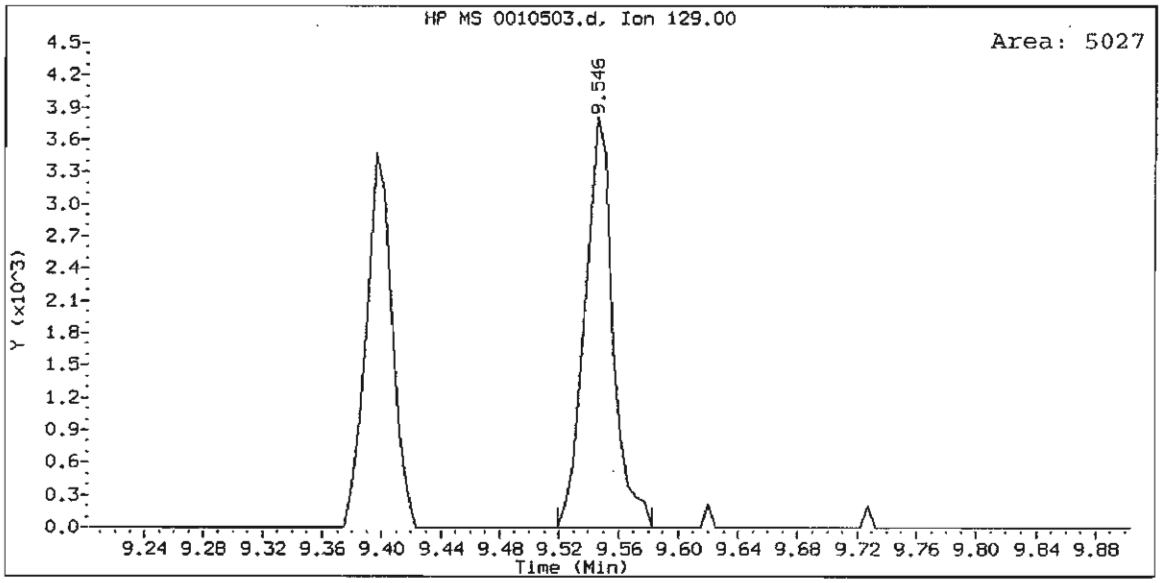
4-Chloroaniline Amount: 1.03





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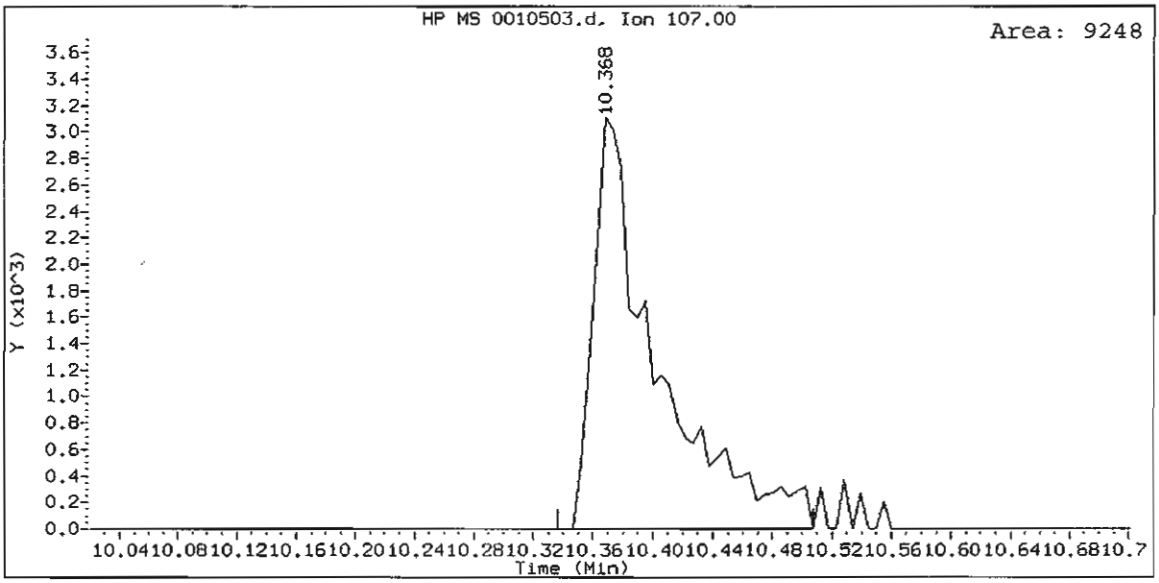
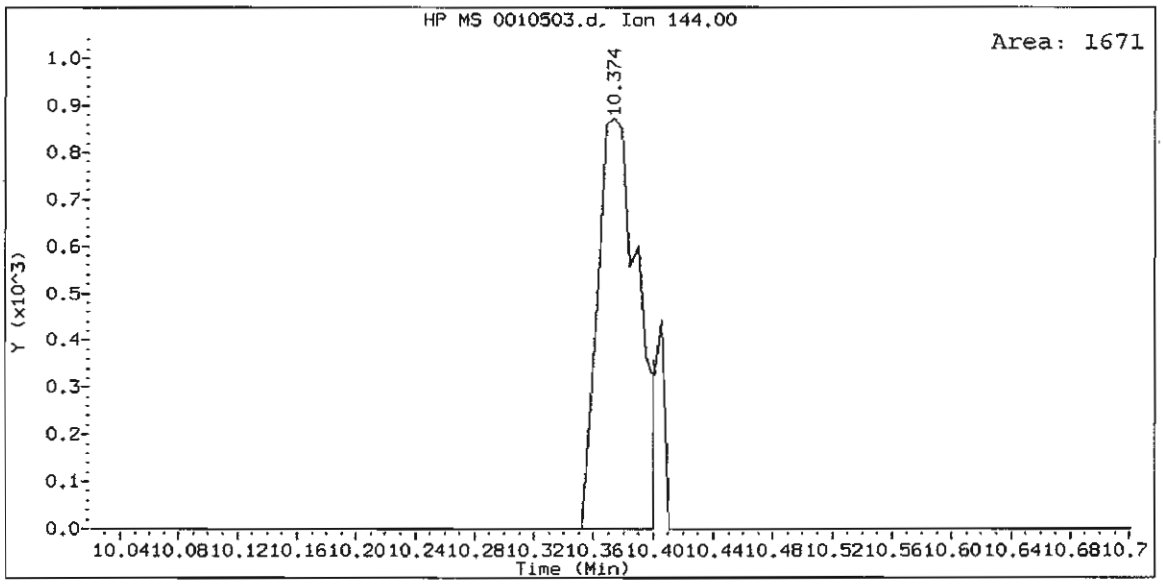
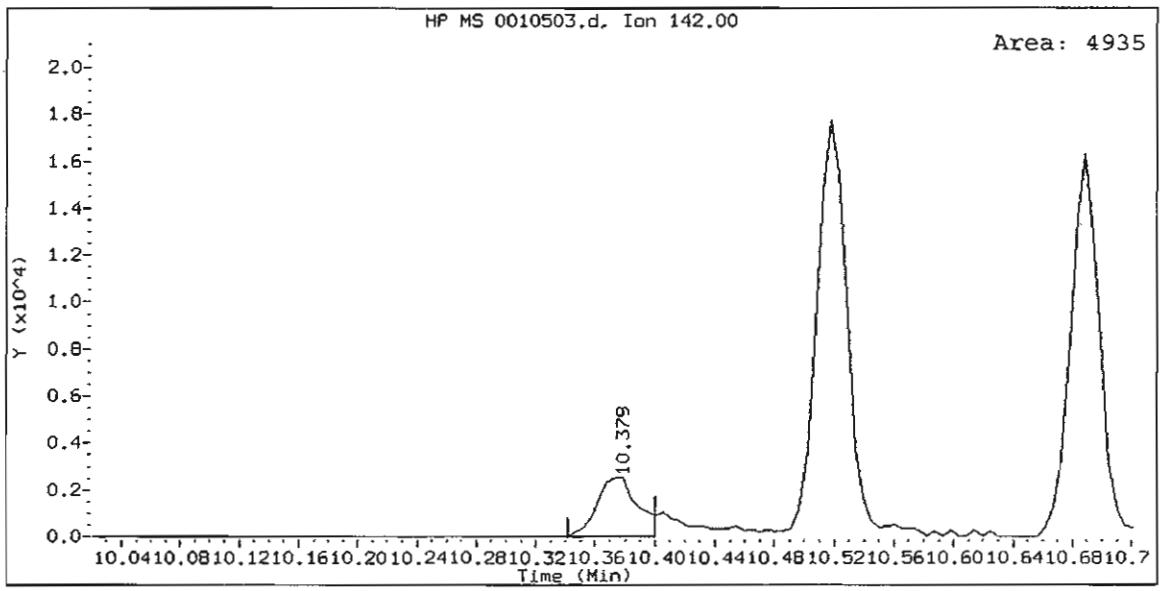
4-Chloro-3-methylphenol Amount: 0.85







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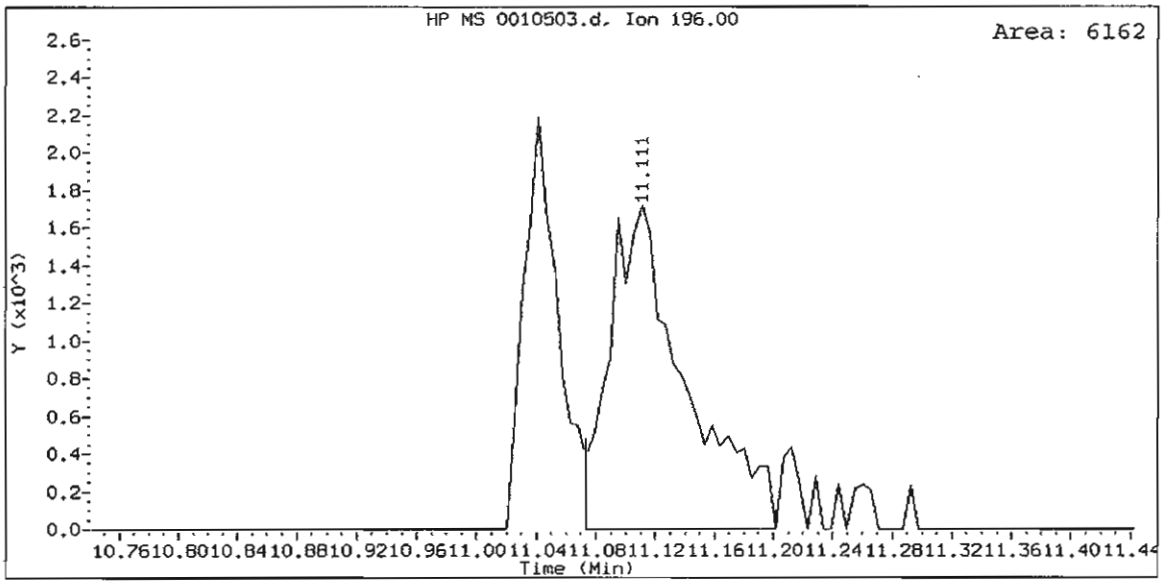
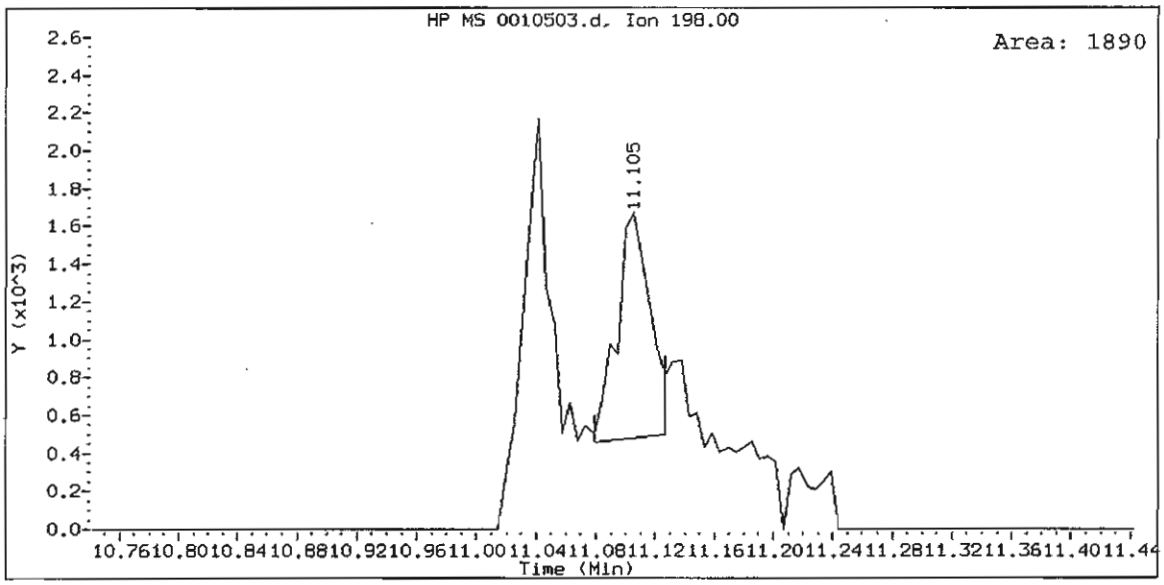
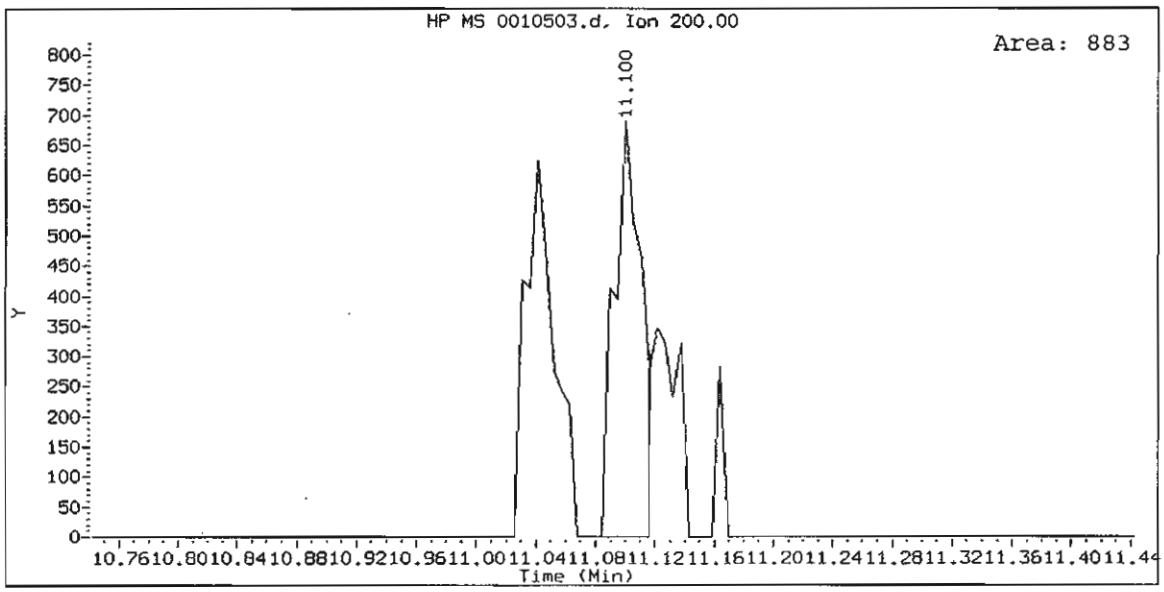
2,4,5-Trichlorophenol Amount: 0.92







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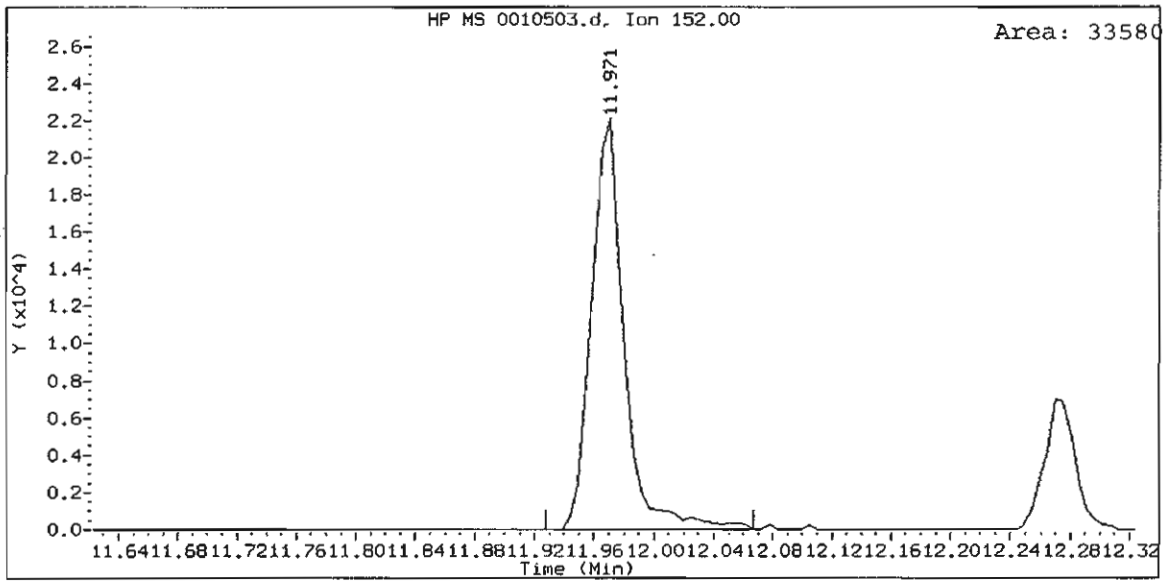
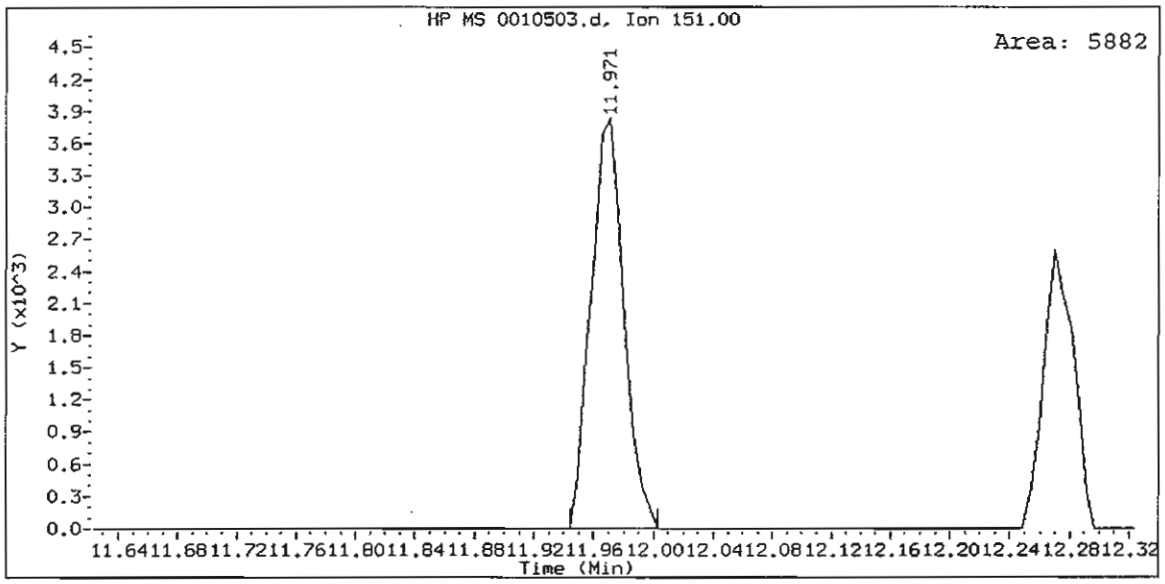
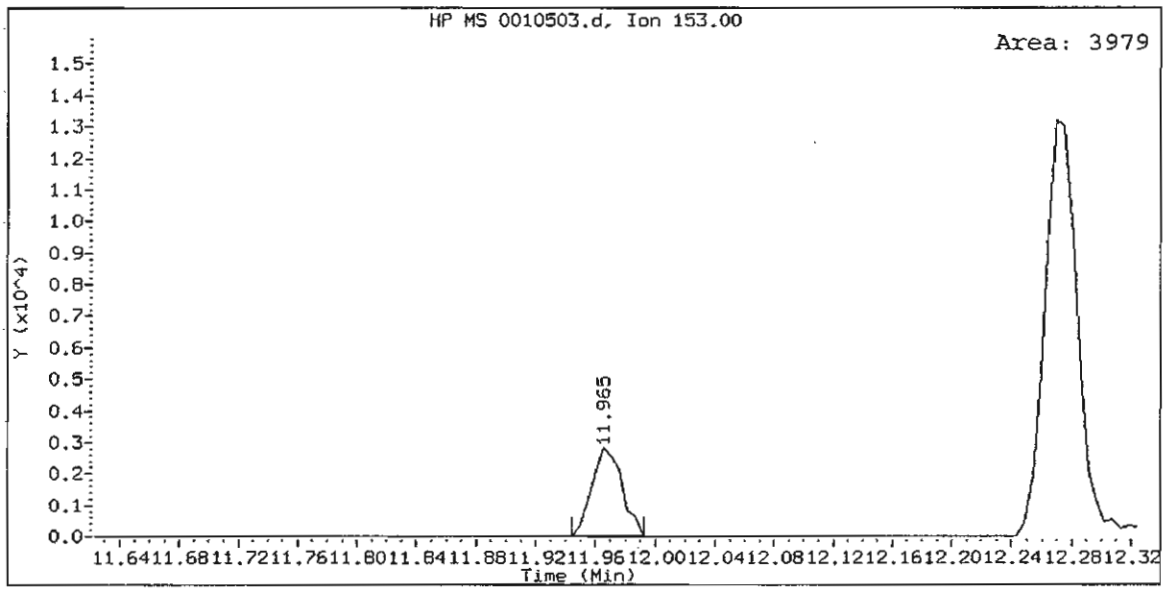
Acenaphthylene Amount: 1.03







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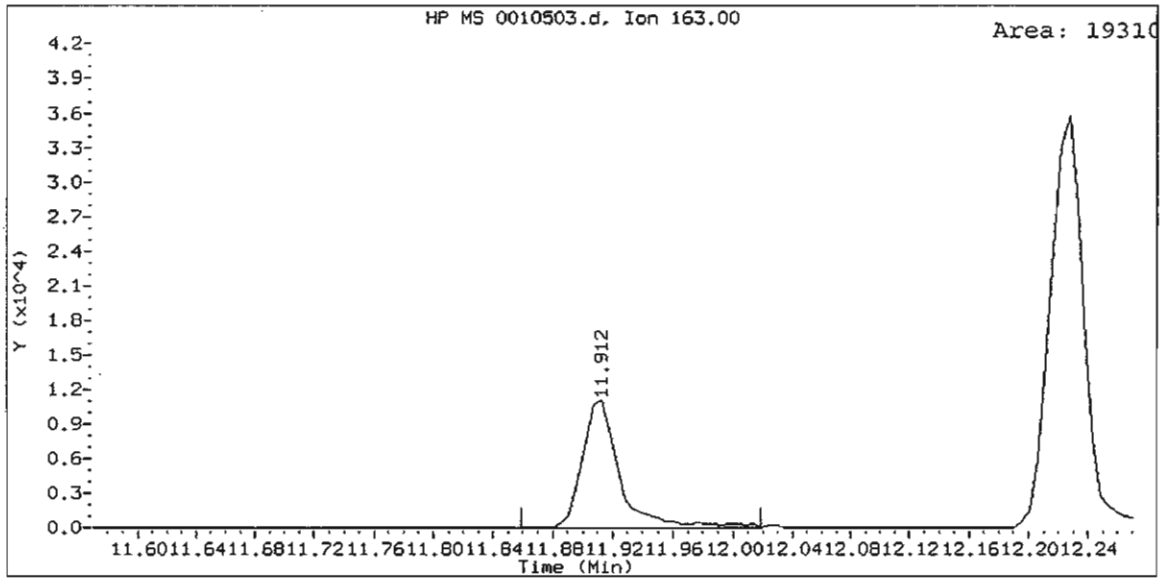
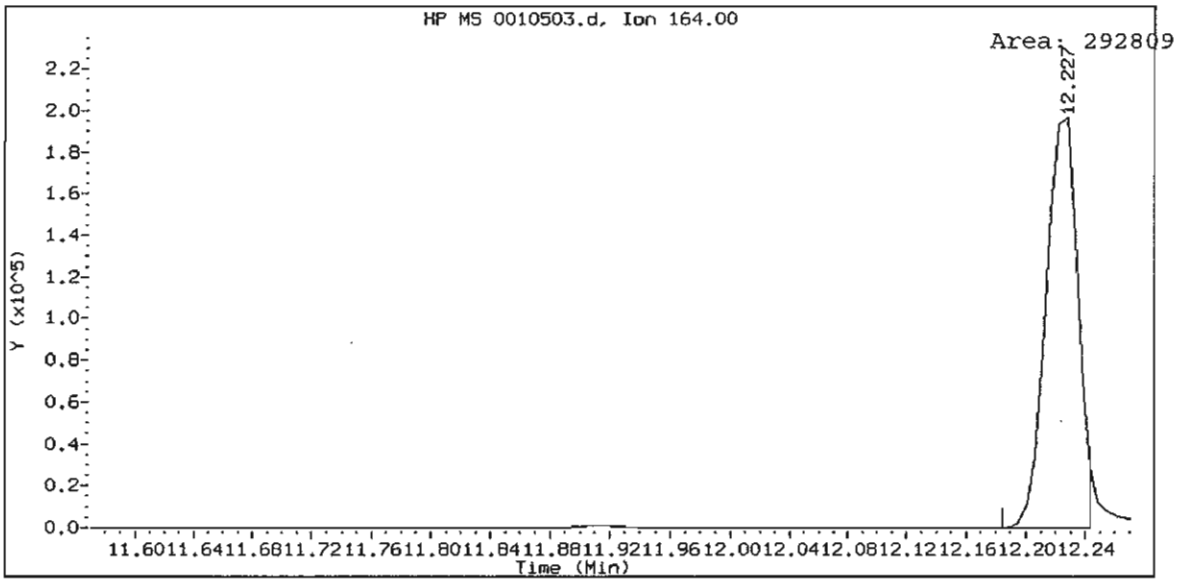
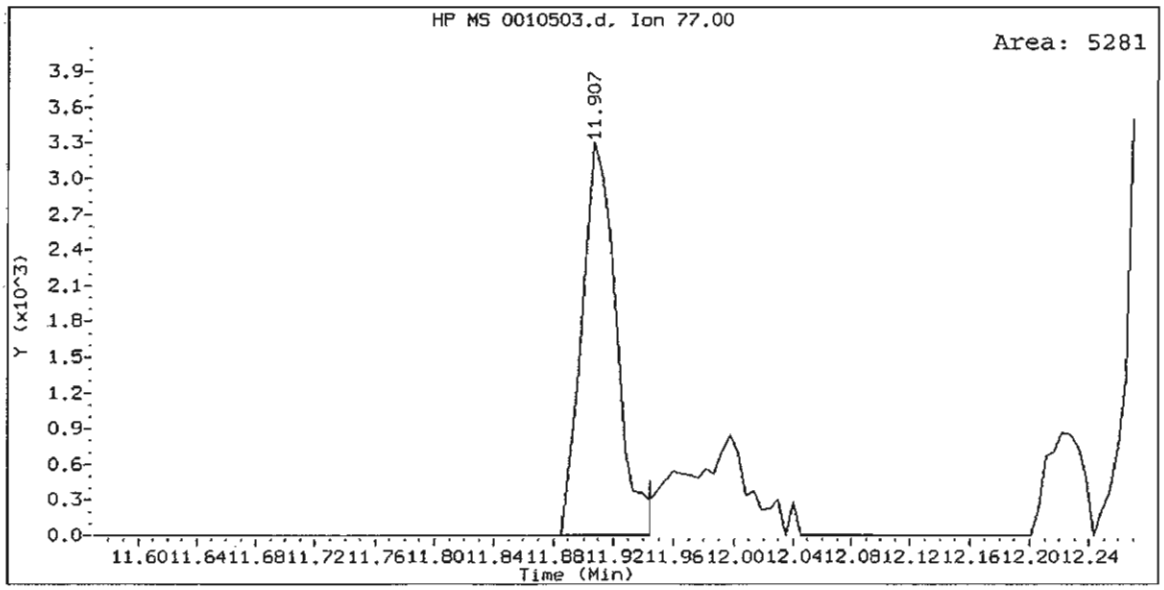
Dimethylphthalate Amount: 0.97







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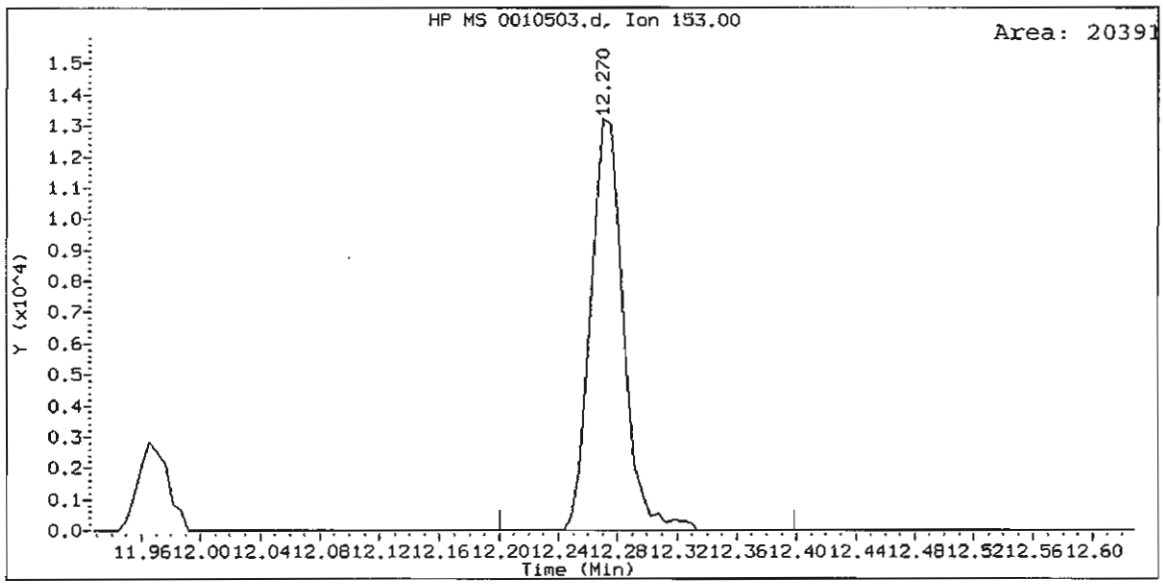
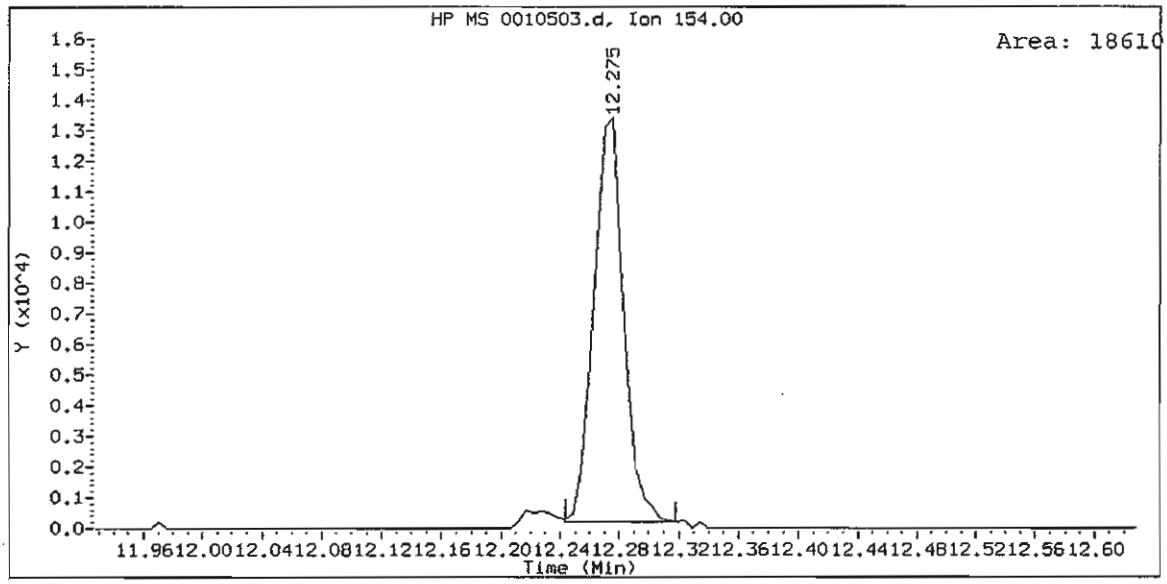
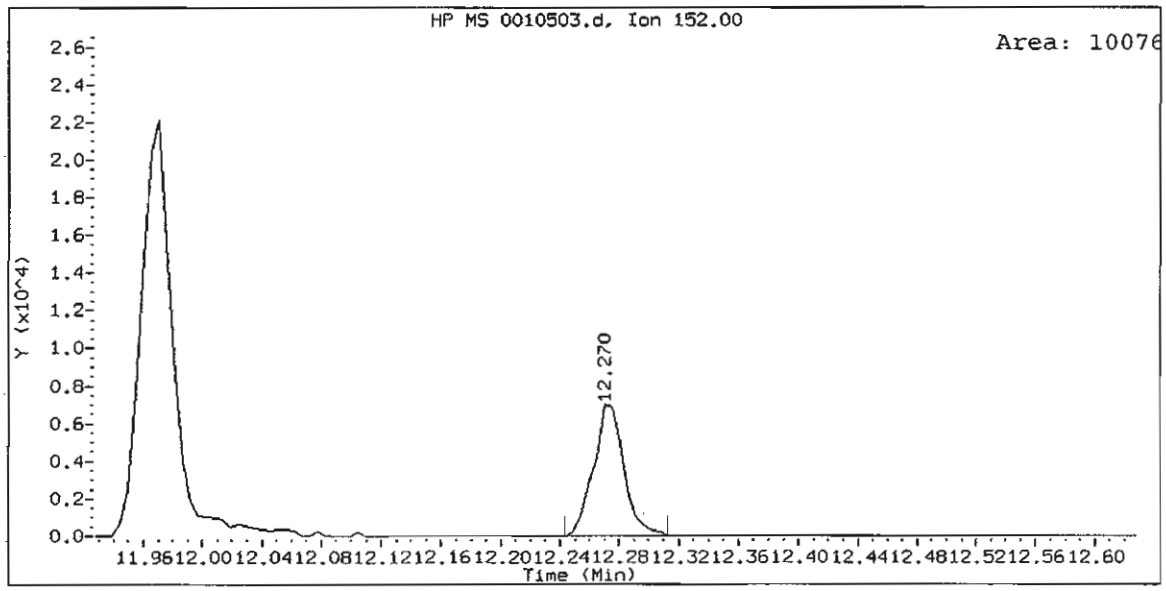
Acenaphthene Amount: 1.04







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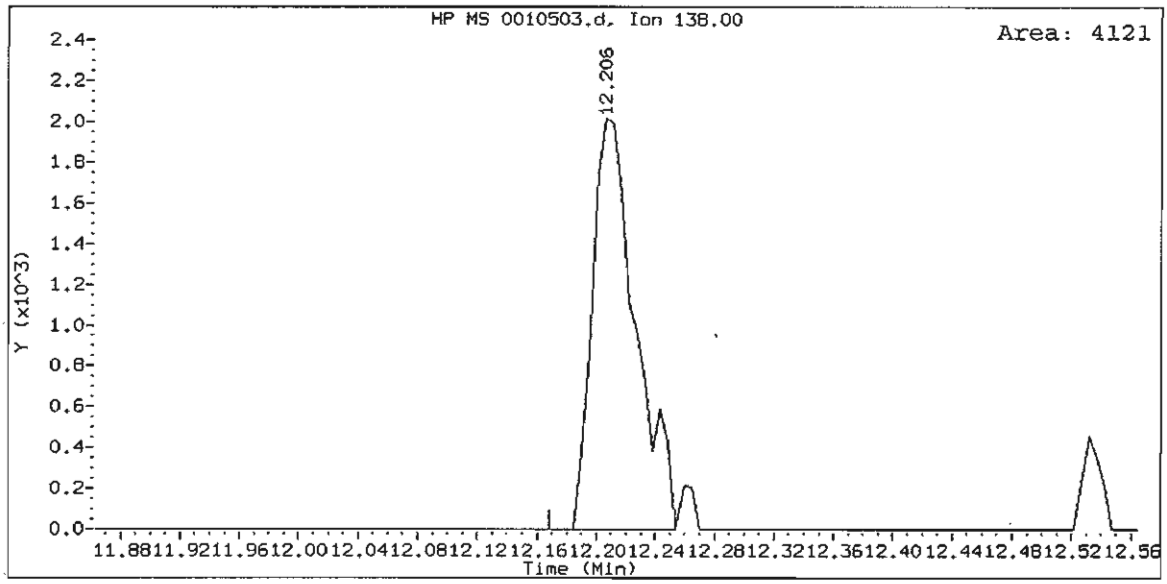
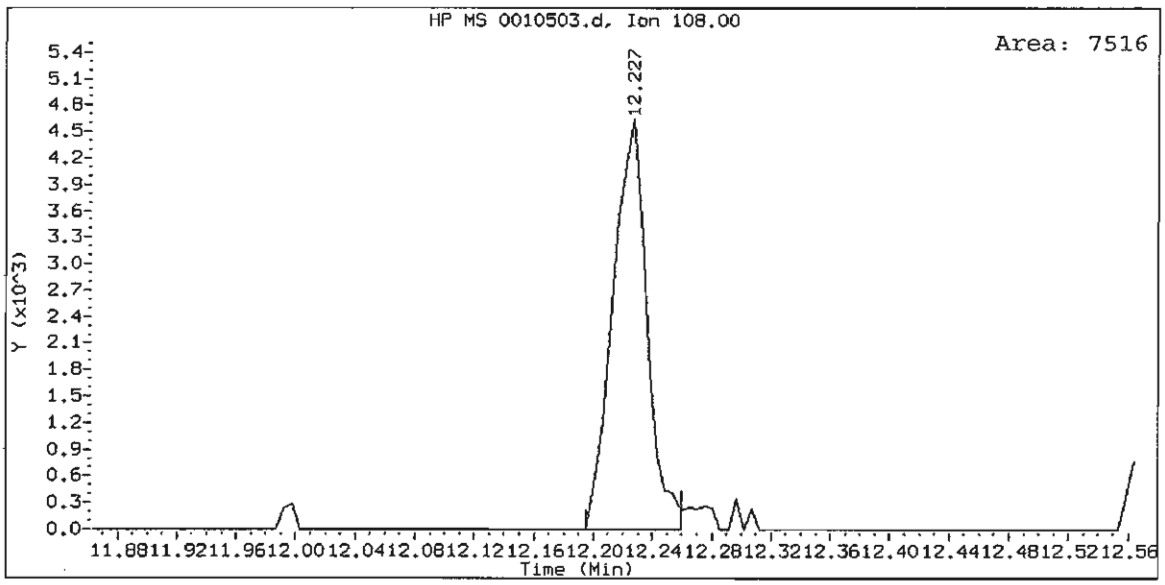
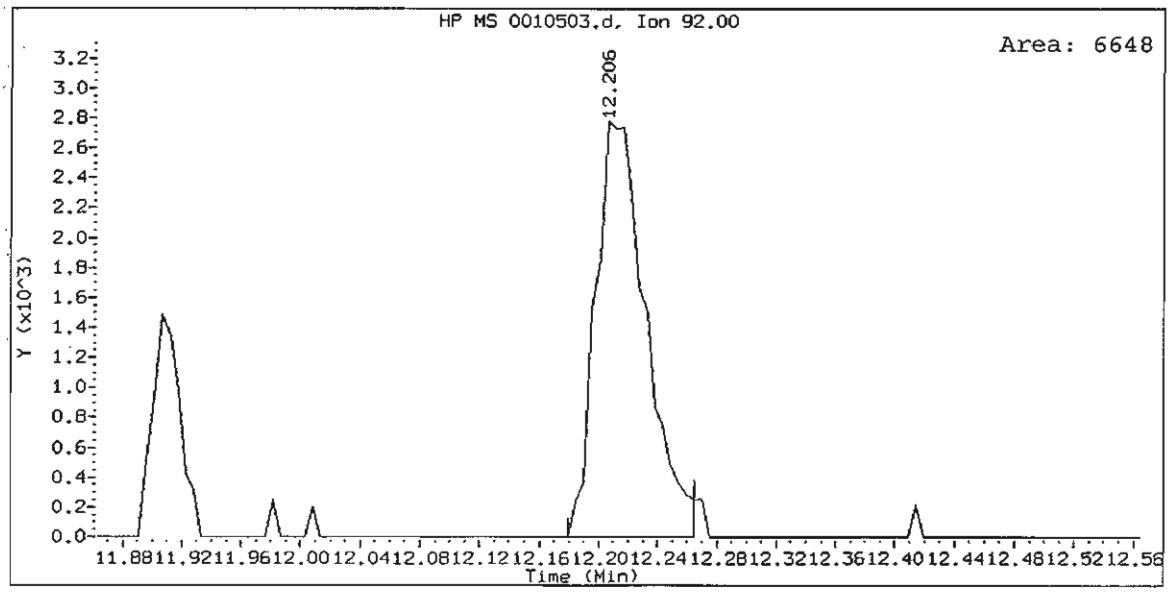
3-Nitroaniline Amount: 0.72







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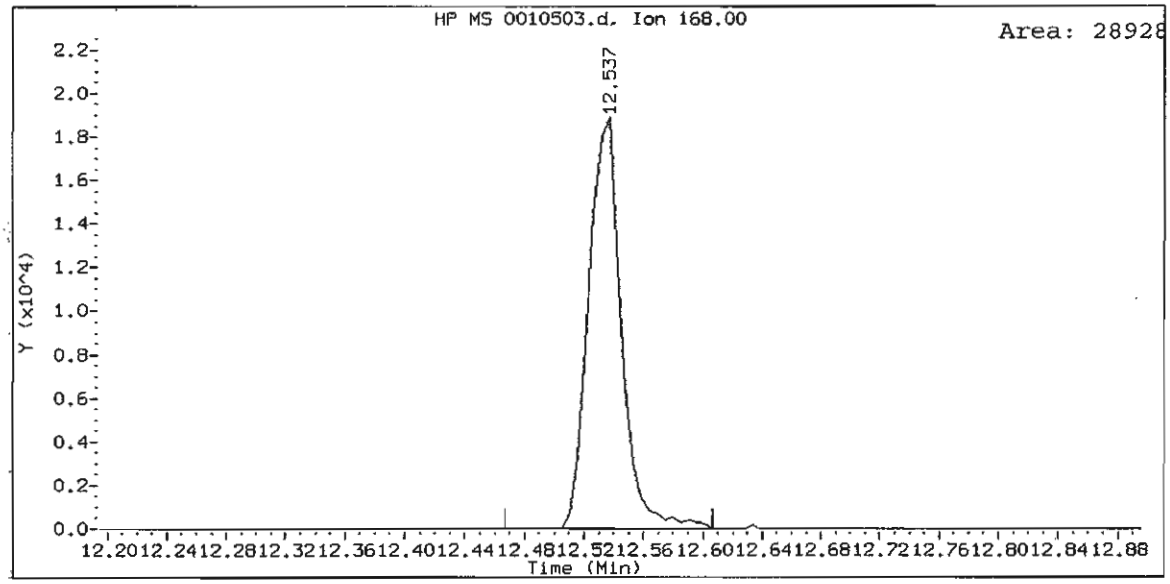
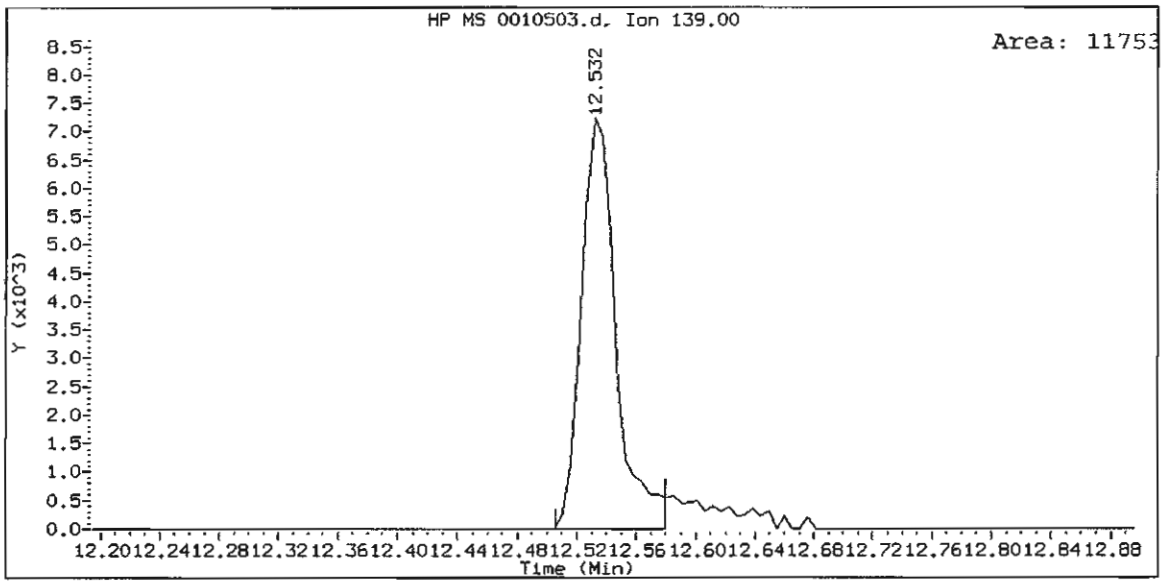
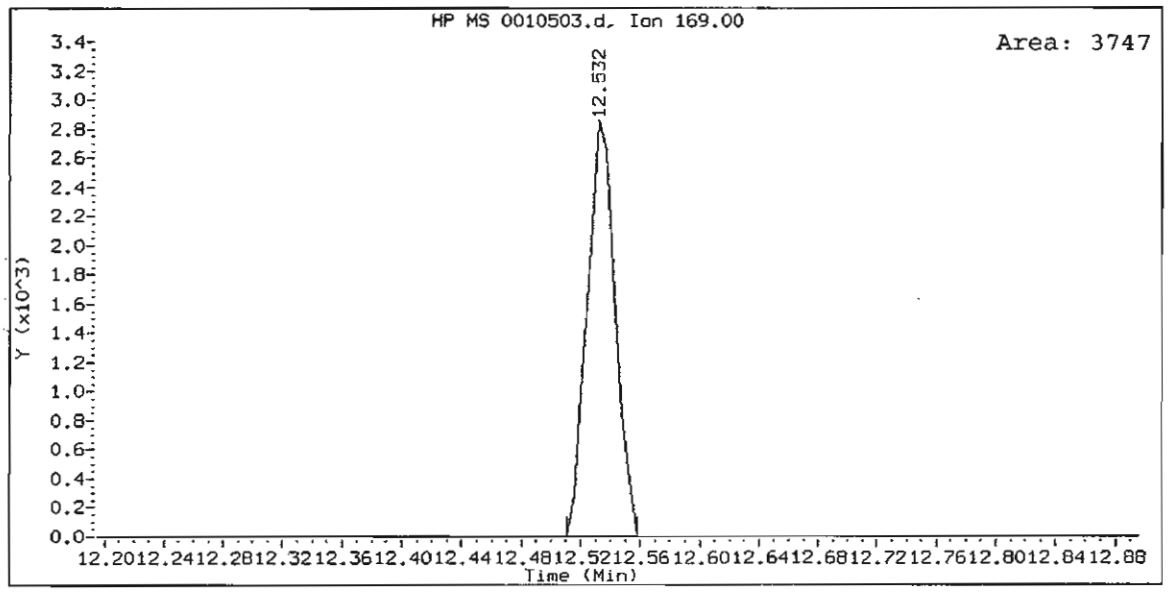
Dibenzofuran Amount: 1.10







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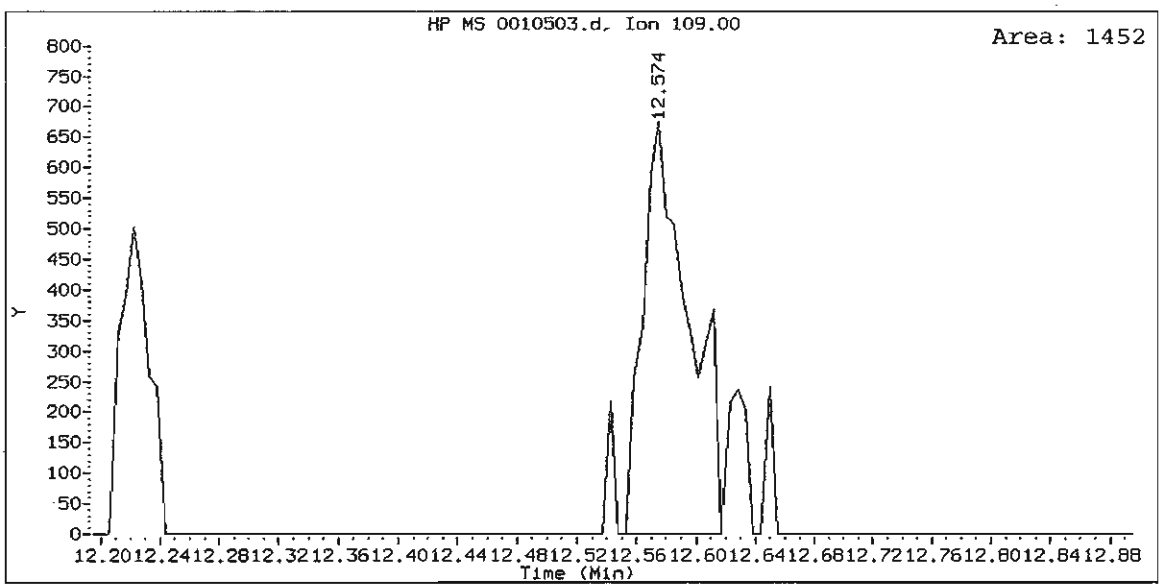
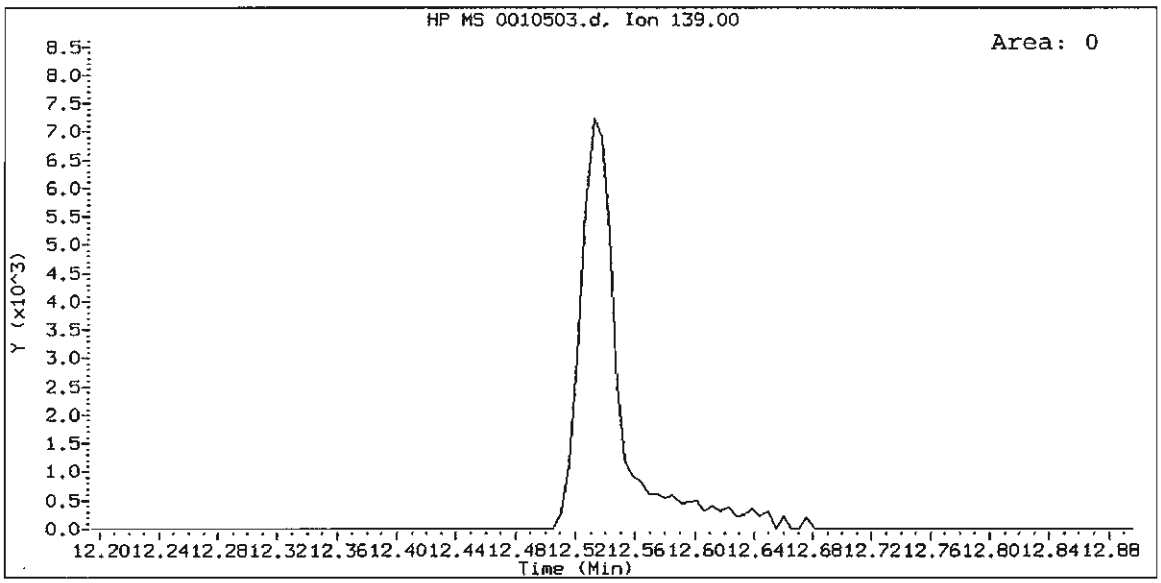
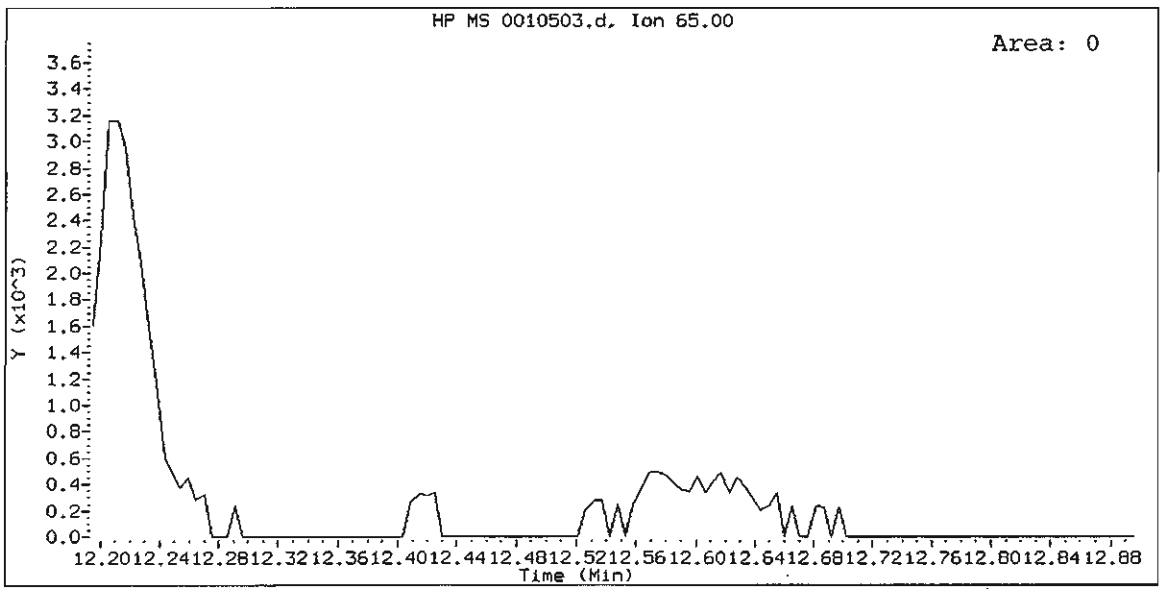
4-Nitrophenol Amount: 0.45







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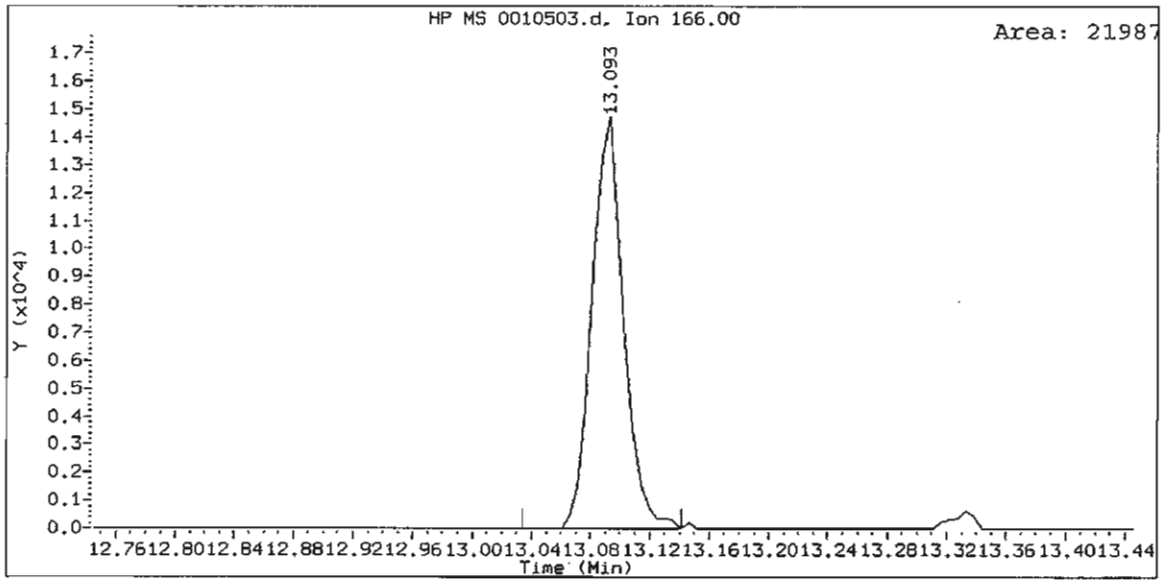
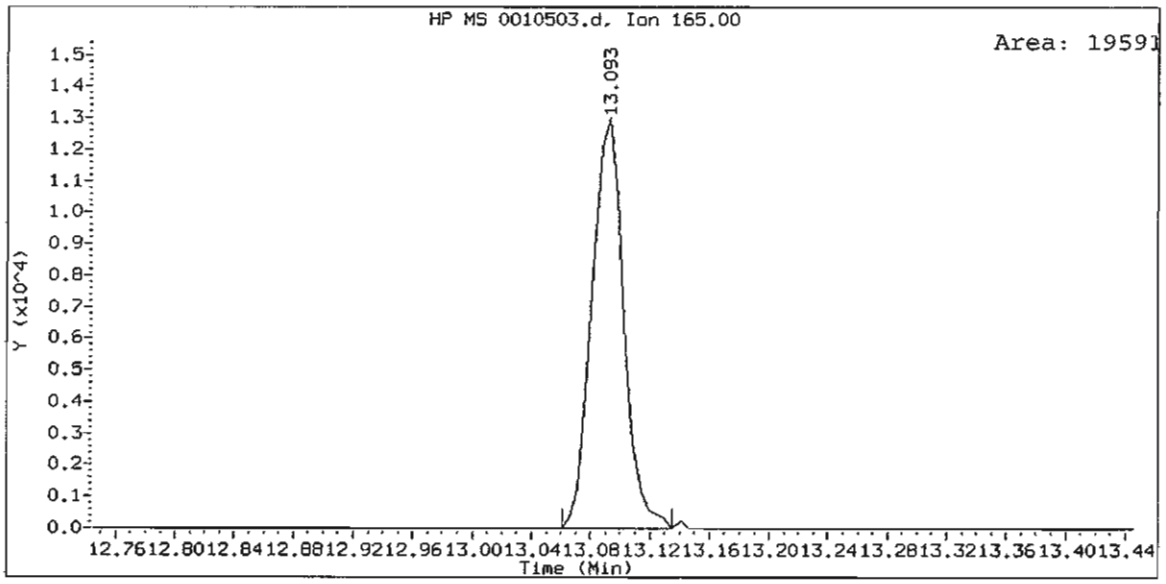
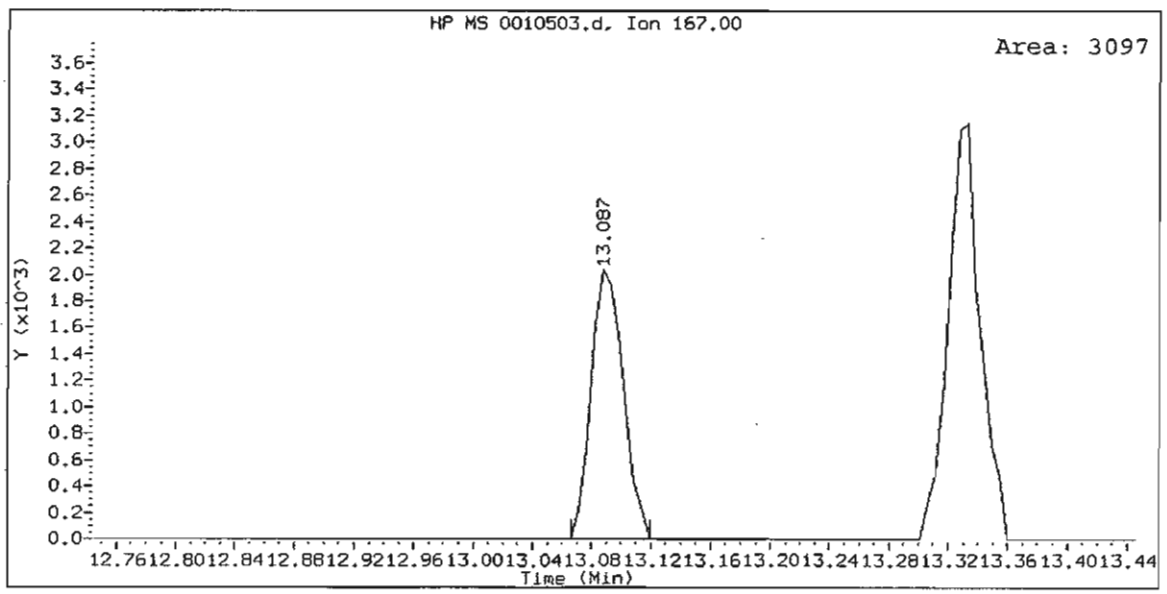
Fluorene Amount: 1.06







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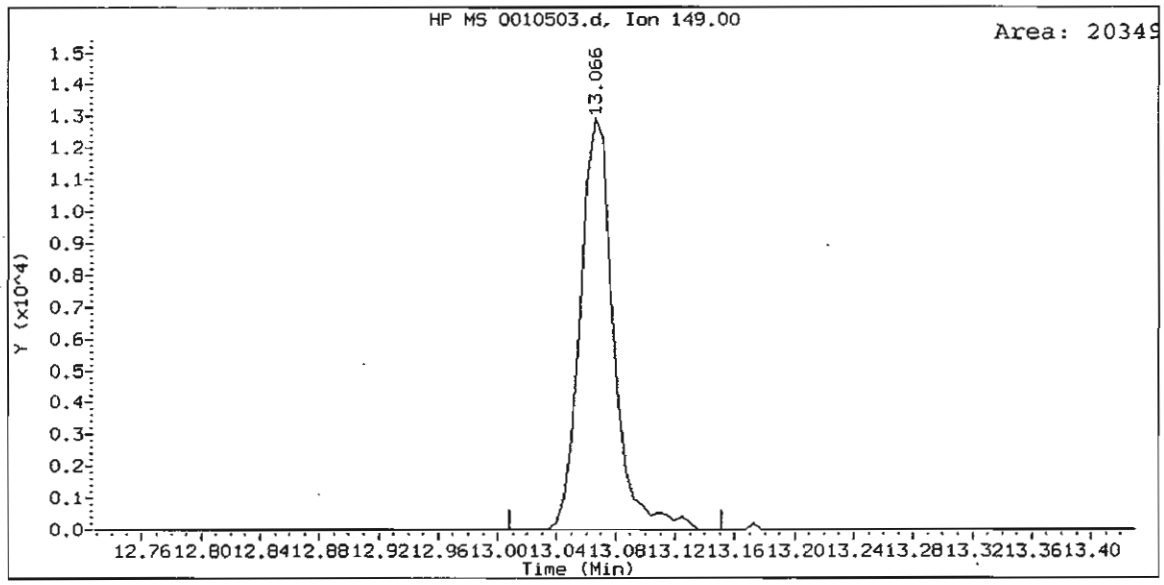
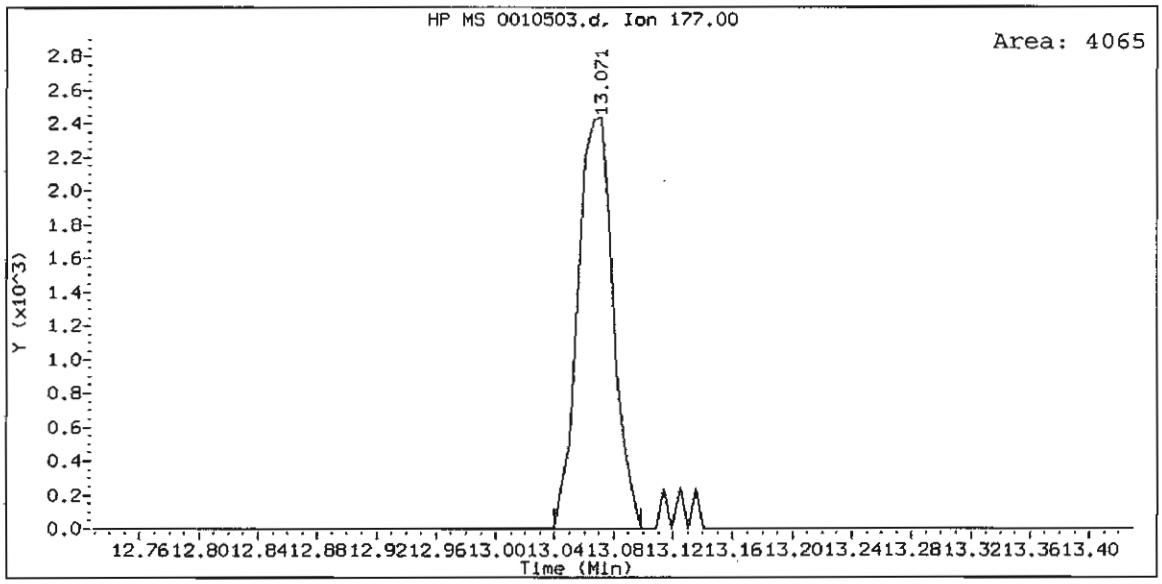
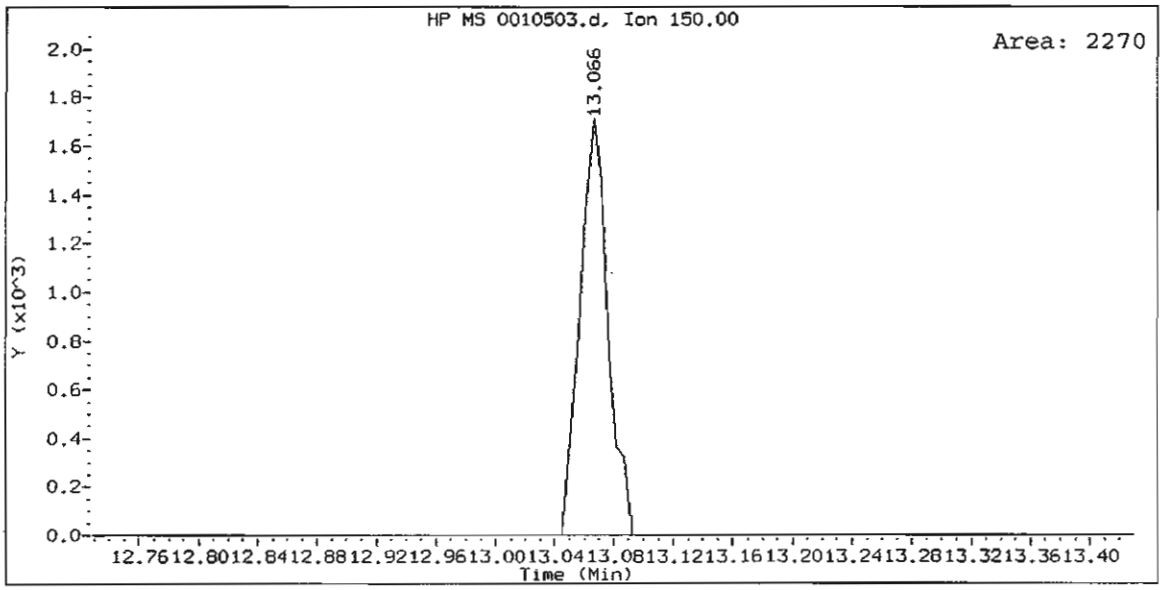
Diethylphthalate Amount: 1.03







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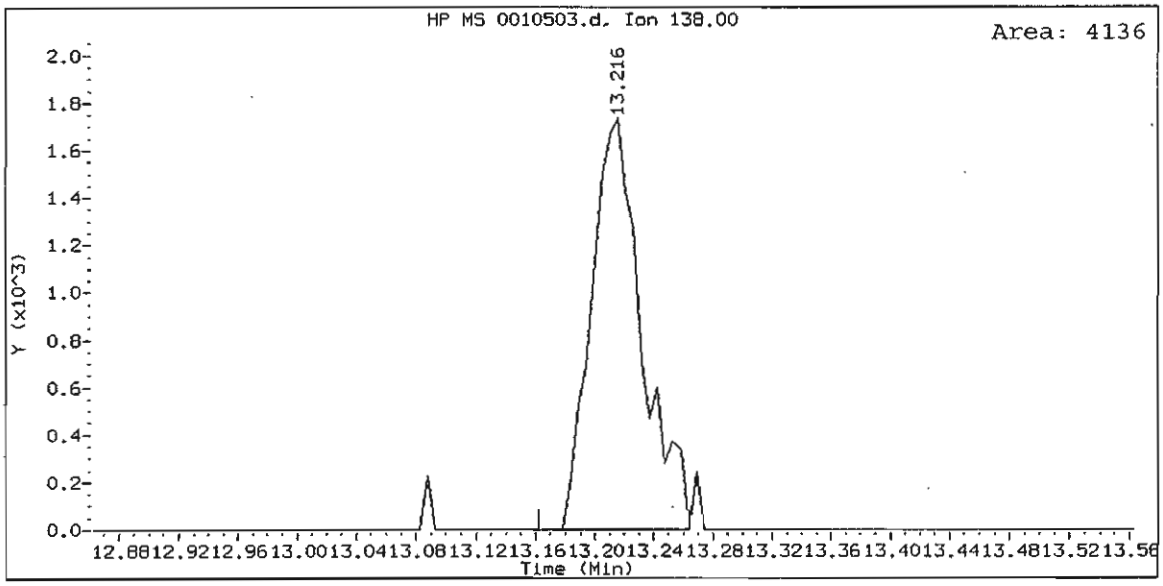
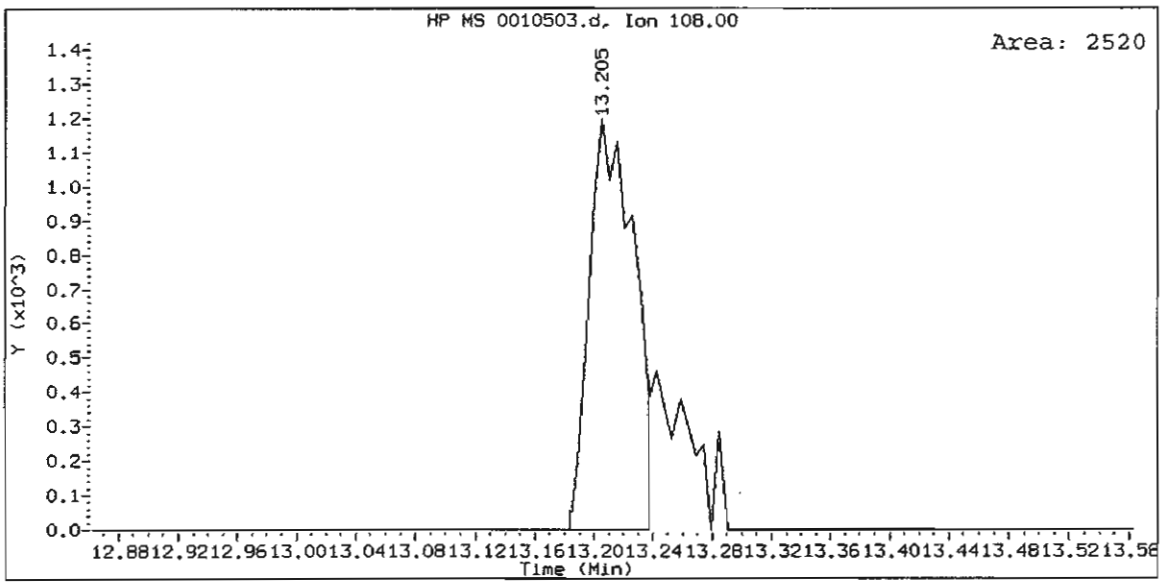
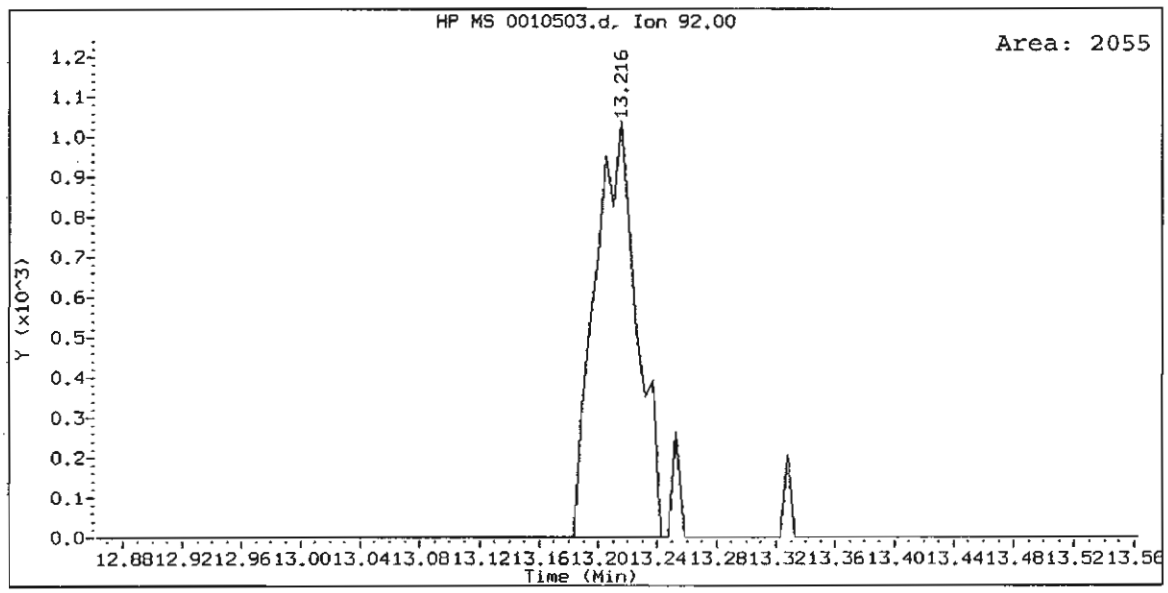
4-Nitroaniline Amount: 0.71







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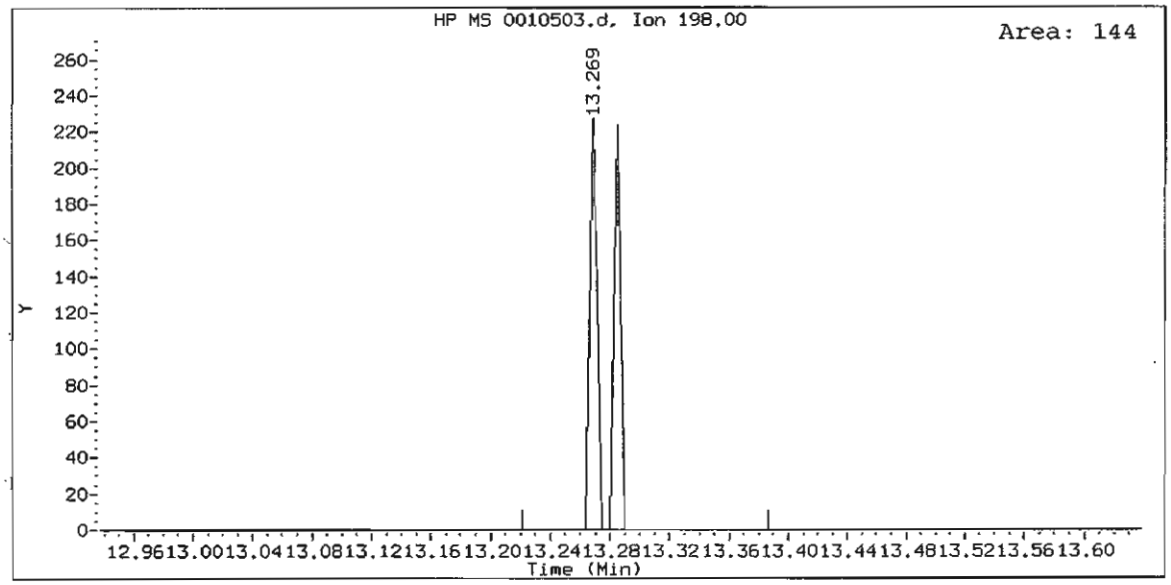
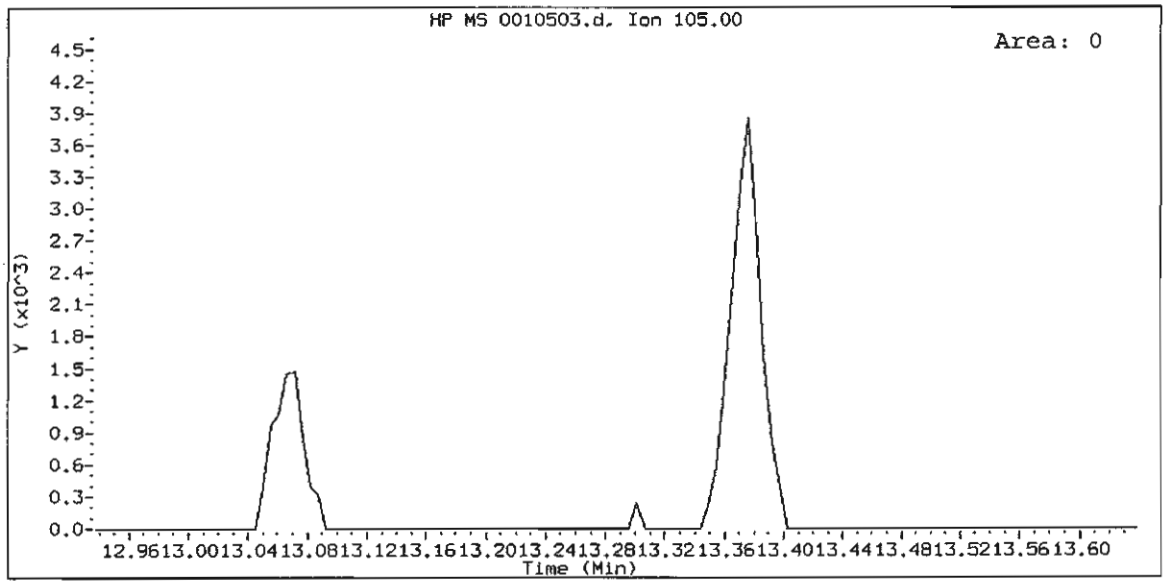
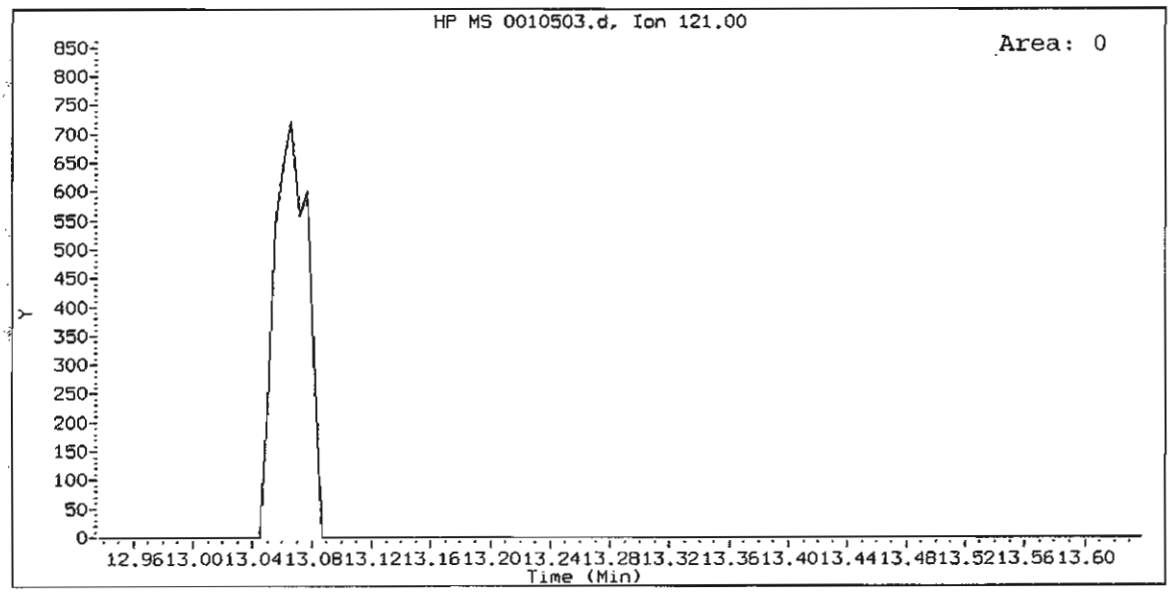
4,6-Dinitro-2-methylphenol Amount: 0.07







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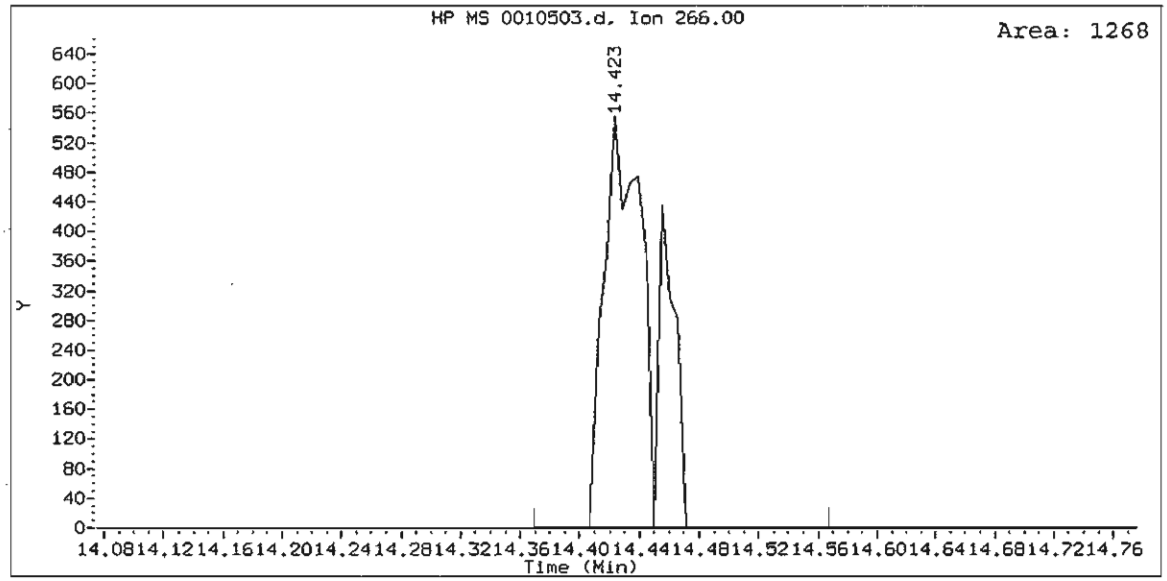
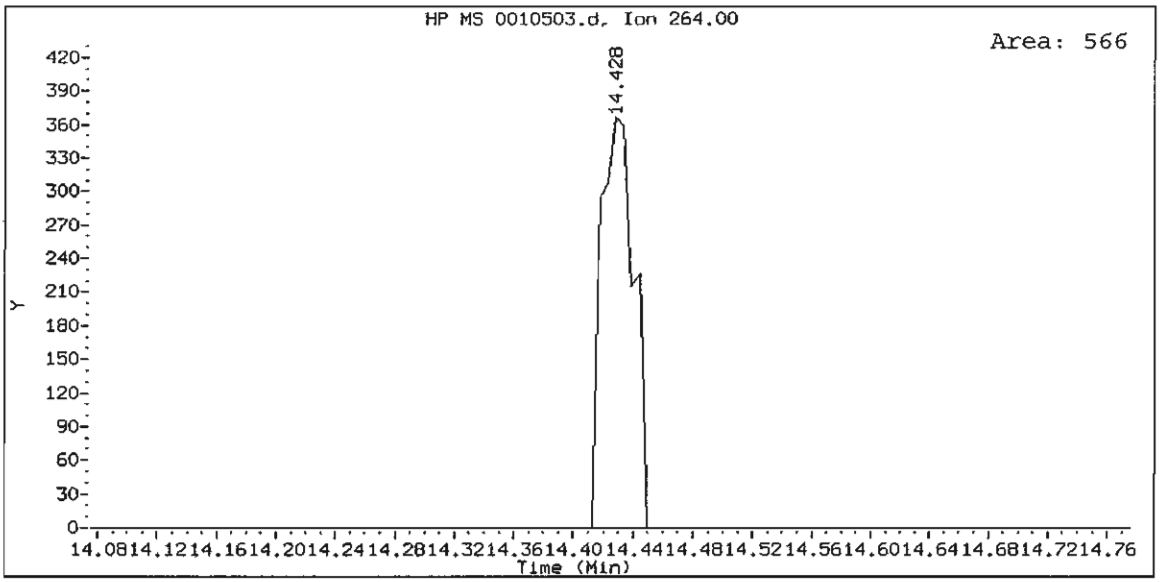
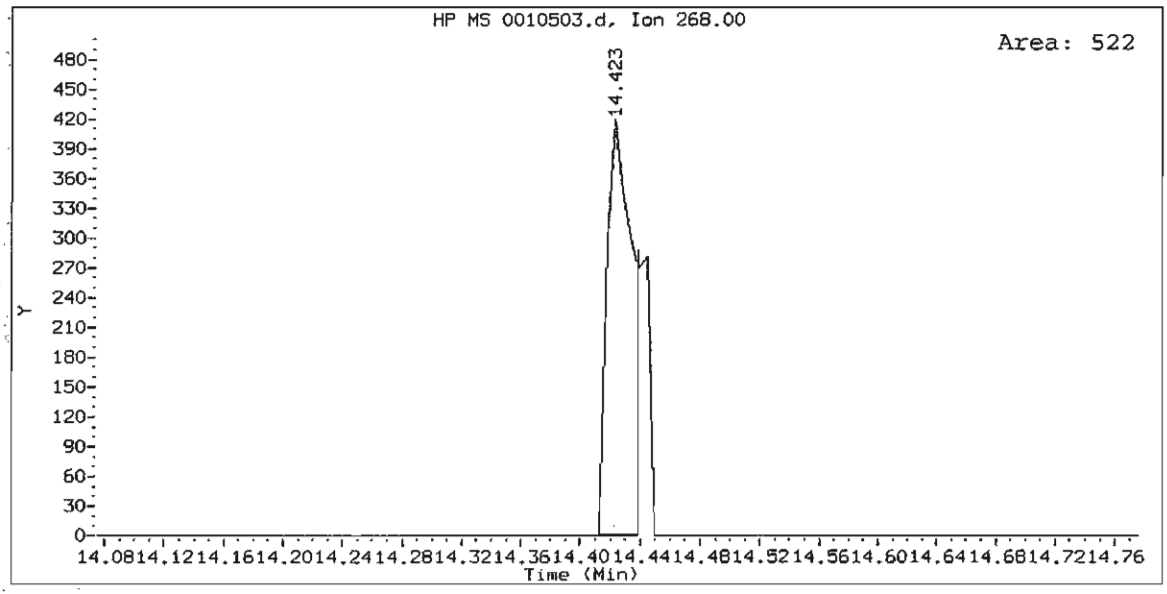
Pentachlorophenol Amount: 0.37







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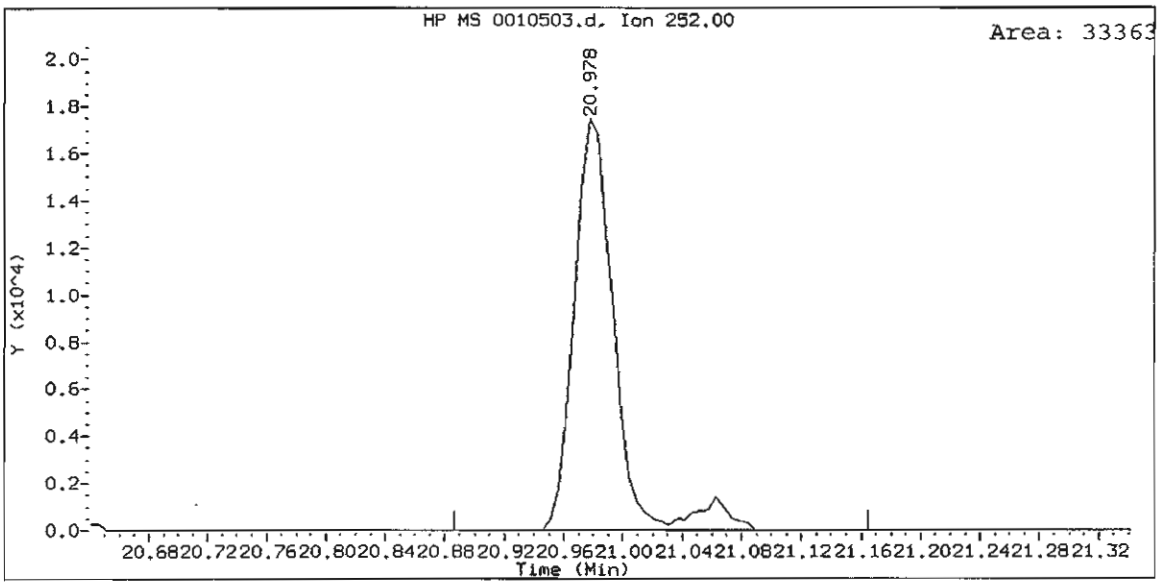
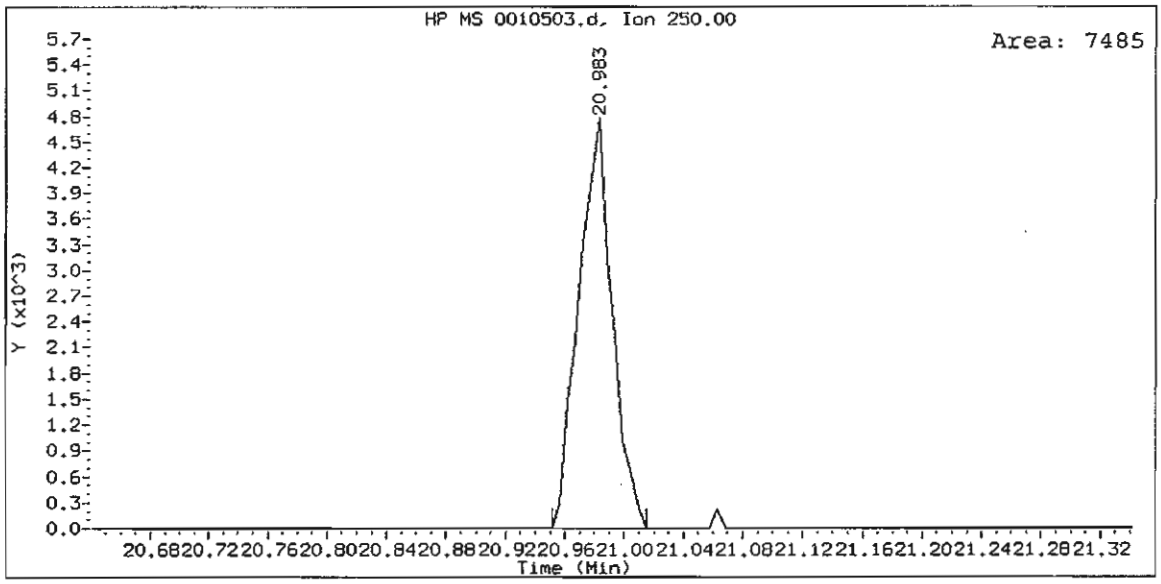
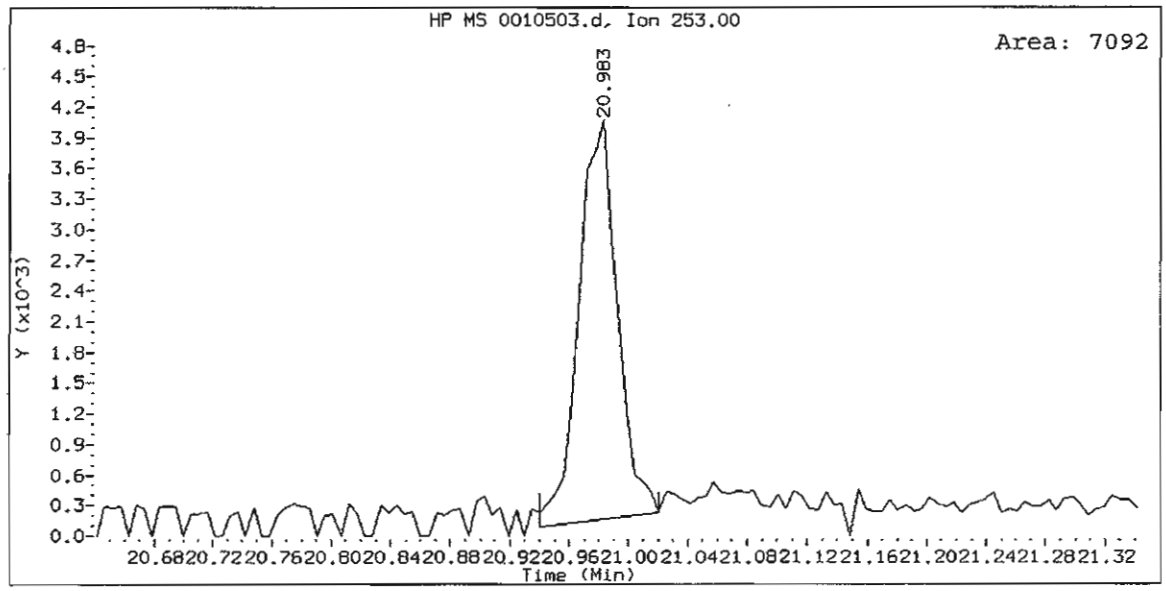
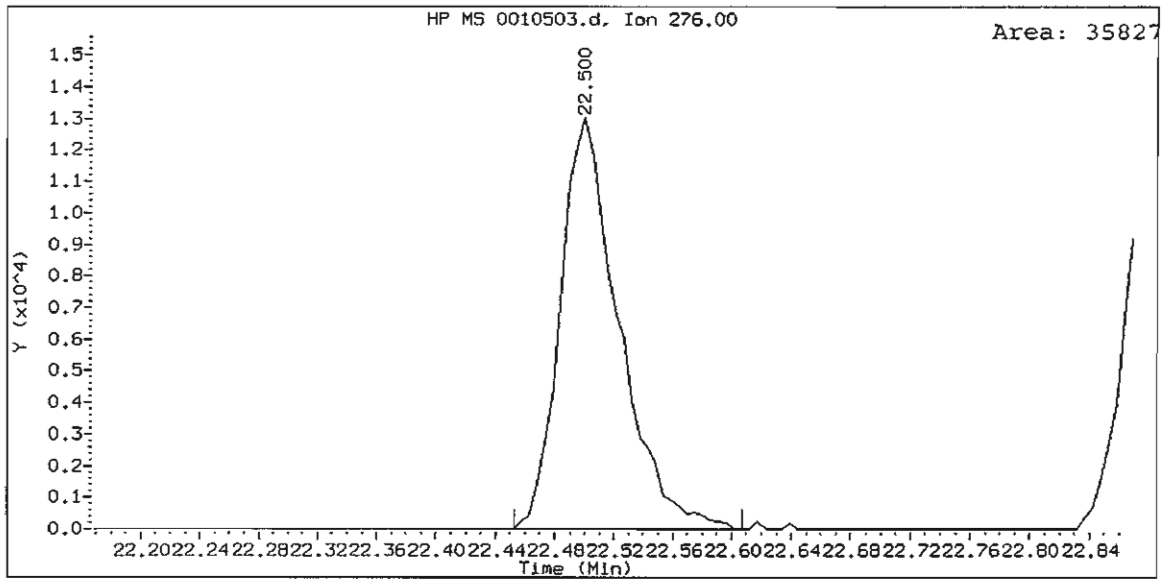
Benzo(a)pyrene Amount: 1.08

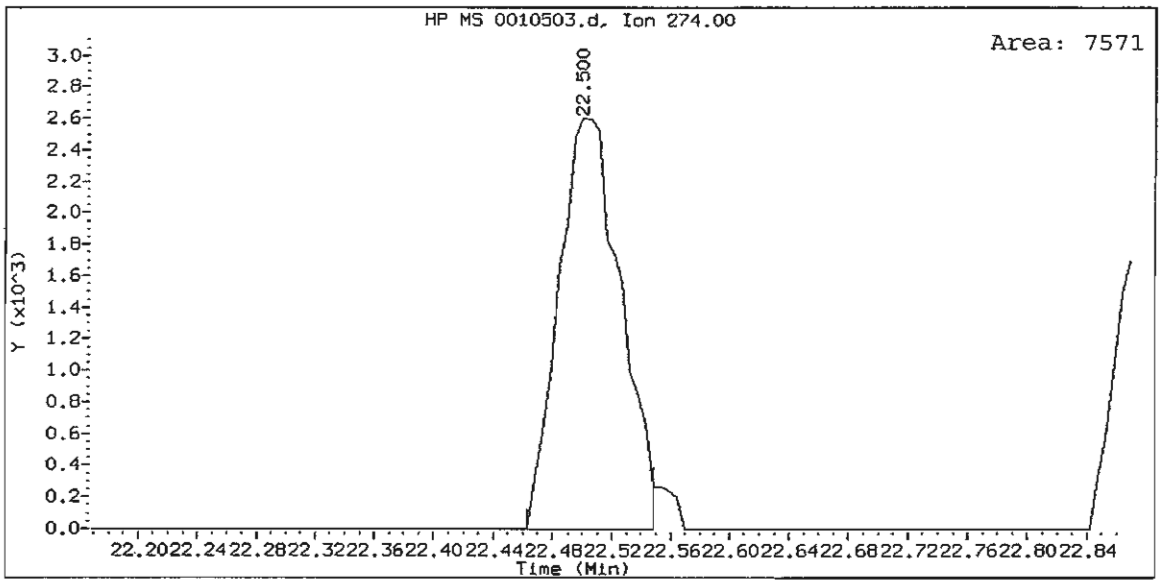


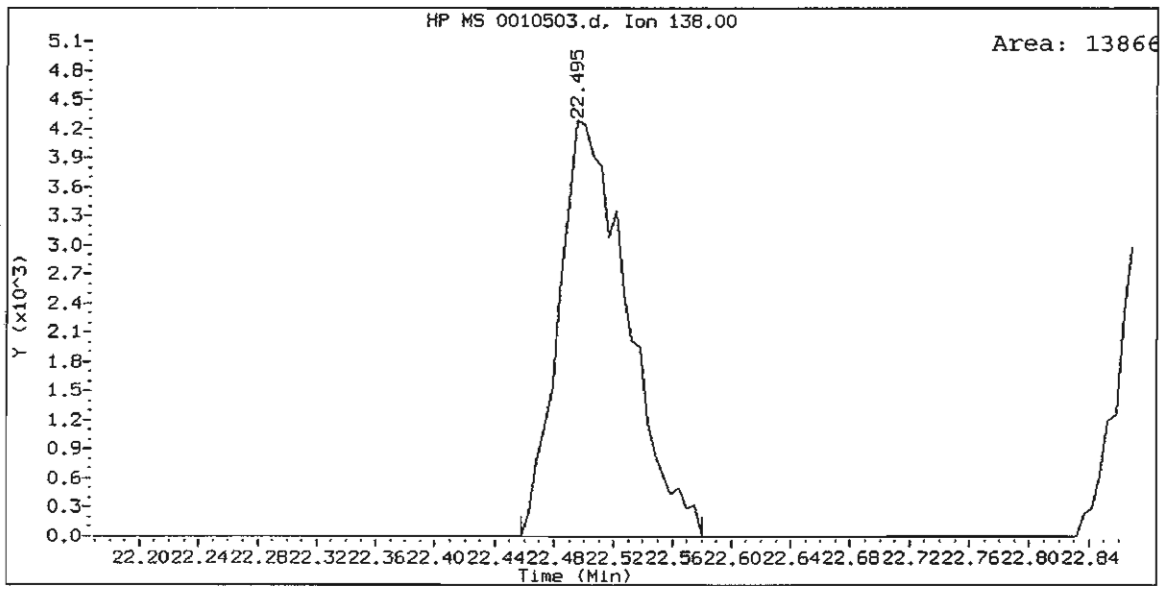




ABN 1, /chem1/nt6.i/20070503.b/0010503.d
Indeno(1,2,3-cd)pyrene Amount: 0.98







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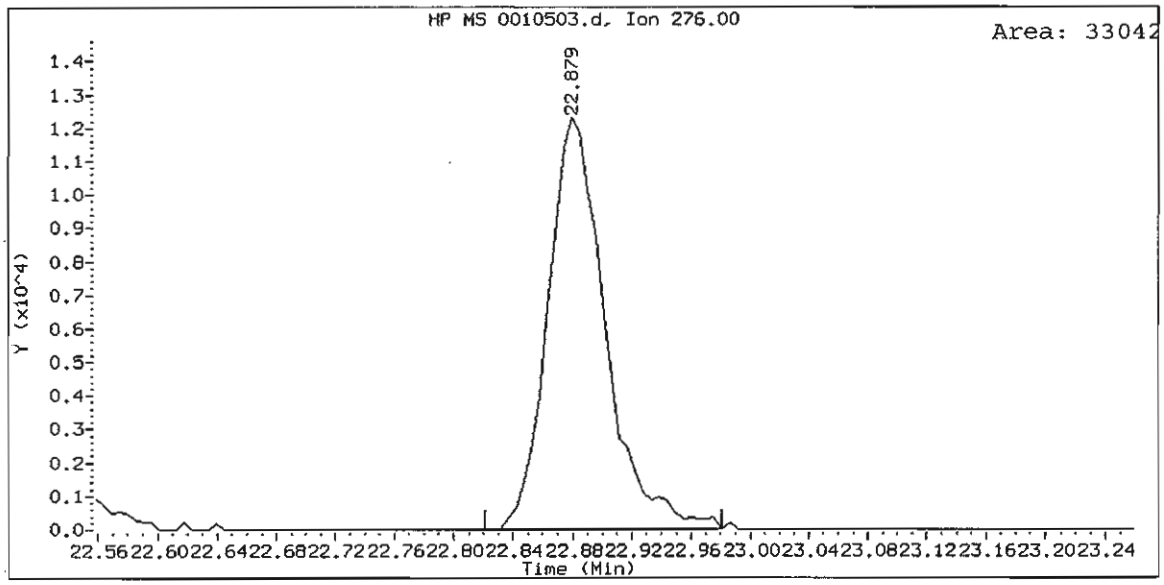
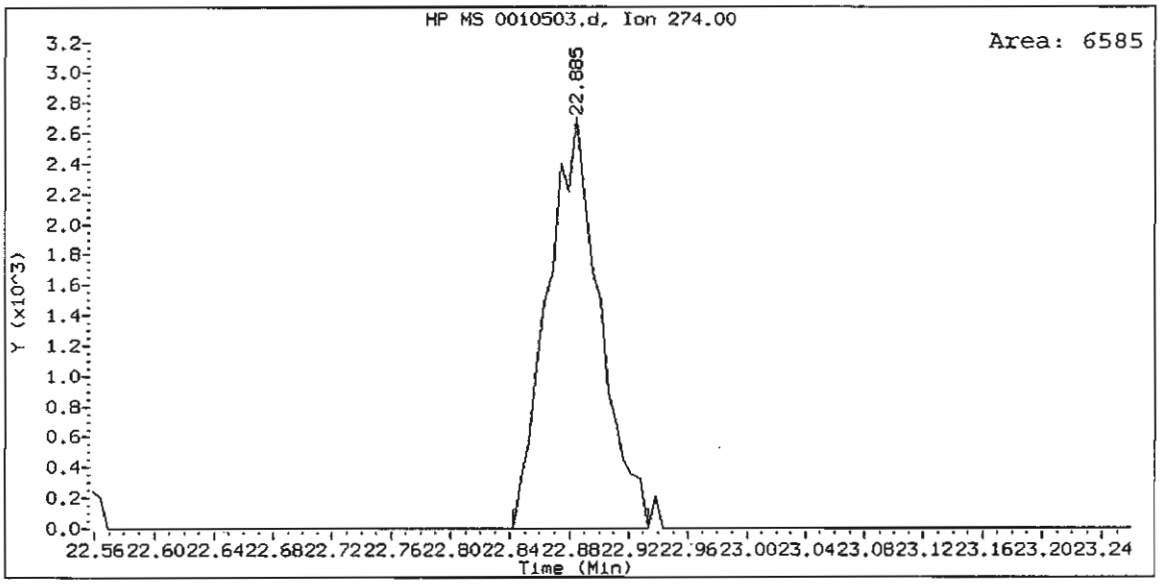
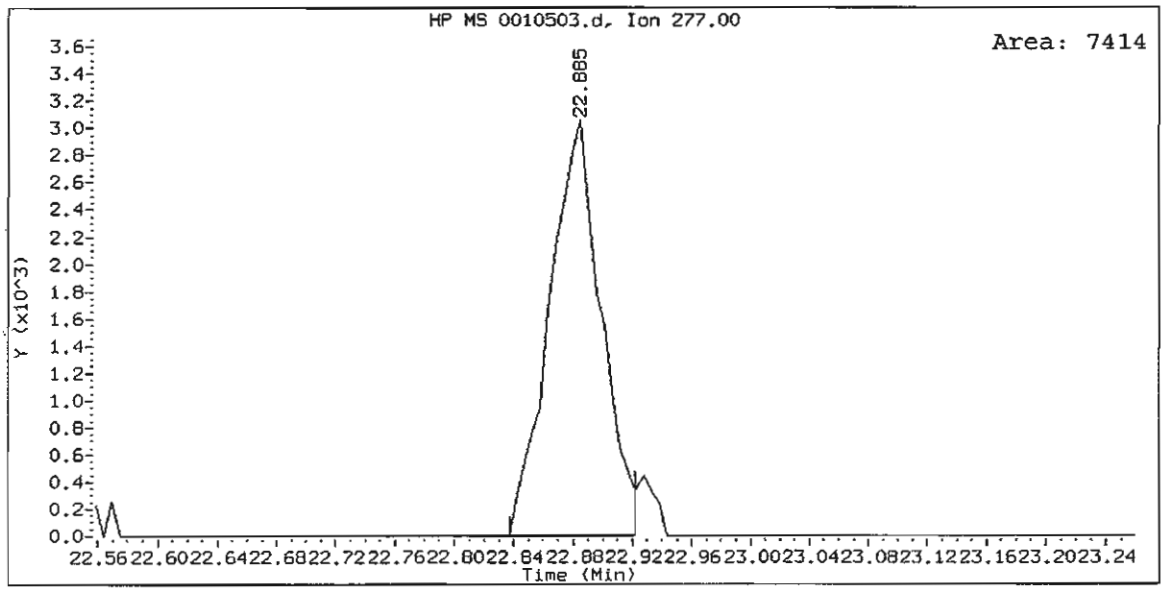
Benzo(g,h,i)perylene Amount: 0.98







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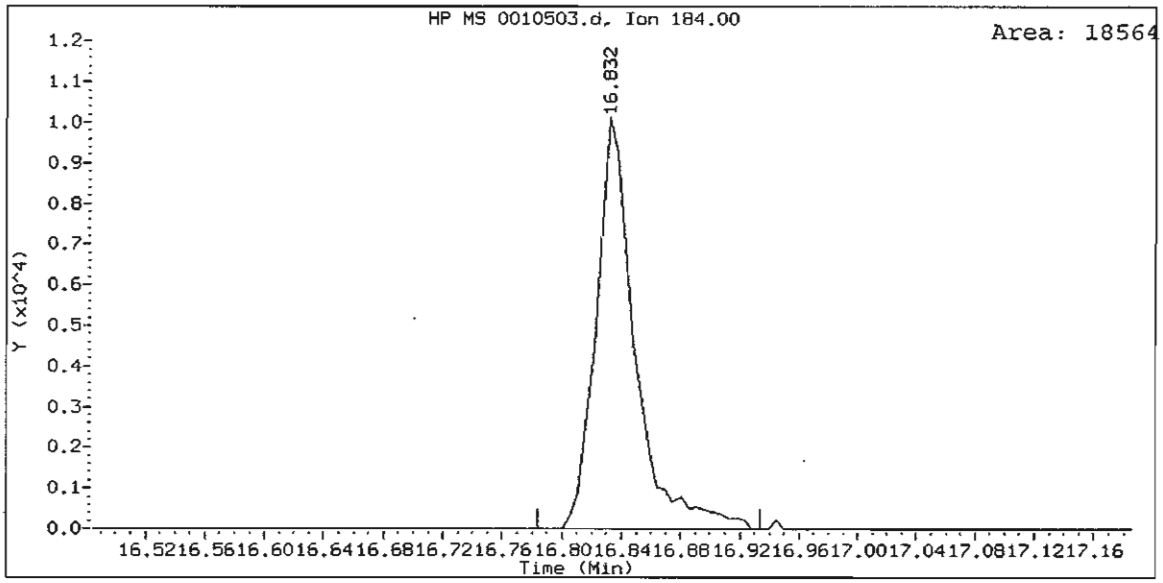
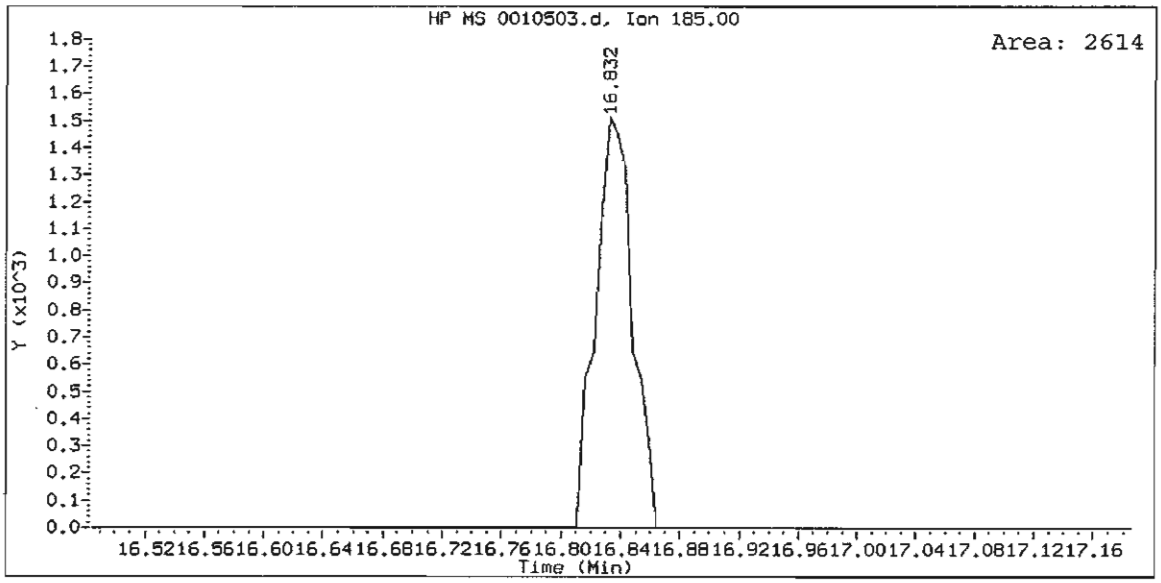
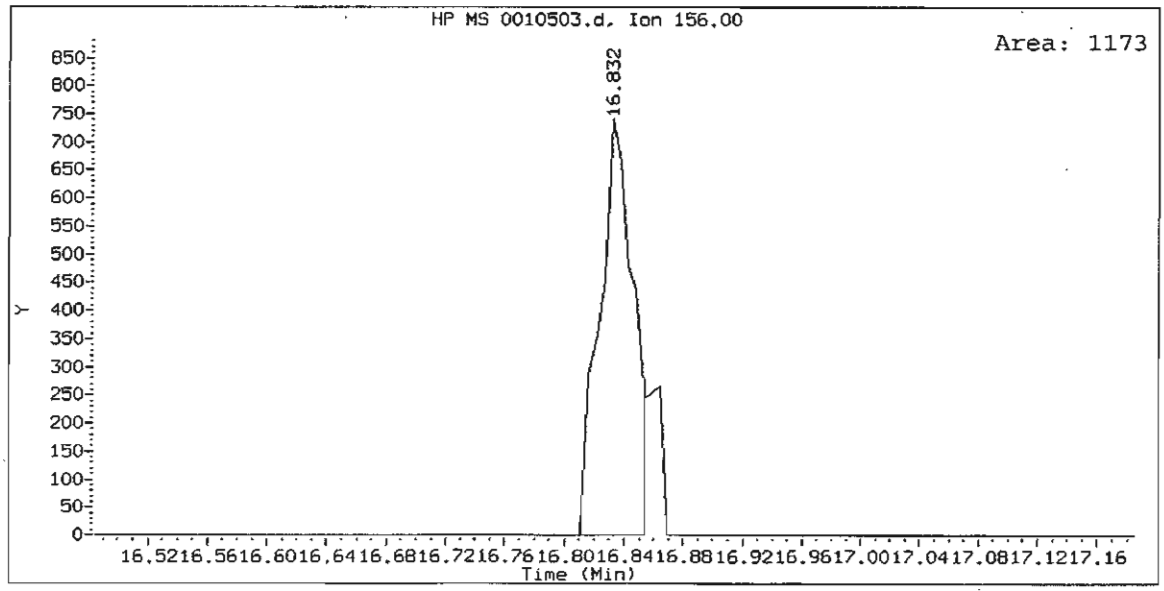
Benzidine Amount: 1.14







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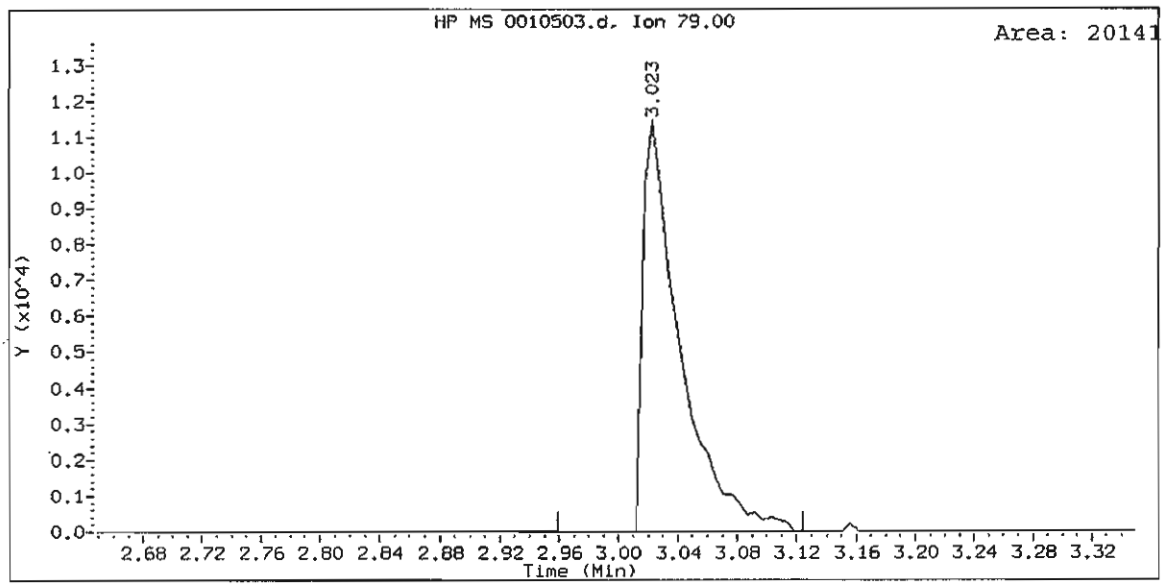
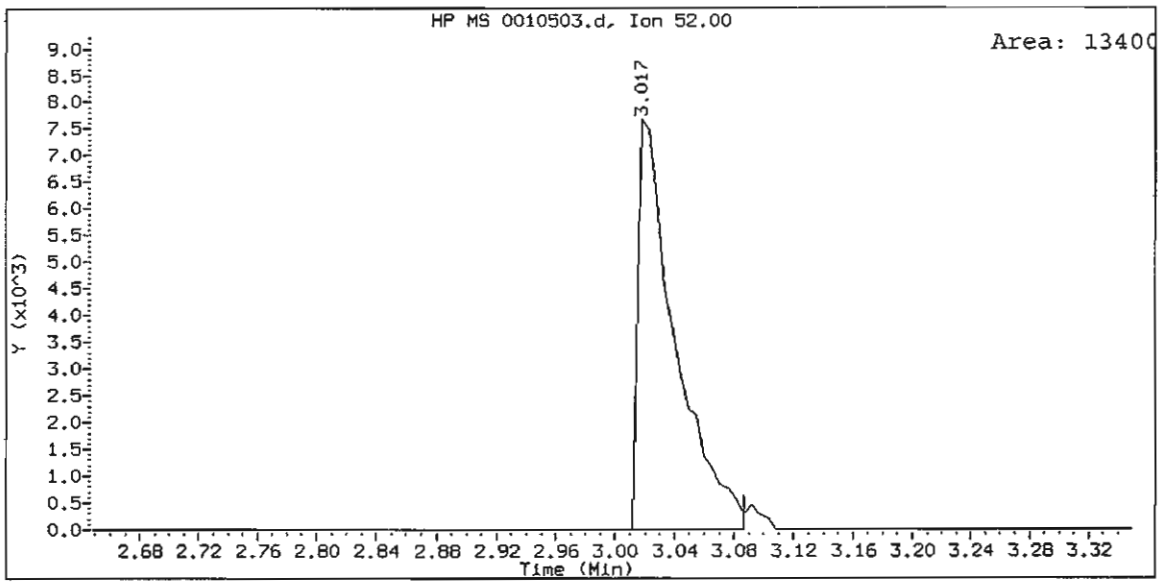
Pyridine Amount: 1.08





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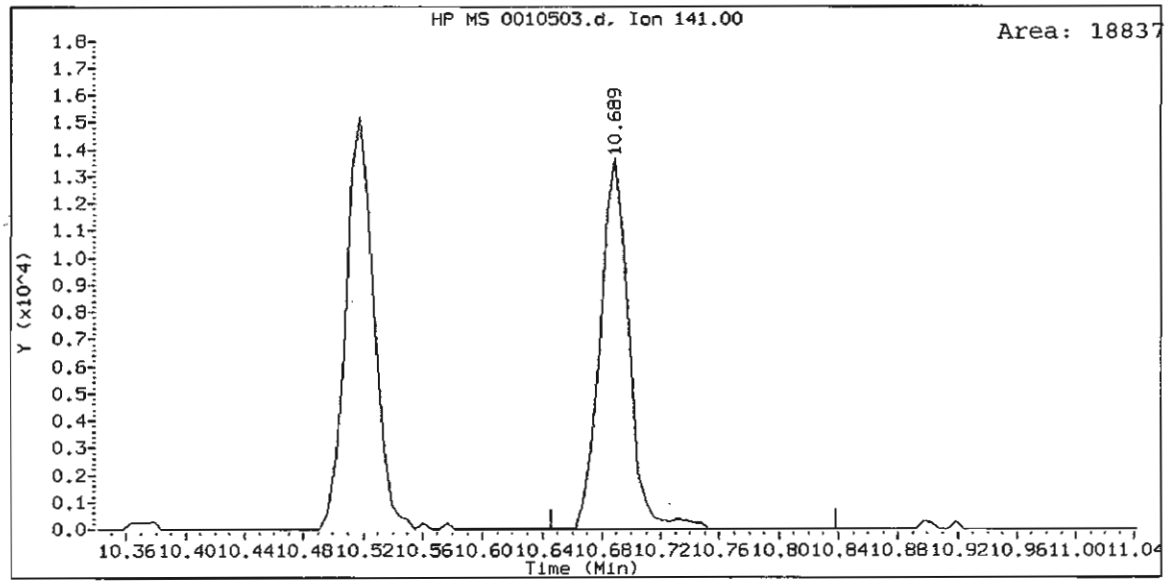
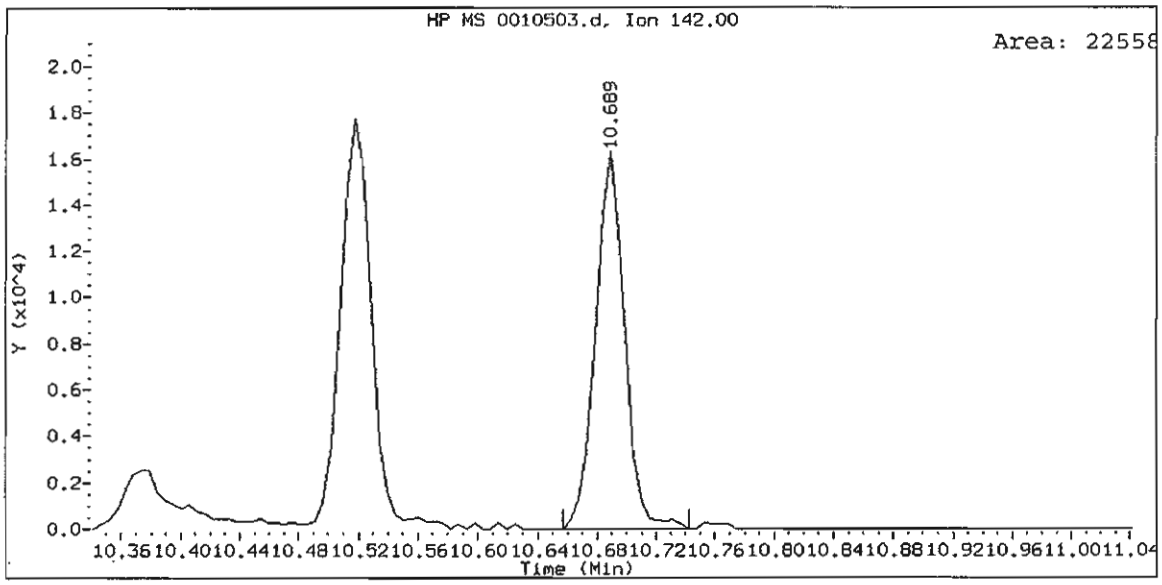
1-methylnaphthalene Amount: 1.05





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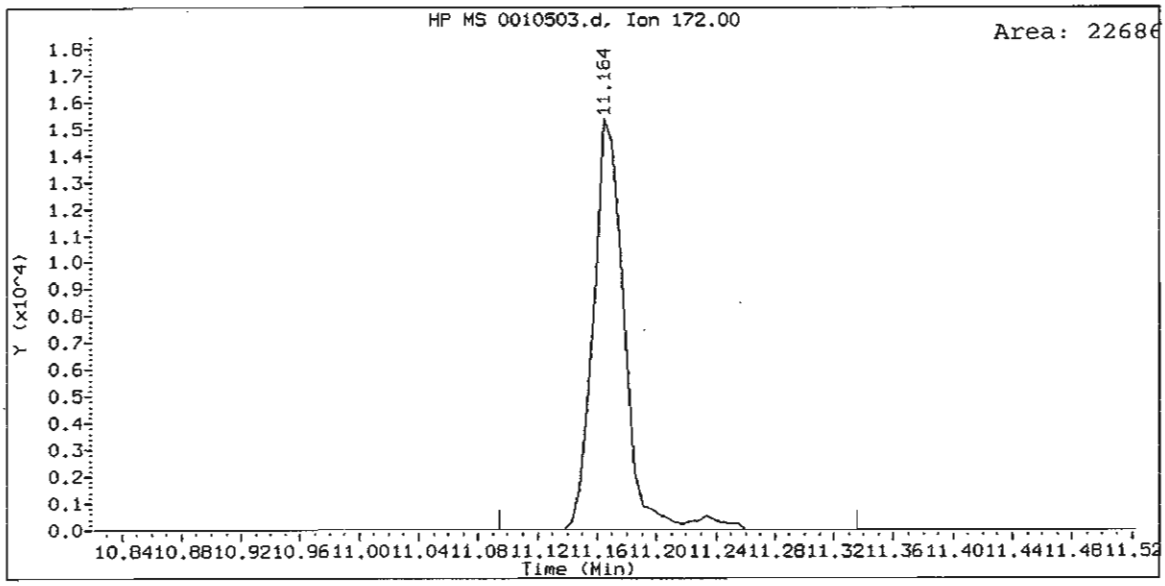
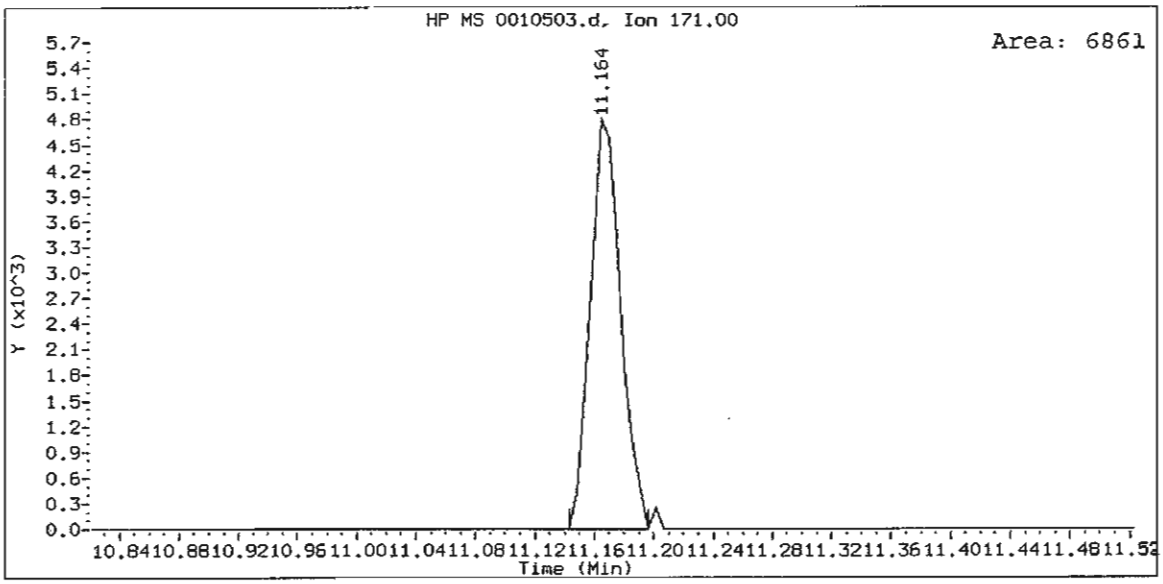
2-Fluorobiphenyl Amount: 1.09





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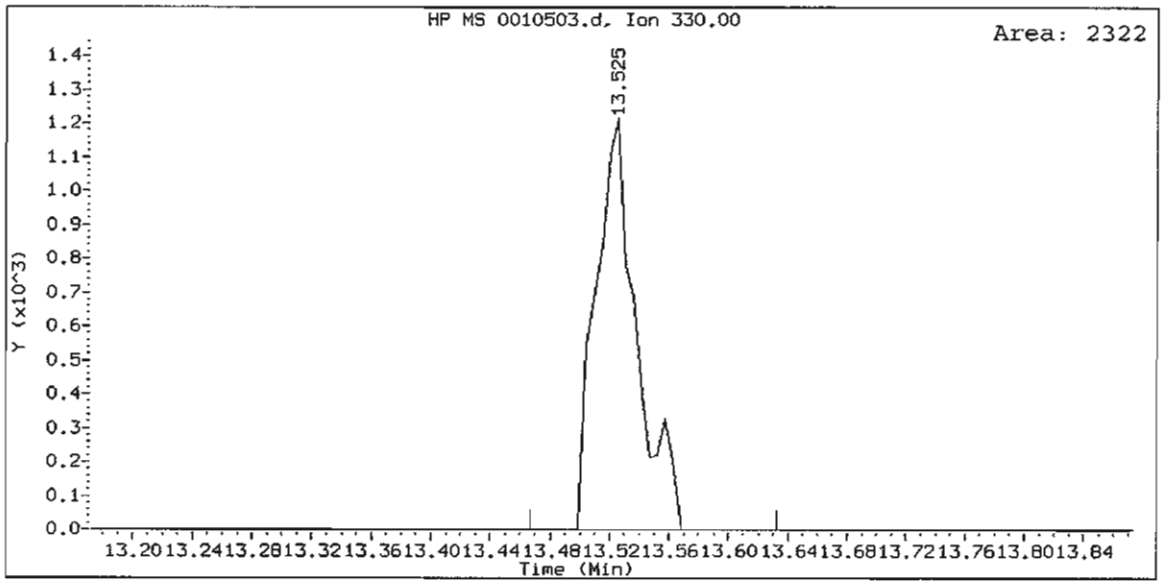
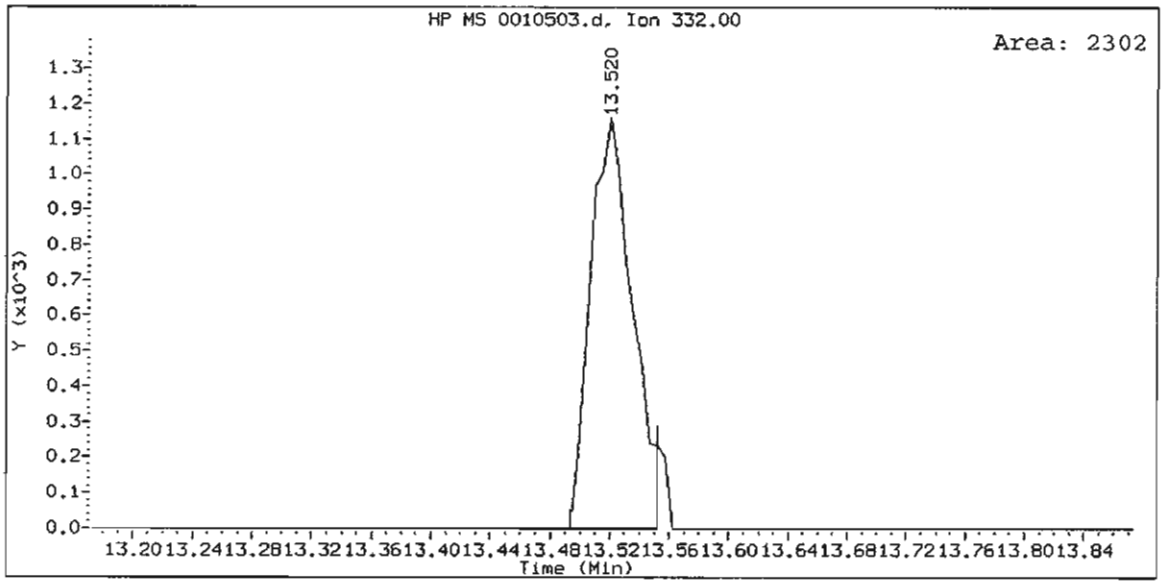
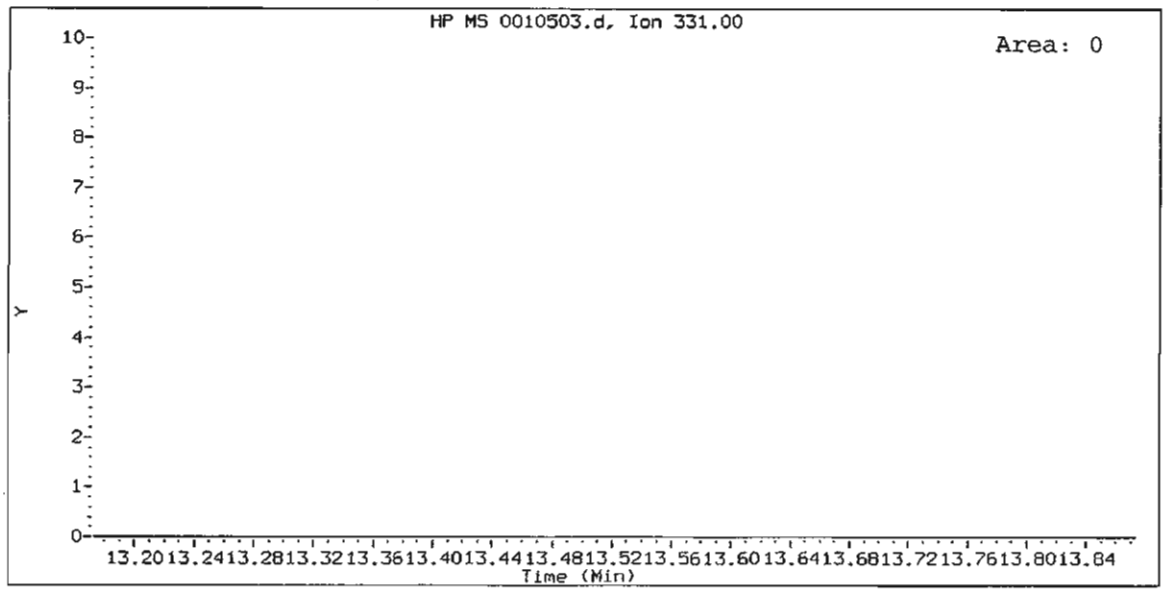
2,4,6-Tribromophenol Amount: 0.74







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0050503.d
Lab Smp Id: ABN 5
Inj Date : 03-MAY-2007 11:38
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : ABN 5
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:38
Cal File: 0050503.d
Als bottle: 3
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.447	5.451	(0.741)	80708	5.00000	5.318
$ 2 Phenol-d5	99	6.932	6.942	(0.943)	94695	5.00000	5.318
3 Phenol	94	6.948	6.963	(0.945)	101961	5.00000	5.216
$ 5 2-Chlorophenol-d4	132	7.055	7.059	(0.960)	66335	5.00000	5.388
4 Bis(2-Chloroethyl)ether	93	7.028	7.038	(0.956)	82722	5.00000	5.271
6 2-Chlorophenol	128	7.076	7.081	(0.963)	72505	5.00000	5.247
7 1,3-Dichlorobenzene	146	7.290	7.294	(0.992)	72469	5.00000	5.203
* 8 1,4-Dichlorobenzene-d4	152	7.349	7.353	(1.000)	166928	20.0000	
9 1,4-Dichlorobenzene	146	7.375	7.380	(1.004)	73229	5.00000	5.211
$ 10 1,2-Dichlorobenzene-d4	152	7.643	7.647	(1.040)	42446	5.00000	5.638
12 1,2-Dichlorobenzene	146	7.664	7.668	(1.043)	70605	5.00000	5.329
11 Benzyl alcohol	108	7.627	7.636	(1.038)	53113	5.00000	5.453
14 2,2'-oxybis(1-Chloropropane)	45	7.888	7.893	(1.073)	121838	5.00000	5.174
13 2-Methylphenol	108	7.862	7.877	(1.070)	69276	5.00000	5.268
17 Hexachloroethane	117	8.145	8.149	(1.108)	31663	5.00000	5.167
16 N-Nitroso-di-n-propylamine	70	8.097	8.112	(1.102)	53755	5.00000	5.316
15 4-Methylphenol	108	8.091	8.106	(1.101)	71876	5.00000	5.485
$ 18 Nitrobenzene-d5	82	8.262	8.272	(0.882)	73860	5.00000	5.126
19 Nitrobenzene	77	8.289	8.299	(0.885)	76683	5.00000	5.102
20 Isophorone	82	8.668	8.678	(0.925)	146789	5.00000	5.280
21 2-Nitrophenol	139	8.802	8.812	(0.940)	28898	5.00000	4.713
22 2,4-Dimethylphenol	107	8.925	8.934	(0.953)	63694	5.00000	5.150
23 Bis(2-Chloroethoxy)methane	93	9.069	9.079	(0.968)	91134	5.00000	5.261
24 Benzoic acid	105	9.074	9.218	(0.969)	65278	10.0000	7.886 ~~(M)~~
25 2,4-Dichlorophenol	162	9.186	9.191	(0.981)	47256	5.00000	5.317 ~~(M)~~
26 1,2,4-Trichlorobenzene	180	9.315	9.319	(0.994)	54774	5.00000	5.282
* 27 Naphthalene-d8	136	9.368	9.372	(1.000)	605560	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	9.400	9.405	(1.003)	189397	5.00000	5.280
29 4-Chloroaniline	127	9.544	9.554	(1.019)	83964	5.00000	5.295
30 Hexachlorobutadiene	225	9.726	9.730	(1.038)	27643	5.00000	5.341
31 4-Chloro-3-methylphenol	107	10.367	10.371	(1.107)	54839	5.00000	5.114 (M)
32 2-Methylnaphthalene	141	10.517	10.521	(1.123)	99545	5.00000	5.460
33 Hexachlorocyclopentadiene	237	10.907	10.906	(0.892)	15876	5.00000	3.893
34 2,4,6-Trichlorophenol	196	11.035	11.039	(0.903)	28458	5.00000	4.778
35 2,4,5-Trichlorophenol	196	11.094	11.093	(0.907)	30186	5.00000	4.755
$ 36 2-Fluorobiphenyl	172	11.168	11.173	(0.913)	108001	5.00000	5.451
37 2-Chloronaphthalene	162	11.291	11.301	(0.924)	101432	5.00000	5.335
38 2-Nitroaniline	65	11.526	11.536	(0.943)	34262	5.00000	4.801
39 Dimethylphthalate	163	11.911	11.921	(0.974)	99007	5.00000	5.247
40 Acenaphthylene	152	11.970	11.974	(0.979)	164710	5.00000	5.321
41 2,6-Dinitrotoluene	165	11.996	12.006	(0.981)	18149	5.00000	4.606
* 42 Acenaphthene-d10	164	12.226	12.231	(1.000)	293580	20.0000	
43 3-Nitroaniline	138	12.205	12.214	(0.998)	25719	5.00000	4.765 (M)
44 Acenaphthene	153	12.274	12.279	(1.004)	99248	5.00000	5.357
45 2,4-Dinitrophenol	184	12.370	12.380	(1.012)	1597	10.0000	1.707
46 Dibenzofuran	168	12.536	12.546	(1.025)	138830	5.00000	5.559
47 4-Nitrophenol	109	12.547	12.546	(1.026)	13221	5.00000	4.311 (M)
48 2,4-Dinitrotoluene	165	12.621	12.631	(1.032)	21100	5.00000	4.208
50 Diethylphthalate	149	13.065	13.080	(1.069)	99991	5.00000	5.317
49 Fluorene	166	13.092	13.096	(1.071)	107820	5.00000	5.479
51 4-Chlorophenyl-phenylether	204	13.124	13.128	(1.073)	50022	5.00000	5.394
52 4-Nitroaniline	138	13.198	13.213	(1.080)	26120	5.00000	4.754
53 4,6-Dinitro-2-methylphenol	198	13.273	13.288	(0.910)	10205	10.0000	5.135
54 N-Nitrosodiphenylamine	169	13.327	13.336	(0.913)	71954	5.00000	5.402
$ 55 2,4,6-Tribromophenol	330	13.514	13.523	(1.105)	14532	5.00000	4.862
56 4-Bromophenyl-phenylether	248	13.904	13.908	(0.953)	27607	5.00000	5.372
57 Hexachlorobenzene	284	14.117	14.127	(0.967)	29685	5.00000	5.469
58 Pentachlorophenol	266	14.422	14.426	(0.988)	14411	5.00000	4.469
* 59 Phenanthrene-d10	188	14.593	14.597	(1.000)	416198	20.0000	
60 Phenanthrene	178	14.630	14.640	(1.003)	151829	5.00000	5.466
61 Anthracene	178	14.700	14.709	(1.007)	157212	5.00000	5.478
62 Carbazole	167	14.993	14.998	(1.027)	135670	5.00000	5.494
63 Di-n-butylphthalate	149	15.725	15.735	(1.078)	164193	5.00000	5.391
64 Fluoranthene	202	16.569	16.574	(1.135)	146661	5.00000	5.565
65 Pyrene	202	16.916	16.926	(0.895)	148515	5.00000	5.142
$ 66 Terphenyl-d14	244	17.248	17.257	(0.912)	93951	5.00000	5.137
67 Butylbenzylphthalate	149	18.140	18.150	(0.959)	68541	5.00000	5.048
68 Benzo(a)anthracene	228	18.877	18.887	(0.998)	134860	5.00000	5.187
* 69 Chrysene-d12	240	18.909	18.914	(1.000)	348063	20.0000	
70 3,3'-Dichlorobenzidine	252	18.904	18.908	(1.000)	52985	5.00000	5.295
71 Chrysene	228	18.941	18.956	(1.002)	136344	5.00000	5.184
72 bis(2-Ethylhexyl)phthalate	149	19.150	19.154	(0.953)	94519	5.00000	5.173
* 134 Di-n-octylphthalate-d4	153	20.084	20.083	(1.000)	533495	20.0000	
73 Di-n-octylphthalate	149	20.090	20.099	(1.000)	164212	5.00000	5.181

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	20.533	20.548	(0.975)	164297	5.00000	5.360
75 Benzo(k)fluoranthene	252	20.565	20.580	(0.976)	166751	5.00000	5.663
76 Benzo(a)pyrene	252	20.982	20.992	(0.996)	169777	5.00000	5.534(M)
* 77 Perylene-d12	264	21.062	21.066	(1.000)	472766	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.494	22.519	(1.068)	196765	5.00000	5.424
79 Dibenzo(a,h)anthracene	278	22.526	22.546	(1.069)	164310	5.00000	5.469
80 Benzo(g,h,i)perylene	276	22.878	22.909	(1.086)	179032	5.00000	5.388
90 N-Nitrosodimethylamine	74	3.016	3.031	(0.410)	53709	5.00000	5.114
103 Pyridine	79	3.006	2.999	(0.409)	98991	5.00000	5.424
91 Aniline	93	6.911	6.920	(0.940)	136473	5.00000	5.466
105 1-methylnaphthalene	141	10.688	10.692	(1.141)	91823	5.00000	5.233
93 Benzidine	184	16.831	16.835	(0.890)	91470	5.00000	5.818
98 Retene	219	17.493	17.503	(0.925)	78188	5.00000	5.223
111 Azobenzene (1,2-DP-Hydrazine)	77	13.375	13.384	(1.094)	149633	5.00000	5.304
144 alpha-Terpineol	59	9.432	9.442	(1.007)	63524	5.00000	5.343
143 1,4-Dioxane	88	2.407	2.406	(0.328)	36248	5.00000	5.248
$ 137 d8-1,4-Dioxane	96	2.359	2.364	(0.321)	36964	5.00000	5.238
133 Butylatedhydroxytoluene	205	12.418	12.423	(1.016)	76695	5.00000	5.470
115 Tributyl Phosphate	99	13.444	13.459	(0.921)	162686	5.00000	5.462
116 Dibutyl Phenyl Phosphate	175	15.170	15.179	(1.040)	71120	5.00000	5.450
117 Butyl Diphenyl Phosphate	94	16.858	16.862	(0.892)	34601	5.00000	5.166
118 Triphenyl Phosphate	326	18.450	18.459	(0.976)	24509	5.00000	5.117
123 Acetophenone	105	8.033	8.042	(1.093)	98607	5.00000	5.301

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: 0050503.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	166928	22.23
27 Naphthalene-d8	497815	248908	995630	605560	21.64
42 Acenaphthene-d10	245165	122582	490330	293580	19.75
59 Phenanthrene-d10	363763	181882	727526	416198	14.41
69 Chrysene-d12	285968	142984	571936	348063	21.71
134 Di-n-octylphthala	466956	233478	933912	533495	14.25
77 Perylene-d12	427729	213864	855458	472766	10.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.00
27 Naphthalene-d8	9.37	8.87	9.87	9.37	-0.06
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.00
59 Phenanthrene-d10	14.60	14.10	15.10	14.59	-0.04
69 Chrysene-d12	18.91	18.41	19.41	18.91	-0.03
134 Di-n-octylphthala	20.08	19.58	20.58	20.08	0.00
77 Perylene-d12	21.07	20.57	21.57	21.06	-0.02

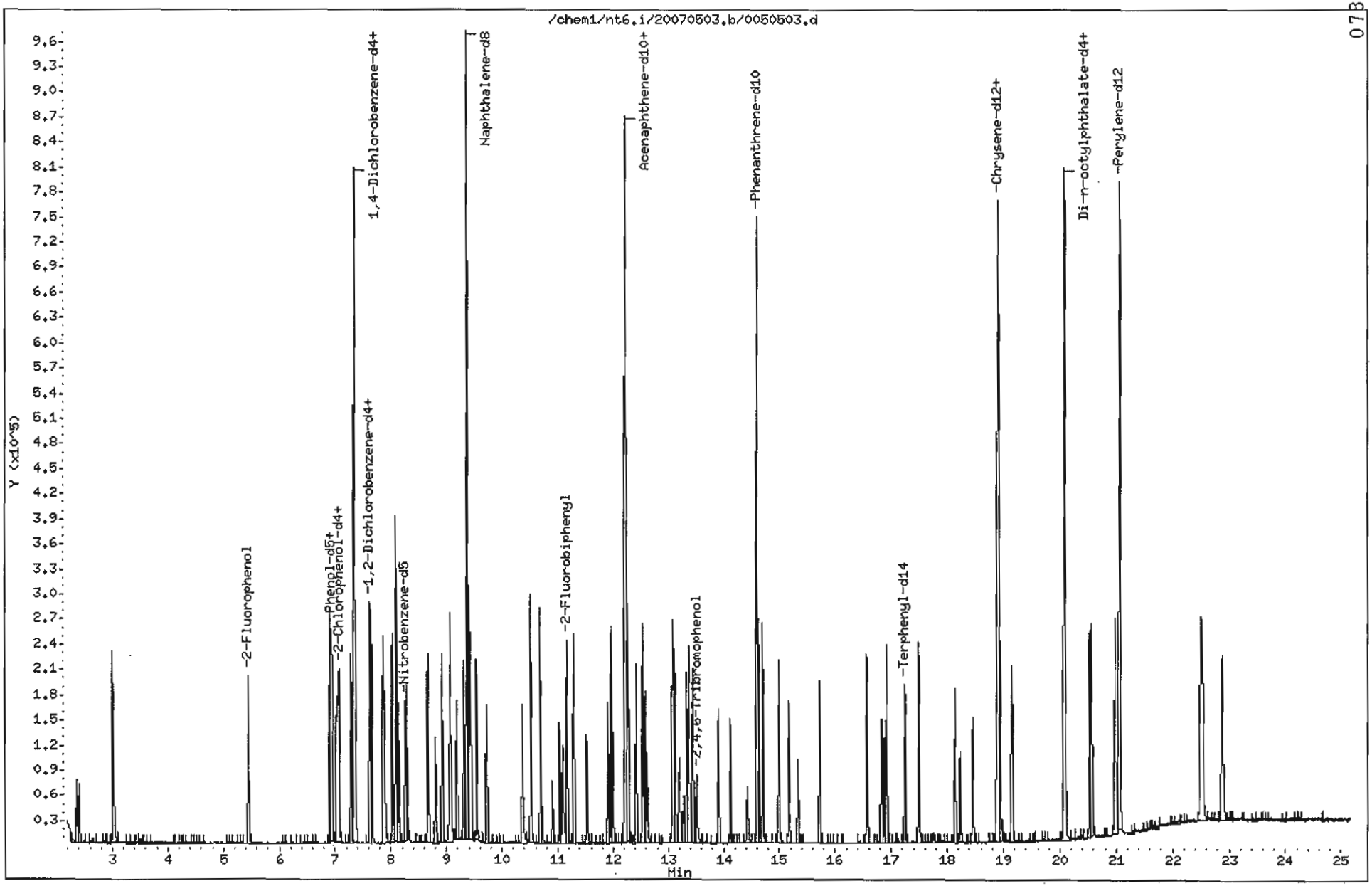
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20070503.b/0050503.d
Date : 03-MAY-2007 11:38
Client ID:
Sample Info: ABN 5

Instrument: nt6.i

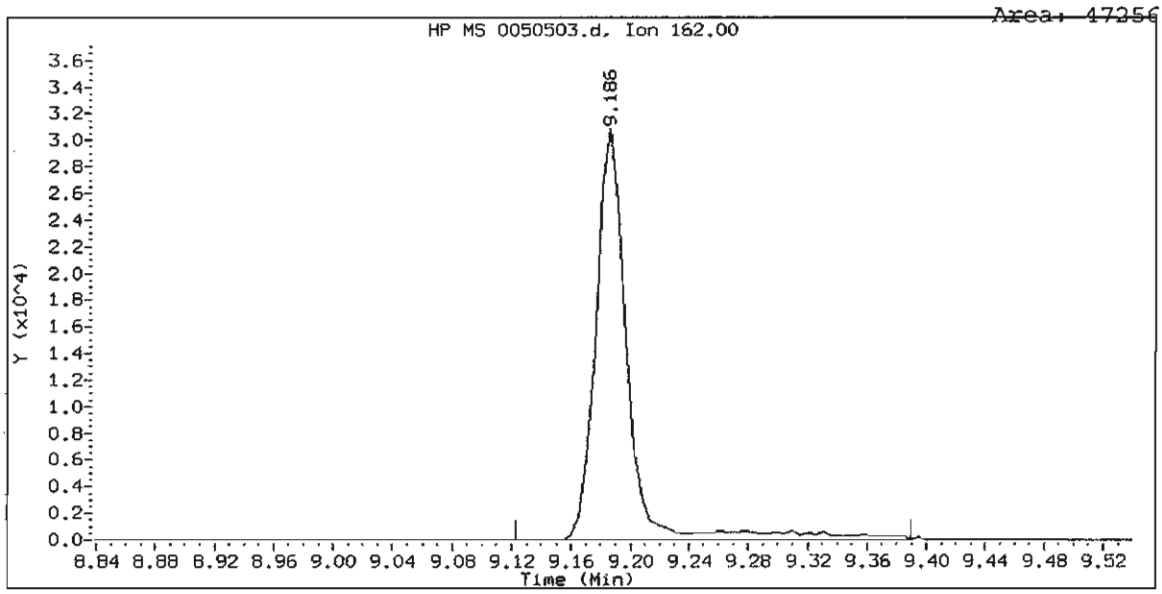
Operator: LJR/VTS
Column diameter: 0.32

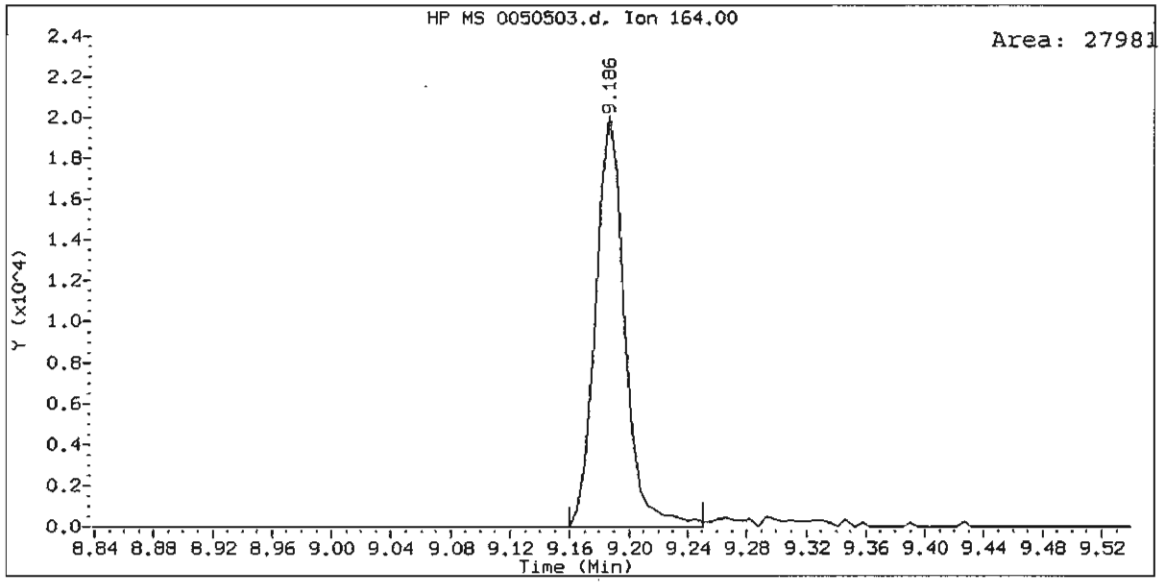
Column phase: ZB-5

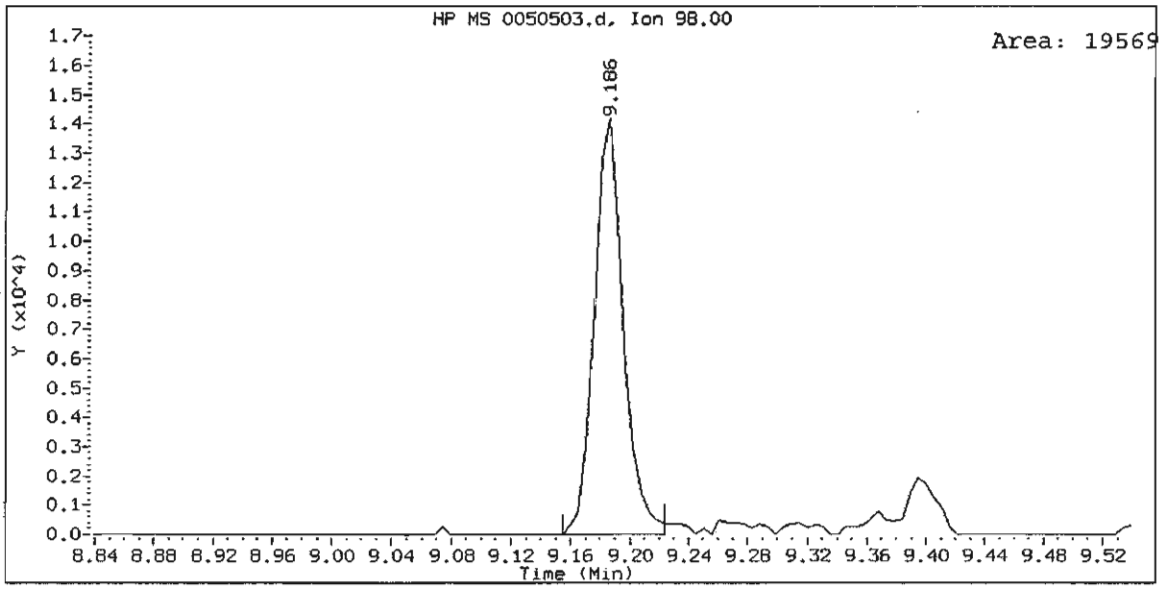


0736

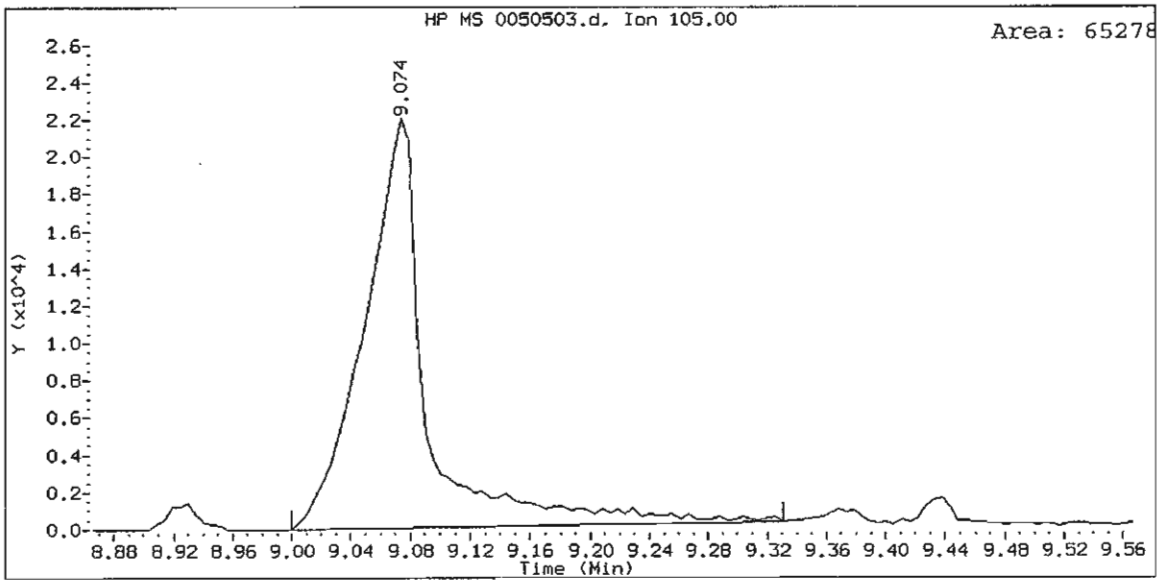
ABN 5, /chem1/nt6.i/20070503.b/0050503.d
2,4-Dichlorophenol Amount: 5.32

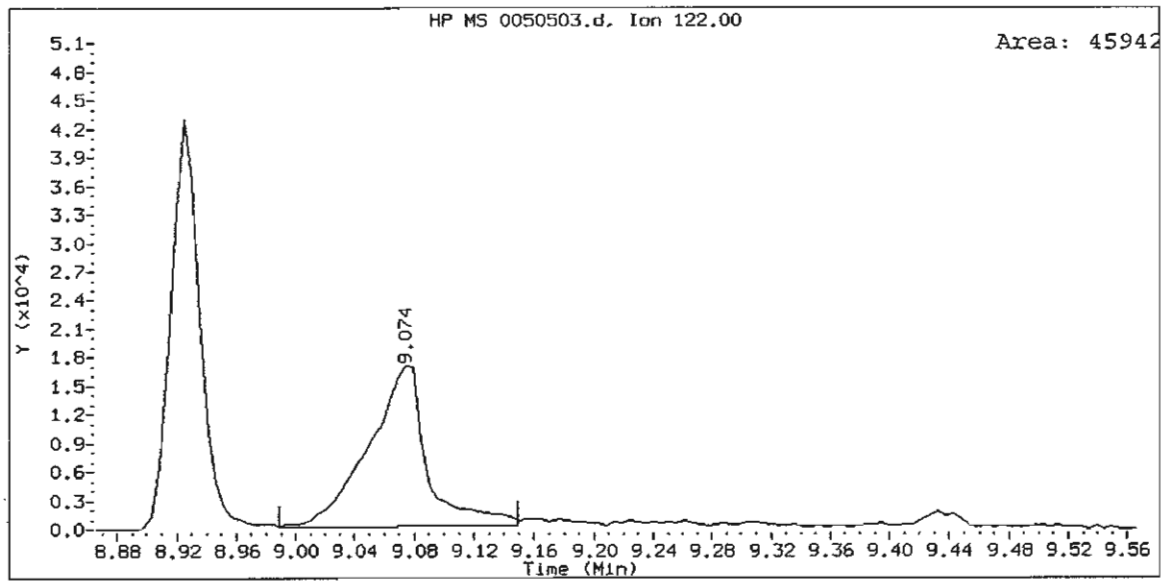


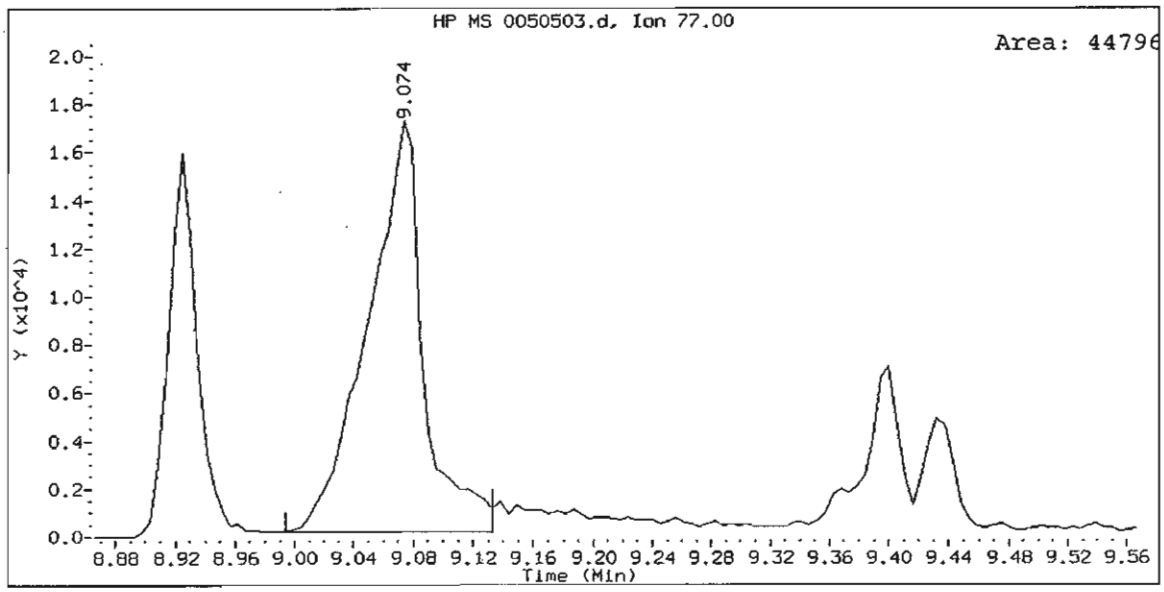




ABN 5, /chem1/nt6.i/20070503.b/0050503.d
Benzoic acid Amount: 7.89







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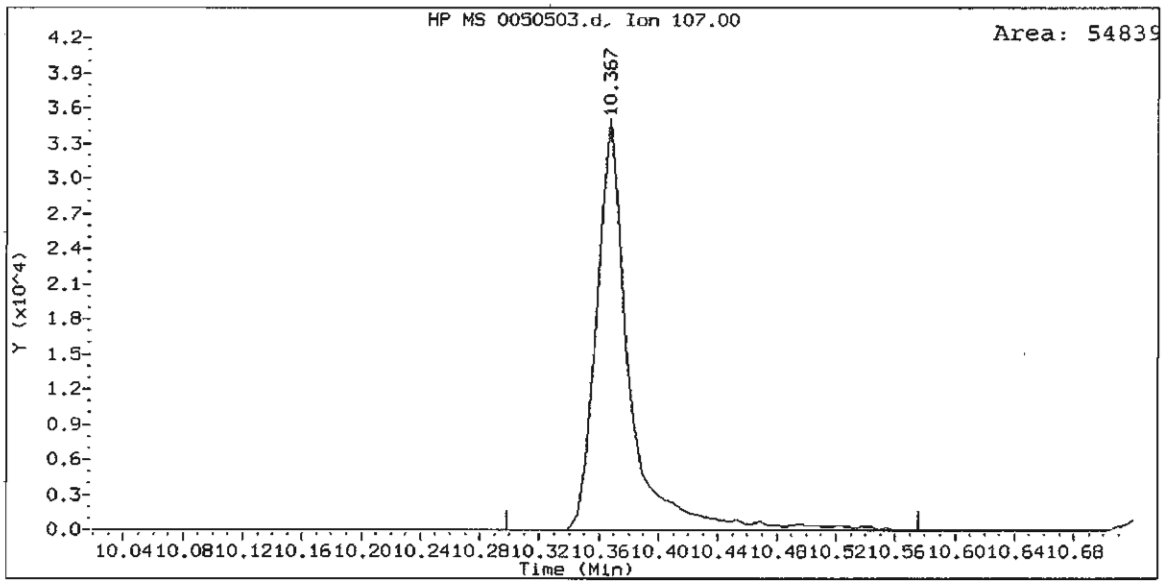
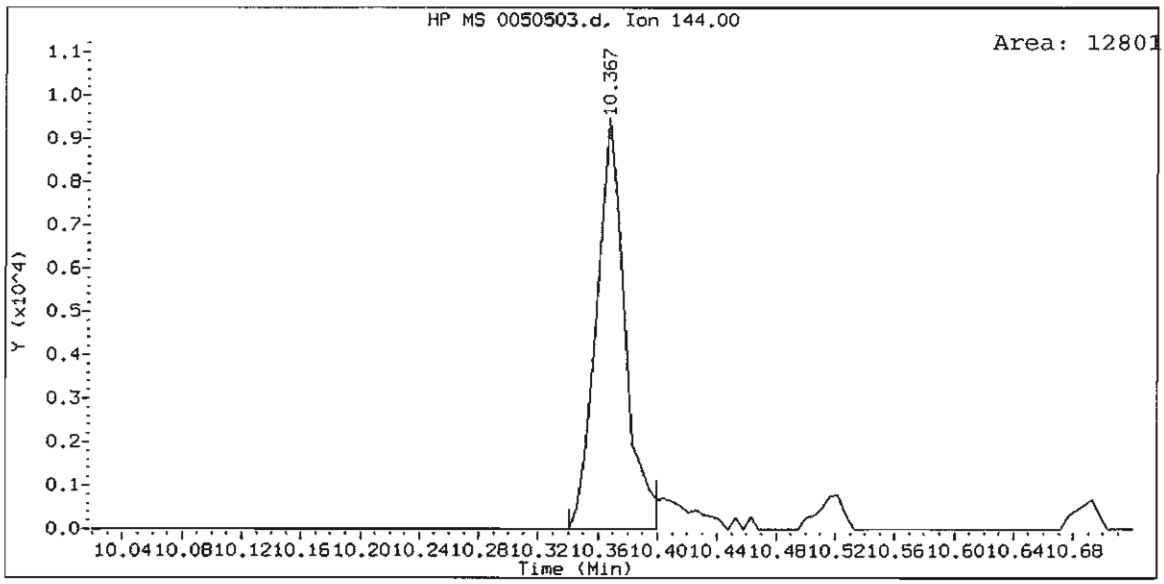
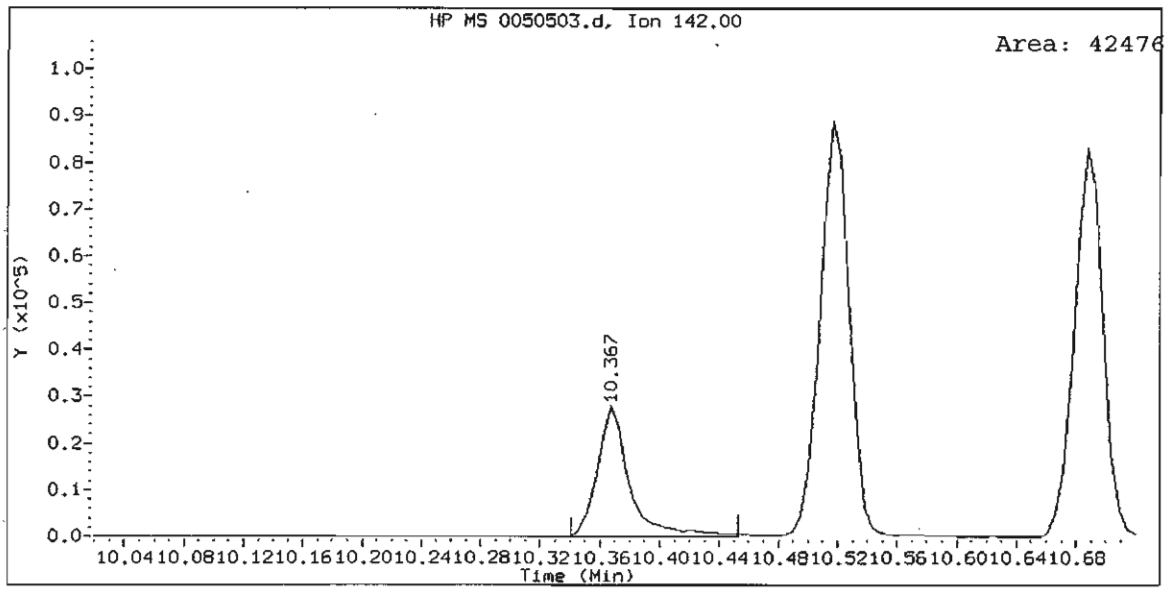
4-Chloro-3-methylphenol Amount: 5.11







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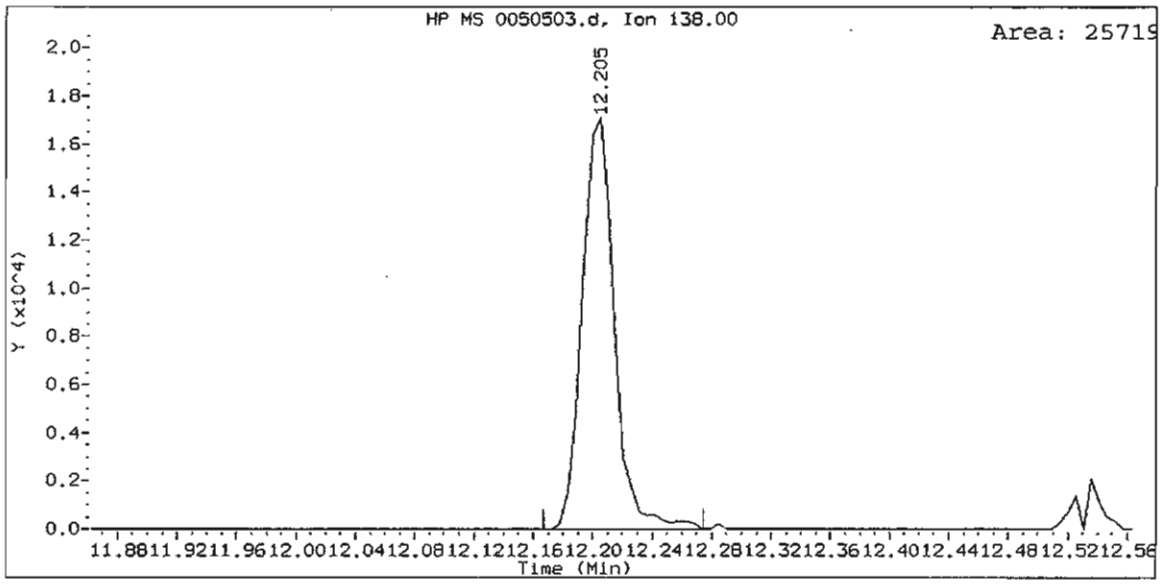
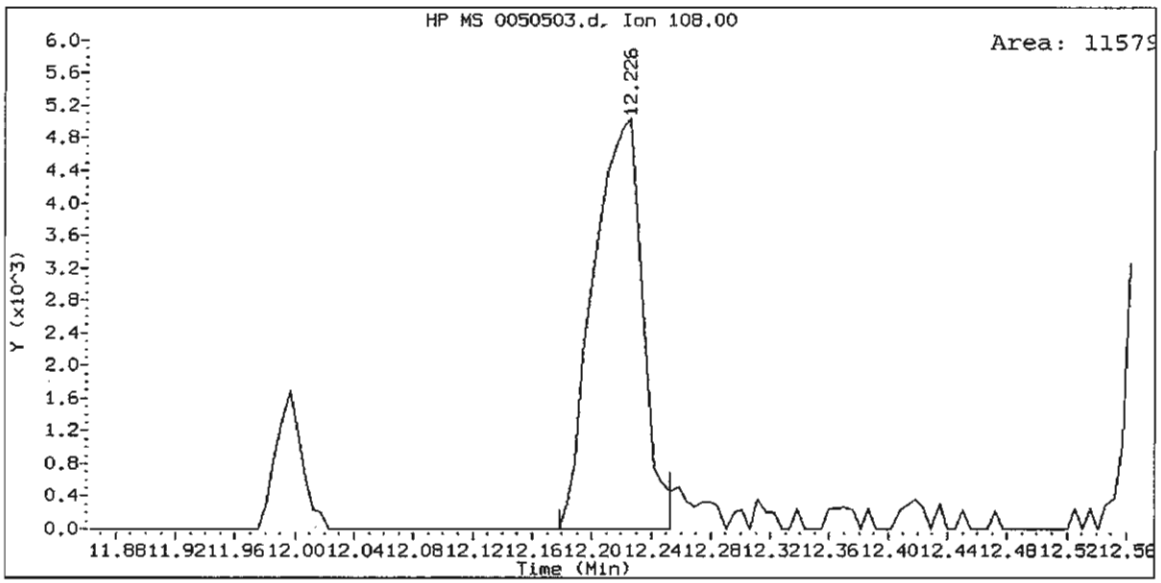
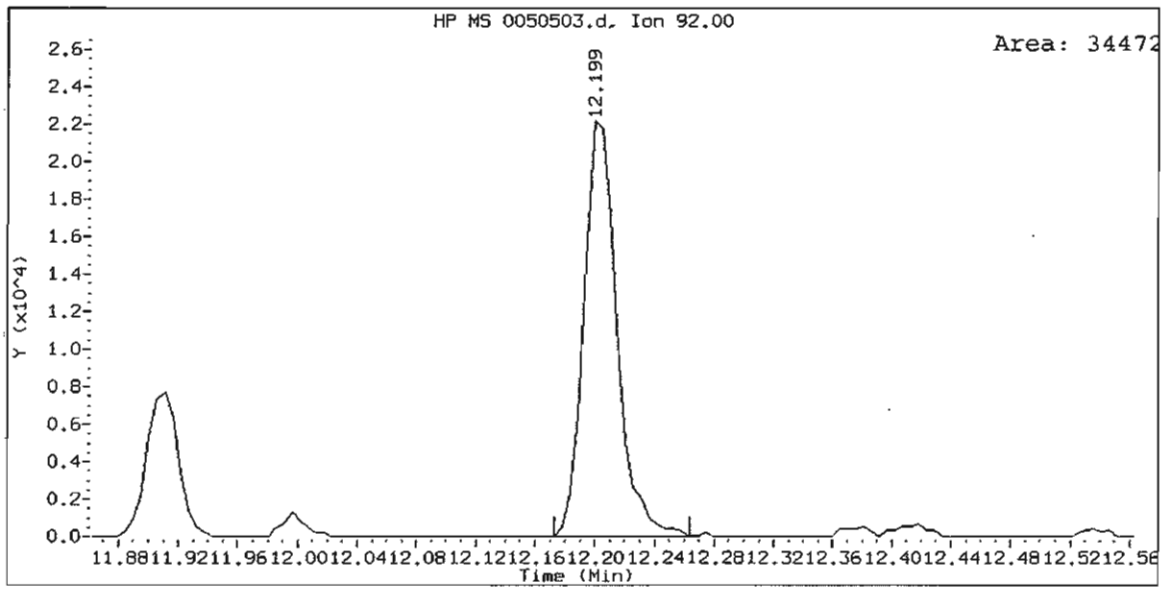
3-Nitroaniline Amount: 4.76







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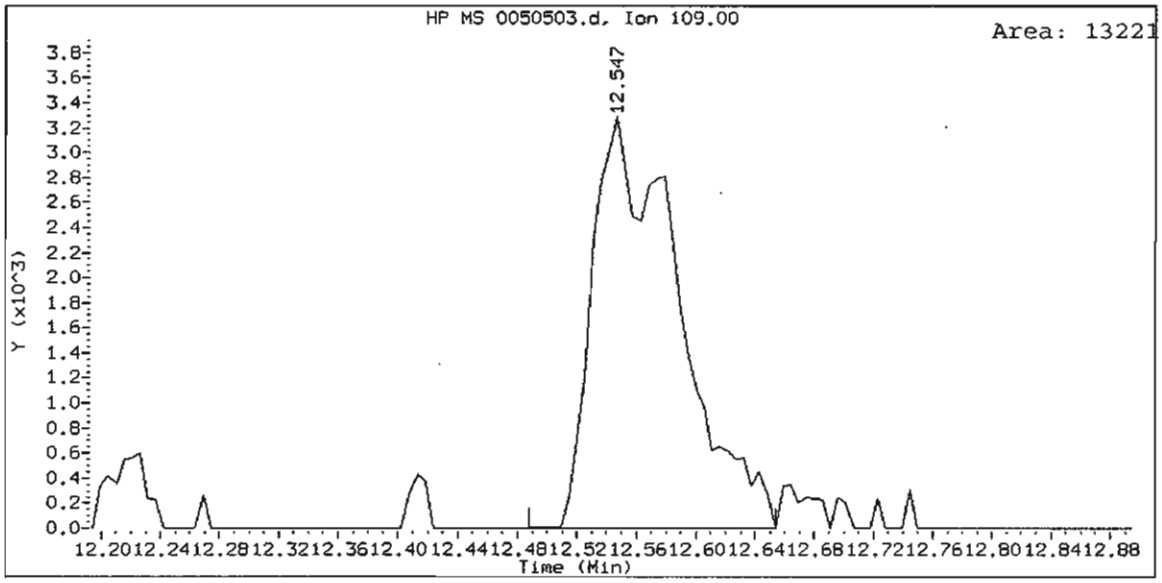
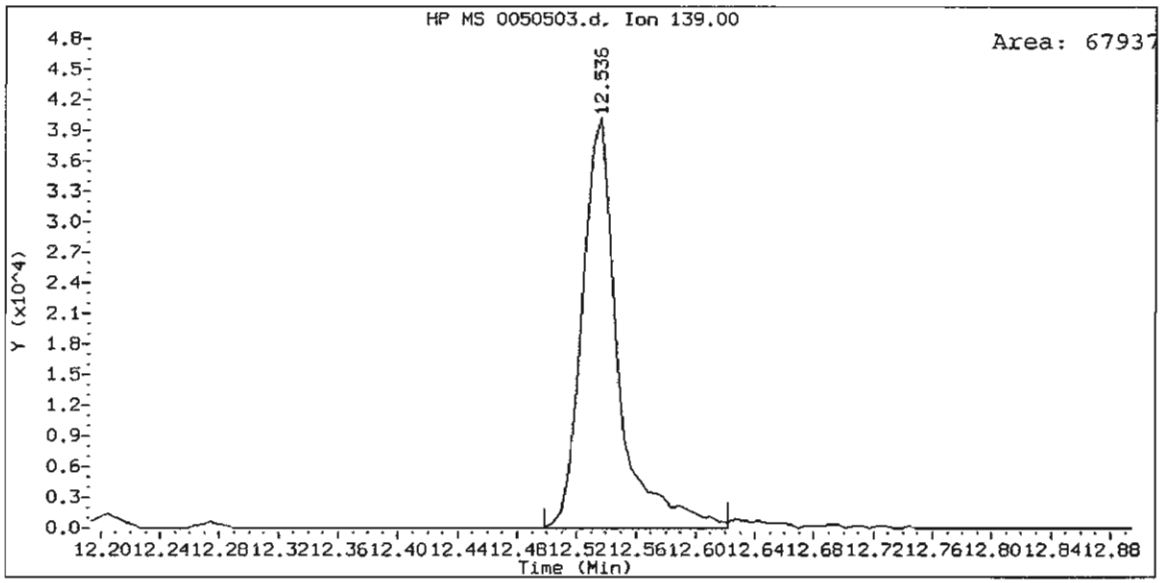
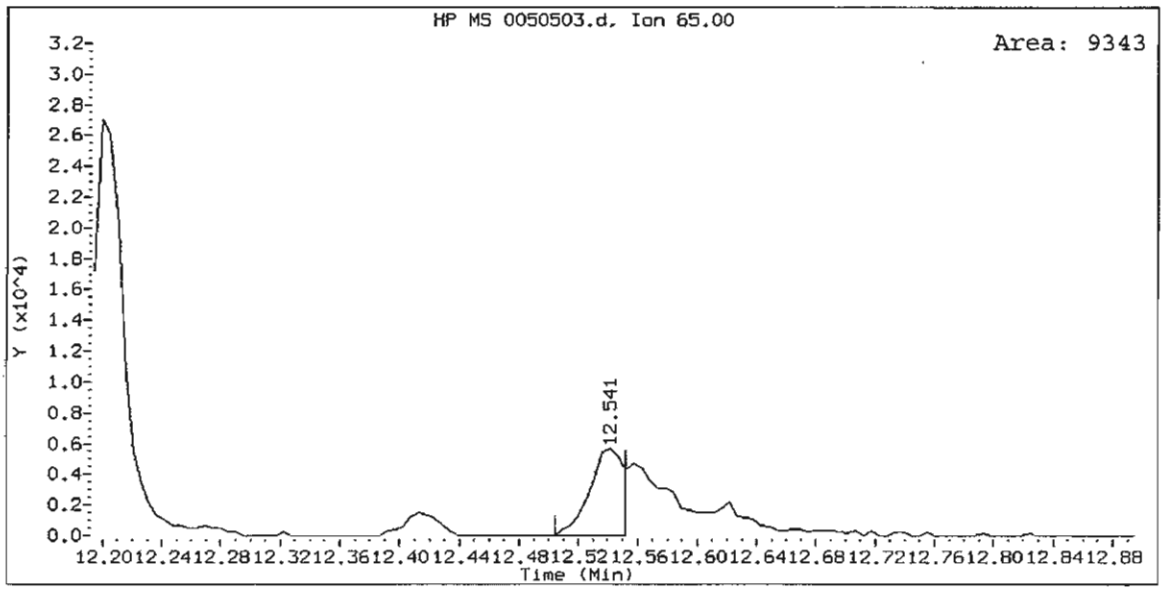
4-Nitrophenol Amount: 4.31







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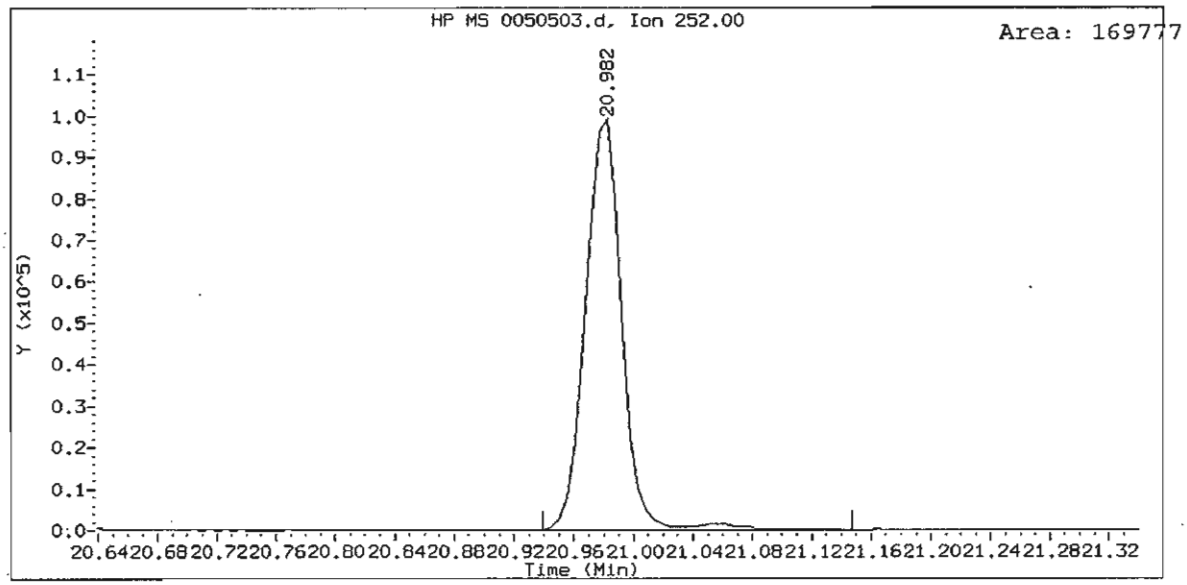
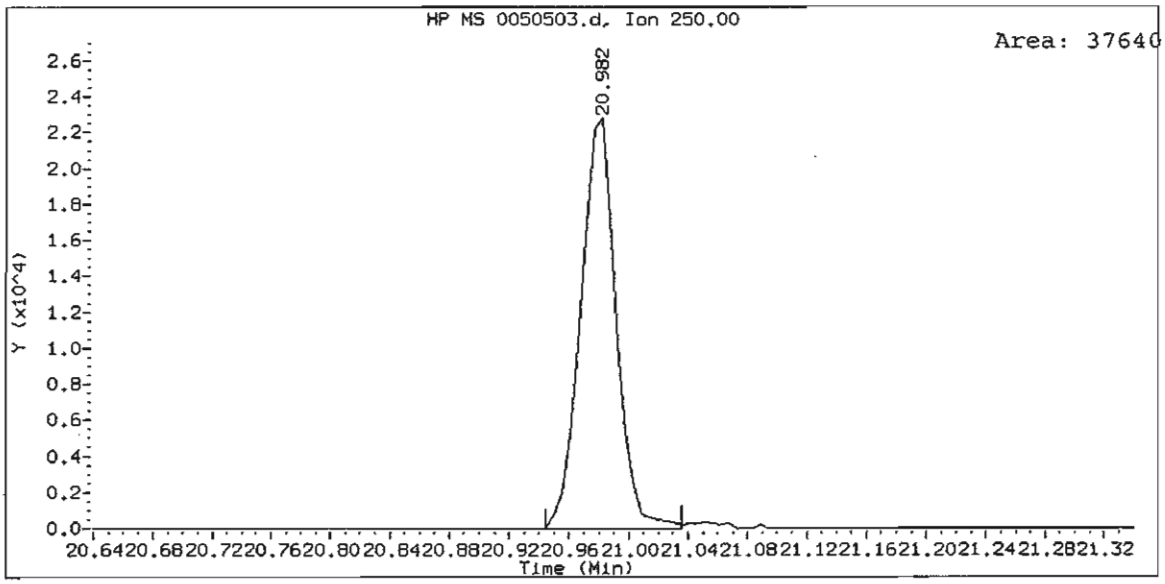
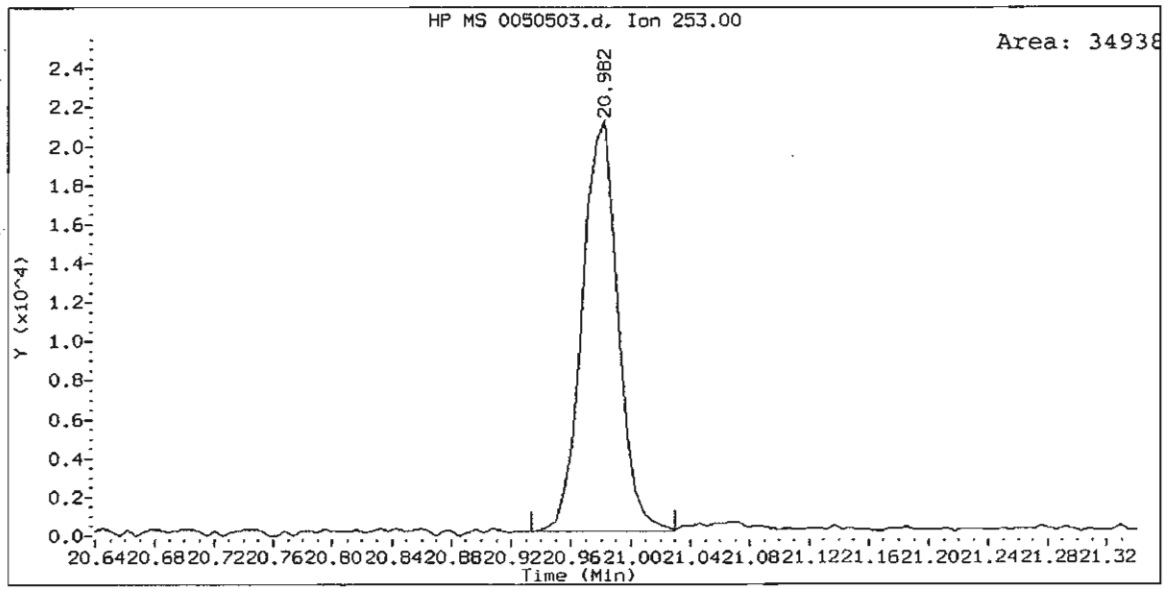
Benzo(a)pyrene Amount: 5.53







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0100503.d
Lab Smp Id: ABN 10
Inj Date : 03-MAY-2007 13:16
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 10
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 13:16 Cal File: 0100503.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.451	5.451	(0.741)	164816	10.0000	11.07
$ 2 Phenol-d5	99	6.931	6.942	(0.943)	197210	10.0000	11.29
3 Phenol	94	6.952	6.963	(0.946)	218087	10.0000	11.37
$ 5 2-Chlorophenol-d4	132	7.054	7.059	(0.959)	134310	10.0000	11.12
4 Bis(2-Chloroethyl)ether	93	7.032	7.038	(0.956)	171123	10.0000	11.11
6 2-Chlorophenol	128	7.080	7.081	(0.963)	149684	10.0000	11.04
7 1,3-Dichlorobenzene	146	7.289	7.294	(0.991)	149348	10.0000	10.93
* 8 1,4-Dichlorobenzene-d4	152	7.353	7.353	(1.000)	163791	20.0000	
9 1,4-Dichlorobenzene	146	7.374	7.380	(1.003)	149885	10.0000	10.87
$ 10 1,2-Dichlorobenzene-d4	152	7.641	7.647	(1.039)	84003	10.0000	11.37
12 1,2-Dichlorobenzene	146	7.663	7.668	(1.042)	141616	10.0000	10.89
11 Benzyl alcohol	108	7.625	7.636	(1.037)	108095	10.0000	11.31
14 2,2'-oxybis(1-Chloropropane)	45	7.892	7.893	(1.073)	257587	10.0000	11.15
13 2-Methylphenol	108	7.866	7.877	(1.070)	147034	10.0000	11.40
17 Hexachloroethane	117	8.149	8.149	(1.108)	65700	10.0000	10.93
16 N-Nitroso-di-n-propylamine	70	8.101	8.112	(1.102)	111889	10.0000	11.28
15 4-Methylphenol	108	8.095	8.106	(1.101)	146472	10.0000	11.39
$ 18 Nitrobenzene-d5	82	8.261	8.272	(0.881)	155701	10.0000	10.89
19 Nitrobenzene	77	8.293	8.299	(0.885)	163834	10.0000	10.98
20 Isophorone	82	8.672	8.678	(0.925)	305303	10.0000	11.06
21 2-Nitrophenol	139	8.806	8.812	(0.940)	64846	10.0000	10.66
22 2,4-Dimethylphenol	107	8.929	8.934	(0.953)	138790	10.0000	11.31
23 Bis(2-Chloroethoxy)methane	93	9.073	9.079	(0.968)	191324	10.0000	11.13
24 Benzoic acid	105	9.110	9.218	(0.972)	163586	20.0000	19.91(M)
25 2,4-Dichlorophenol	162	9.185	9.191	(0.980)	95211	10.0000	10.79
26 1,2,4-Trichlorobenzene	180	9.319	9.319	(0.994)	109432	10.0000	10.63
* 27 Naphthalene-d8	136	9.372	9.372	(1.000)	601010	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	9.399	9.405	(1.003)	388758	10.0000	10.92
29 4-Chloroaniline	127	9.543	9.554	(1.018)	172857	10.0000	10.98
30 Hexachlorobutadiene	225	9.730	9.730	(1.038)	55593	10.0000	10.82
31 4-Chloro-3-methylphenol	107	10.366	10.371	(1.106)	117300	10.0000	11.02
32 2-Methylnaphthalene	141	10.521	10.521	(1.123)	195362	10.0000	10.80
33 Hexachlorocyclopentadiene	237	10.905	10.906	(0.892)	39289	10.0000	9.710
34 2,4,6-Trichlorophenol	196	11.039	11.039	(0.903)	63000	10.0000	10.66
35 2,4,5-Trichlorophenol	196	11.092	11.093	(0.907)	67875	10.0000	10.78
$ 36 2-Fluorobiphenyl	172	11.167	11.173	(0.913)	216504	10.0000	11.01
37 2-Chloronaphthalene	162	11.295	11.301	(0.924)	205586	10.0000	10.90
38 2-Nitroaniline	65	11.530	11.536	(0.943)	75798	10.0000	10.70
39 Dimethylphthalate	163	11.915	11.921	(0.975)	205770	10.0000	10.99
40 Acenaphthylene	152	11.968	11.974	(0.979)	337913	10.0000	11.00
41 2,6-Dinitrotoluene	165	12.001	12.006	(0.982)	41521	10.0000	10.62
* 42 Acenaphthene-d10	164	12.225	12.231	(1.000)	291316	20.0000	
43 3-Nitroaniline	138	12.209	12.214	(0.999)	58141	10.0000	10.86
44 Acenaphthene	153	12.273	12.279	(1.004)	199827	10.0000	10.87
45 2,4-Dinitrophenol	184	12.374	12.380	(1.012)	10929	20.0000	11.77 (M)
46 Dibenzofuran	168	12.535	12.546	(1.025)	269848	10.0000	10.89
47 4-Nitrophenol	109	12.540	12.546	(1.026)	33142	10.0000	10.89 (M)
48 2,4-Dinitrotoluene	165	12.626	12.631	(1.033)	53542	10.0000	10.76
50 Diethylphthalate	149	13.069	13.080	(1.069)	204888	10.0000	10.98
49 Fluorene	166	13.096	13.096	(1.071)	216684	10.0000	11.10
51 4-Chlorophenyl-phenylether	204	13.128	13.128	(1.074)	100985	10.0000	10.97
52 4-Nitroaniline	138	13.197	13.213	(1.080)	57446	10.0000	10.54
53 4,6-Dinitro-2-methylphenol	198	13.277	13.288	(0.910)	38043	20.0000	18.85
54 N-Nitrosodiphenylamine	169	13.331	13.336	(0.913)	148751	10.0000	10.99
$ 55 2,4,6-Tribromophenol	330	13.518	13.523	(1.106)	31563	10.0000	10.64
56 4-Bromophenyl-phenylether	248	13.908	13.908	(0.953)	56931	10.0000	10.91
57 Hexachlorobenzene	284	14.121	14.127	(0.967)	60395	10.0000	10.95
58 Pentachlorophenol	266	14.421	14.426	(0.988)	33286	10.0000	10.16 (M)
* 59 Phenanthrene-d10	188	14.597	14.597	(1.000)	422770	20.0000	
60 Phenanthrene	178	14.634	14.640	(1.003)	308749	10.0000	10.94
61 Anthracene	178	14.704	14.709	(1.007)	320040	10.0000	10.98
62 Carbazole	167	14.992	14.998	(1.027)	272965	10.0000	10.88
63 Di-n-butylphthalate	149	15.729	15.735	(1.078)	339253	10.0000	10.97
64 Fluoranthene	202	16.568	16.574	(1.135)	291275	10.0000	10.88
65 Pyrene	202	16.921	16.926	(0.895)	299745	10.0000	11.08
$ 66 Terphenyl-d14	244	17.252	17.257	(0.912)	187529	10.0000	10.94
67 Butylbenzylphthalate	149	18.144	18.150	(0.960)	137214	10.0000	10.78
68 Benzo(a)anthracene	228	18.881	18.887	(0.999)	267027	10.0000	10.96
* 69 Chrysene-d12	240	18.908	18.914	(1.000)	326133	20.0000	
70 3,3'-Dichlorobenzidine	252	18.903	18.908	(1.000)	99927	10.0000	10.66
71 Chrysene	228	18.945	18.956	(1.002)	263992	10.0000	10.71
72 bis(2-Ethylhexyl)phthalate	149	19.154	19.154	(0.954)	190722	10.0000	10.83
* 134 Di-n-octylphthalate-d4	153	20.083	20.083	(1.000)	513939	20.0000	
73 Di-n-octylphthalate	149	20.094	20.099	(1.001)	325315	10.0000	10.66

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	20.537	20.548	(0.975)	320672	10.0000	10.78
75 Benzo(k)fluoranthene	252	20.569	20.580	(0.976)	312349	10.0000	10.93
76 Benzo(a)pyrene	252	20.981	20.992	(0.996)	322376	10.0000	10.83 (M)
* 77 Perylene-d12	264	21.066	21.066	(1.000)	458872	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.498	22.519	(1.068)	387704	10.0000	11.01
79 Dibenzo(a,h)anthracene	278	22.530	22.546	(1.069)	323238	10.0000	11.08
80 Benzo(g,h,i)perylene	276	22.882	22.909	(1.086)	353732	10.0000	10.97
90 N-Nitrosodimethylamine	74	3.020	3.031	(0.411)	114368	10.0000	11.10
103 Pyridine	79	3.004	2.999	(0.409)	194771	10.0000	10.88
91 Aniline	93	6.915	6.920	(0.940)	273673	10.0000	11.17
105 1-methylnaphthalene	141	10.692	10.692	(1.141)	188407	10.0000	10.82
93 Benzidine	184	16.830	16.835	(0.890)	178213	10.0000	12.10
98 Retene	219	17.498	17.503	(0.925)	155847	10.0000	11.11
111 Azobenzene (1,2-DP-Hydrazine)	77	13.373	13.384	(1.094)	312527	10.0000	11.16
144 alpha-Terpineol	59	9.436	9.442	(1.007)	130149	10.0000	11.03
143 1,4-Dioxane	88	2.411	2.406	(0.328)	73796	10.0000	10.89
$ 137 d8-1,4-Dioxane	96	2.363	2.364	(0.321)	76687	10.0000	11.08
133 Butylatedhydroxytoluene	205	12.417	12.423	(1.016)	154741	10.0000	11.12
115 Tributyl Phosphate	99	13.448	13.459	(0.921)	344132	10.0000	11.37
116 Dibutyl Phenyl Phosphate	175	15.174	15.179	(1.040)	146766	10.0000	11.07
117 Butyl Diphenyl Phosphate	94	16.857	16.862	(0.892)	71764	10.0000	11.43
118 Triphenyl Phosphate	326	18.454	18.459	(0.976)	48761	10.0000	10.87
123 Acetophenone	105	8.037	8.042	(1.093)	203202	10.0000	11.13

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: 0100503.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	163791	19.94
27 Naphthalene-d8	497815	248908	995630	601010	20.73
42 Acenaphthene-d10	245165	122582	490330	291316	18.82
59 Phenanthrene-d10	363763	181882	727526	422770	16.22
69 Chrysene-d12	285968	142984	571936	326133	14.05
134 Di-n-octylphthala	466956	233478	933912	513939	10.06
77 Perylene-d12	427729	213864	855458	458872	7.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.06
27 Naphthalene-d8	9.37	8.87	9.87	9.37	-0.01
42 Acenaphthene-d10	12.23	11.73	12.73	12.22	-0.01
59 Phenanthrene-d10	14.60	14.10	15.10	14.60	-0.01
69 Chrysene-d12	18.91	18.41	19.41	18.91	-0.03
134 Di-n-octylphthala	20.08	19.58	20.58	20.08	-0.01
77 Perylene-d12	21.07	20.57	21.57	21.07	-0.01

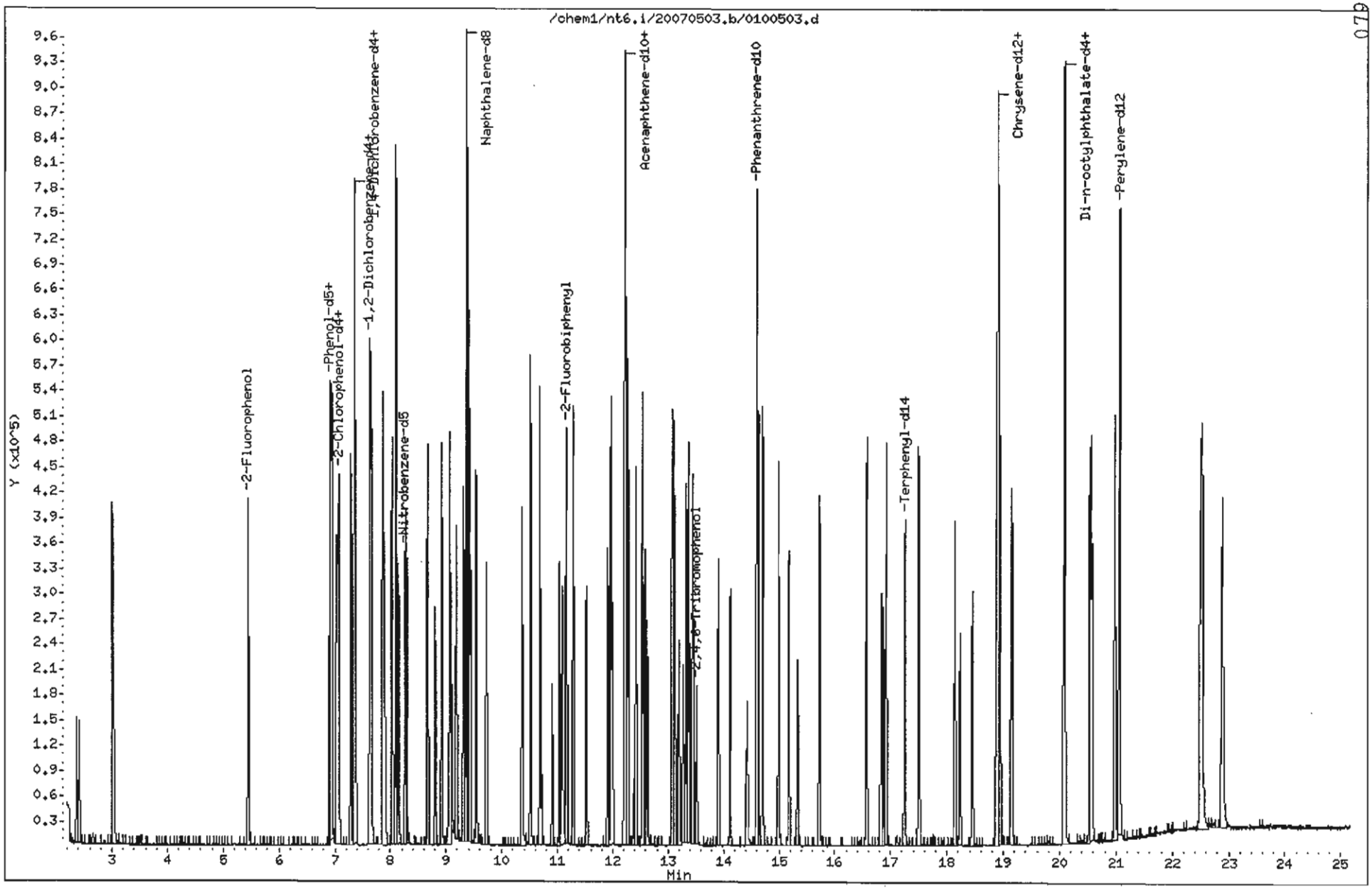
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20070503.b/0100503.d
Date : 03-MAY-2007 13:16
Client ID:
Sample Info: ABN 10

Column phase: ZB-5

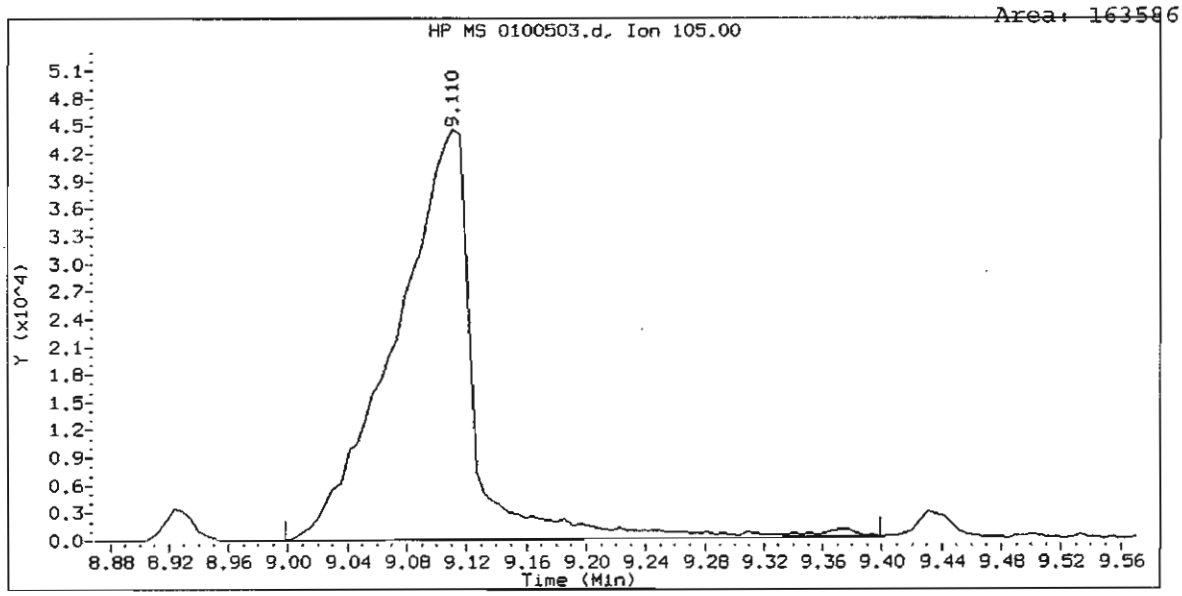
Instrument: nt6.i

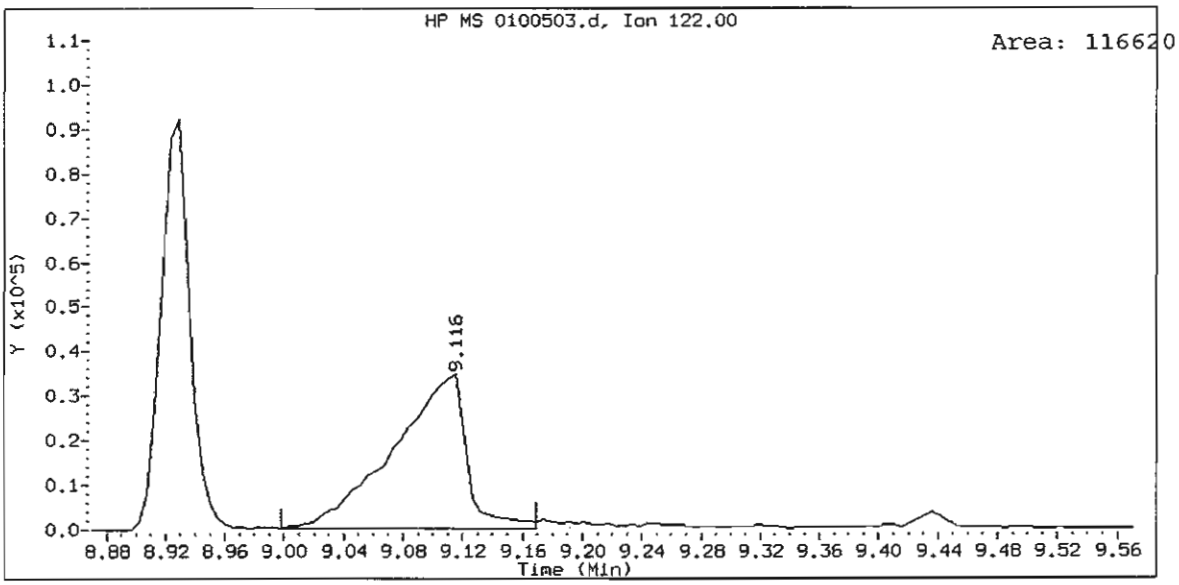
Operator: LJR/VTS
Column diameter: 0.32

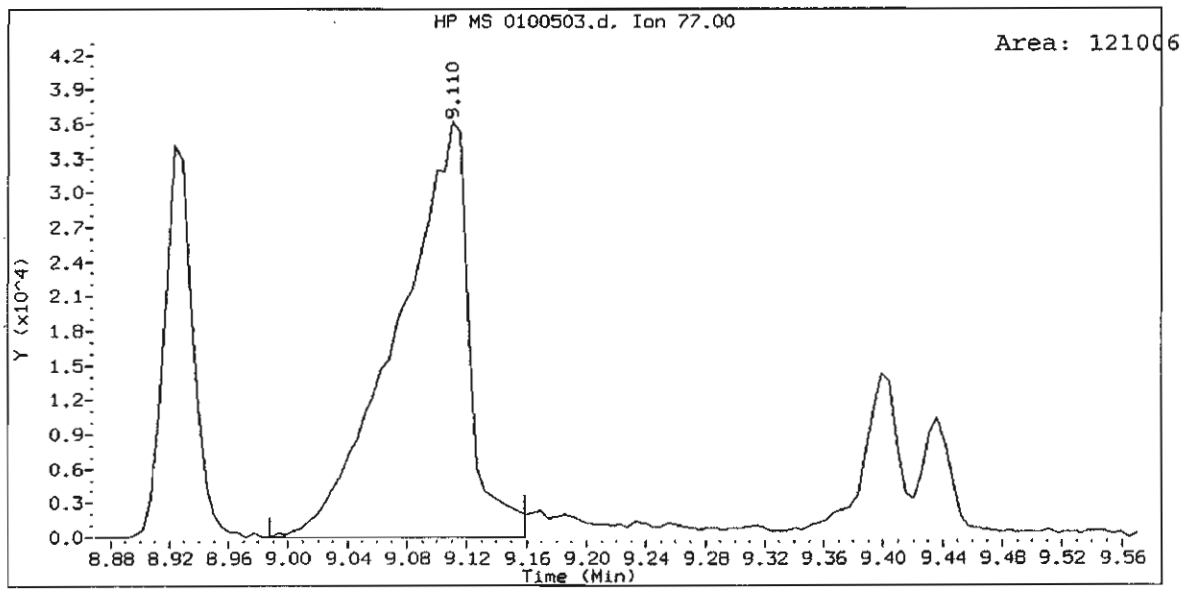


0797

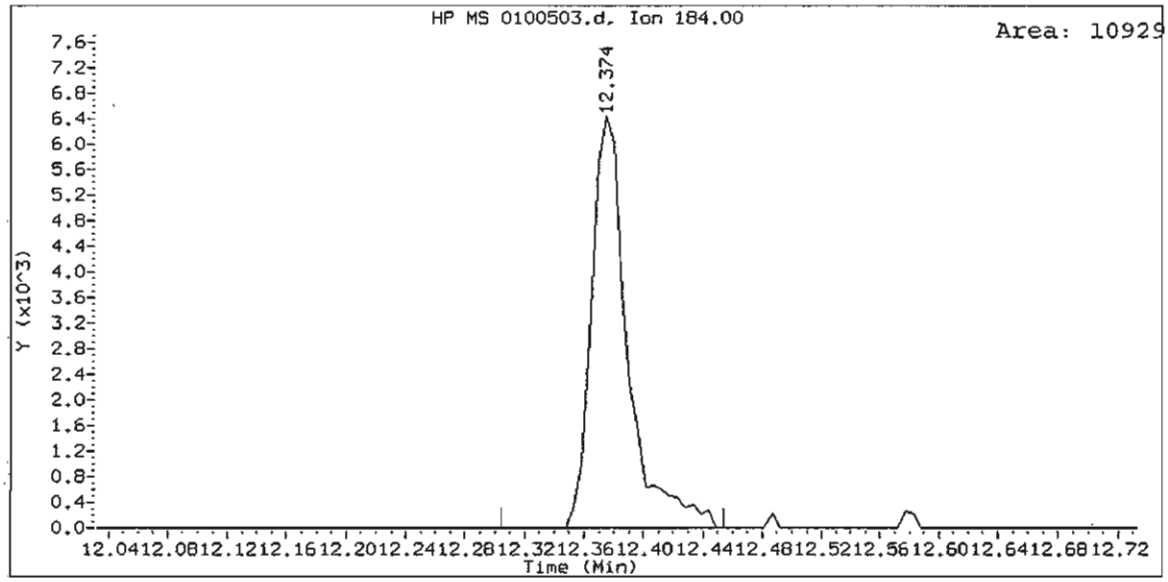
ABN 10, /chem1/nt6.i/20070503.b/0100503.d
Benzoic acid Amount: 19.91

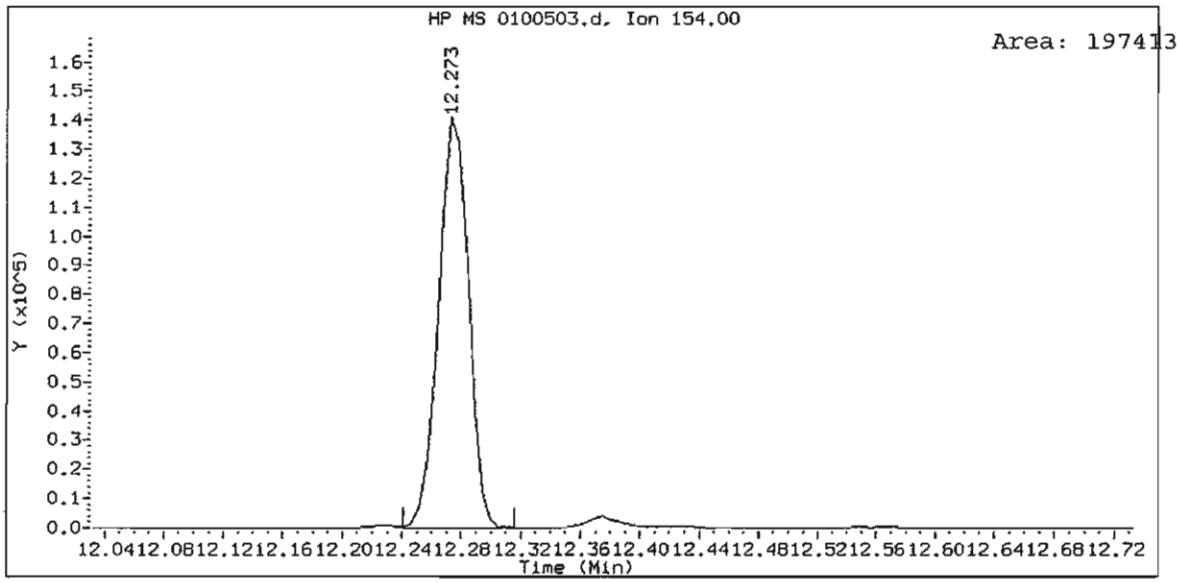


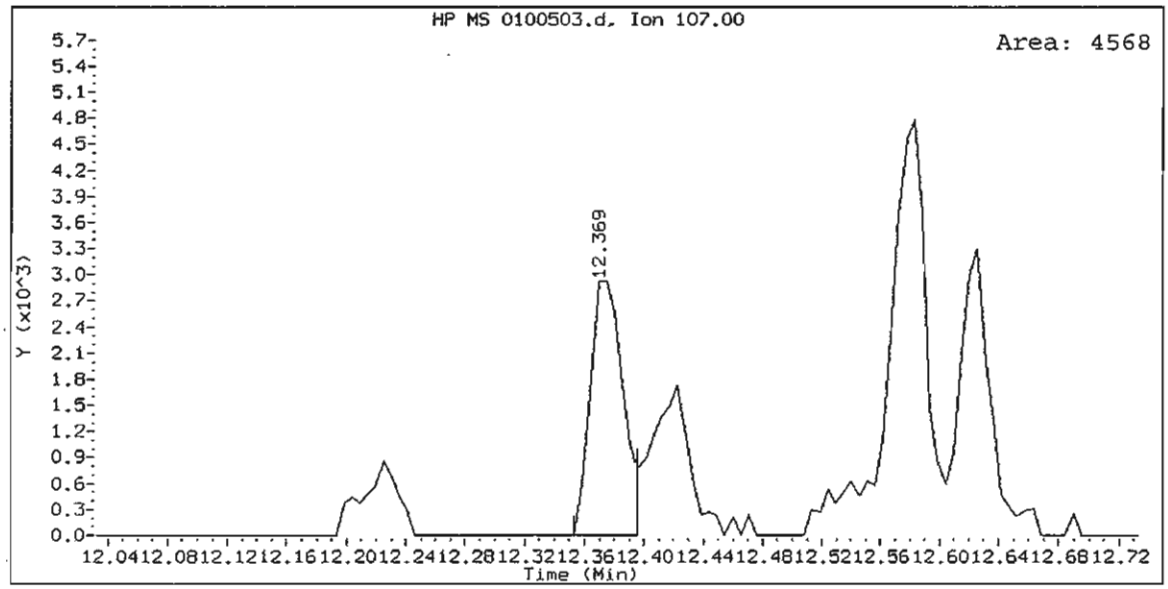




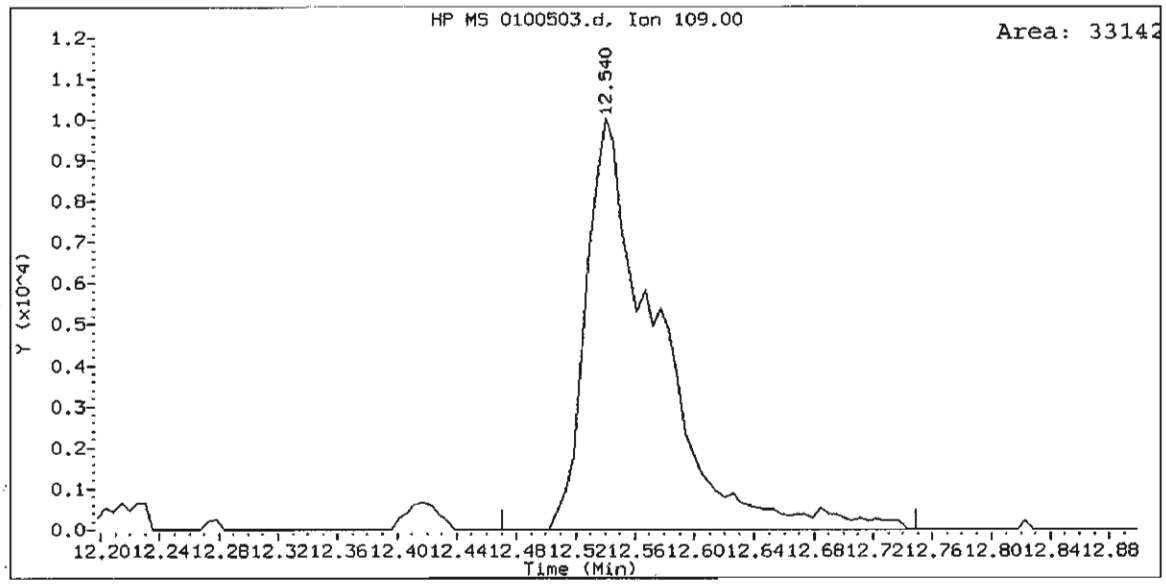
ABN 10, /chem1/nt6.i/20070503.b/0100503.d
2,4-Dinitrophenol Amount: 11.77

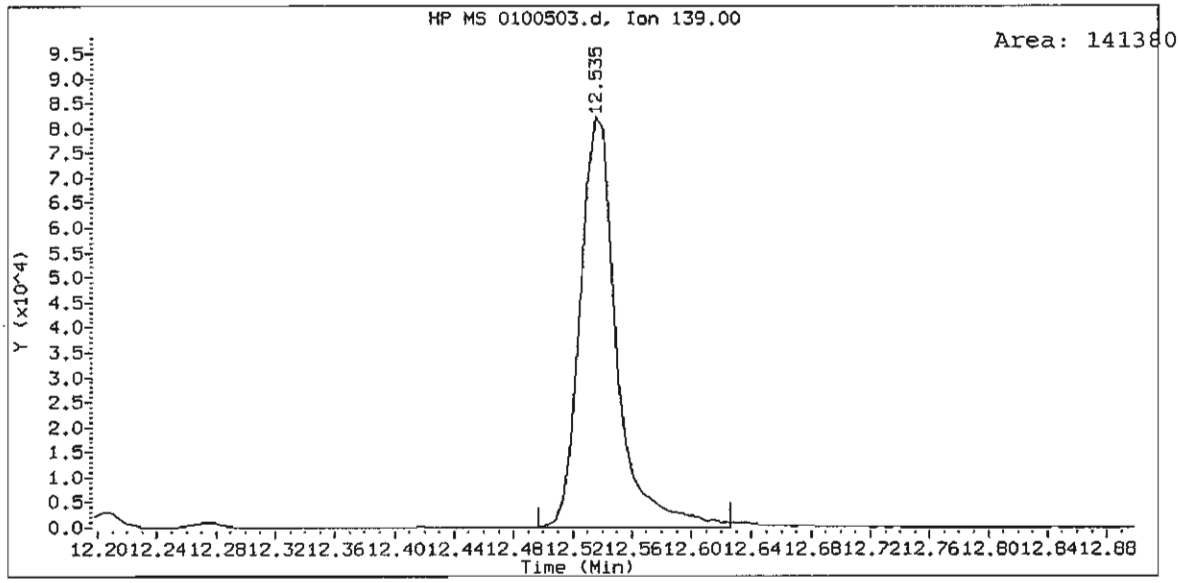


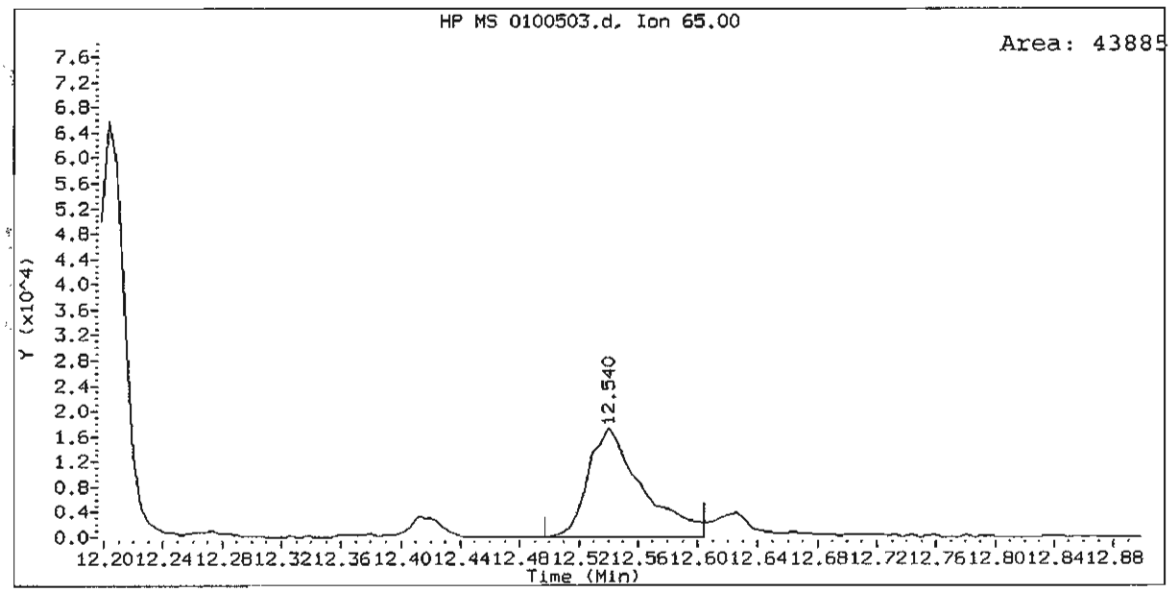




ABN 10, /chem1/nt6.i/20070503.b/0100503.d
4-Nitrophenol Amount: 10.89







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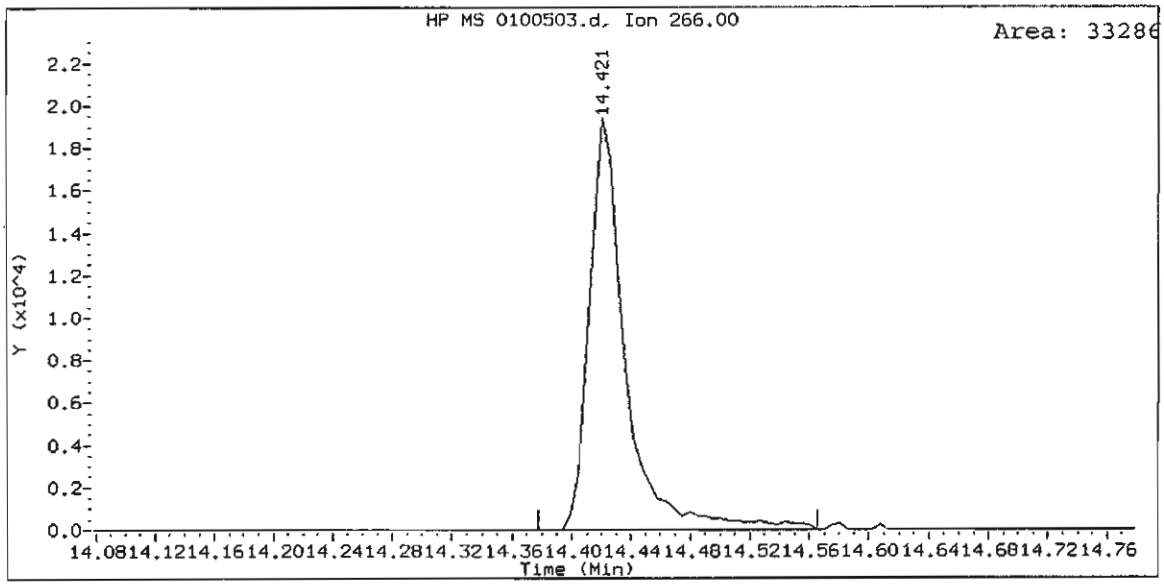
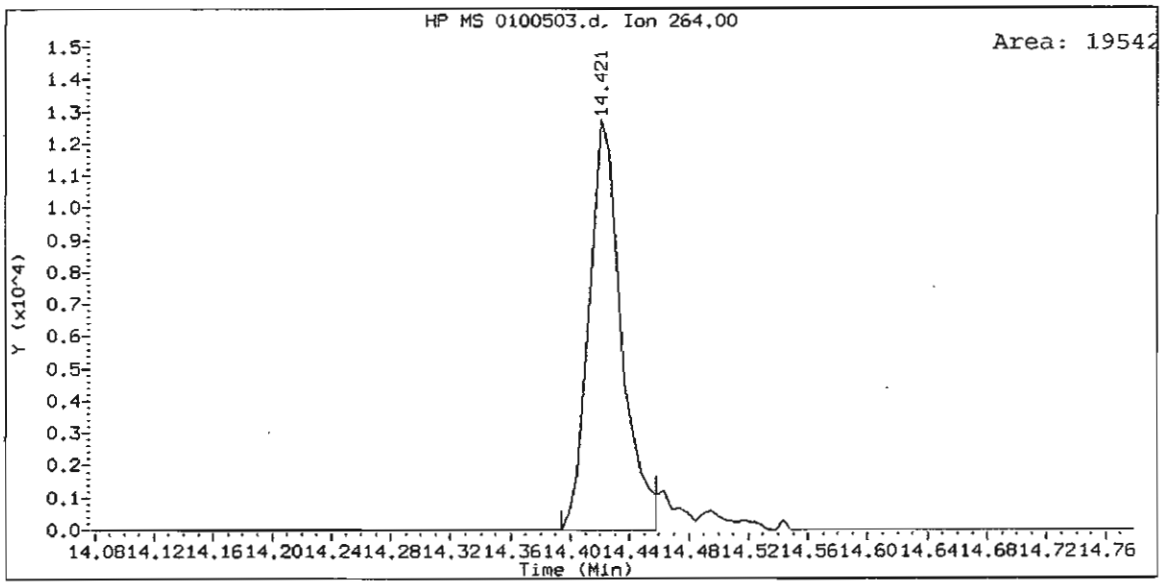
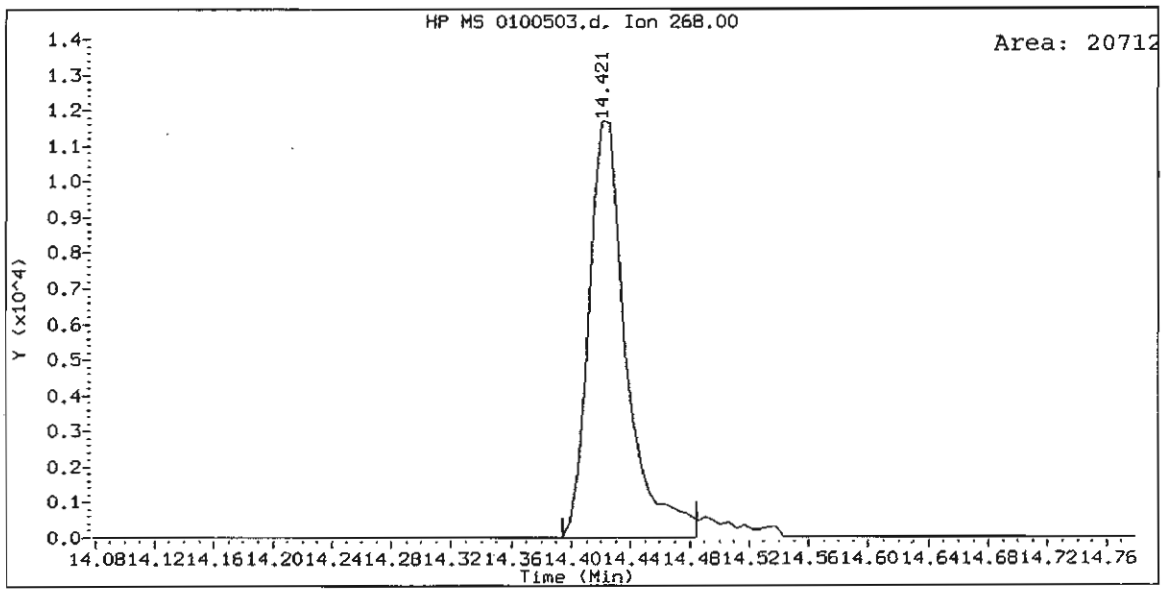
Pentachlorophenol Amount: 10.16







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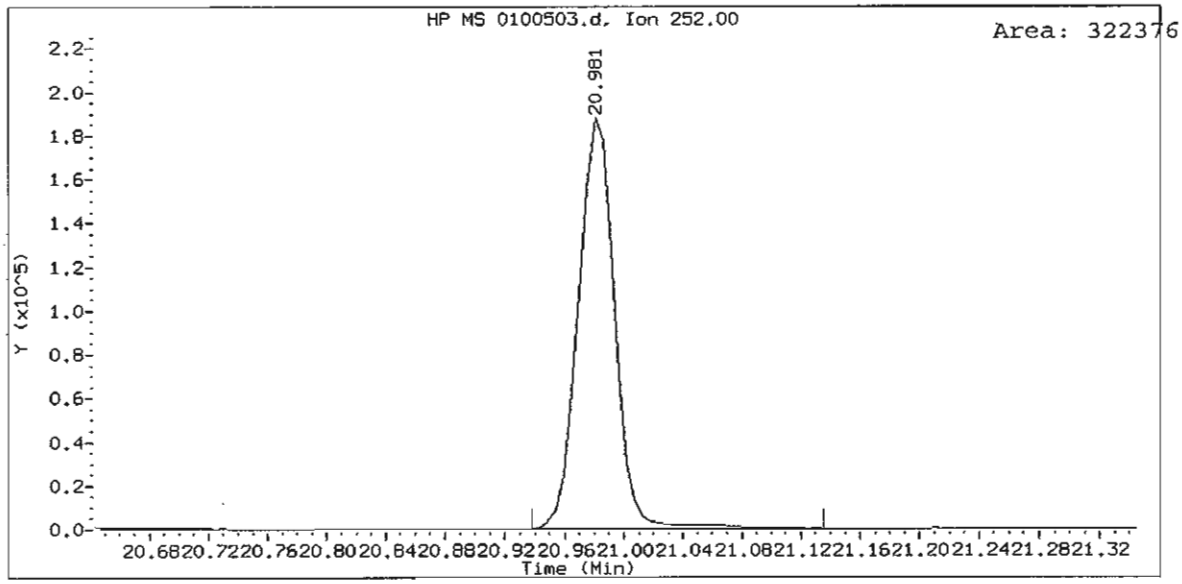
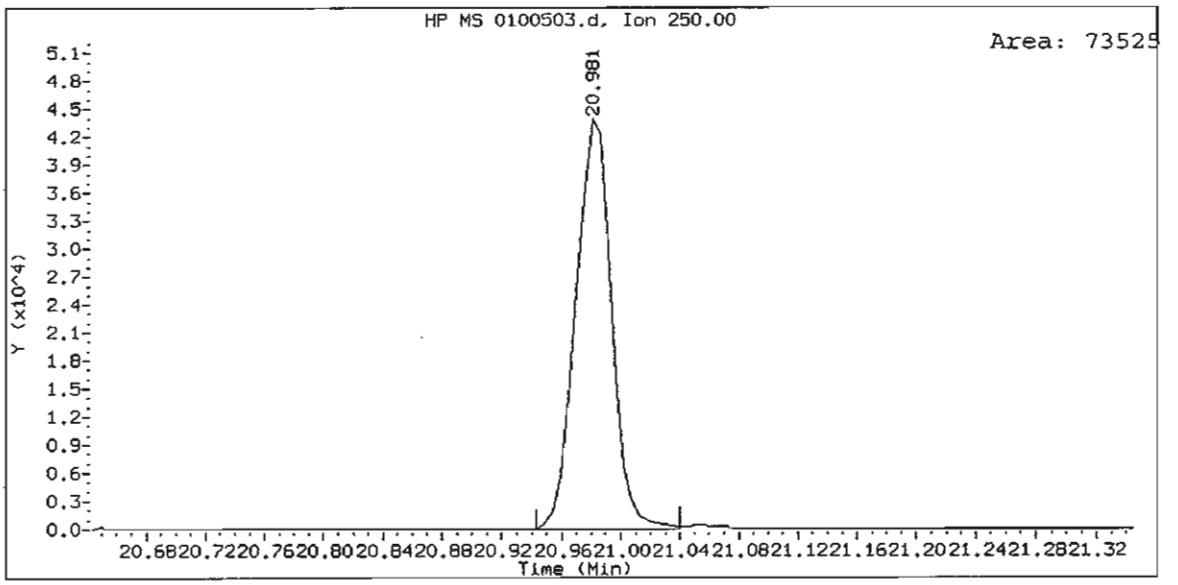
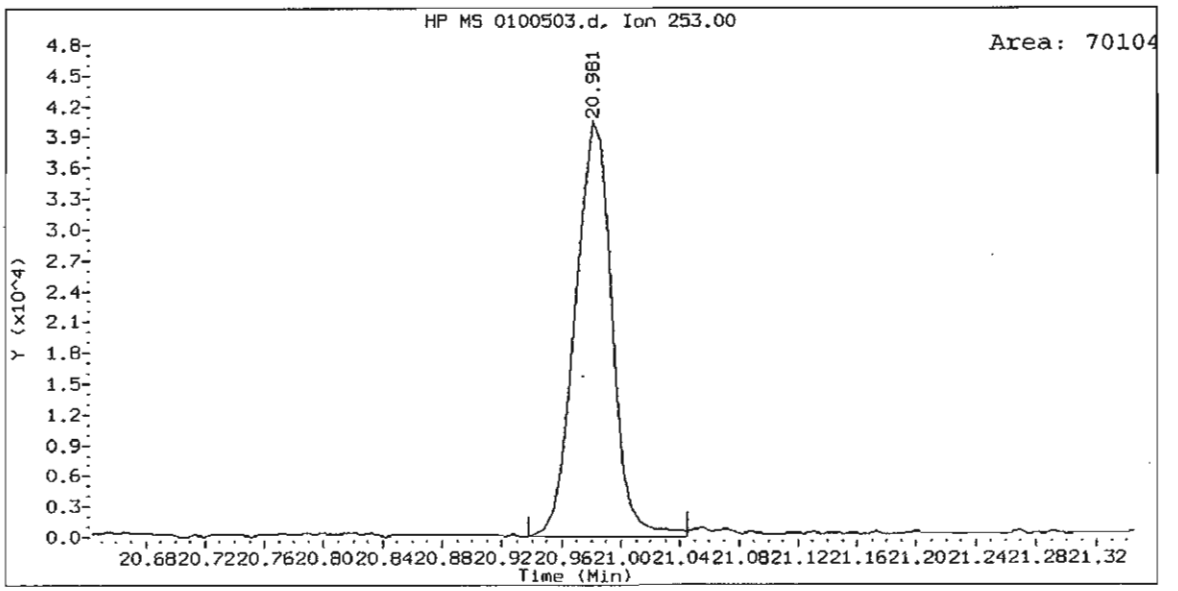
Benzo(a)pyrene Amount: 10.83







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0250503.d
Lab Smp Id: ABN 25
Inj Date : 03-MAY-2007 10:33
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 10:33 Cal File: 0250503.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.447	5.451	(0.741)	303999	25.0000	24.48
$ 2 Phenol-d5	99	6.937	6.942	(0.944)	357000	25.0000	24.51
3 Phenol	94	6.953	6.963	(0.946)	392553	25.0000	24.55
$ 5 2-Chlorophenol-d4	132	7.055	7.059	(0.960)	249587	25.0000	24.78
4 Bis(2-Chloroethyl)ether	93	7.033	7.038	(0.957)	306272	25.0000	23.85
6 2-Chlorophenol	128	7.076	7.081	(0.963)	281593	25.0000	24.91
7 1,3-Dichlorobenzene	146	7.290	7.294	(0.992)	281749	25.0000	24.72
* 8 1,4-Dichlorobenzene-d4	152	7.349	7.353	(1.000)	136565	20.0000	
9 1,4-Dichlorobenzene	146	7.375	7.380	(1.004)	279540	25.0000	24.31
$ 10 1,2-Dichlorobenzene-d4	152	7.642	7.647	(1.040)	152249	25.0000	24.72
12 1,2-Dichlorobenzene	146	7.664	7.668	(1.043)	265756	25.0000	24.52
11 Benzyl alcohol	108	7.632	7.636	(1.039)	196211	25.0000	24.62
14 2,2'-oxybis(1-Chloropropane)	45	7.894	7.893	(1.074)	471173	25.0000	24.46
13 2-Methylphenol	108	7.872	7.877	(1.071)	273254	25.0000	25.40
17 Hexachloroethane	117	8.150	8.149	(1.109)	123965	25.0000	24.73
16 N-Nitroso-di-n-propylamine	70	8.107	8.112	(1.103)	203113	25.0000	24.55
15 4-Methylphenol	108	8.102	8.106	(1.103)	270834	25.0000	25.26
$ 18 Nitrobenzene-d5	82	8.267	8.272	(0.876)	285246	25.0000	24.08
19 Nitrobenzene	77	8.294	8.299	(0.878)	304916	25.0000	24.68
20 Isophorone	82	8.673	8.678	(0.919)	566687	25.0000	24.79
21 2-Nitrophenol	139	8.807	8.812	(0.933)	124042	25.0000	24.61
22 2,4-Dimethylphenol	107	8.930	8.934	(0.946)	266852	25.0000	26.25
23 Bis(2-Chloroethoxy)methane	93	9.074	9.079	(0.961)	344928	25.0000	24.22
24 Benzoic acid	105	9.176	9.218	(0.979)	363062	50.0000	53.35 (M)
25 2,4-Dichlorophenol	162	9.192	9.191	(0.973)	185266	25.0000	25.36
26 1,2,4-Trichlorobenzene	180	9.320	9.319	(0.987)	211081	25.0000	24.76
* 27 Naphthalene-d8	136	9.373	9.372	(1.000)	497815	20.0000	(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
28 Naphthalene	128	9.405	9.405	(0.996)	710104	25.0000	24.08
29 4-Chloroaniline	127	9.550	9.554	(1.011)	323375	25.0000	24.81
30 Hexachlorobutadiene	225	9.731	9.730	(1.031)	106402	25.0000	25.01
31 4-Chloro-3-methylphenol	107	10.372	10.371	(1.098)	220820	25.0000	25.05
32 2-Methylnaphthalene	141	10.522	10.521	(1.114)	368797	25.0000	24.60
33 Hexachlorocyclopentadiene	237	10.906	10.906	(0.892)	91419	25.0000	26.85
34 2,4,6-Trichlorophenol	196	11.040	11.039	(0.903)	127233	25.0000	25.58
35 2,4,5-Trichlorophenol	196	11.093	11.093	(0.907)	137847	25.0000	26.00
$ 36 2-Fluorobiphenyl	172	11.174	11.173	(0.914)	403170	25.0000	24.37
37 2-Chloronaphthalene	162	11.296	11.301	(0.924)	386475	25.0000	24.34
38 2-Nitroaniline	65	11.531	11.536	(0.943)	146861	25.0000	24.64
39 Dimethylphthalate	163	11.916	11.921	(0.975)	392669	25.0000	24.92
40 Acenaphthylene	152	11.975	11.974	(0.979)	633909	25.0000	24.52
41 2,6-Dinitrotoluene	165	12.002	12.006	(0.982)	81830	25.0000	24.87
* 42 Acenaphthene-d10	164	12.226	12.231	(1.000)	245165	20.0000	
43 3-Nitroaniline	138	12.210	12.214	(0.999)	110846	25.0000	24.59
44 Acenaphthene	153	12.279	12.279	(1.004)	373084	25.0000	24.12
45 2,4-Dinitrophenol	184	12.376	12.380	(1.012)	42498	50.0000	54.40
46 Dibenzofuran	168	12.541	12.546	(1.026)	496704	25.0000	23.82
47 4-Nitrophenol	109	12.541	12.546	(1.026)	67229	25.0000	26.25 (M)
48 2,4-Dinitrotoluene	165	12.627	12.631	(1.033)	105543	25.0000	25.21
50 Diethylphthalate	149	13.075	13.080	(1.069)	385478	25.0000	24.55
49 Fluorene	166	13.097	13.096	(1.071)	398747	25.0000	24.26
51 4-Chlorophenyl-phenylether	204	13.129	13.128	(1.074)	190306	25.0000	24.57
52 4-Nitroaniline	138	13.209	13.213	(1.080)	119034	25.0000	25.94 (M)
53 4,6-Dinitro-2-methylphenol	198	13.284	13.288	(0.910)	91680	50.0000	52.79
54 N-Nitrosodiphenylamine	169	13.337	13.336	(0.914)	282140	25.0000	24.23
$ 55 2,4,6-Tribromophenol	330	13.519	13.523	(1.106)	64058	25.0000	25.66
56 4-Bromophenyl-phenylether	248	13.909	13.908	(0.953)	107212	25.0000	23.87
57 Hexachlorobenzene	284	14.122	14.127	(0.967)	114324	25.0000	24.10
58 Pentachlorophenol	266	14.427	14.426	(0.988)	74514	25.0000	26.44 (M)
* 59 Phenanthrene-d10	188	14.598	14.597	(1.000)	363763	20.0000	
60 Phenanthrene	178	14.635	14.640	(1.003)	578027	25.0000	23.81
61 Anthracene	178	14.710	14.709	(1.008)	605117	25.0000	24.12
62 Carbazole	167	14.999	14.998	(1.027)	526334	25.0000	24.38
63 Di-n-butylphthalate	149	15.736	15.735	(1.078)	661339	25.0000	24.84
64 Fluoranthene	202	16.574	16.574	(1.135)	563111	25.0000	24.45
65 Pyrene	202	16.922	16.926	(0.895)	575551	25.0000	24.26
$ 66 Terphenyl-d14	244	17.253	17.257	(0.912)	371003	25.0000	24.69
67 Butylbenzylphthalate	149	18.145	18.150	(0.959)	285846	25.0000	25.62
68 Benzo(a)anthracene	228	18.888	18.887	(0.999)	531373	25.0000	24.88
* 69 Chrysene-d12	240	18.914	18.914	(1.000)	285968	20.0000	
70 3,3'-Dichlorobenzidine	252	18.909	18.908	(1.000)	207132	25.0000	25.20
71 Chrysene	228	18.952	18.956	(1.002)	533874	25.0000	24.71
72 bis(2-Ethylhexyl)phthalate	149	19.155	19.154	(0.954)	401312	25.0000	25.09
* 134 Di-n-octylphthalate-d4	153	20.084	20.083	(1.000)	466956	20.0000	
73 Di-n-octylphthalate	149	20.095	20.099	(1.001)	687426	25.0000	24.78

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	20.544	20.548	(0.975)	654967	25.0000	23.62
75 Benzo(k)fluoranthene	252	20.576	20.580	(0.977)	663038	25.0000	24.89
76 Benzo(a)pyrene	252	20.987	20.992	(0.996)	665858	25.0000	23.99
* 77 Perylene-d12	264	21.067	21.066	(1.000)	427729	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.510	22.519	(1.068)	813925	25.0000	24.80
79 Dibenzo(a,h)anthracene	278	22.542	22.546	(1.070)	680475	25.0000	25.03
80 Benzo(g,h,i)perylene	276	22.900	22.909	(1.087)	737821	25.0000	24.54
90 N-Nitrosodimethylamine	74	3.011	3.031	(0.410)	204433	25.0000	23.79
103 Pyridine	79	2.989	2.999	(0.407)	357325	25.0000	23.93
91 Aniline	93	6.916	6.920	(0.941)	497146	25.0000	24.34
105 1-methylnaphthalene	141	10.693	10.692	(1.132)	360164	25.0000	24.97
93 Benzidine	184	16.831	16.835	(0.890)	263864	25.0000	20.43
98 Retene	219	17.499	17.503	(0.925)	297635	25.0000	24.20
111 Azobenzene (1,2-DP-Hydrazine)	77	13.380	13.384	(1.094)	580471	25.0000	24.64
144 alpha-Terpineol	59	9.437	9.442	(1.007)	243001	25.0000	24.86 (M)
143 1,4-Dioxane	88	2.396	2.406	(0.326)	132720	25.0000	23.49
$ 137 d8-1,4-Dioxane	96	2.348	2.364	(0.320)	136413	25.0000	23.63
133 Butylatedhydroxytoluene	205	12.424	12.423	(1.016)	283013	25.0000	24.17 (M)
115 Tributyl Phosphate	99	13.455	13.459	(0.922)	631393	25.0000	24.25
116 Dibutyl Phenyl Phosphate	175	15.180	15.179	(1.040)	283009	25.0000	24.81
117 Butyl Diphenyl Phosphate	94	16.863	16.862	(0.892)	135195	25.0000	24.57
118 Triphenyl Phosphate	326	18.460	18.459	(0.976)	99651	25.0000	25.33
123 Acetophenone	105	8.038	8.042	(1.094)	367160	25.0000	24.13 (M)

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: nt6.i
Lab File ID: 0250503.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	136565	0.00
27 Naphthalene-d8	497815	248908	995630	497815	0.00
42 Acenaphthene-d10	245165	122582	490330	245165	0.00
59 Phenanthrene-d10	363763	181882	727526	363763	0.00
69 Chrysene-d12	285968	142984	571936	285968	0.00
134 Di-n-octylphthala	466956	233478	933912	466956	0.00
77 Perylene-d12	427729	213864	855458	427729	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.00
27 Naphthalene-d8	9.37	8.87	9.87	9.37	0.00
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.00
59 Phenanthrene-d10	14.60	14.10	15.10	14.60	0.00
69 Chrysene-d12	18.91	18.41	19.41	18.91	0.00
134 Di-n-octylphthala	20.08	19.58	20.58	20.08	0.00
77 Perylene-d12	21.07	20.57	21.57	21.07	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/20070503.b/0250503.d

Date : 03-MAY-2007 10:33

Client ID:

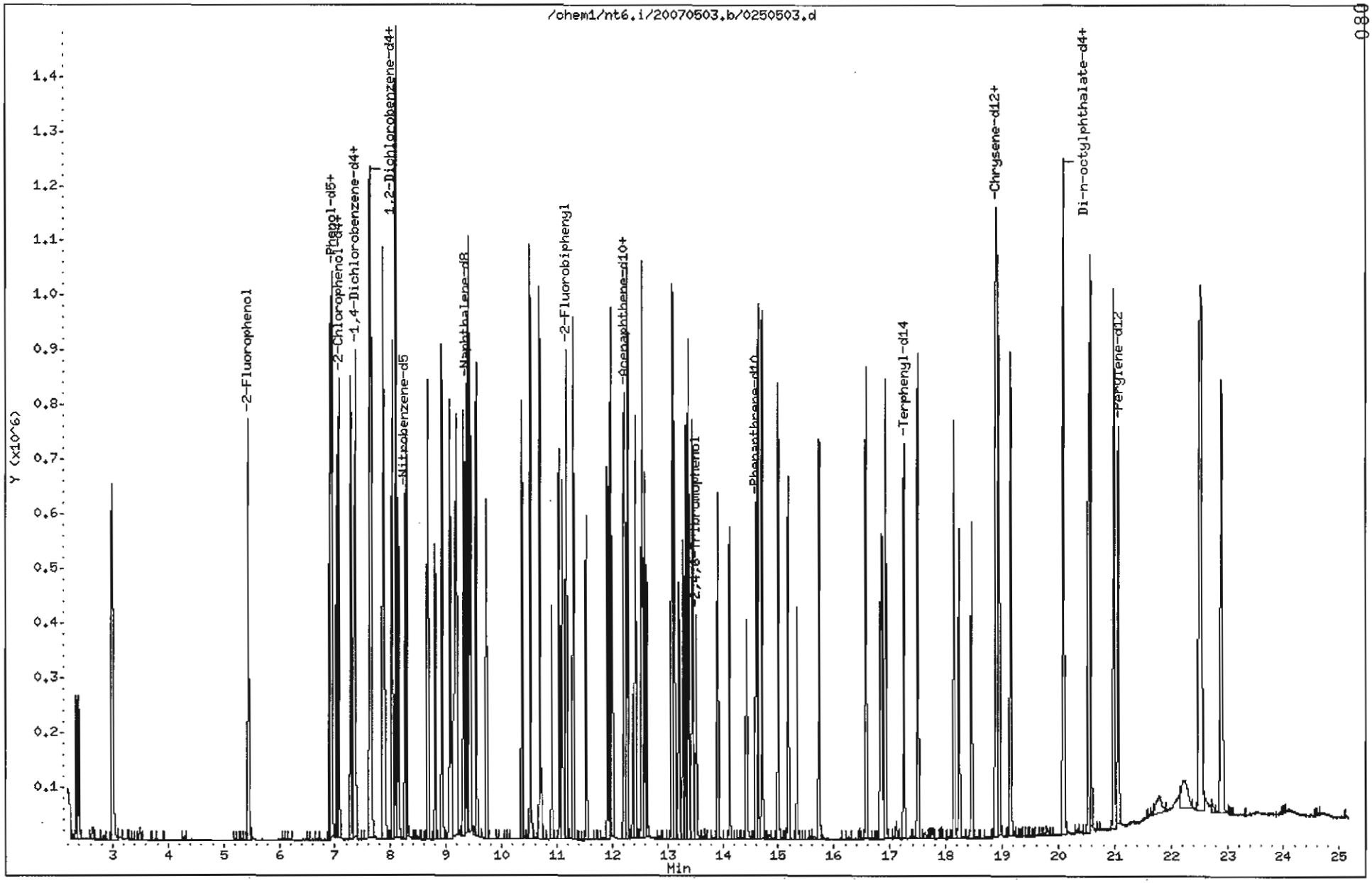
Sample Info: ABN 25

Column phase: ZB-5

Instrument: nt6.i

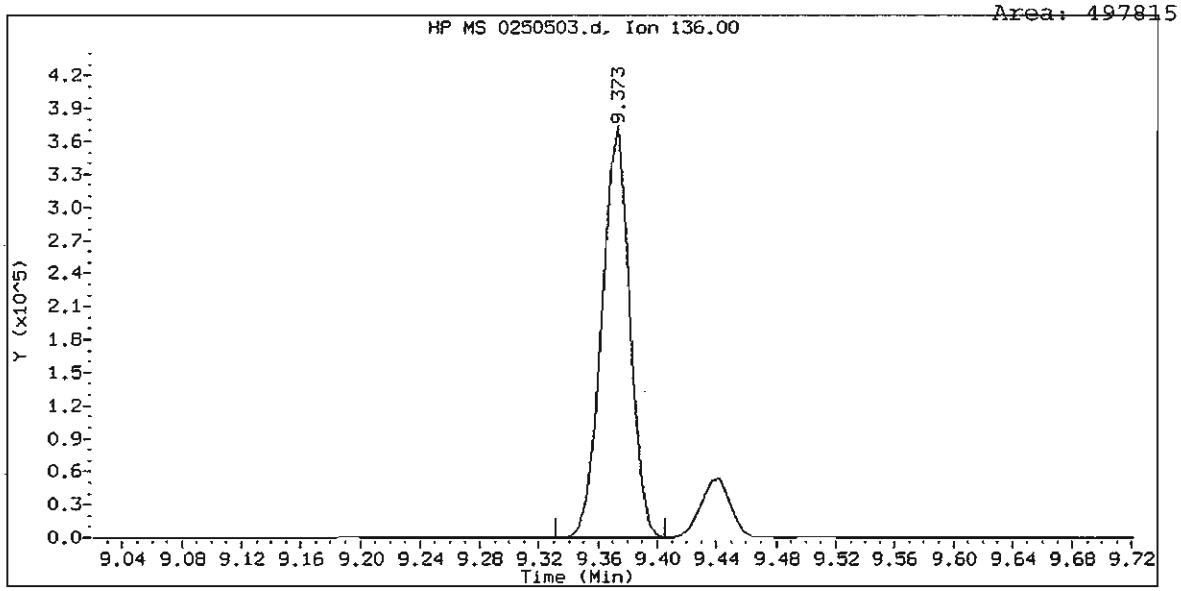
Operator: LJR/VTS

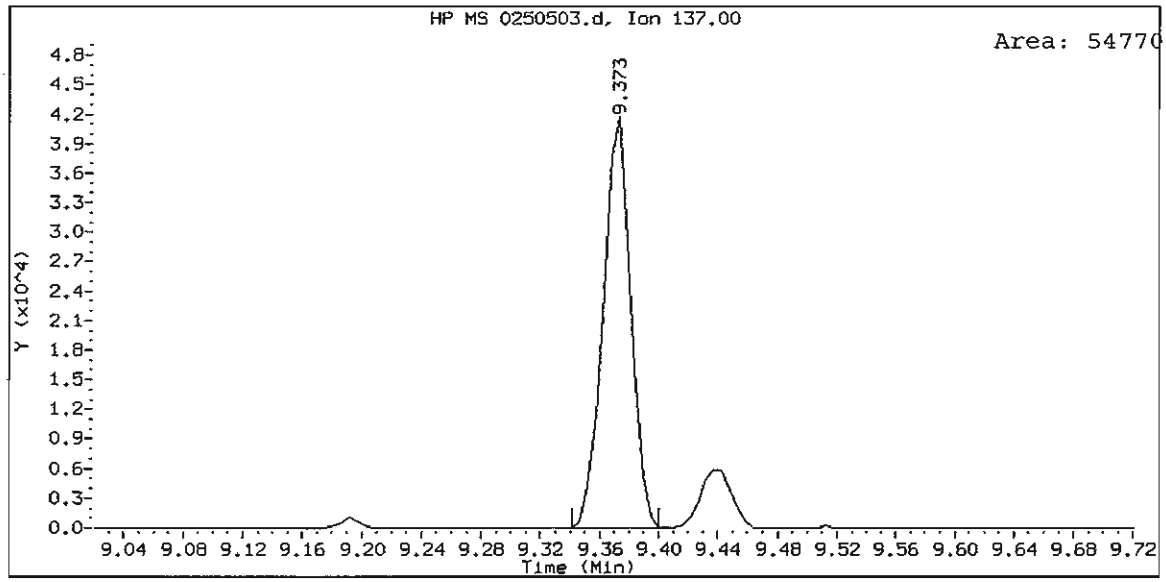
Column diameter: 0.32

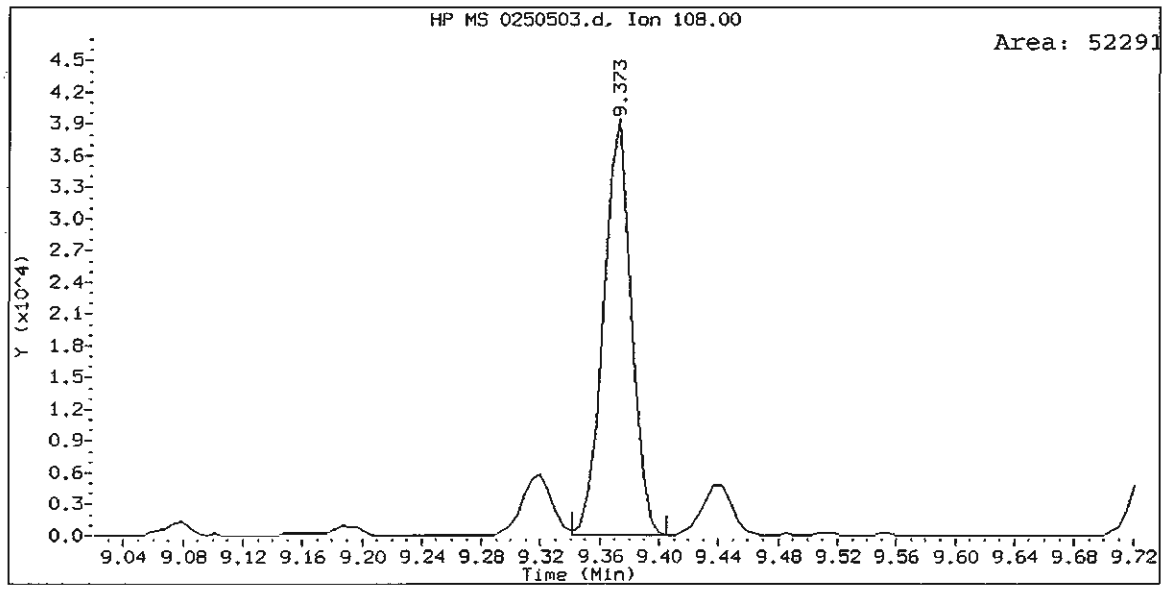


0807

ABN 25, /chem1/nt6.i/20070503.b/0250503.d
Naphthalene-d8 Amount: 20.00







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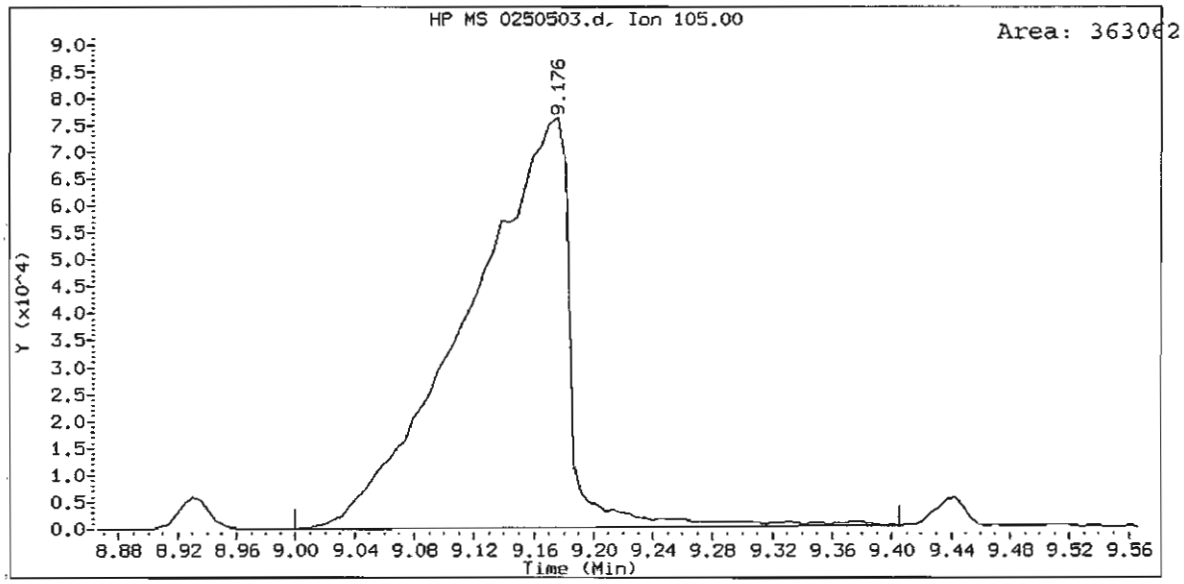
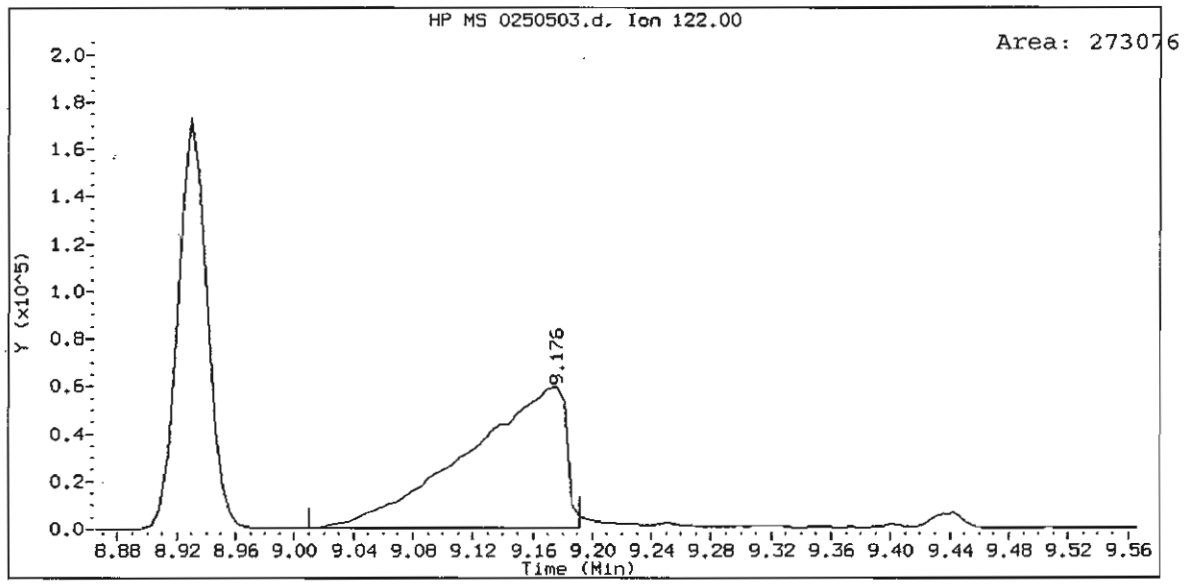
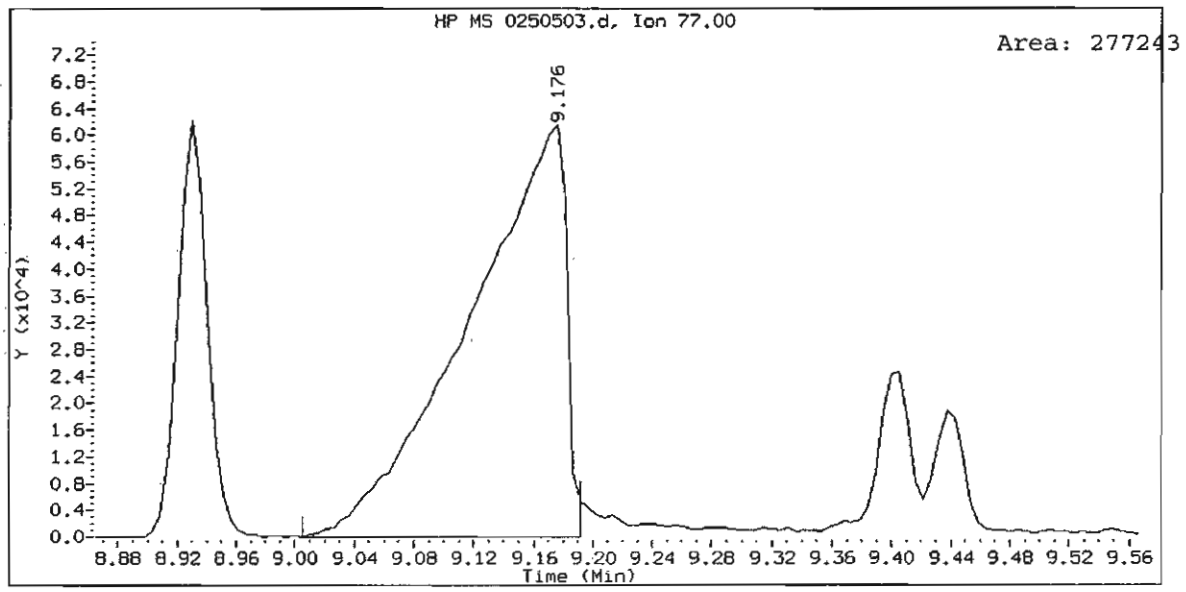
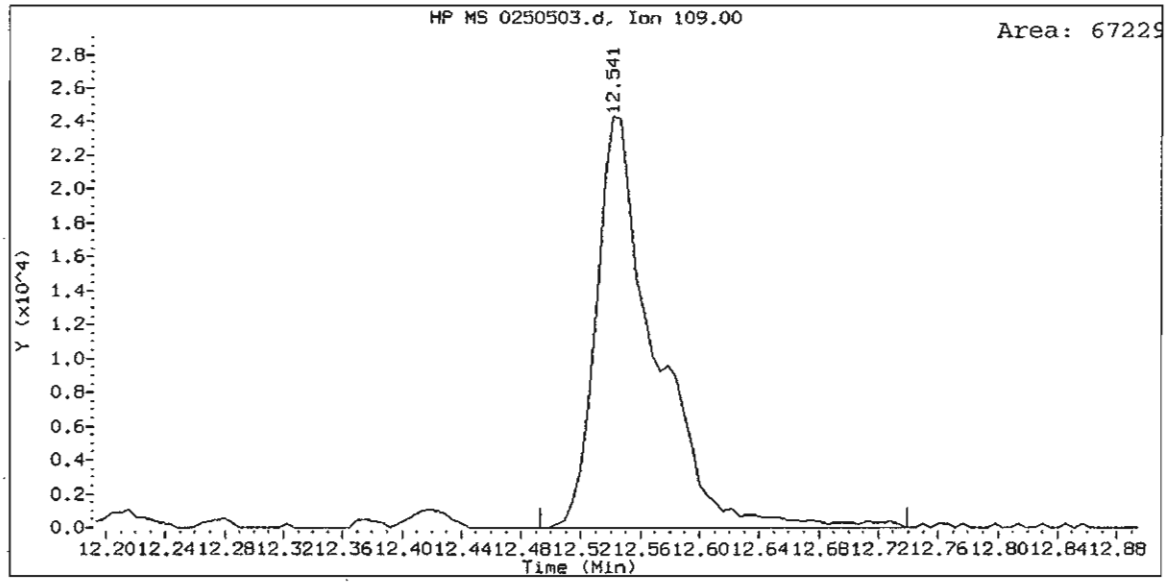
Benzoic acid Amount: 53.35

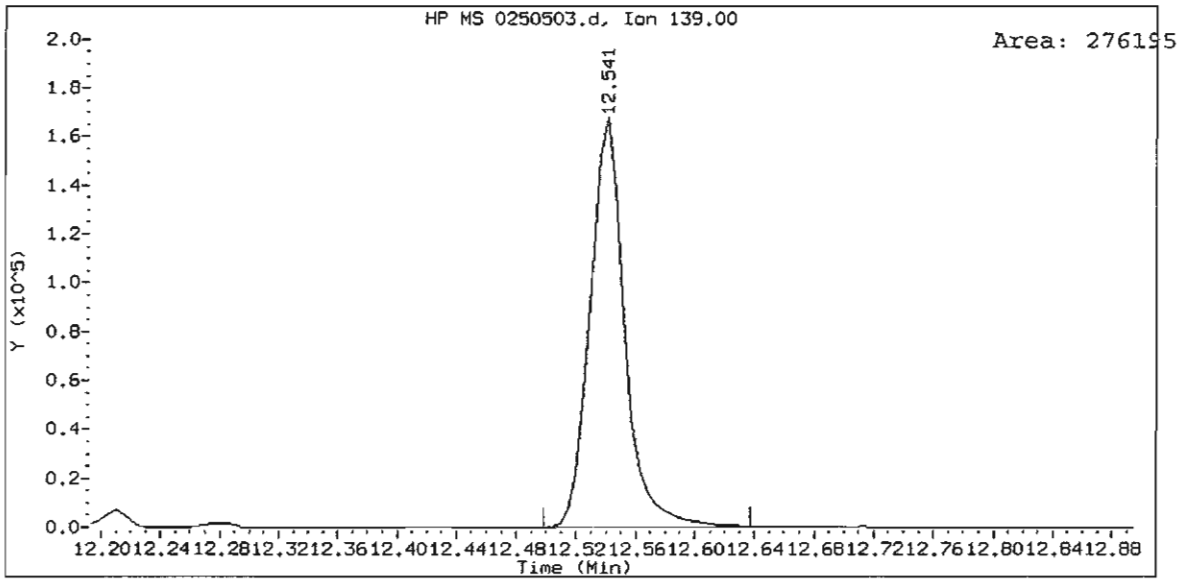


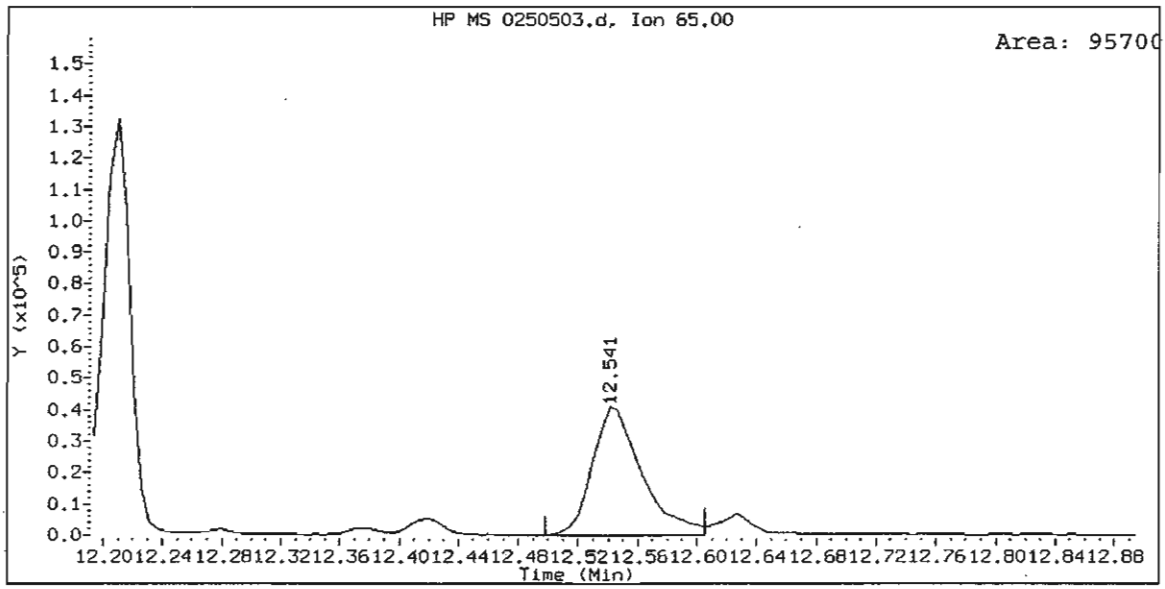




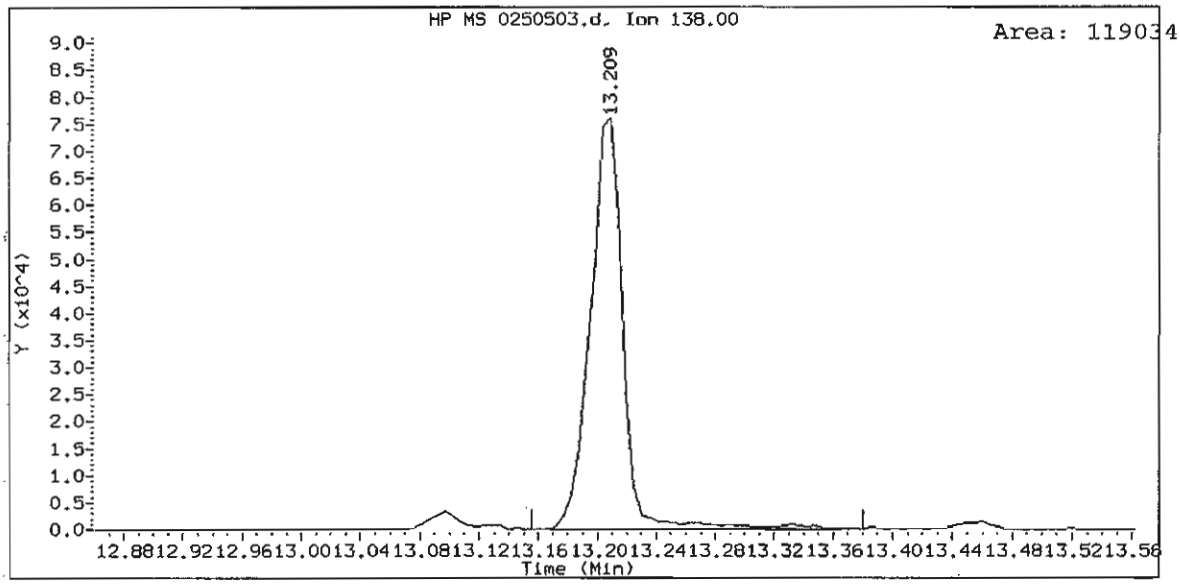
ABN 25, /chem1/nt6.i/20070503.b/0250503.d
4-Nitrophenol Amount: 26.25

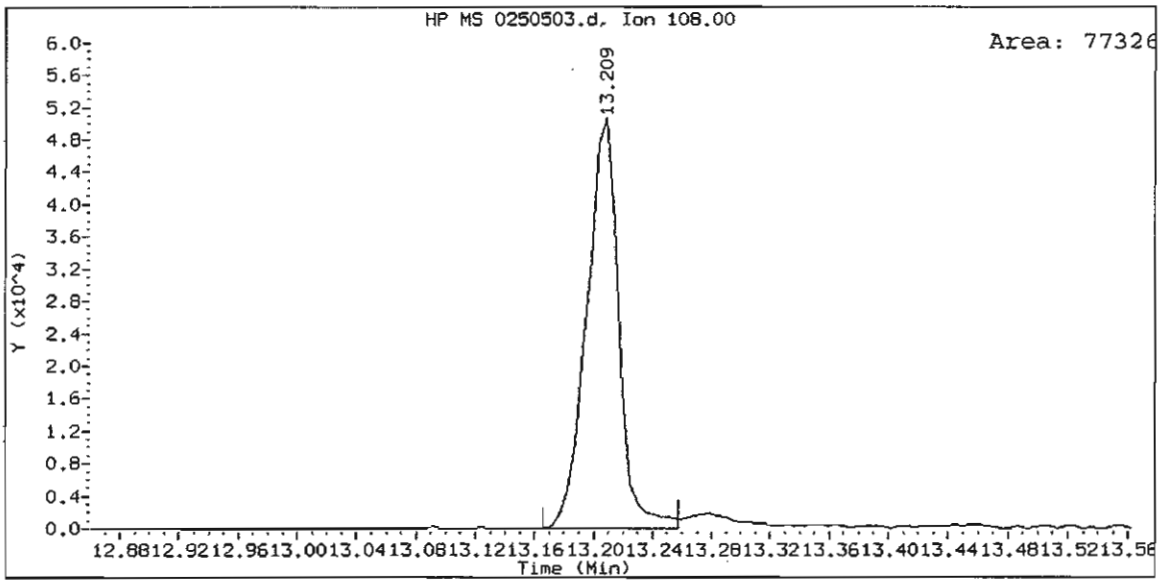


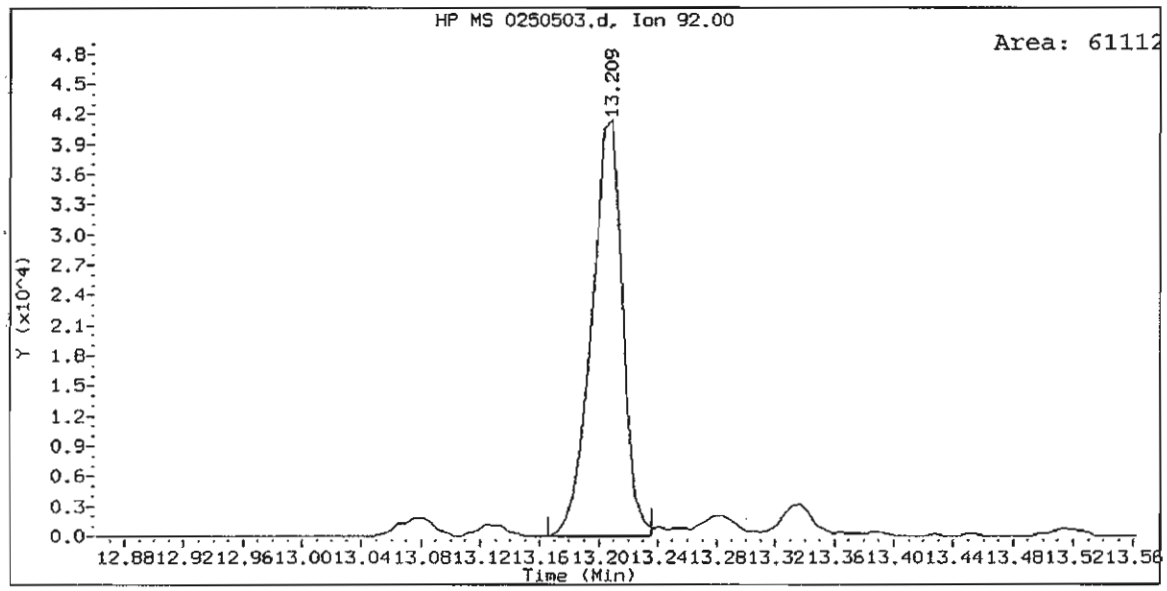




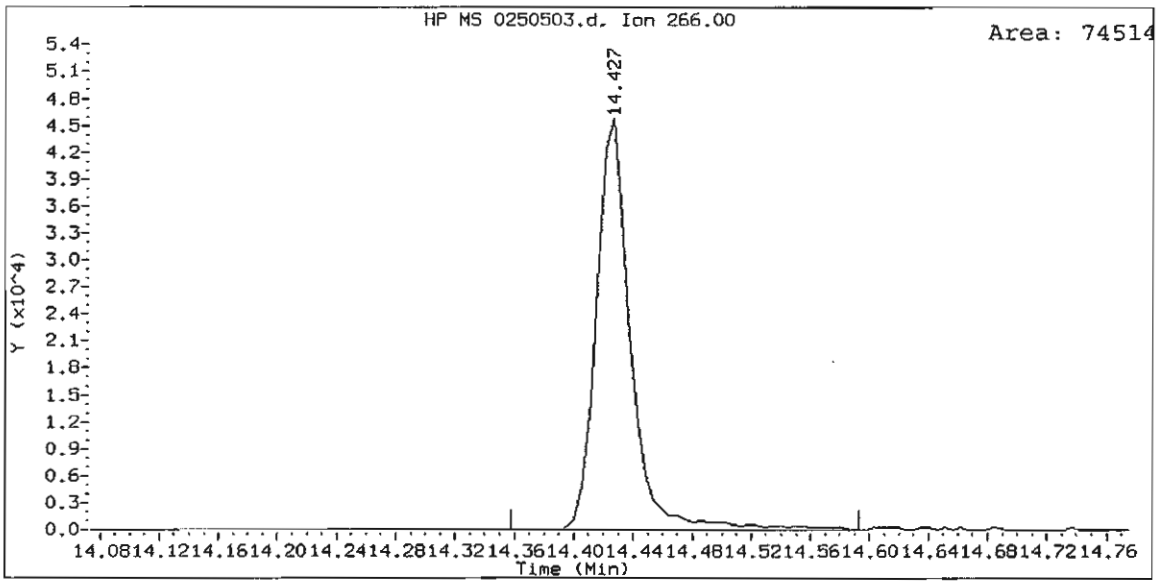
ABN 25, /chem1/nt6.i/20070503.b/0250503.d
4-Nitroaniline Amount: 25.94

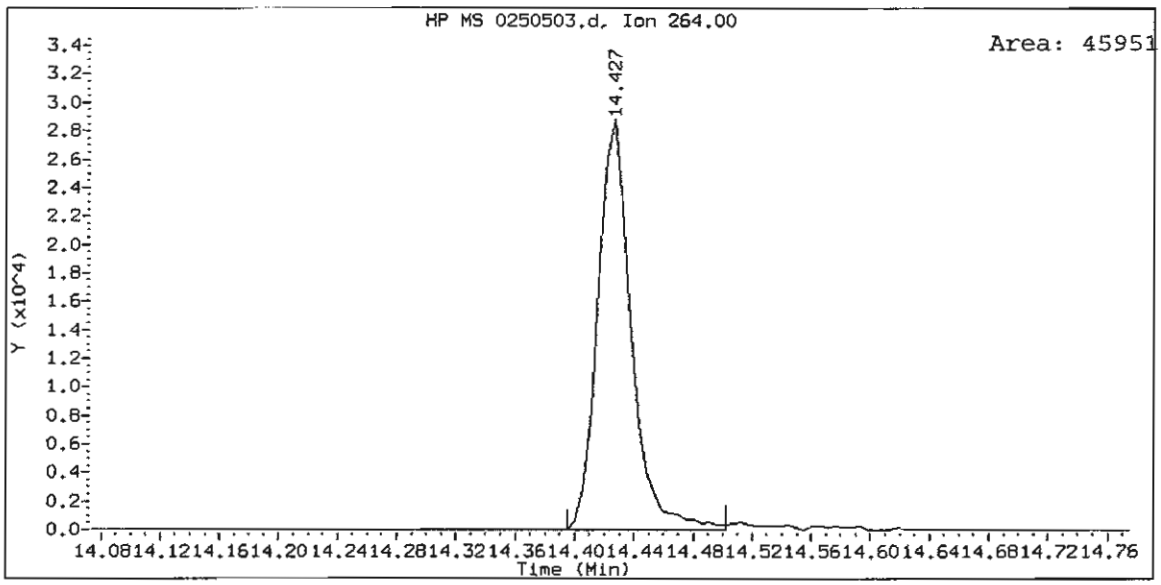


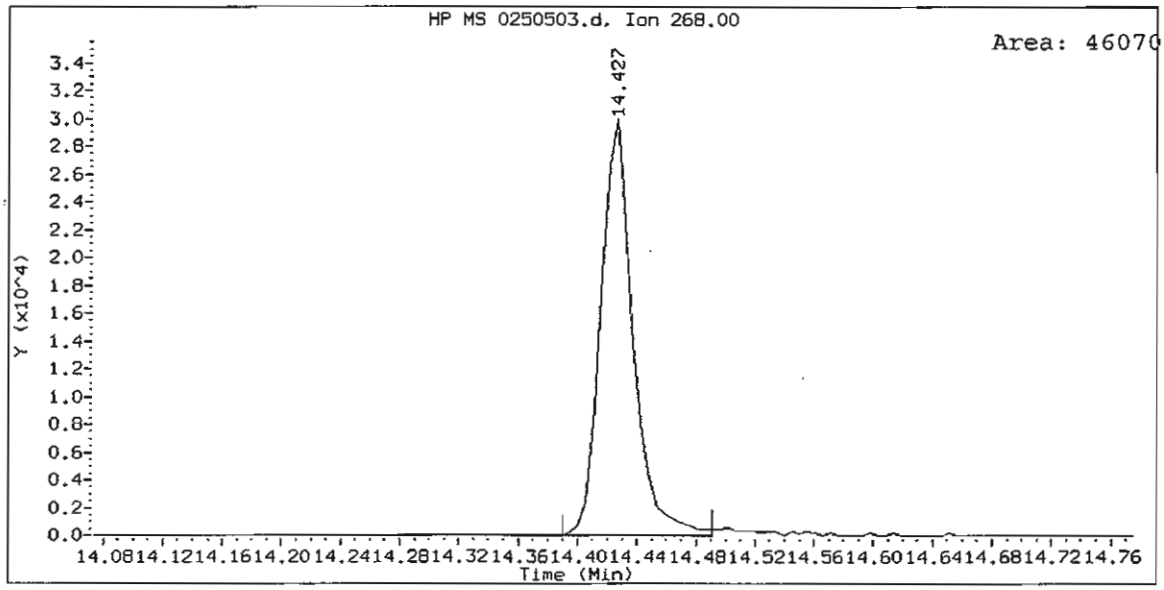




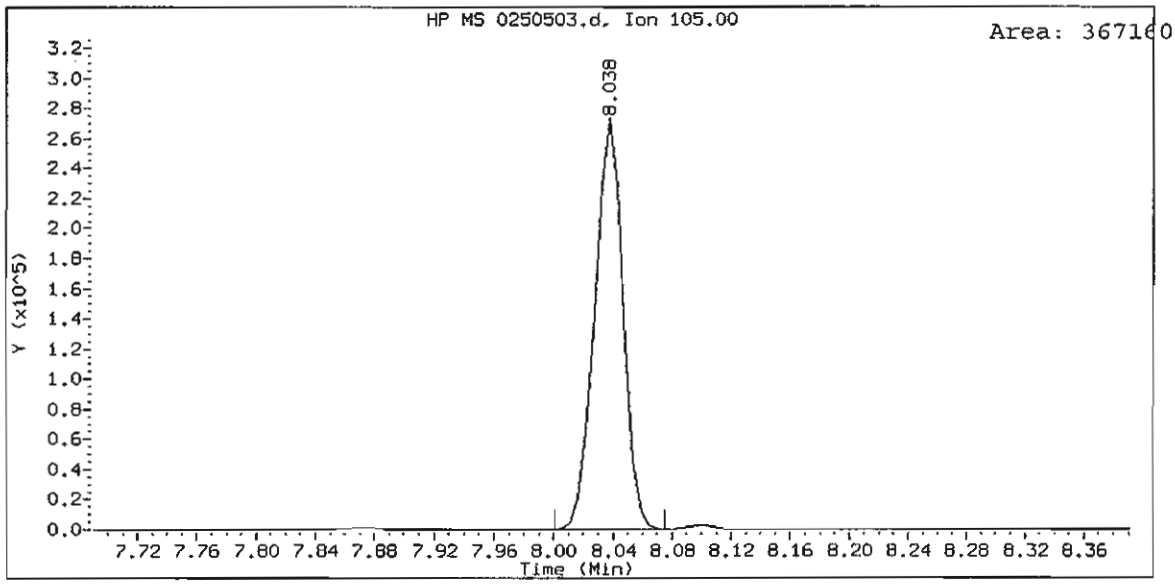
ABN 25, /chem1/nt6.i/20070503.b/0250503.d
Pentachlorophenol Amount: 26.44

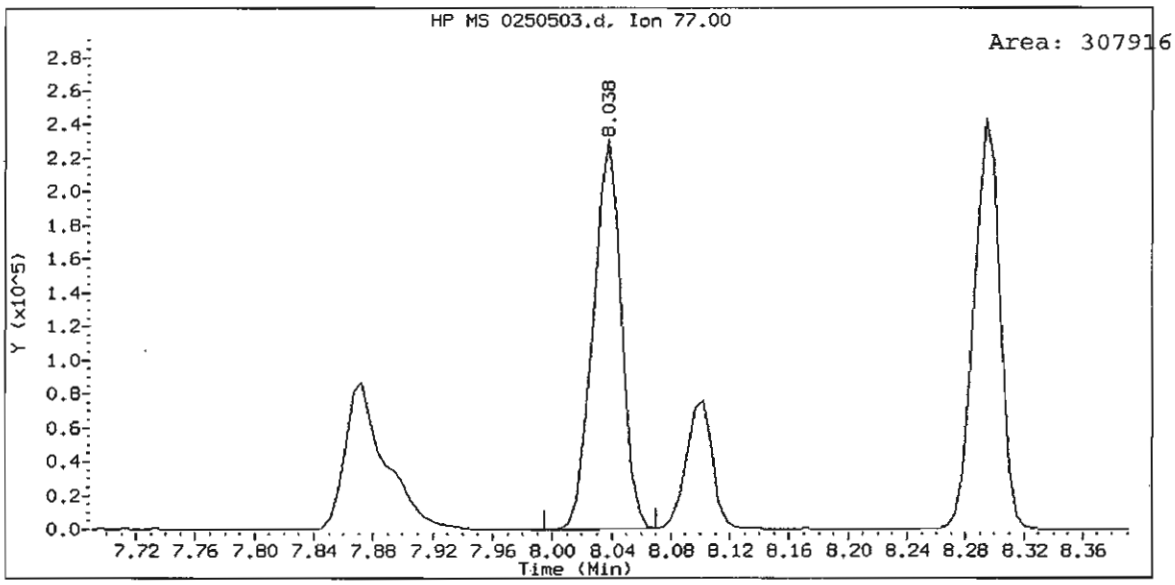


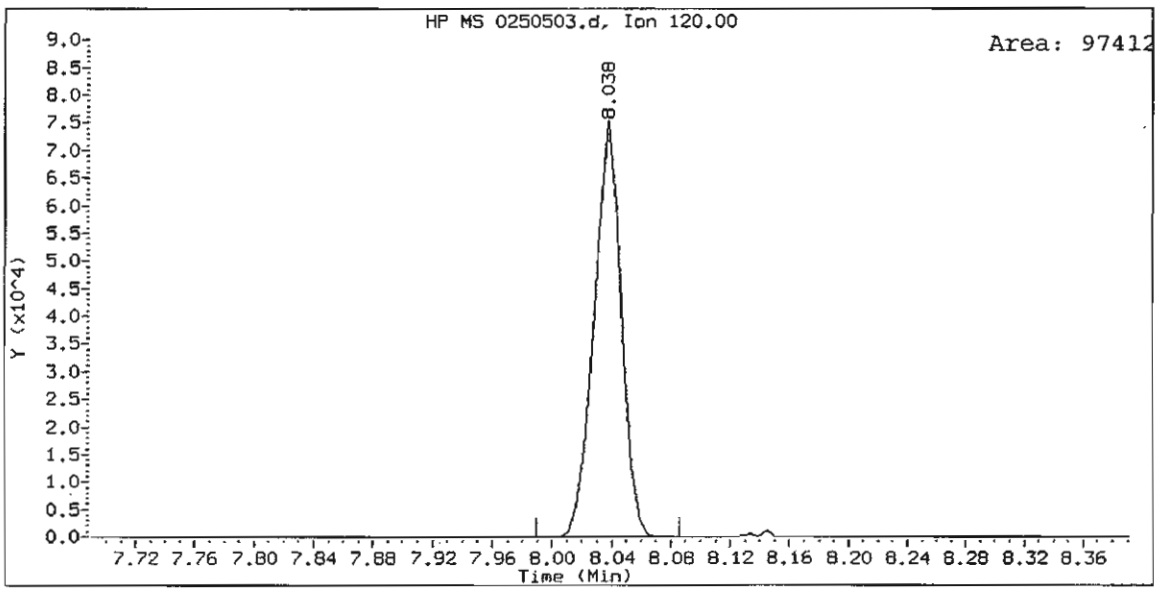




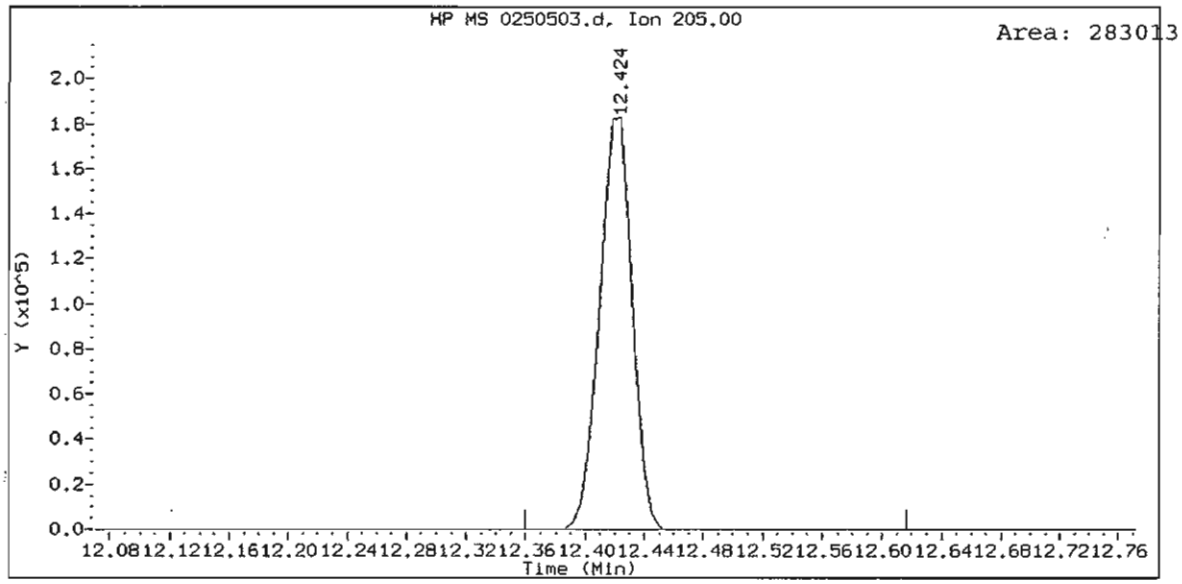
ABN 25, /chem1/nt6.i/20070503.b/0250503.d
Acetophenone Amount: 24.13

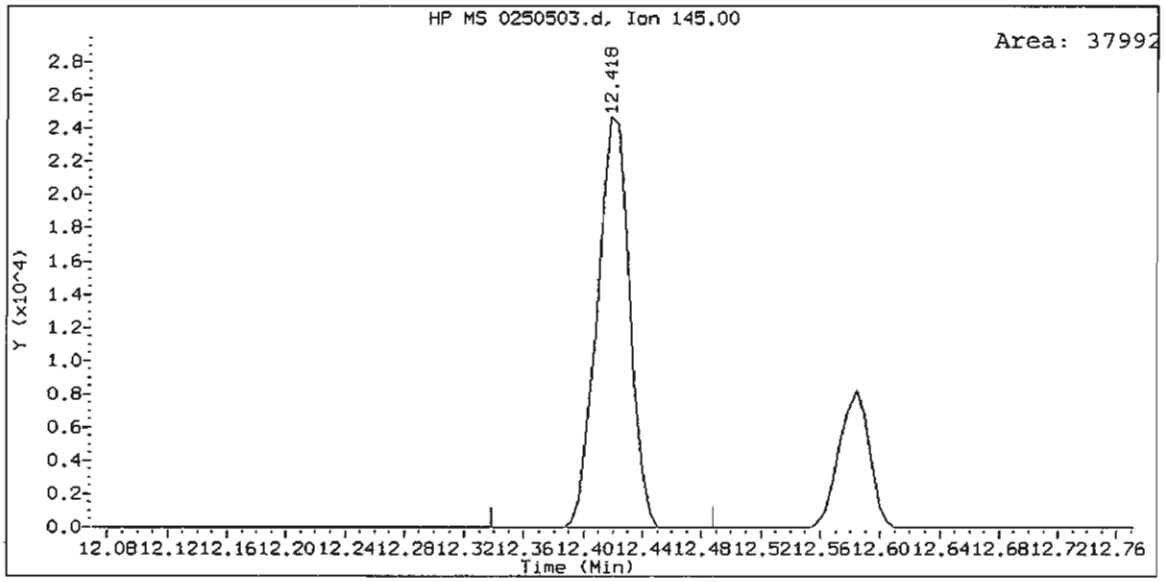


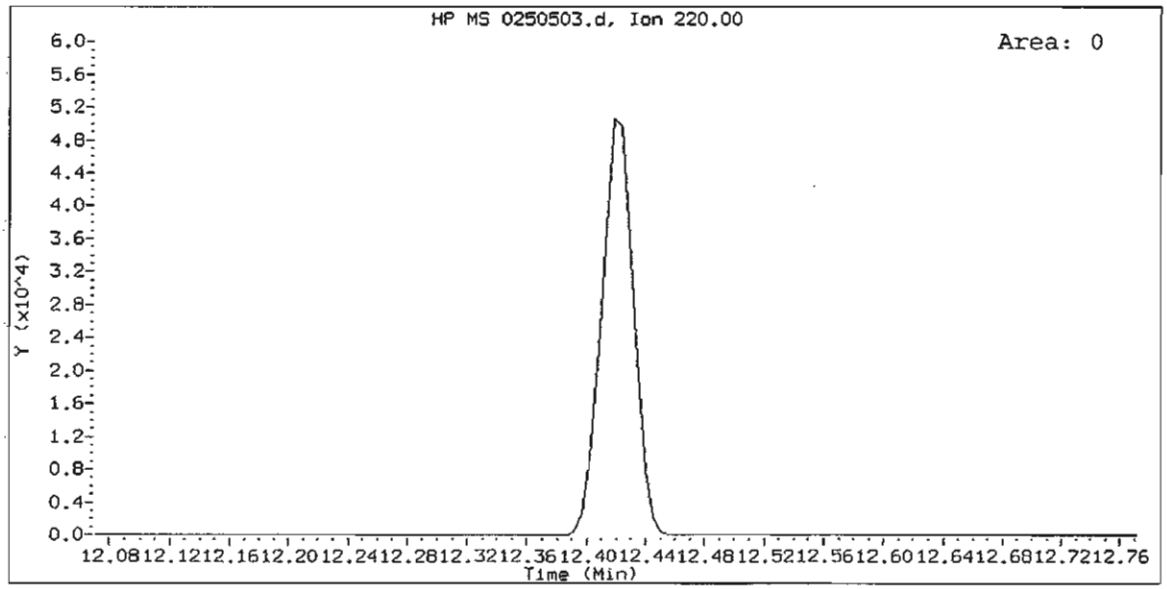




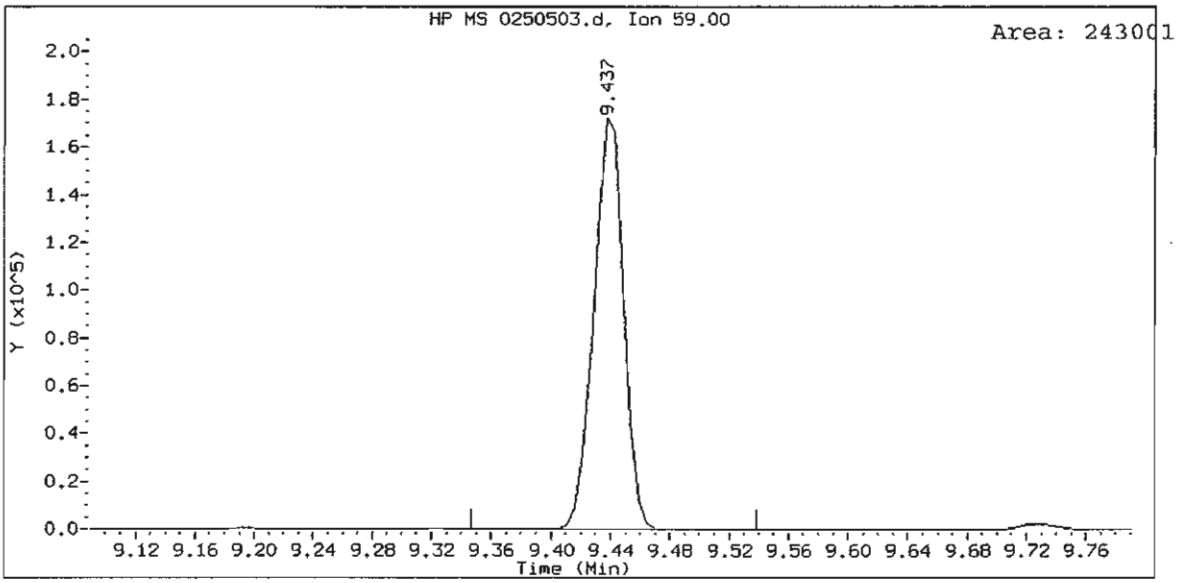
ABN 25, /chem1/nt6.i/20070503.b/0250503.d
Butylatedhydroxytoluene Amount: 24.17

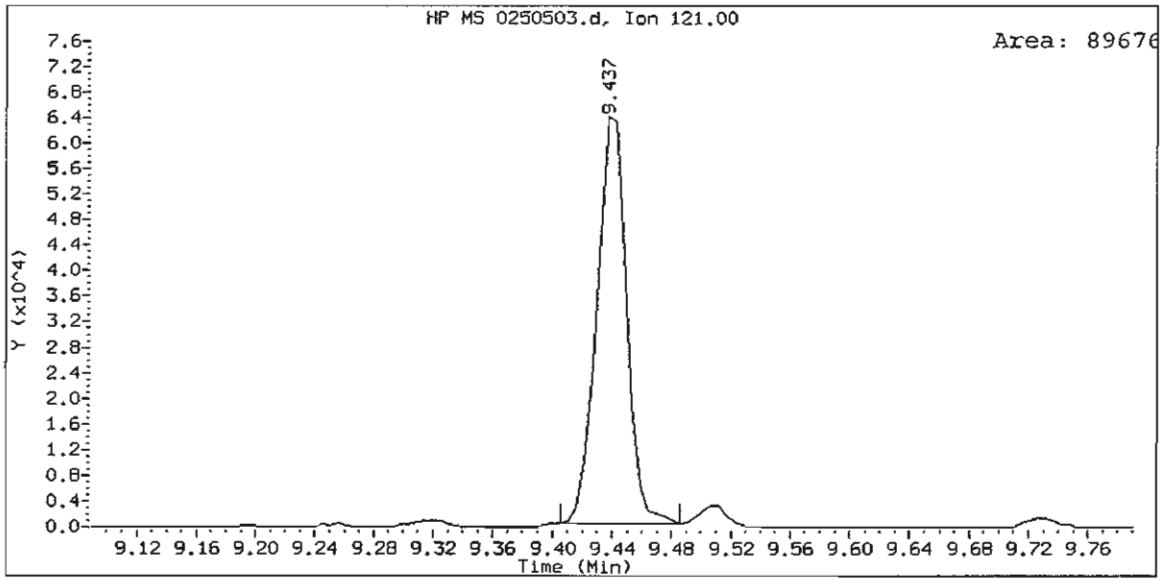


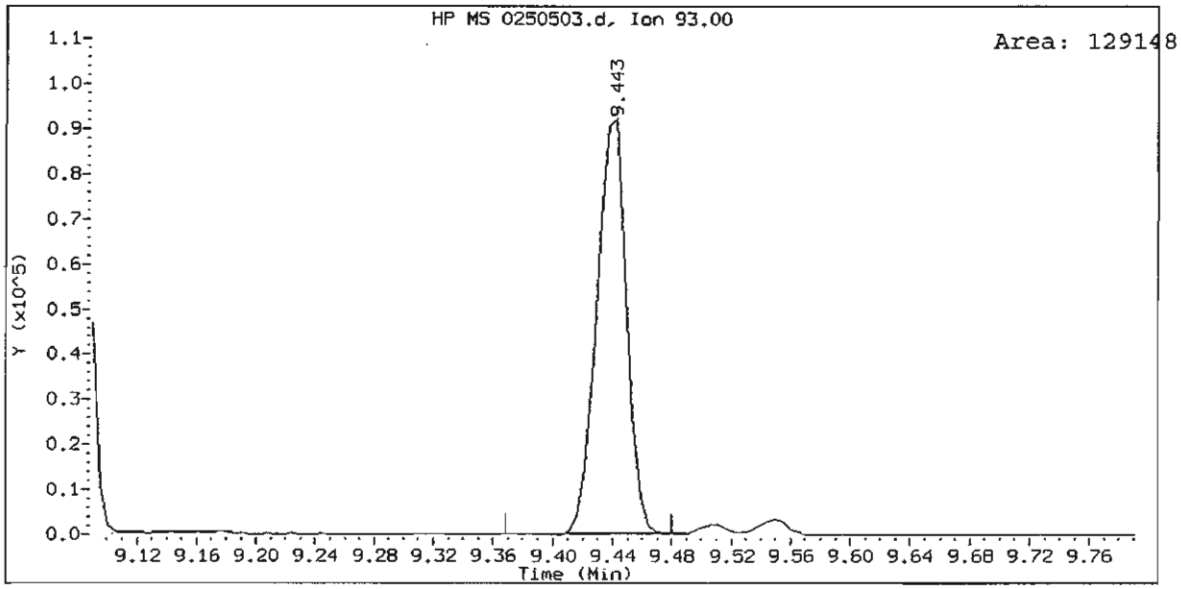




ABN 25, /chem1/nt6.i/20070503.b/0250503.d
alpha-Terpineol Amount: 24.86







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

Data file: /chem1/nt6.i/20070503.b/ddt.b/0250503.d
Method: /chem1/nt6.i/20070503.b/ddt.b/sw846ddt.m
Analysis Date: 03-MAY-2007 10:33

ARI ID:
Misc:
Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	14.427	71537
Benzidine	16.831	261286
4,4'-DDE	----	----
4,4'-DDD	17.760	6293
4,4'-DDT	18.236	171531

LJK
5/8/07

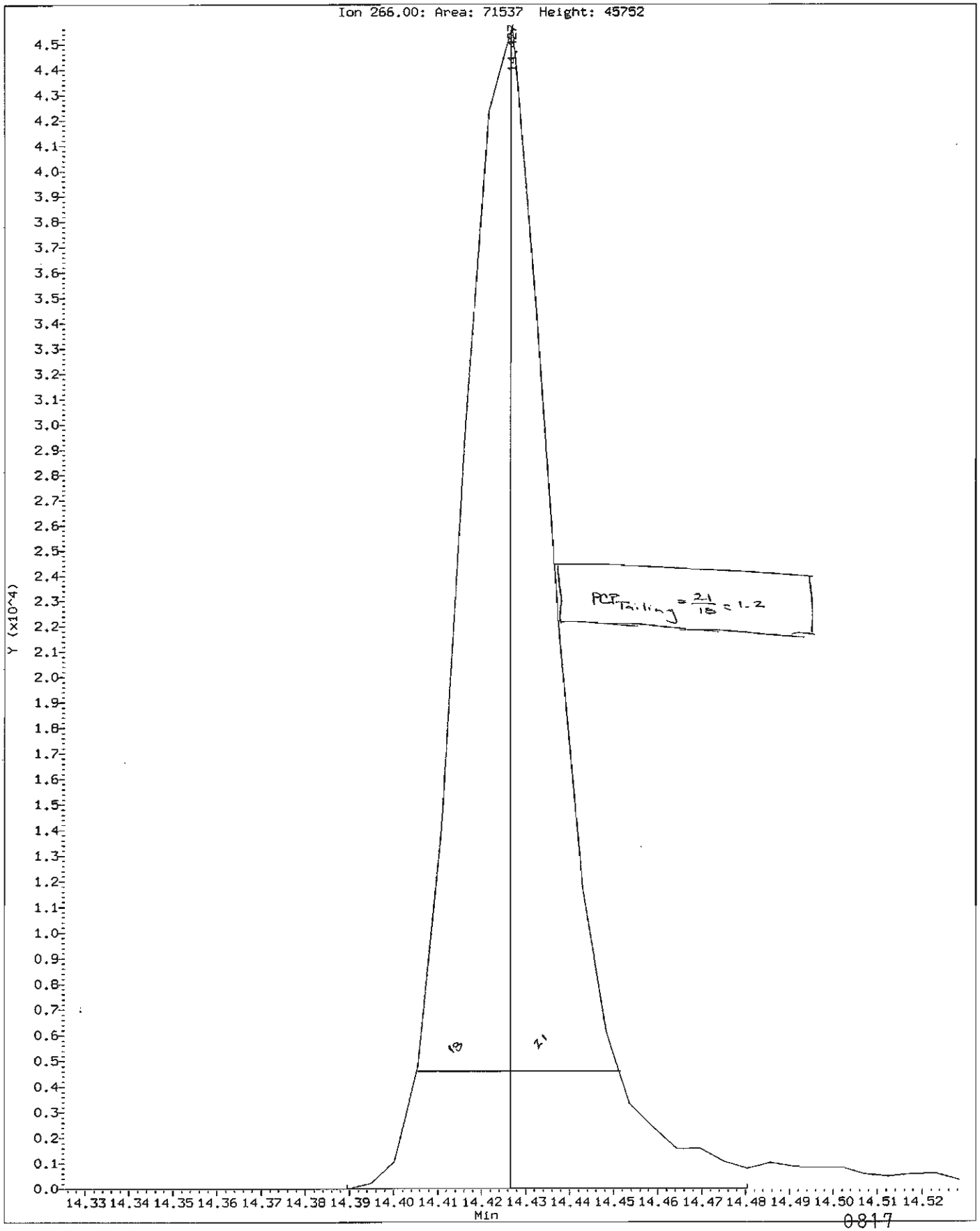
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 6293) * 100}{(0 + 6293 + 171531)}$$

DDT Percent Breakdown = 3.5 %

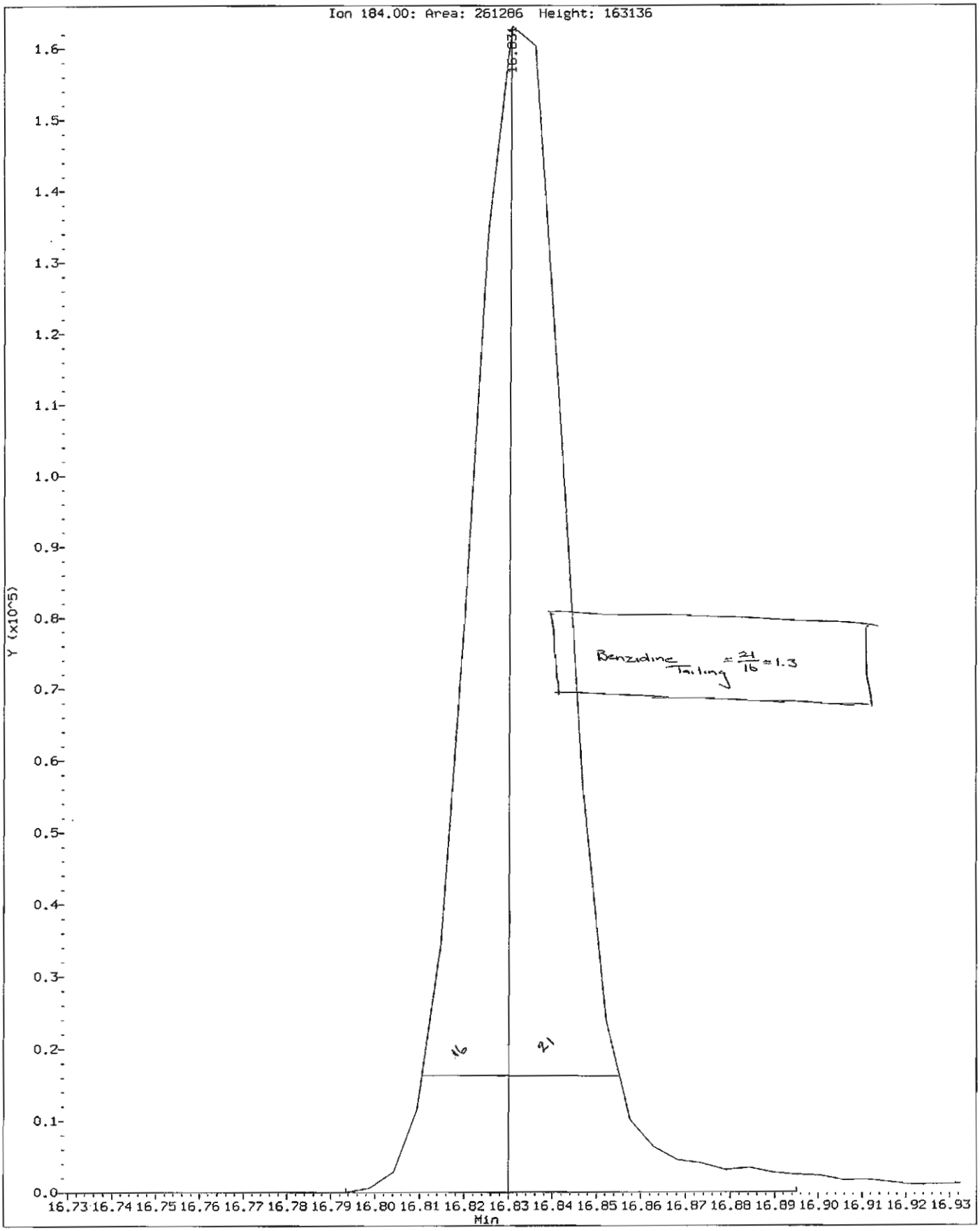
Data File: /chem1/nt6.i/20070503.b/ddt.b/0250503.d
Injection Date: 03-MAY-2007 10:33
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20070503.b/ddt.b/0250503.d
Injection Date: 03-MAY-2007 10:33
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0300503.d
Lab Smp Id: ABN 30
Inj Date : 03-MAY-2007 12:11
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 30
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 12:11 Cal File: 0300503.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LTK 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.453	5.451	(0.741)	414671	30.0000	27.73
$ 2 Phenol-d5	99	6.938	6.942	(0.943)	480960	30.0000	27.41
3 Phenol	94	6.960	6.963	(0.946)	533679	30.0000	27.70
$ 5 2-Chlorophenol-d4	132	7.056	7.059	(0.959)	331648	30.0000	27.33
4 Bis(2-Chloroethyl)ether	93	7.040	7.038	(0.957)	421662	30.0000	27.26
6 2-Chlorophenol	128	7.083	7.081	(0.963)	382132	30.0000	28.06
7 1,3-Dichlorobenzene	146	7.291	7.294	(0.991)	374517	30.0000	27.28
* 8 1,4-Dichlorobenzene-d4	152	7.355	7.353	(1.000)	164506	20.0000	
9 1,4-Dichlorobenzene	146	7.377	7.380	(1.003)	378782	30.0000	27.35
$ 10 1,2-Dichlorobenzene-d4	152	7.649	7.647	(1.040)	195624	30.0000	26.36
12 1,2-Dichlorobenzene	146	7.665	7.668	(1.042)	352333	30.0000	26.98
11 Benzyl alcohol	108	7.633	7.636	(1.038)	260360	30.0000	27.12
14 2,2'-oxybis(1-Chloropropane)	45	7.895	7.893	(1.073)	640070	30.0000	27.58
13 2-Methylphenol	108	7.873	7.877	(1.070)	370206	30.0000	28.57
17 Hexachloroethane	117	8.151	8.149	(1.108)	168141	30.0000	27.84
16 N-Nitroso-di-n-propylamine	70	8.108	8.112	(1.102)	274381	30.0000	27.54
15 4-Methylphenol	108	8.103	8.106	(1.102)	358622	30.0000	27.77
$ 18 Nitrobenzene-d5	82	8.269	8.272	(0.882)	405849	30.0000	28.73
19 Nitrobenzene	77	8.295	8.299	(0.885)	424306	30.0000	28.79
20 Isophorone	82	8.675	8.678	(0.925)	770990	30.0000	28.29
21 2-Nitrophenol	139	8.808	8.812	(0.940)	179830	30.0000	29.91
22 2,4-Dimethylphenol	107	8.931	8.934	(0.953)	356611	30.0000	29.41
23 Bis(2-Chloroethoxy)methane	93	9.075	9.079	(0.968)	475281	30.0000	27.99
24 Benzoic acid	105	9.188	9.218	(0.980)	503022	60.0000	61.98
25 2,4-Dichlorophenol	162	9.193	9.191	(0.981)	241085	30.0000	27.67
26 1,2,4-Trichlorobenzene	180	9.321	9.319	(0.994)	276004	30.0000	27.15
* 27 Naphthalene-d8	136	9.374	9.372	(1.000)	593696	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	9.407	9.405	(1.003)	955319	30.0000	27.17
29 4-Chloroaniline	127	9.551	9.554	(1.019)	433120	30.0000	27.86
30 Hexachlorobutadiene	225	9.727	9.730	(1.038)	140552	30.0000	27.70
31 4-Chloro-3-methylphenol	107	10.368	10.371	(1.106)	295226	30.0000	28.08
32 2-Methylnaphthalene	141	10.523	10.521	(1.123)	472028	30.0000	26.41
33 Hexachlorocyclopentadiene	237	10.908	10.906	(0.892)	124842	30.0000	31.57
34 2,4,6-Trichlorophenol	196	11.041	11.039	(0.903)	167531	30.0000	29.00
35 2,4,5-Trichlorophenol	196	11.095	11.093	(0.907)	176071	30.0000	28.60
$ 36 2-Fluorobiphenyl	172	11.169	11.173	(0.913)	523875	30.0000	27.26
37 2-Chloronaphthalene	162	11.298	11.301	(0.924)	504908	30.0000	27.38
38 2-Nitroaniline	65	11.533	11.536	(0.943)	203356	30.0000	29.39
39 Dimethylphthalate	163	11.917	11.921	(0.975)	510383	30.0000	27.89
40 Acenaphthylene	152	11.971	11.974	(0.979)	823920	30.0000	27.45
41 2,6-Dinitrotoluene	165	12.003	12.006	(0.982)	114593	30.0000	29.99
* 42 Acenaphthene-d10	164	12.227	12.231	(1.000)	284708	20.0000	
43 3-Nitroaniline	138	12.211	12.214	(0.999)	153132	30.0000	29.25
44 Acenaphthene	153	12.281	12.279	(1.004)	489478	30.0000	27.24
45 2,4-Dinitrophenol	184	12.377	12.380	(1.012)	77618	60.0000	85.56
46 Dibenzofuran	168	12.537	12.546	(1.025)	634151	30.0000	26.18
47 4-Nitrophenol	109	12.542	12.546	(1.026)	87061	30.0000	29.28
48 2,4-Dinitrotoluene	165	12.628	12.631	(1.033)	148995	30.0000	30.64
50 Diethylphthalate	149	13.077	13.080	(1.069)	498691	30.0000	27.34
49 Fluorene	166	13.098	13.096	(1.071)	506740	30.0000	26.55
51 4-Chlorophenyl-phenylether	204	13.130	13.128	(1.074)	246140	30.0000	27.37
52 4-Nitroaniline	138	13.210	13.213	(1.080)	150869	30.0000	28.32
53 4,6-Dinitro-2-methylphenol	198	13.285	13.288	(0.910)	146578	60.0000	73.79
54 N-Nitrosodiphenylamine	169	13.338	13.336	(0.914)	367089	30.0000	27.57
$ 55 2,4,6-Tribromophenol	330	13.520	13.523	(1.106)	83104	30.0000	28.67
56 4-Bromophenyl-phenylether	248	13.910	13.908	(0.953)	140389	30.0000	27.32
57 Hexachlorobenzene	284	14.124	14.127	(0.968)	148102	30.0000	27.29
58 Pentachlorophenol	266	14.423	14.426	(0.988)	94973	30.0000	29.46
* 59 Phenanthrene-d10	188	14.594	14.597	(1.000)	416063	20.0000	
60 Phenanthrene	178	14.636	14.640	(1.003)	746260	30.0000	26.88
61 Anthracene	178	14.706	14.709	(1.008)	774353	30.0000	26.99
62 Carbazole	167	14.994	14.998	(1.027)	673362	30.0000	27.28
63 Di-n-butylphthalate	149	15.732	15.735	(1.078)	844233	30.0000	27.73
64 Fluoranthene	202	16.570	16.574	(1.135)	709002	30.0000	26.91
65 Pyrene	202	16.923	16.926	(0.895)	732671	30.0000	28.35
$ 66 Terphenyl-d14	244	17.254	17.257	(0.912)	464009	30.0000	28.35
67 Butylbenzylphthalate	149	18.146	18.150	(0.960)	363072	30.0000	29.88
68 Benzo(a)anthracene	228	18.883	18.887	(0.999)	657997	30.0000	28.28
* 69 Chrysene-d12	240	18.910	18.914	(1.000)	311444	20.0000	
70 3,3'-Dichlorobenzidine	252	18.905	18.908	(1.000)	247965	30.0000	27.70
71 Chrysene	228	18.953	18.956	(1.002)	660686	30.0000	28.07
72 bis(2-Ethylhexyl)phthalate	149	19.151	19.154	(0.953)	496887	30.0000	29.26
* 134 Di-n-octylphthalate-d4	153	20.085	20.083	(1.000)	495882	20.0000	
73 Di-n-octylphthalate	149	20.096	20.099	(1.001)	840922	30.0000	28.55

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	20.545	20.548	(0.975)	833156	30.0000	27.34
75 Benzo(k)fluoranthene	252	20.577	20.580	(0.977)	764453	30.0000	26.11
76 Benzo(a)pyrene	252	20.988	20.992	(0.996)	817573	30.0000	26.80
* 77 Perylene-d12	264	21.068	21.066	(1.000)	470085	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.511	22.519	(1.068)	1006582	30.0000	27.91
79 Dibenzo(a,h)anthracene	278	22.538	22.546	(1.070)	833079	30.0000	27.89
80 Benzo(g,h,i)perylene	276	22.901	22.909	(1.087)	934194	30.0000	28.27
90 N-Nitrosodimethylamine	74	3.028	3.031	(0.412)	297257	30.0000	28.72
103 Pyridine	79	3.001	2.999	(0.408)	502331	30.0000	27.93
91 Aniline	93	6.917	6.920	(0.940)	669819	30.0000	27.22
105 1-methylnaphthalene	141	10.694	10.692	(1.141)	468684	30.0000	27.24
93 Benzidine	184	16.832	16.835	(0.890)	393366	30.0000	27.96
98 Retene	219	17.500	17.503	(0.925)	373529	30.0000	27.89
111 Azobenzene (1,2-DP-Hydrazine)	77	13.381	13.384	(1.094)	764432	30.0000	27.94
144 alpha-Terpineol	59	9.439	9.442	(1.007)	328227	30.0000	28.16
143 1,4-Dioxane	88	2.408	2.406	(0.327)	191751	30.0000	28.17
$ 137 d8-1,4-Dioxane	96	2.360	2.364	(0.321)	198559	30.0000	28.55
133 Butylatedhydroxytoluene	205	12.419	12.423	(1.016)	371909	30.0000	27.35
115 Tributyl Phosphate	99	13.451	13.459	(0.922)	835965	30.0000	28.07
116 Dibutyl Phenyl Phosphate	175	15.176	15.179	(1.040)	367375	30.0000	28.16
117 Butyl Diphenyl Phosphate	94	16.859	16.862	(0.892)	172914	30.0000	28.85
118 Triphenyl Phosphate	326	18.456	18.459	(0.976)	125724	30.0000	29.34
123 Acetophenone	105	8.039	8.042	(1.093)	500882	30.0000	27.32

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0300503.d
Lab Smp Id: ABN 30
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	164506	20.46
27 Naphthalene-d8	497815	248908	995630	593696	19.26
42 Acenaphthene-d10	245165	122582	490330	284708	16.13
59 Phenanthrene-d10	363763	181882	727526	416063	14.38
69 Chrysene-d12	285968	142984	571936	311444	8.91
134 Di-n-octylphthala	466956	233478	933912	495882	6.19
77 Perylene-d12	427729	213864	855458	470085	9.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.36	0.09
27 Naphthalene-d8	9.37	8.87	9.87	9.37	0.01
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.01
59 Phenanthrene-d10	14.60	14.10	15.10	14.59	-0.03
69 Chrysene-d12	18.91	18.41	19.41	18.91	-0.02
134 Di-n-octylphthala	20.08	19.58	20.58	20.09	0.01
77 Perylene-d12	21.07	20.57	21.57	21.07	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/20070503.b/0300503.d

Date : 03-MAY-2007 12:11

Client ID:

Sample Info: ABN 30

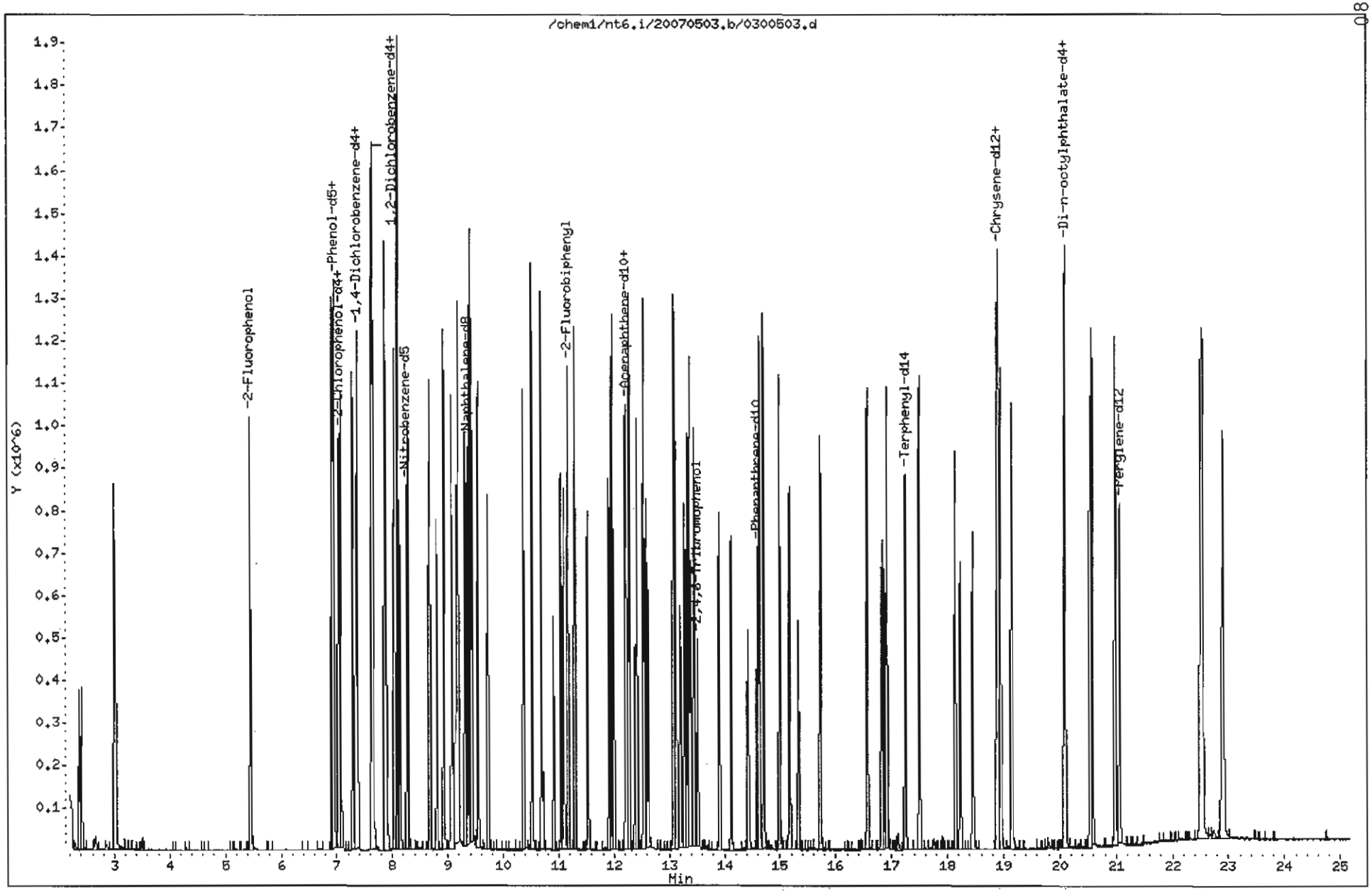
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32

0823



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/0400503.d
Lab Smp Id: ABN 40
Inj Date : 03-MAY-2007 11:05
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 40
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.451	5.451	(0.741)	532511	40.0000	37.04
$ 2 Phenol-d5	99	6.942	6.942	(0.944)	616645	40.0000	36.56
3 Phenol	94	6.963	6.963	(0.947)	681307	40.0000	36.79
$ 5 2-Chlorophenol-d4	132	7.059	7.059	(0.960)	423882	40.0000	36.34
4 Bis(2-Chloroethyl)ether	93	7.038	7.038	(0.957)	528629	40.0000	35.56
6 2-Chlorophenol	128	7.081	7.081	(0.963)	489440	40.0000	37.39
7 1,3-Dichlorobenzene	146	7.294	7.294	(0.992)	480451	40.0000	36.41
* 8 1,4-Dichlorobenzene-d4	152	7.353	7.353	(1.000)	158118	20.0000	
9 1,4-Dichlorobenzene	146	7.380	7.380	(1.004)	482298	40.0000	36.23
$ 10 1,2-Dichlorobenzene-d4	152	7.647	7.647	(1.040)	247595	40.0000	34.72
12 1,2-Dichlorobenzene	146	7.668	7.668	(1.043)	447494	40.0000	35.66
11 Benzyl alcohol	108	7.636	7.636	(1.038)	327344	40.0000	35.48
14 2,2'-oxybis(1-Chloropropane)	45	7.893	7.893	(1.073)	802330	40.0000	35.97
13 2-Methylphenol	108	7.877	7.877	(1.071)	463799	40.0000	37.24
17 Hexachloroethane	117	8.149	8.149	(1.108)	214162	40.0000	36.89
16 N-Nitroso-di-n-propylamine	70	8.112	8.112	(1.103)	347640	40.0000	36.30
15 4-Methylphenol	108	8.106	8.106	(1.102)	461776	40.0000	37.20
$ 18 Nitrobenzene-d5	82	8.272	8.272	(0.883)	523275	40.0000	38.61
19 Nitrobenzene	77	8.299	8.299	(0.885)	540088	40.0000	38.20
20 Isophorone	82	8.678	8.678	(0.926)	977162	40.0000	37.37
21 2-Nitrophenol	139	8.812	8.812	(0.940)	233059	40.0000	40.41
22 2,4-Dimethylphenol	107	8.934	8.934	(0.953)	454917	40.0000	39.10
23 Bis(2-Chloroethoxy)methane	93	9.079	9.079	(0.969)	599156	40.0000	36.78
24 Benzoic acid	105	9.218	9.218	(0.983)	695118	80.0000	89.27(M)
25 2,4-Dichlorophenol	162	9.191	9.191	(0.981)	307907	40.0000	36.83
26 1,2,4-Trichlorobenzene	180	9.319	9.319	(0.994)	354933	40.0000	36.39
27 Naphthalene-d8	136	9.372	9.372	(1.000)	569574	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	9.405	9.405	(1.003)	1197986	40.0000	35.51
29 4-Chloroaniline	127	9.554	9.554	(1.019)	550030	40.0000	36.88
30 Hexachlorobutadiene	225	9.730	9.730	(1.038)	178799	40.0000	36.73
31 4-Chloro-3-methylphenol	107	10.371	10.371	(1.107)	378125	40.0000	37.49
32 2-Methylnaphthalene	141	10.521	10.521	(1.123)	609126	40.0000	35.52
33 Hexachlorocyclopentadiene	237	10.906	10.906	(0.892)	168457	40.0000	44.96
34 2,4,6-Trichlorophenol	196	11.039	11.039	(0.903)	216357	40.0000	39.54
35 2,4,5-Trichlorophenol	196	11.093	11.093	(0.907)	228128	40.0000	39.11
$ 36 2-Fluorobiphenyl	172	11.173	11.173	(0.914)	673741	40.0000	37.01
37 2-Chloronaphthalene	162	11.301	11.301	(0.924)	639131	40.0000	36.59
38 2-Nitroaniline	65	11.536	11.536	(0.943)	263303	40.0000	40.16
39 Dimethylphthalate	163	11.921	11.921	(0.975)	662014	40.0000	38.18
40 Acenaphthylene	152	11.974	11.974	(0.979)	1036194	40.0000	36.43
41 2,6-Dinitrotoluene	165	12.006	12.006	(0.982)	148016	40.0000	40.89
* 42 Acenaphthene-d10	164	12.231	12.231	(1.000)	269736	20.0000	
43 3-Nitroaniline	138	12.214	12.214	(0.999)	198890	40.0000	40.11
44 Acenaphthene	153	12.279	12.279	(1.004)	629460	40.0000	36.98
45 2,4-Dinitrophenol	184	12.380	12.380	(1.012)	118705	80.0000	138.1
46 Dibenzofuran	168	12.546	12.546	(1.026)	802832	40.0000	34.99
47 4-Nitrophenol	109	12.546	12.546	(1.026)	115232	40.0000	40.90 (M)
48 2,4-Dinitrotoluene	165	12.631	12.631	(1.033)	193914	40.0000	42.10
50 Diethylphthalate	149	13.080	13.080	(1.069)	635047	40.0000	36.75
49 Fluorene	166	13.096	13.096	(1.071)	635734	40.0000	35.16
51 4-Chlorophenyl-phenylether	204	13.128	13.128	(1.073)	312822	40.0000	36.71
52 4-Nitroaniline	138	13.213	13.213	(1.080)	204703	40.0000	40.55
53 4,6-Dinitro-2-methylphenol	198	13.288	13.288	(0.910)	194272	80.0000	100.7
54 N-Nitrosodiphenylamine	169	13.336	13.336	(0.914)	471007	40.0000	36.42
$ 55 2,4,6-Tribromophenol	330	13.523	13.523	(1.106)	107770	40.0000	39.24
56 4-Bromophenyl-phenylether	248	13.908	13.908	(0.953)	179274	40.0000	35.93
57 Hexachlorobenzene	284	14.127	14.127	(0.968)	188614	40.0000	35.79
58 Pentachlorophenol	266	14.426	14.426	(0.988)	131580	40.0000	42.03 (M)
* 59 Phenanthrene-d10	188	14.597	14.597	(1.000)	404084	20.0000	
60 Phenanthrene	178	14.640	14.640	(1.003)	950695	40.0000	35.25
61 Anthracene	178	14.709	14.709	(1.008)	988938	40.0000	35.49
62 Carbazole	167	14.998	14.998	(1.027)	863953	40.0000	36.03
63 Di-n-butylphthalate	149	15.735	15.735	(1.078)	1093220	40.0000	36.97
64 Fluoranthene	202	16.574	16.574	(1.135)	915814	40.0000	35.79
65 Pyrene	202	16.926	16.926	(0.895)	937510	40.0000	37.64
$ 66 Terphenyl-d14	244	17.257	17.257	(0.912)	596589	40.0000	37.82
67 Butylbenzylphthalate	149	18.150	18.150	(0.960)	471006	40.0000	40.22
68 Benzo(a)anthracene	228	18.887	18.887	(0.999)	848755	40.0000	37.85
* 69 Chrysene-d12	240	18.914	18.914	(1.000)	300210	20.0000	
70 3,3'-Dichlorobenzidine	252	18.908	18.908	(1.000)	325915	40.0000	37.76
71 Chrysene	228	18.956	18.956	(1.002)	856253	40.0000	37.74
72 bis(2-Ethylhexyl)phthalate	149	19.154	19.154	(0.954)	647744	40.0000	39.56
* 134 Di-n-octylphthalate-d4	153	20.083	20.083	(1.000)	478094	20.0000	
73 Di-n-octylphthalate	149	20.099	20.099	(1.001)	1105352	40.0000	38.92

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	20.548	20.548	(0.975)	1112720	40.0000	36.50
75 Benzo(k)fluoranthene	252	20.580	20.580	(0.977)	995080	40.0000	33.98
76 Benzo(a)pyrene	252	20.992	20.992	(0.996)	1076674	40.0000	35.29 (M)
* 77 Perylene-d12	264	21.066	21.066	(1.000)	470160	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.519	22.519	(1.069)	1319526	40.0000	36.58
79 Dibenzo(a,h)anthracene	278	22.546	22.546	(1.070)	1081187	40.0000	36.19
80 Benzo(g,h,i)perylene	276	22.909	22.909	(1.087)	1213258	40.0000	36.71
90 N-Nitrosodimethylamine	74	3.031	3.031	(0.412)	381421	40.0000	38.34
103 Pyridine	79	2.999	2.999	(0.408)	649754	40.0000	37.58
91 Aniline	93	6.920	6.920	(0.941)	859539	40.0000	36.35
105 1-methylnaphthalene	141	10.692	10.692	(1.141)	601413	40.0000	36.44
93 Benzidine	184	16.835	16.835	(0.890)	475727	40.0000	35.09
98 Retene	219	17.503	17.503	(0.925)	482280	40.0000	37.35
111 Azobenzene (1,2-DP-Hydrazine)	77	13.384	13.384	(1.094)	964054	40.0000	37.20
144 alpha-Terpineol	59	9.442	9.442	(1.007)	416190	40.0000	37.22
143 1,4-Dioxane	88	2.406	2.406	(0.327)	246718	40.0000	37.71
$ 137 d8-1,4-Dioxane	96	2.364	2.364	(0.321)	253469	40.0000	37.92
133 Butylatedhydroxytoluene	205	12.423	12.423	(1.016)	465464	40.0000	36.13
115 Tributyl Phosphate	99	13.459	13.459	(0.922)	1055785	40.0000	36.51
116 Dibutyl Phenyl Phosphate	175	15.179	15.179	(1.040)	472895	40.0000	37.32
117 Butyl Diphenyl Phosphate	94	16.862	16.862	(0.892)	219252	40.0000	37.95
118 Triphenyl Phosphate	326	18.459	18.459	(0.976)	163414	40.0000	39.56
123 Acetophenone	105	8.042	8.042	(1.094)	636021	40.0000	36.10

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: 0400503.d
Lab Smp Id: ABN 40
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	158118	15.78
27 Naphthalene-d8	497815	248908	995630	569574	14.41
42 Acenaphthene-d10	245165	122582	490330	269736	10.02
59 Phenanthrene-d10	363763	181882	727526	404084	11.08
69 Chrysene-d12	285968	142984	571936	300210	4.98
134 Di-n-octylphthala	466956	233478	933912	478094	2.39
77 Perylene-d12	427729	213864	855458	470160	9.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.06
27 Naphthalene-d8	9.37	8.87	9.87	9.37	-0.01
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.04
59 Phenanthrene-d10	14.60	14.10	15.10	14.60	-0.01
69 Chrysene-d12	18.91	18.41	19.41	18.91	0.00
134 Di-n-octylphthala	20.08	19.58	20.58	20.08	0.00
77 Perylene-d12	21.07	20.57	21.57	21.07	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.

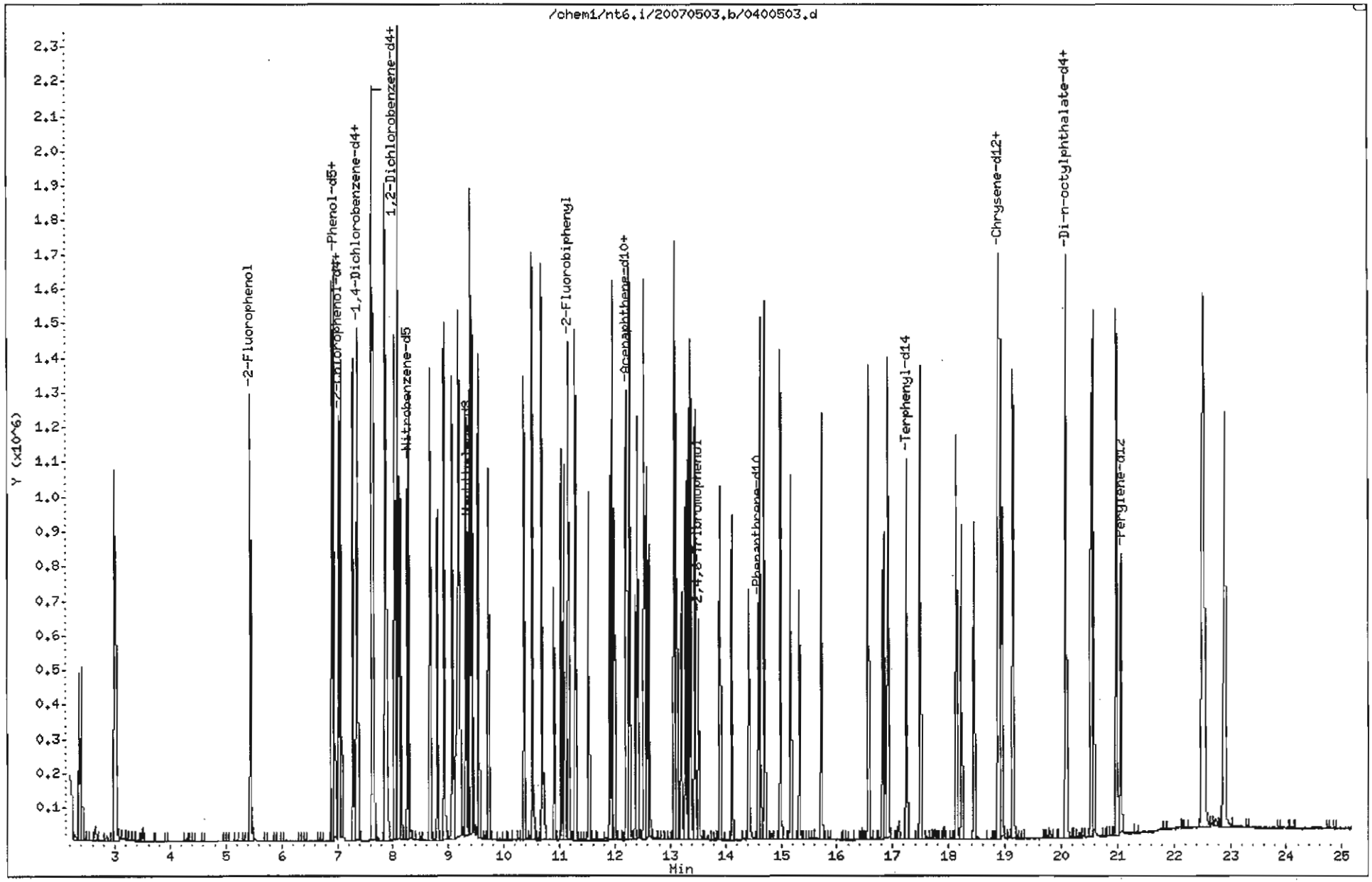
Data File: /chem1/nt6.i/20070503.b/0400503.d
Date : 03-MAY-2007 11:05
Client ID:
Sample Info: ABN 40

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

828



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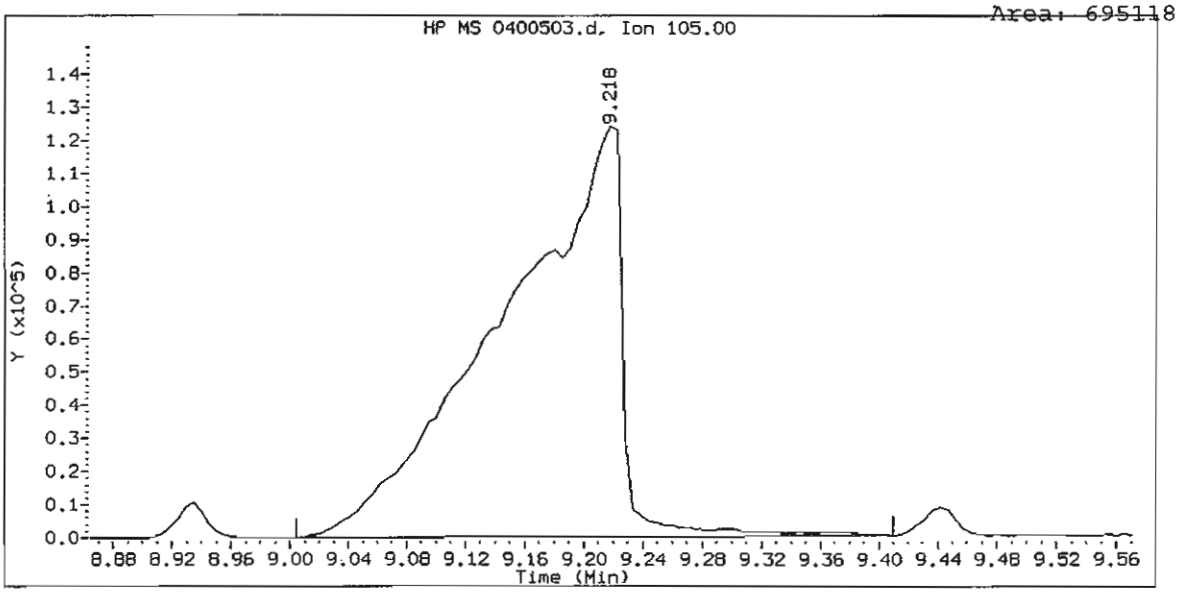
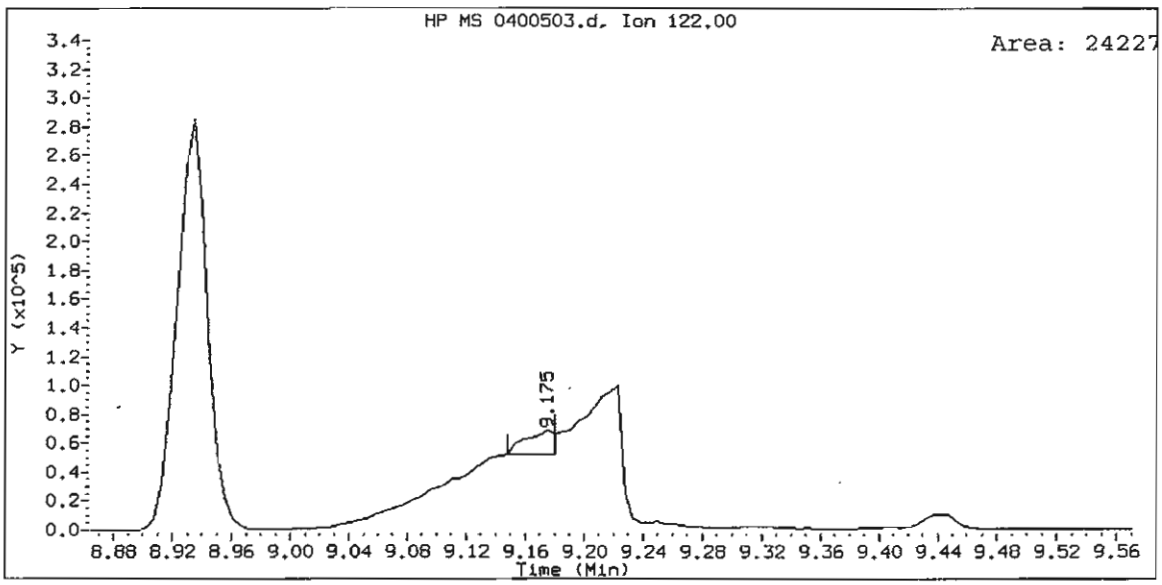
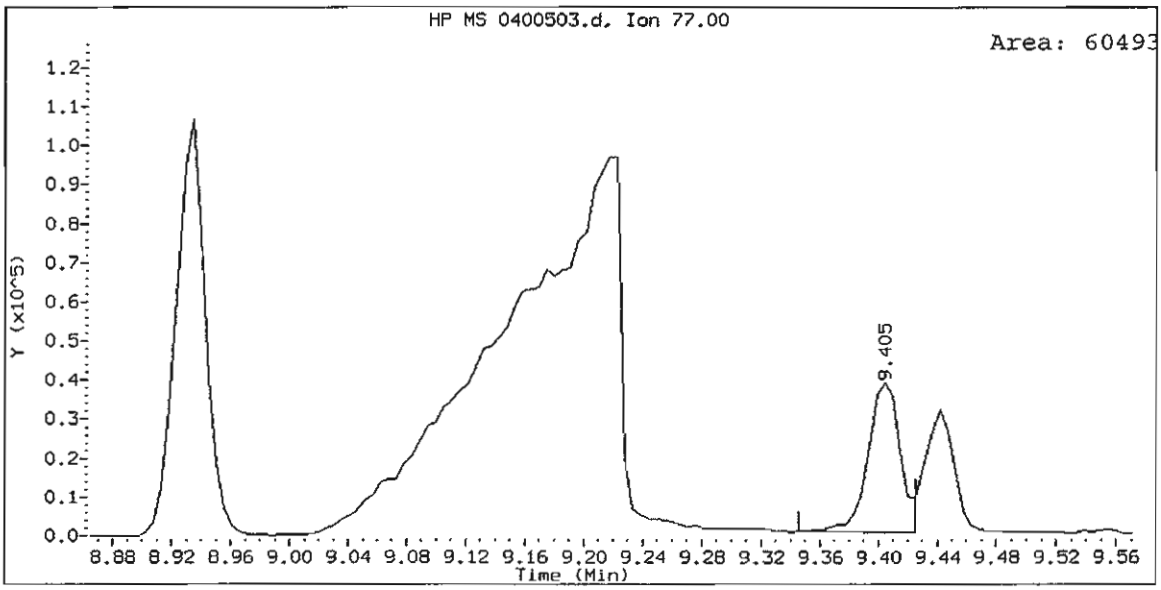
Benzoic acid Amount: 89.27







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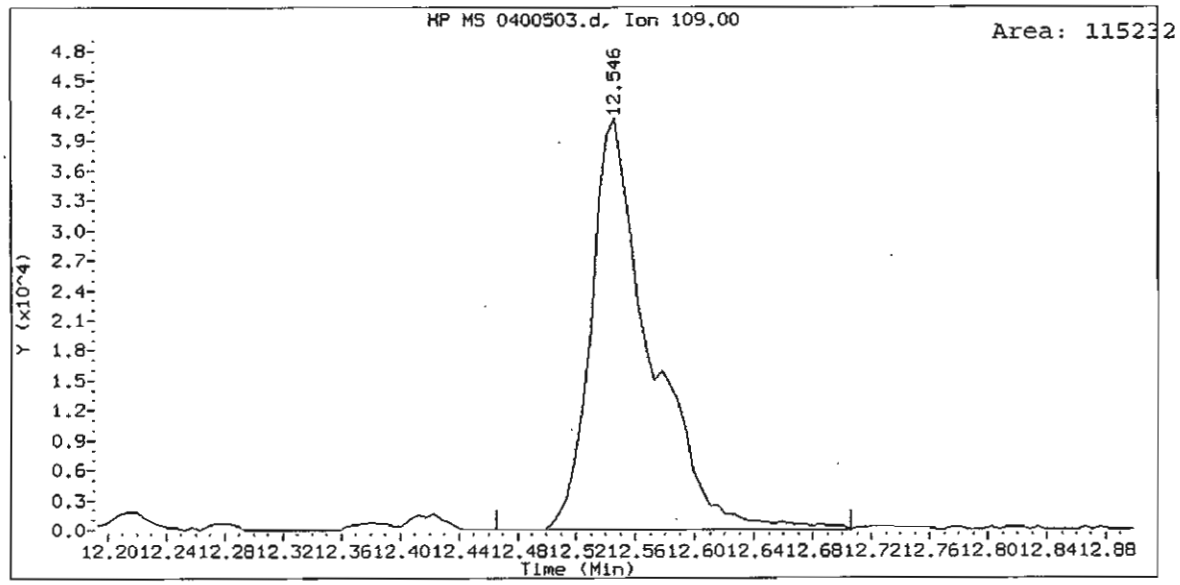
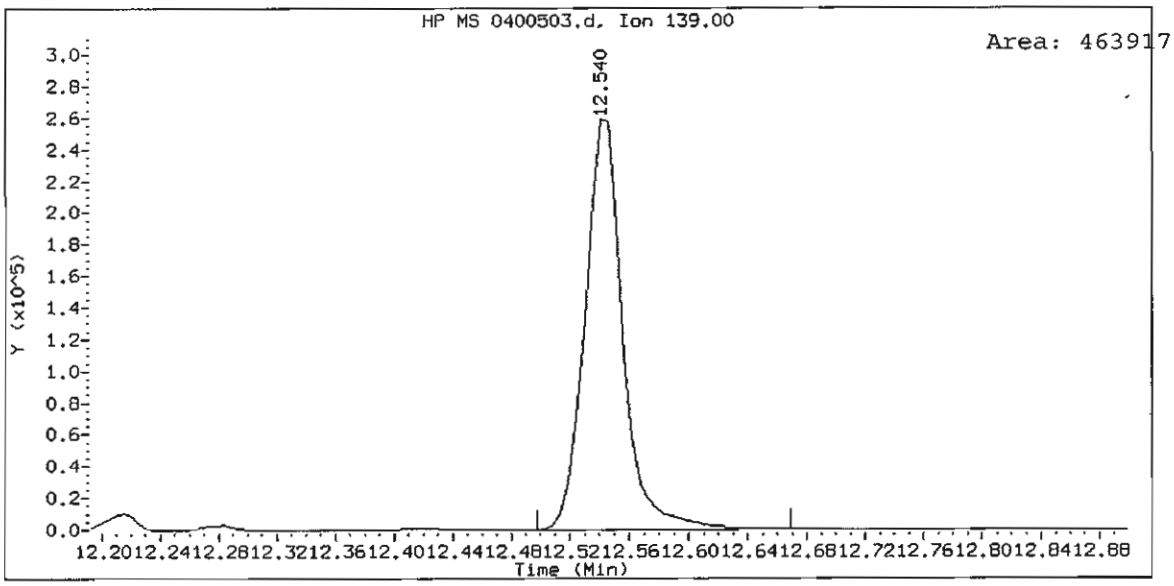
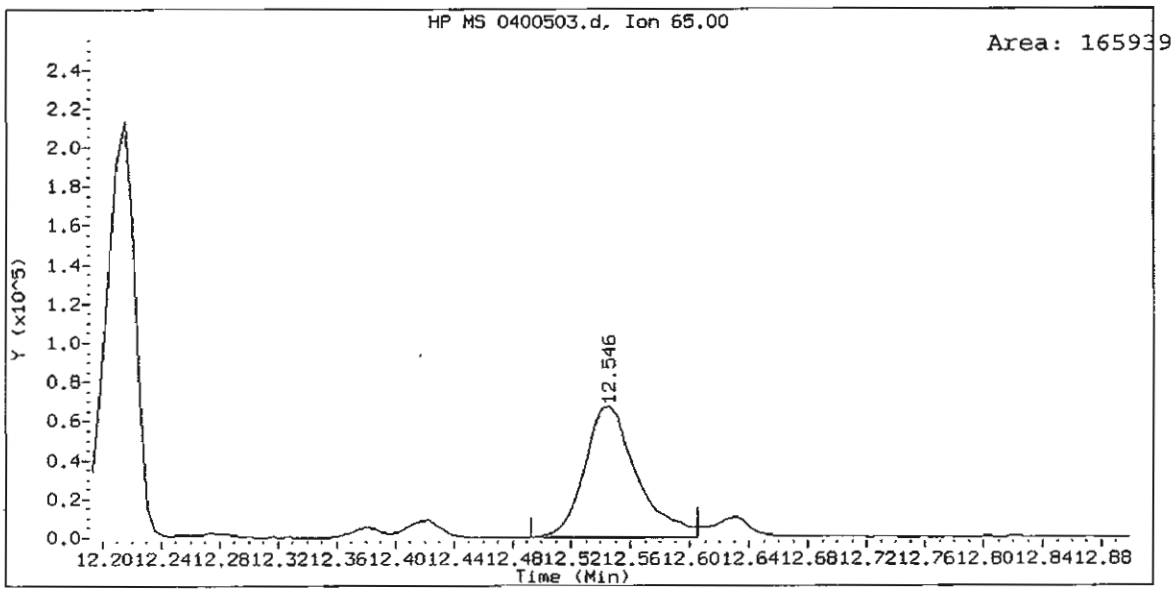
4-Nitrophenol Amount: 40.90







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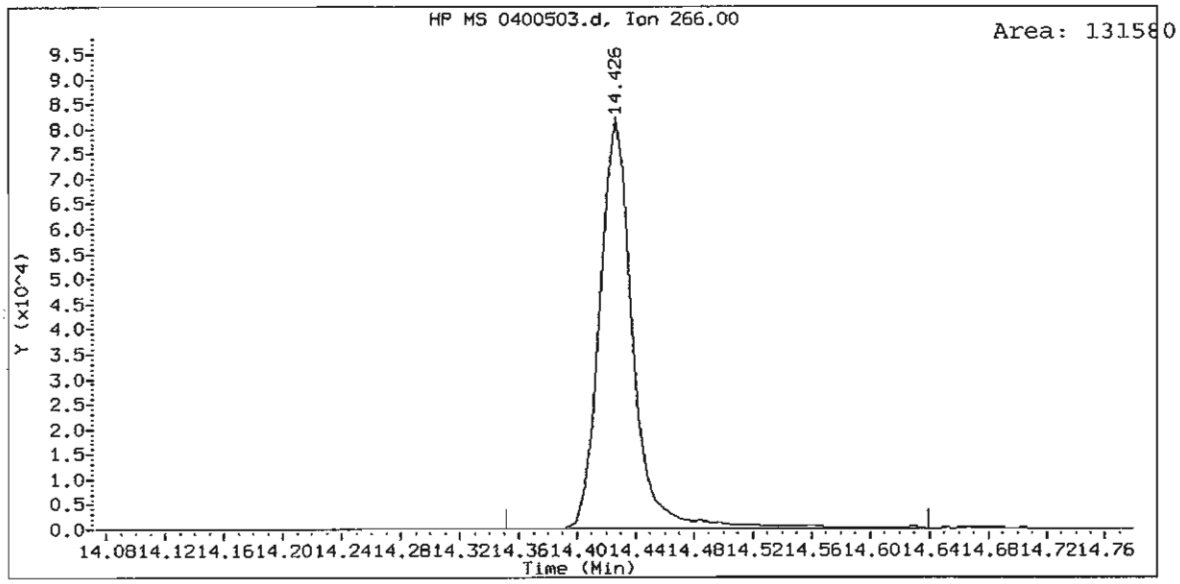
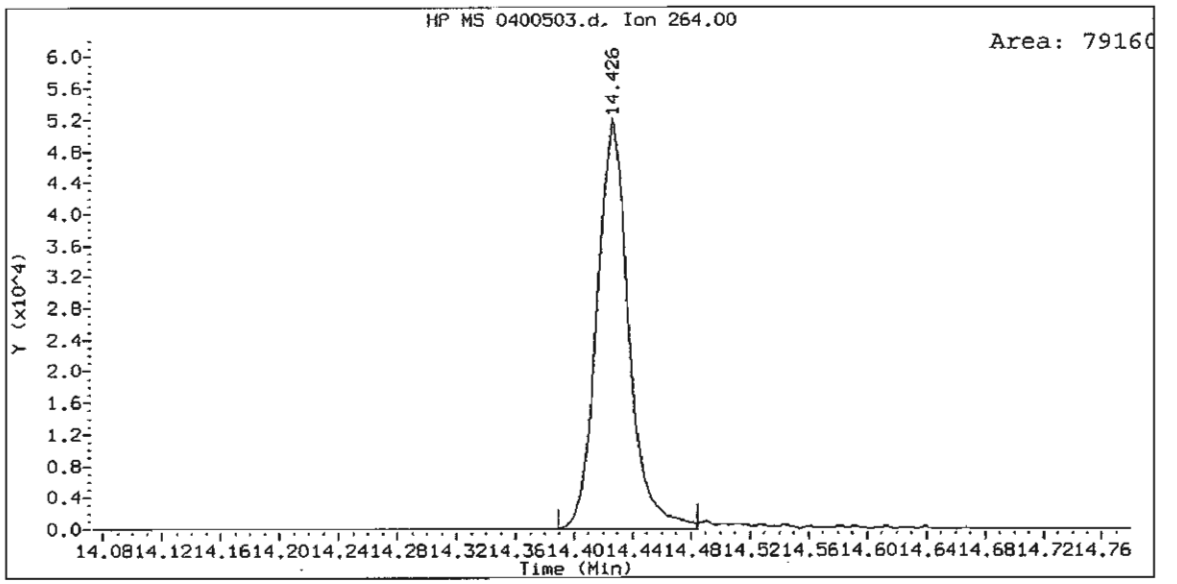
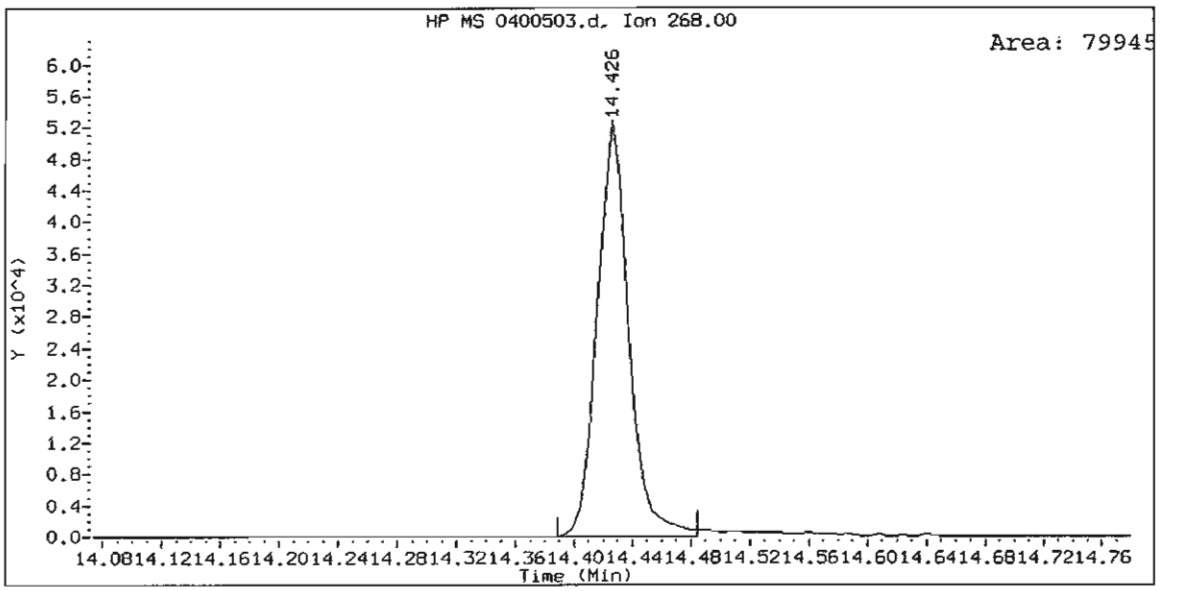
Pentachlorophenol Amount: 42.03







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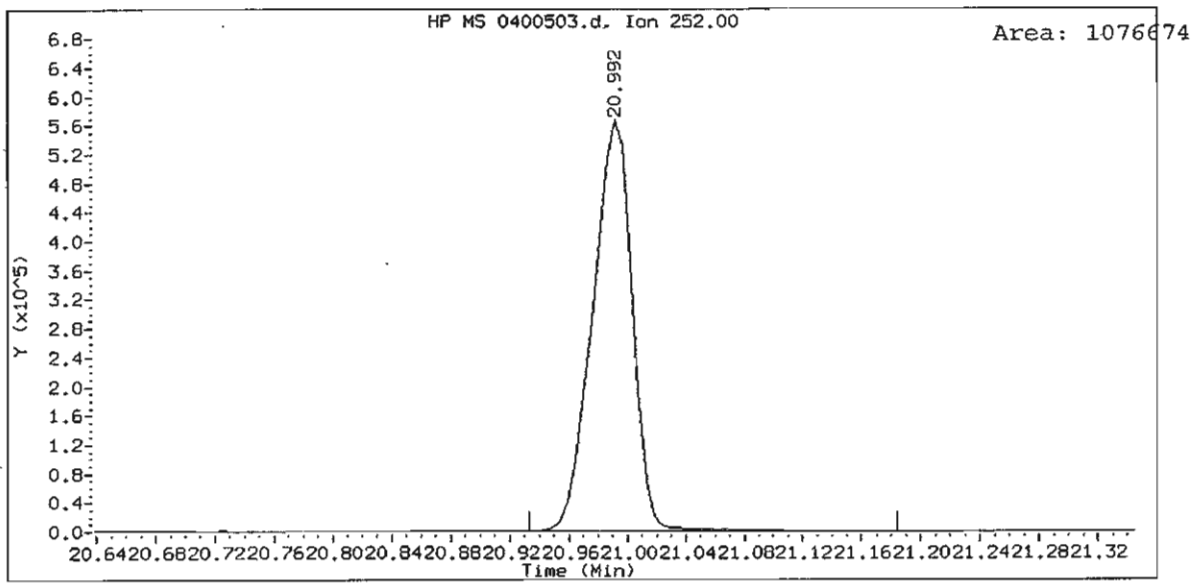
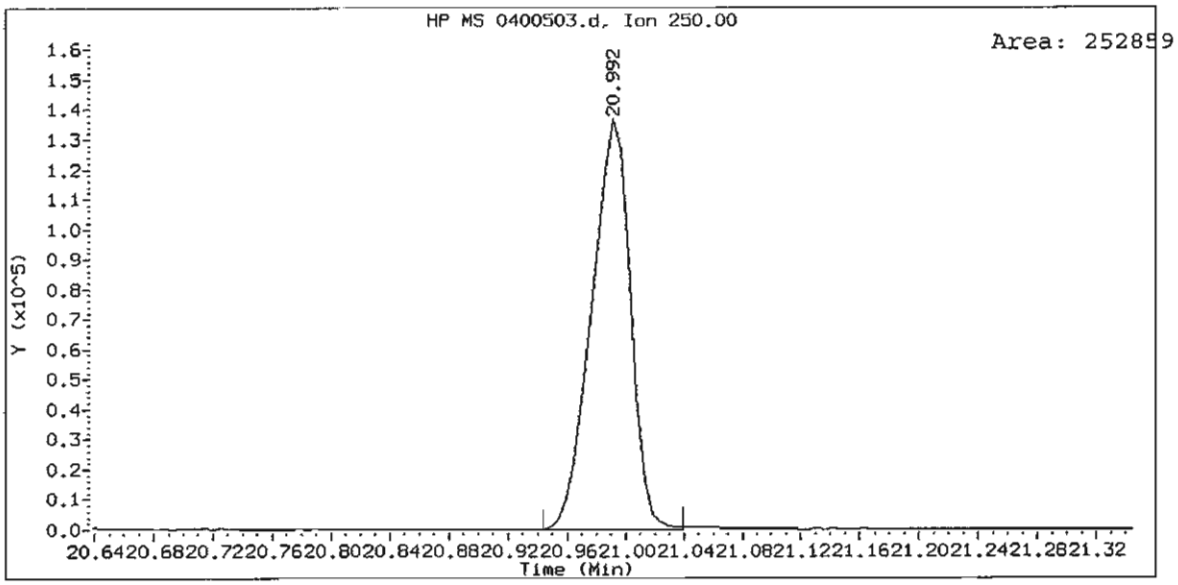
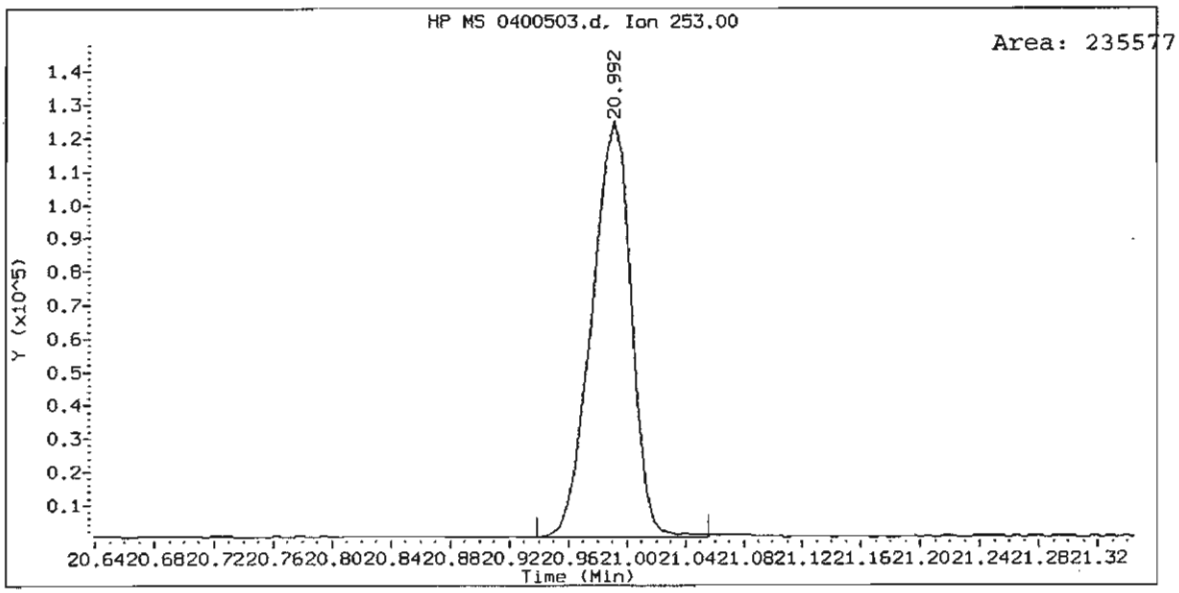
Benzo(a)pyrene Amount: 35.29







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070503.b/icv0503.d
Lab Smp Id: ABN ICV
Inj Date : 03-MAY-2007 14:24
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN ICV
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070503.b/SW846.m
Meth Date : 08-May-2007 13:12 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICV.sub
Target Version: 3.50

LJR 5/8/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
3 Phenol	94	6.954	6.963	(0.946)	447023	25.2988	25.30
4 Bis(2-Chloroethyl)ether	93	7.034	7.038	(0.957)	350811	24.7295	24.73
6 2-Chlorophenol	128	7.077	7.081	(0.963)	307070	24.5848	24.58
7 1,3-Dichlorobenzene	146	7.290	7.294	(0.992)	303101	24.0739	24.07
* 8 1,4-Dichlorobenzene-d4	152	7.349	7.353	(1.000)	150884	20.0000	
9 1,4-Dichlorobenzene	146	7.376	7.380	(1.004)	305044	24.0129	24.01
11 Benzyl alcohol	108	7.632	7.636	(1.039)	250563	28.4594	28.46
12 1,2-Dichlorobenzene	146	7.664	7.668	(1.043)	293055	24.4697	24.47
13 2-Methylphenol	108	7.867	7.877	(1.070)	304877	25.6515	25.65
14 2,2'-oxybis(1-Chloropropane)	45	7.894	7.893	(1.074)	509273	23.9286	23.93
15 4-Methylphenol	108	8.097	8.106	(1.102)	299183	25.2588	25.26
16 N-Nitroso-di-n-propylamine	70	8.102	8.112	(1.102)	227565	24.8988	24.90
17 Hexachloroethane	117	8.145	8.149	(1.108)	133986	24.1889	24.19
19 Nitrobenzene	77	8.295	8.299	(0.885)	342546	24.7674	24.77
20 Isophorone	82	8.674	8.678	(0.925)	599378	23.4289	23.43
21 2-Nitrophenol	139	8.808	8.812	(0.940)	148424	26.3070	26.31
22 2,4-Dimethylphenol	107	8.931	8.934	(0.953)	293085	25.7524	25.75
23 Bis(2-Chloroethoxy)methane	93	9.075	9.079	(0.968)	391710	24.5768	24.58
24 Benzoic acid	105	9.171	9.218	(0.978)	408741	53.6595	53.66
25 2,4-Dichlorophenol	162	9.187	9.191	(0.980)	202564	24.7682	24.77
26 1,2,4-Trichlorobenzene	180	9.320	9.319	(0.994)	228563	23.9517	23.95
* 27 Naphthalene-d8	136	9.374	9.372	(1.000)	557215	20.0000	
28 Naphthalene	128	9.401	9.405	(1.003)	784808	23.7784	23.78
29 4-Chloroaniline	127	9.550	9.554	(1.019)	357789	24.5198	24.52
30 Hexachlorobutadiene	225	9.732	9.730	(1.038)	119357	25.0622	25.06
31 4-Chloro-3-methylphenol	107	10.368	10.371	(1.106)	248060	25.1387	25.14
32 2-Methylnaphthalene	141	10.522	10.521	(1.123)	387067	23.0708	23.07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
33 Hexachlorocyclopentadiene	237	10.907	10.906	(0.892)	96023	25.9157	25.92
34 2,4,6-Trichlorophenol	196	11.041	11.039	(0.903)	136677	25.2543	25.25
35 2,4,5-Trichlorophenol	196	11.094	11.093	(0.907)	142611	24.7242	24.72
37 2-Chloronaphthalene	162	11.297	11.301	(0.924)	417061	24.1402	24.14
38 2-Nitroaniline	65	11.532	11.536	(0.943)	168859	26.0418	26.04
39 Dimethylphthalate	163	11.917	11.921	(0.975)	421476	24.5802	24.58
40 Acenaphthylene	152	11.970	11.974	(0.979)	655064	23.2886	23.29
41 2,6-Dinitrotoluene	165	12.002	12.006	(0.982)	96635	26.9921	26.99
* 42 Acenaphthene-d10	164	12.227	12.231	(1.000)	266764	20.0000	
43 3-Nitroaniline	138	12.211	12.214	(0.999)	128997	26.3016	26.30
44 Acenaphthene	153	12.275	12.279	(1.004)	407943	24.2335	24.23
45 2,4-Dinitrophenol	184	12.376	12.380	(1.012)	49348	58.0576	58.06
46 Dibenzofuran	168	12.536	12.546	(1.025)	519781	22.9057	22.91
47 4-Nitrophenol	109	12.526	12.546	(1.024)	64712	23.2245	23.22
48 2,4-Dinitrotoluene	165	12.627	12.631	(1.033)	121557	26.6817	26.68
49 Fluorene	166	13.097	13.096	(1.071)	427912	23.9299	23.93
50 Diethylphthalate	149	13.076	13.080	(1.069)	413976	24.2255	24.23
51 4-Chlorophenyl-phenylether	204	13.129	13.128	(1.074)	203799	24.1857	24.19
52 4-Nitroaniline	138	13.204	13.213	(1.080)	128410	25.7218	25.72
53 4,6-Dinitro-2-methylphenol	198	13.279	13.288	(0.910)	115697	62.2777	62.28
54 N-Nitrosodiphenylamine	169	13.332	13.336	(0.913)	197418	15.8538	15.85(R)
56 4-Bromophenyl-phenylether	248	13.909	13.908	(0.953)	117338	24.4214	24.42
57 Hexachlorobenzene	284	14.123	14.127	(0.967)	120733	23.7911	23.79
58 Pentachlorophenol	266	14.422	14.426	(0.988)	76501	25.3752	25.38
* 59 Phenanthrene-d10	188	14.599	14.597	(1.000)	389090	20.0000	
60 Phenanthrene	178	14.636	14.640	(1.003)	616796	23.7535	23.75
61 Anthracene	178	14.705	14.709	(1.007)	625247	23.3040	23.30
62 Carbazole	167	14.994	14.998	(1.027)	558097	24.1733	24.17
63 Di-n-butylphthalate	149	15.731	15.735	(1.078)	682199	23.9595	23.96
64 Fluoranthene	202	16.570	16.574	(1.135)	575587	23.3632	23.36
65 Pyrene	202	16.922	16.926	(0.895)	603952	24.6569	24.66
67 Butylbenzylphthalate	149	18.146	18.150	(0.960)	292707	25.4158	25.42
68 Benzo(a)anthracene	228	18.883	18.887	(0.999)	563728	25.5644	25.56
* 69 Chrysene-d12	240	18.910	18.914	(1.000)	295202	20.0000	
70 3,3'-Dichlorobenzidine	252	18.904	18.908	(1.000)	214880	25.3206	25.32
71 Chrysene	228	18.952	18.956	(1.002)	554218	24.8450	24.85
72 bis(2-Ethylhexyl)phthalate	149	19.150	19.154	(0.953)	408986	25.2239	25.22
* 134 Di-n-octylphthalate-d4	153	20.085	20.083	(1.000)	473389	20.0000	
73 Di-n-octylphthalate	149	20.096	20.099	(1.001)	718474	25.5479	25.55
74 Benzo(b)fluoranthene	252	20.539	20.548	(0.975)	639385	22.0747	22.07
75 Benzo(k)fluoranthene	252	20.576	20.580	(0.977)	713022	25.6256	25.63
76 Benzo(a)pyrene	252	20.988	20.992	(0.996)	629096	21.6994	21.70
* 77 Perylene-d12	264	21.062	21.066	(1.000)	446724	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	22.510	22.519	(1.069)	830671	24.2351	24.24
79 Dibenzo(a,h)anthracene	278	22.532	22.546	(1.070)	684069	24.0968	24.10
80 Benzo(g,h,i)perylene	276	22.895	22.909	(1.087)	768089	24.4621	24.46
103 Pyridine	79	2.990	2.999	(0.407)	414747	25.1399	25.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
90 N-Nitrosodimethylamine	74	3.011	3.031	(0.410)	236162	24.8764	24.88
91 Aniline	93	6.917	6.920	(0.941)	548419	24.3015	24.30
105 1-methylnaphthalene	141	10.693	10.692	(1.141)	398260	24.6663	24.67
111 Azobenzene (1,2-DP-Hydrazine)	77	13.381	13.384	(1.094)	602293	23.4967	23.50
93 Benzidine	184	16.832	16.835	(0.890)	367371	27.5534	27.55

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: icv0503.d
Lab Smp Id: ABN ICV
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Calibration Date: 03-MAY-2007
Calibration Time: 10:33

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136565	68282	273130	150884	10.49
27 Naphthalene-d8	497815	248908	995630	557215	11.93
42 Acenaphthene-d10	245165	122582	490330	266764	8.81
59 Phenanthrene-d10	363763	181882	727526	389090	6.96
69 Chrysene-d12	285968	142984	571936	295202	3.23
134 Di-n-octylphthala	466956	233478	933912	473389	1.38
77 Perylene-d12	427729	213864	855458	446724	4.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.35	6.85	7.85	7.35	0.01
27 Naphthalene-d8	9.37	8.87	9.87	9.37	0.01
42 Acenaphthene-d10	12.23	11.73	12.73	12.23	0.01
59 Phenanthrene-d10	14.60	14.10	15.10	14.60	0.00
69 Chrysene-d12	18.91	18.41	19.41	18.91	-0.02
134 Di-n-octylphthala	20.08	19.58	20.58	20.08	0.00
77 Perylene-d12	21.07	20.57	21.57	21.06	-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:
Sample Matrix: NONE
Lab Smp Id: ABN ICV
Level:
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: ICV.sub
Method File: /chem1/nt6.i/20070503.b/SW846.m
Misc Info:

Client SDG: 20070503
Fraction: SV

Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	25.30	101.20	
4 Bis(2-Chloroethyl)	25.00	24.73	98.92	
6 2-Chlorophenol	25.00	24.58	98.34	
7 1,3-Dichlorobenzen	25.00	24.07	96.30	
9 1,4-Dichlorobenzen	25.00	24.01	96.05	
11 Benzyl alcohol	25.00	28.46	113.84	
12 1,2-Dichlorobenzen	25.00	24.47	97.88	
13 2-Methylphenol	25.00	25.65	102.61	
14 2,2'-oxybis(1-Chlo	25.00	23.93	95.71	
15 4-Methylphenol	25.00	25.26	101.04	
16 N-Nitroso-di-n-pro	25.00	24.90	99.60	
17 Hexachloroethane	25.00	24.19	96.76	
19 Nitrobenzene	25.00	24.77	99.07	
20 Isophorone	25.00	23.43	OK 93.72	
21 2-Nitrophenol	25.00	26.31	105.23	
22 2,4-Dimethylphenol	25.00	25.75	103.01	
23 Bis(2-Chloroethoxy	25.00	24.58	98.31	
24 Benzoic acid	50.00	53.66	107.32	
25 2,4-Dichlorophenol	25.00	24.77	99.07	
26 1,2,4-Trichloroben	25.00	23.95	95.81	
28 Naphthalene	25.00	23.78	95.11	
29 4-Chloroaniline	25.00	24.52	98.08	
30 Hexachlorobutadien	25.00	25.06	100.25	
31 4-Chloro-3-methylp	25.00	25.14	100.55	
32 2-Methylnaphthalen	25.00	23.07	92.28	
33 Hexachlorocyclopen	25.00	25.92	103.66	
34 2,4,6-Trichlorophe	25.00	25.25	101.02	
35 2,4,5-Trichlorophe	25.00	24.72	98.90	
37 2-Chloronaphthalen	25.00	24.14	96.56	
38 2-Nitroaniline	25.00	26.04	104.17	
39 Dimethylphthalate	25.00	24.58	98.32	
40 Acenaphthylene	25.00	23.29	93.15	
41 2,6-Dinitrotoluene	25.00	26.99	107.97	

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43 3-Nitroaniline	25.00	26.30	105.21	
44 Acenaphthene	25.00	24.23	96.93	
45 2,4-Dinitrophenol	50.00	58.06	116.12	
46 Dibenzofuran	25.00	22.91	91.62	
47 4-Nitrophenol	25.00	23.22	92.90	
48 2,4-Dinitrotoluene	25.00	26.68	106.73	
49 Fluorene	25.00	23.93	95.72	
50 Diethylphthalate	25.00	24.23	96.90	
51 4-Chlorophenyl-phe	25.00	24.19	96.74	
52 4-Nitroaniline	25.00	25.72	102.89	
53 4,6-Dinitro-2-meth	50.00	62.28	124.56	
54 N-Nitrosodiphenyla	25.00	15.85	63.40	
56 4-Bromophenyl-phen	25.00	24.42	97.69	
57 Hexachlorobenzene	25.00	23.79	95.16	
58 Pentachlorophenol	25.00	25.38	101.50	
60 Phenanthrene	25.00	23.75	95.01	
61 Anthracene	25.00	23.30	93.22	
62 Carbazole	25.00	24.17	96.69	
63 Di-n-butylphthalat	25.00	23.96	95.84	
64 Fluoranthene	25.00	23.36	93.45	
65 Pyrene	25.00	24.66	98.63	
67 Butylbenzylphthala	25.00	25.42	101.66	
68 Benzo(a)anthracene	25.00	25.56	102.26	
70 3,3'-Dichlorobenzi	25.00	25.32	101.28	
71 Chrysene	25.00	24.85	99.38	
72 bis(2-Ethylhexyl)p	25.00	25.22	100.90	
73 Di-n-octylphthalat	25.00	25.55	102.19	
74 Benzo(b)fluoranthe	25.00	22.07	88.30	
75 Benzo(k)fluoranthe	25.00	25.63	102.50	
76 Benzo(a)pyrene	25.00	21.70	86.80	
78 Indeno(1,2,3-cd)py	25.00	24.24	96.94	
79 Dibenzo(a,h)anthra	25.00	24.10	96.39	
80 Benzo(g,h,i)peryle	25.00	24.46	97.85	
90 N-Nitrosodimethyla	25.00	24.88	99.51	
91 Aniline	25.00	24.30	97.21	
93 Benzidine	25.00	27.55	110.21	
103 Pyridine	25.00	25.14	100.56	
105 1-methylnaphthalen	25.00	24.67	98.67	

OK

Data File: /chem1/nt6.i/20070503.b/icv0503.d

Date : 03-MAY-2007 14:24

Client ID:

Sample Info: ABN ICV

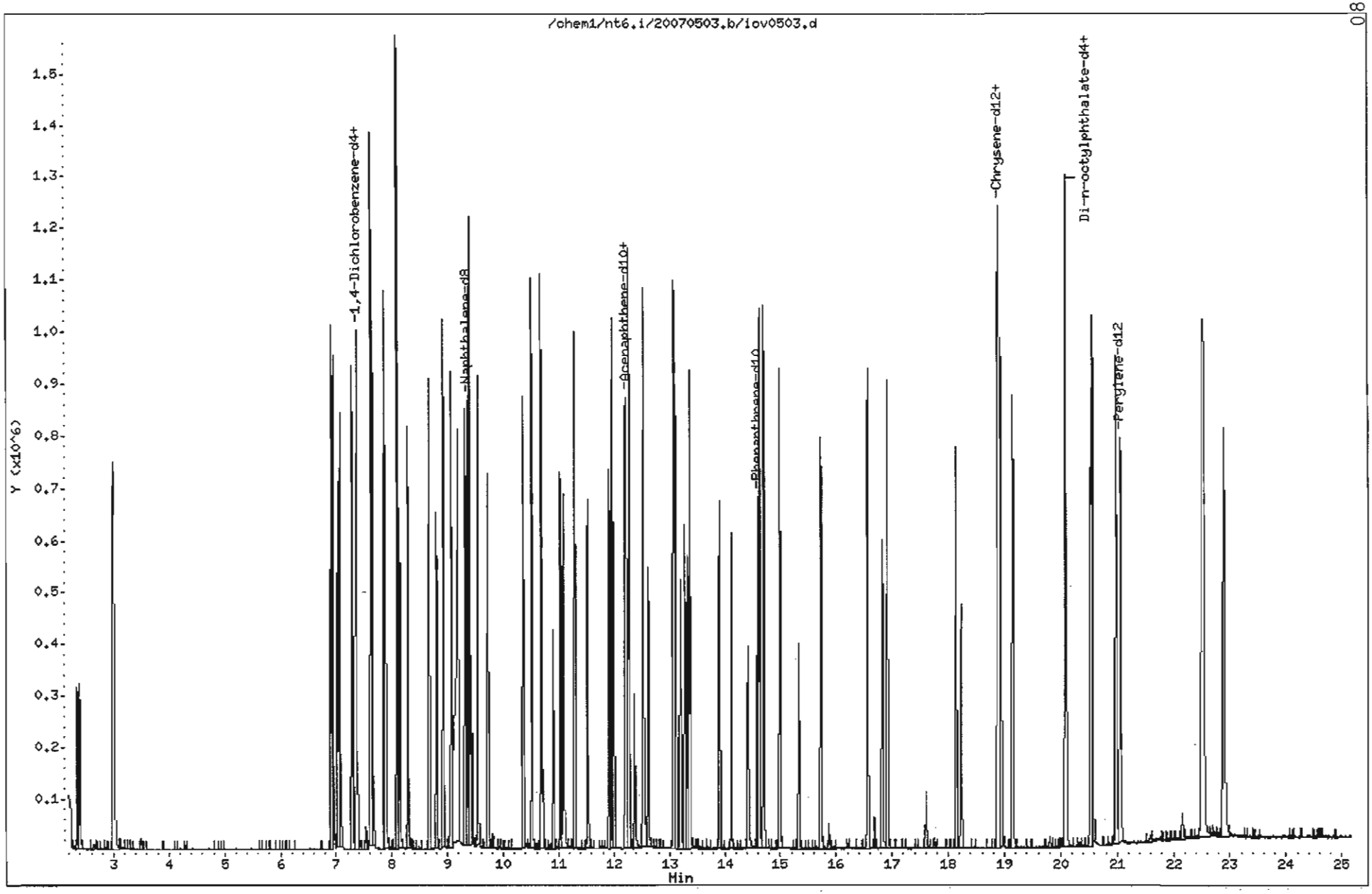
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32

0839



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/25/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 1059

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	2.342	2.302	0.100	1.7	20.0
Bis(2-Chloroethyl)ether	1.880	1.766	0.100	6.1	
2-Chlorophenol	1.656	1.645	0.100	0.7	
1,3-Dichlorobenzene	1.669	1.597	0.100	4.3	
1,4-Dichlorobenzene	1.684	1.590	0.100	5.6	20.0
1,2-Dichlorobenzene	1.588	1.439	0.100	9.4	
Benzyl alcohol	1.167	1.070	0.100	8.3	
2,2'-oxybis(1-Chloropropane)	2.821	2.809	0.100	0.4	
2-Methylphenol	1.576	1.534	0.100	2.7	
Hexachloroethane	0.734	0.672	0.100	8.4	
N-Nitroso-di-n-propylamine	1.211	1.226	0.050	-1.2	
4-Methylphenol	1.570	1.536	0.100	2.2	
Nitrobenzene	0.496	0.510	0.100	-2.8	
Isophorone	0.918	0.933	0.100	-1.6	
2-Nitrophenol	0.202	0.231	0.100	-14.4	20.0
2,4-Dimethylphenol	0.408	0.434	0.100	-6.4	
Bis(2-Chloroethoxy)methane	0.572	0.566	0.100	1.0	
2,4-Dichlorophenol	0.294	0.290	0.100	1.4	20.0
1,2,4-Trichlorobenzene	0.342	0.332	0.100	2.9	
Naphthalene	1.185	1.126	0.100	5.0	
Benzoic acid	0.273	0.307	0.100	-12.4	
4-Chloroaniline	0.524	0.506	0.100	3.4	
Hexachlorobutadiene	0.171	0.170	0.100	0.6	20.0
4-Chloro-3-methylphenol	0.354	0.357	0.100	-0.8	20.0
2-Methylnaphthalene	0.602	0.565	0.100	6.1	
Hexachlorocyclopentadiene	0.278	0.340	0.050	-22.3	
2,4,6-Trichlorophenol	0.406	0.422	0.100	-3.9	20.0
2,4,5-Trichlorophenol	0.432	0.436	0.100	-0.9	
2-Chloronaphthalene	1.295	1.237	0.100	4.5	
2-Nitroaniline	0.486	0.517	0.100	-6.4	
Acenaphthylene	2.109	1.996	0.100	5.4	
Dimethylphthalate	1.286	1.280	0.100	0.5	
2,6-Dinitrotoluene	0.268	0.307	0.100	-14.6	
Acenaphthene	1.262	1.204	0.100	4.6	20.0
3-Nitroaniline	0.368	0.368	0.100	0.0	
2,4-Dinitrophenol	0.064	0.172	0.050	-99.9	
Dibenzofuran	1.702	1.611	0.100	5.3	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/25/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 1059

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
4-Nitrophenol	0.209	0.201	0.050	3.8	
2,4-Dinitrotoluene	0.341	0.397	0.100	-16.4	
Fluorene	1.340	1.243	0.100	7.2	
4-Chlorophenyl-phenylether	0.632	0.605	0.100	4.3	
Diethylphthalate	1.281	1.246	0.100	2.7	
4-Nitroaniline	0.374	0.384	0.100	-2.7	
4,6-Dinitro-2-methylphenol	0.095	0.156	0.100	-64.2	
N-Nitrosodiphenylamine(1)	0.640	0.610	0.100	4.7	
4-Bromophenyl-phenylether	0.247	0.238	0.100	3.6	
Hexachlorobenzene	0.261	0.254	0.100	2.7	
Pentachlorophenol	0.155	0.160	0.100	-3.2	20.0
Phenanthrene	1.335	1.226	0.100	8.2	
Anthracene	1.379	1.280	0.100	7.2	
Carbazole	1.187	1.103	0.100	7.1	
Di-n-butylphthalate	1.464	1.502	0.100	-2.6	
Fluoranthene	1.266	1.187	0.100	6.2	20.0
Pyrene	1.659	1.753	0.100	-5.7	
Butylbenzylphthalate	0.780	0.905	0.100	-16.0	
Benzo(a)anthracene	1.494	1.472	0.100	1.5	
3,3'-Dichlorobenzidine	0.575	0.540	0.100	6.1	
Chrysene	1.511	1.425	0.100	5.7	
bis(2-Ethylhexyl)phthalate	0.685	0.732	0.100	-6.9	
Di-n-octylphthalate	1.188	1.129	0.100	5.0	20.0
Benzo(b)fluoranthene	1.297	1.325	0.100	-2.2	
Benzo(k)fluoranthene	1.246	1.250	0.100	-0.3	
Benzo(a)pyrene	1.298	1.237	0.100	4.7	20.0
Indeno(1,2,3-cd)pyrene	1.534	1.430	0.100	6.8	
Dibenzo(a,h)anthracene	1.271	1.212	0.100	4.6	
Benzo(g,h,i)perylene	1.406	1.322	0.100	6.0	
N-Nitrosodimethylamine	1.258	1.259	0.100	-0.1	
Aniline	2.991	2.901	0.100	3.0	
Benzidine	0.903	0.813	0.100	10.0	
Pyridine	2.187	2.217	0.100	-1.4	
1-methylnaphthalene	0.579	0.562	0.100	2.9	
Azobenzene (1,2-DP-Hydrazine	1.922	1.886	0.100	1.9	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/25/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 1059

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
2-Fluorophenol	1.818	1.826	0.100	-0.4	
Phenol-d5	2.133	2.094	0.100	1.8	
2-Chlorophenol-d4	1.475	1.426	0.100	3.3	
1,2-Dichlorobenzene-d4	0.902	0.877	0.100	2.8	
Nitrobenzene-d5	0.476	0.504	0.100	-5.9	
2-Fluorobiphenyl	1.350	1.313	0.100	2.7	
2,4,6-Tribromophenol	0.204	0.207	0.100	-1.5	
Terphenyl-d14	1.051	1.158	0.100	-10.2	

<- Outside QC limits

FORM VII SV-3

Data File: /chem1/nt6.i/20070525.b/cc0525.d
Report Date: 25-May-2007 11:36

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0525.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070525.b/SW846.m

Injection Date: 25-MAY-2007 10:59
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.81834	1.82621	0.010	-0.43327	100	Averaged
$ 2 Phenol-d5	2.13351	2.09389	0.010	1.85737	100	Averaged
3 Phenol	2.34216	2.30253	0.010	1.69176	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.47521	1.42626	0.010	3.31828	100	Averaged
4 Bis(2-Chloroethyl)ether	1.88037	1.76594	0.010	6.08548	100	Averaged
6 2-Chlorophenol	1.65561	1.64514	0.010	0.63197	100	Averaged
7 1,3-Dichlorobenzene	1.66889	1.59727	0.010	4.29179	100	Averaged
9 1,4-Dichlorobenzene	1.68385	1.58981	0.010	5.58507	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.90209	0.87673	0.010	2.81103	100	Averaged
12 1,2-Dichlorobenzene	1.58747	1.43865	0.010	9.37496	100	Averaged
11 Benzyl alcohol	1.16702	1.07004	0.010	8.30993	100	Averaged
14 2,2'-oxybis(1-Chloropropane	2.82111	2.80896	0.010	0.43052	100	Averaged
13 2-Methylphenol	1.57543	1.53441	0.010	2.60407	100	Averaged
17 Hexachloroethane	0.73423	0.67153	0.010	8.53858	100	Averaged
16 N-Nitroso-di-n-propylamine	1.21147	1.22639	0.050	-1.23112	100	Averaged
15 4-Methylphenol	1.57004	1.53557	0.010	2.19583	100	Averaged
$ 18 Nitrobenzene-d5	0.47590	0.50440	0.010	-5.98990	100	Averaged
19 Nitrobenzene	0.49641	0.50994	0.010	-2.72497	100	Averaged
20 Isophorone	0.91824	0.93328	0.010	-1.63865	100	Averaged
21 2-Nitrophenol	0.20251	0.23129	0.010	-14.21149	20.00000	Averaged
22 2,4-Dimethylphenol	0.40849	0.43361	0.010	-6.14932	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.57207	0.56578	0.010	1.09895	100	Averaged
24 Benzoic acid	0.27341	0.30684	0.010	-12.22870	100	Averaged
25 2,4-Dichlorophenol	0.29354	0.29019	0.010	1.14166	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.34251	0.33197	0.010	3.07803	100	Averaged
28 Naphthalene	1.18464	1.12642	0.010	4.91490	100	Averaged
29 4-Chloroaniline	0.52374	0.50595	0.010	3.39764	100	Averaged
30 Hexachlorobutadiene	0.17094	0.17004	0.010	0.52705	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35418	0.35700	0.010	-0.79710	20.00000	Averaged
32 2-Methylnaphthalene	0.60219	0.56498	0.010	6.17825	100	Averaged
33 Hexachlorocyclopentadiene	0.27779	0.34005	0.050	-22.41176	100	Averaged
34 2,4,6-Trichlorophenol	0.40575	0.42254	0.010	-4.13664	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43245	0.43630	0.010	-0.89133	100	Averaged
$ 36 2-Fluorobiphenyl	1.34981	1.31308	0.010	2.72134	100	Averaged
37 2-Chloronaphthalene	1.29527	1.23736	0.010	4.47091	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0525.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070525.b/SW846.m

Injection Date: 25-MAY-2007 10:59
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.48613	0.51747	0.010	-6.44535	100	Averaged	
39 Dimethylphthalate	1.28555	1.28050	0.010	0.39326	100	Averaged	
40 Acenaphthylene	2.10884	1.99653	0.010	5.32537	100	Averaged	
41 2,6-Dinitrotoluene	0.26841	0.30732	0.010	-14.49582	100	Averaged	
43 3-Nitroaniline	0.36771	0.36828	0.010	-0.15749	100	Averaged	
44 Acenaphthene	1.26208	1.20404	0.010	4.59853	20.00000	Averaged	
45 2,4-Dinitrophenol	0.06373	0.17190	0.050	-170	100	Averaged	<-
46 Dibenzofuran	1.70130	1.61121	0.010	5.29511	100	Averaged	
47 4-Nitrophenol	0.20890	0.20120	0.050	3.68517	100	Averaged	
48 2,4-Dinitrotoluene	0.34156	0.39726	0.010	-16.30709	100	Averaged	
50 Diethylphthalate	1.28116	1.24551	0.010	2.78314	100	Averaged	
49 Fluorene	1.34065	1.24343	0.010	7.25203	100	Averaged	
51 4-Chlorophenyl-phenylether	0.63175	0.60468	0.010	4.28578	100	Averaged	
52 4-Nitroaniline	0.37428	0.38433	0.010	-2.68507	100	Averaged	
53 4,6-Dinitro-2-methylphenol	0.09549	0.15625	0.010	-63.62892	100	Averaged	
54 N-Nitrosodiphenylamine	0.64008	0.61030	0.010	4.65256	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.20362	0.20716	0.010	-1.74179	100	Averaged	
56 4-Bromophenyl-phenylether	0.24697	0.23799	0.010	3.63784	100	Averaged	
57 Hexachlorobenzene	0.26085	0.25355	0.010	2.79923	100	Averaged	
58 Pentachlorophenol	0.15497	0.15953	0.010	-2.94334	20.00000	Averaged	
60 Phenanthrene	1.33473	1.22592	0.010	8.15221	100	Averaged	
61 Anthracene	1.37912	1.27969	0.010	7.20949	100	Averaged	
62 Carbazole	1.18673	1.10348	0.010	7.01518	100	Averaged	
63 Di-n-butylphthalate	1.46357	1.50172	0.010	-2.60707	100	Averaged	
64 Fluoranthene	1.26636	1.18661	0.010	6.29786	20.00000	Averaged	
65 Pyrene	1.65949	1.75318	0.010	-5.64576	100	Averaged	
$ 66 Terphenyl-d14	1.05089	1.15760	0.010	-10.15436	100	Averaged	
67 Butylbenzylphthalate	0.78026	0.90493	0.010	-15.97740	100	Averaged	
68 Benzo(a)anthracene	1.49398	1.47215	0.010	1.46116	100	Averaged	
70 3,3'-Dichlorobenzidine	0.57495	0.53955	0.010	6.15798	100	Averaged	
71 Chrysene	1.51130	1.42483	0.010	5.72148	100	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.68503	0.73251	0.010	-6.93170	100	Averaged	
73 Di-n-octylphthalate	1.18814	1.12900	0.010	4.97782	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.29675	1.32529	0.010	-2.20065	100	Averaged	
75 Benzo(k)fluoranthene	1.24572	1.25041	0.010	-0.37630	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0525.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070525.b/SW846.m

Injection Date: 25-MAY-2007 10:59
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	1.29795	1.23676	0.010	4.71455	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.53453	1.43050	0.010	6.77905	100	Averaged	
79 Dibenzo(a,h)anthracene	1.27096	1.21216	0.010	4.62602	100	Averaged	
80 Benzo(g,h,i)perylene	1.40575	1.32240	0.010	5.92918	100	Averaged	
90 N-Nitrosodimethylamine	1.25837	1.25922	0.010	-0.06735	100	Averaged	
103 Pyridine	2.18679	2.21712	0.010	-1.38716	100	Averaged	
91 Aniline	2.99135	2.90067	0.010	3.03134	100	Averaged	
105 1-methylnaphthalene	0.57952	0.56221	0.010	2.98692	100	Averaged	
93 Benzidine	0.90332	0.81350	0.010	9.94335	100	Averaged	
98 Retene	0.86016	0.93109	0.010	-8.24572	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.92178	1.88643	0.010	1.83952	100	Averaged	
144 alpha-Terpineol	0.39269	0.40411	0.010	-2.90970	100	Averaged	
143 1,4-Dioxane	0.82758	0.82343	0.010	0.50087	100	Averaged	
$ 137 d8-1,4-Dioxane	0.84549	++++	0.010	++++	100	Averaged	<-
133 Butylatedhydroxytoluene	0.95519	0.91218	0.010	4.50338	100	Averaged	
115 Tributyl Phosphate	1.43141	1.44227	0.010	-0.75844	100	Averaged	
116 Dibutyl Phenyl Phosphate	0.62712	0.65478	0.010	-4.41131	100	Averaged	
117 Butyl Diphenyl Phosphate	0.38488	0.45265	0.010	-17.60700	100	Averaged	
118 Triphenyl Phosphate	0.27520	0.29138	0.010	-5.87977	100	Averaged	
123 Acetophenone	2.22879	2.17975	0.010	2.20029	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070525.b/cc0525.d
Lab Smp Id: ABN 25
Inj Date : 25-MAY-2007 10:59
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070525.b/SW846.m
Meth Date : 25-May-2007 11:36 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/25/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	4.986	4.986	(0.724)	452141	25.0000	25.11
$ 2 Phenol-d5	99	6.524	6.524	(0.947)	518412	25.0000	24.54
3 Phenol	94	6.540	6.540	(0.950)	570070	25.0000	24.58
$ 5 2-Chlorophenol-d4	132	6.599	6.599	(0.958)	353119	25.0000	24.17
4 Bis(2-Chloroethyl)ether	93	6.588	6.588	(0.957)	437219	25.0000	23.48
6 2-Chlorophenol	128	6.626	6.626	(0.962)	407311	25.0000	24.84
7 1,3-Dichlorobenzene	146	6.823	6.823	(0.991)	395457	25.0000	23.93
* 8 1,4-Dichlorobenzene-d4	152	6.887	6.887	(1.000)	198067	20.0000	
9 1,4-Dichlorobenzene	146	6.914	6.914	(1.004)	393611	25.0000	23.60
$ 10 1,2-Dichlorobenzene-d4	152	7.181	7.181	(1.043)	217064	25.0000	24.30
12 1,2-Dichlorobenzene	146	7.202	7.202	(1.046)	356186	25.0000	22.66
11 Benzyl alcohol	108	7.192	7.192	(1.044)	264925	25.0000	22.92
14 2,2'-oxybis(1-Chloropropane)	45	7.443	7.443	(1.081)	695454	25.0000	24.89
13 2-Methylphenol	108	7.448	7.448	(1.081)	379894	25.0000	24.35
17 Hexachloroethane	117	7.678	7.678	(1.115)	166261	25.0000	22.87
16 N-Nitroso-di-n-propylamine	70	7.662	7.662	(1.112)	303634	25.0000	25.31
15 4-Methylphenol	108	7.683	7.683	(1.116)	380181	25.0000	24.45
$ 18 Nitrobenzene-d5	82	7.811	7.811	(0.869)	450641	25.0000	26.50
19 Nitrobenzene	77	7.838	7.838	(0.872)	455588	25.0000	25.68
20 Isophorone	82	8.223	8.223	(0.915)	833807	25.0000	25.41
21 2-Nitrophenol	139	8.351	8.351	(0.929)	206634	25.0000	28.55
22 2,4-Dimethylphenol	107	8.501	8.501	(0.946)	387393	25.0000	26.54
23 Bis(2-Chloroethoxy)methane	93	8.634	8.634	(0.961)	505474	25.0000	24.73
24 Benzoic acid	105	8.768	8.768	(0.976)	548270	50.0000	56.11
25 2,4-Dichlorophenol	162	8.741	8.741	(0.973)	259262	25.0000	24.71
26 1,2,4-Trichlorobenzene	180	8.853	8.853	(0.985)	296586	25.0000	24.23
* 27 Naphthalene-d8	136	8.907	8.907	(1.000)	714729	20.0000	(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
28 Naphthalene	128	8.933	8.933	(0.994)	1006357	25.0000	23.77
29 4-Chloroaniline	127	9.099	9.099	(1.012)	452019	25.0000	24.15
30 Hexachlorobutadiene	225	9.265	9.265	(1.031)	151912	25.0000	24.87
31 4-Chloro-3-methylphenol	107	9.938	9.938	(1.106)	318949	25.0000	25.20
32 2-Methylnaphthalene	141	10.050	10.050	(1.118)	504761	25.0000	23.46(B)
33 Hexachlorocyclopentadiene	237	10.434	10.434	(0.889)	147308	25.0000	30.60
34 2,4,6-Trichlorophenol	196	10.579	10.579	(0.901)	183044	25.0000	26.03
35 2,4,5-Trichlorophenol	196	10.632	10.632	(0.906)	189006	25.0000	25.22
$ 36 2-Fluorobiphenyl	172	10.702	10.702	(0.912)	568826	25.0000	24.32
37 2-Chloronaphthalene	162	10.819	10.819	(0.922)	536025	25.0000	23.88
38 2-Nitroaniline	65	11.065	11.065	(0.943)	224167	25.0000	26.61
39 Dimethylphthalate	163	11.460	11.460	(0.976)	554711	25.0000	24.90
40 Acenaphthylene	152	11.487	11.487	(0.979)	864898	25.0000	23.67
41 2,6-Dinitrotoluene	165	11.540	11.540	(0.983)	133131	25.0000	28.62
* 42 Acenaphthene-d10	164	11.738	11.738	(1.000)	346560	20.0000	
43 3-Nitroaniline	138	11.743	11.743	(1.000)	159541	25.0000	25.04
44 Acenaphthene	153	11.791	11.791	(1.005)	521590	25.0000	23.85
45 2,4-Dinitrophenol	184	11.909	11.909	(1.015)	148937	50.0000	134.9
46 Dibenzofuran	168	12.053	12.053	(1.027)	697977	25.0000	23.68
47 4-Nitrophenol	109	12.096	12.096	(1.030)	87161	25.0000	24.08
48 2,4-Dinitrotoluene	165	12.155	12.155	(1.035)	172093	25.0000	29.08
50 Diethylphthalate	149	12.614	12.614	(1.075)	539554	25.0000	24.30
49 Fluorene	166	12.603	12.603	(1.074)	538654	25.0000	23.19
51 4-Chlorophenyl-phenylether	204	12.646	12.646	(1.077)	261946	25.0000	23.93
52 4-Nitroaniline	138	12.732	12.732	(1.085)	166493	25.0000	25.67
53 4,6-Dinitro-2-methylphenol	198	12.806	12.806	(0.909)	196146	50.0000	81.81
54 N-Nitrosodiphenylamine	169	12.854	12.854	(0.912)	383057	25.0000	23.84
$ 55 2,4,6-Tribromophenol	330	13.025	13.025	(1.110)	89743	25.0000	25.44
56 4-Bromophenyl-phenylether	248	13.421	13.421	(0.952)	149374	25.0000	24.09
57 Hexachlorobenzene	284	13.618	13.618	(0.966)	159141	25.0000	24.30
58 Pentachlorophenol	266	13.928	13.928	(0.988)	100128	25.0000	25.74
* 59 Phenanthrene-d10	188	14.094	14.094	(1.000)	502123	20.0000	
60 Phenanthrene	178	14.126	14.126	(1.002)	769454	25.0000	22.96
61 Anthracene	178	14.201	14.201	(1.008)	803203	25.0000	23.20
62 Carbazole	167	14.500	14.500	(1.029)	692605	25.0000	23.25
63 Di-n-butylphthalate	149	15.253	15.253	(1.082)	942563	25.0000	25.65
64 Fluoranthene	202	16.049	16.049	(1.139)	744780	25.0000	23.43
65 Pyrene	202	16.396	16.396	(0.892)	746339	25.0000	26.41
$ 66 Terphenyl-d14	244	16.744	16.744	(0.911)	492798	25.0000	27.54
67 Butylbenzylphthalate	149	17.646	17.646	(0.960)	385232	25.0000	28.99
68 Benzo(a)anthracene	228	18.346	18.346	(0.999)	626701	25.0000	24.63
* 69 Chrysene-d12	240	18.373	18.373	(1.000)	340564	20.0000	
70 3,3'-Dichlorobenzidine	252	18.378	18.378	(1.000)	229688	25.0000	23.46
71 Chrysene	228	18.410	18.410	(1.002)	606559	25.0000	23.57
72 bis(2-Ethylhexyl)phthalate	149	18.661	18.661	(0.953)	519276	25.0000	26.73
* 134 Di-n-octylphthalate-d4	153	19.586	19.586	(1.000)	567119	20.0000	
73 Di-n-octylphthalate	149	19.596	19.596	(1.001)	800345	25.0000	23.76

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	19.992	19.992	(0.975)	623965	25.0000	25.55
75 Benzo(k)fluoranthene	252	20.024	20.024	(0.976)	588709	25.0000	25.09
76 Benzo(a)pyrene	252	20.430	20.430	(0.996)	582284	25.0000	23.82
* 77 Perylene-d12	264	20.510	20.510	(1.000)	376651	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.861	21.861	(1.066)	673500	25.0000	23.31
79 Dibenzo(a,h)anthracene	278	21.888	21.888	(1.067)	570703	25.0000	23.84
80 Benzo(g,h,i)perylene	276	22.182	22.182	(1.082)	622604	25.0000	23.52
90 N-Nitrosodimethylamine	74	2.421	2.421	(0.352)	311762	25.0000	25.02
103 Pyridine	79	2.411	2.411	(0.350)	548923	25.0000	25.35
91 Aniline	93	6.460	6.460	(0.938)	718159	25.0000	24.24
105 1-methylnaphthalene	141	10.215	10.215	(1.137)	502286	25.0000	24.25
93 Benzidine	184	16.322	16.322	(0.888)	346310	25.0000	22.51
98 Retene	219	16.979	16.979	(0.924)	396369	25.0000	27.06
111 Azobenzene (1,2-DP-Hydrazine)	77	12.897	12.897	(1.099)	817200	25.0000	24.54
144 alpha-Terpineol	59	8.987	8.987	(1.000)	361040	25.0000	25.73
143 1,4-Dioxane	88	1.924	1.924	(0.279)	203868	25.0000	24.87
$ 137 d8-1,4-Dioxane	96	Compound Not Detected.					
133 Butylatedhydroxytoluene	205	11.952	11.952	(1.018)	395155	25.0000	23.87
115 Tributyl Phosphate	99	12.999	12.999	(0.922)	905246	25.0000	25.19
116 Dibutyl Phenyl Phosphate	175	14.703	14.703	(1.043)	410977	25.0000	26.10
117 Butyl Diphenyl Phosphate	94	16.364	16.364	(0.891)	192694	25.0000	29.40
118 Triphenyl Phosphate	326	17.945	17.945	(0.977)	124041	25.0000	26.47
123 Acetophenone	105	7.587	7.587	(1.102)	539671	25.0000	24.45

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: cc0525.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info:

Calibration Date: 25-MAY-2007
Calibration Time: 10:59

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	198067	99034	396134	198067	0.00
27 Naphthalene-d8	714729	357364	1429458	714729	0.00
42 Acenaphthene-d10	346560	173280	693120	346560	0.00
59 Phenanthrene-d10	502123	251062	1004246	502123	0.00
69 Chrysene-d12	340564	170282	681128	340564	0.00
134 Di-n-octylphthala	567119	283560	1134238	567119	0.00
77 Perylene-d12	376651	188326	753302	376651	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.89	6.39	7.39	6.89	0.00
27 Naphthalene-d8	8.91	8.41	9.41	8.91	0.00
42 Acenaphthene-d10	11.74	11.24	12.24	11.74	0.00
59 Phenanthrene-d10	14.09	13.59	14.59	14.09	0.00
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
134 Di-n-octylphthala	19.59	19.09	20.09	19.59	0.00
77 Perylene-d12	20.51	20.01	21.01	20.51	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/20070525.b/cc0525.d

Date : 25-MAY-2007 10:59

Client ID:

Sample Info: ABN 25

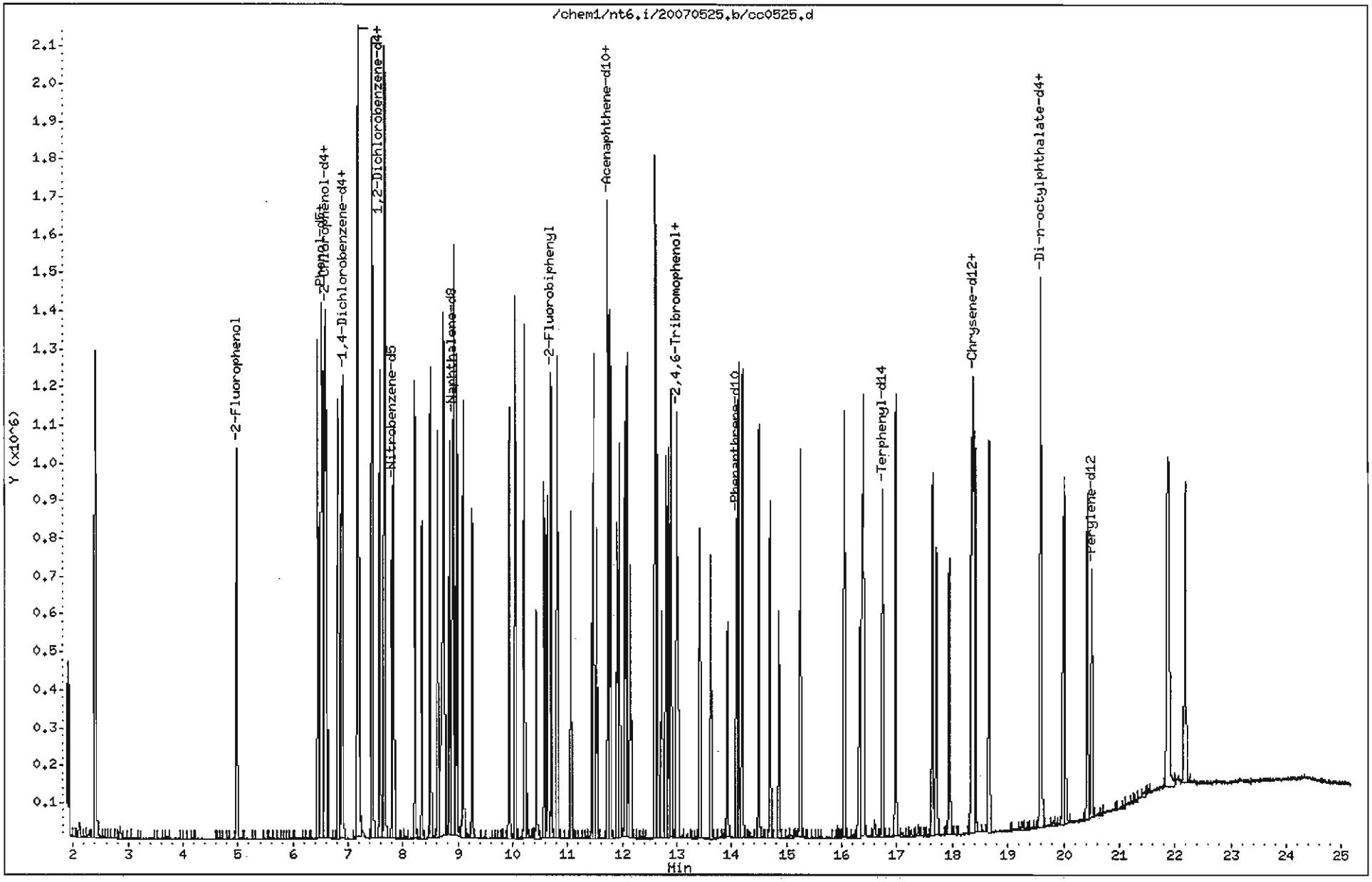
Column phase: ZB-5

Instrument: nt6.i

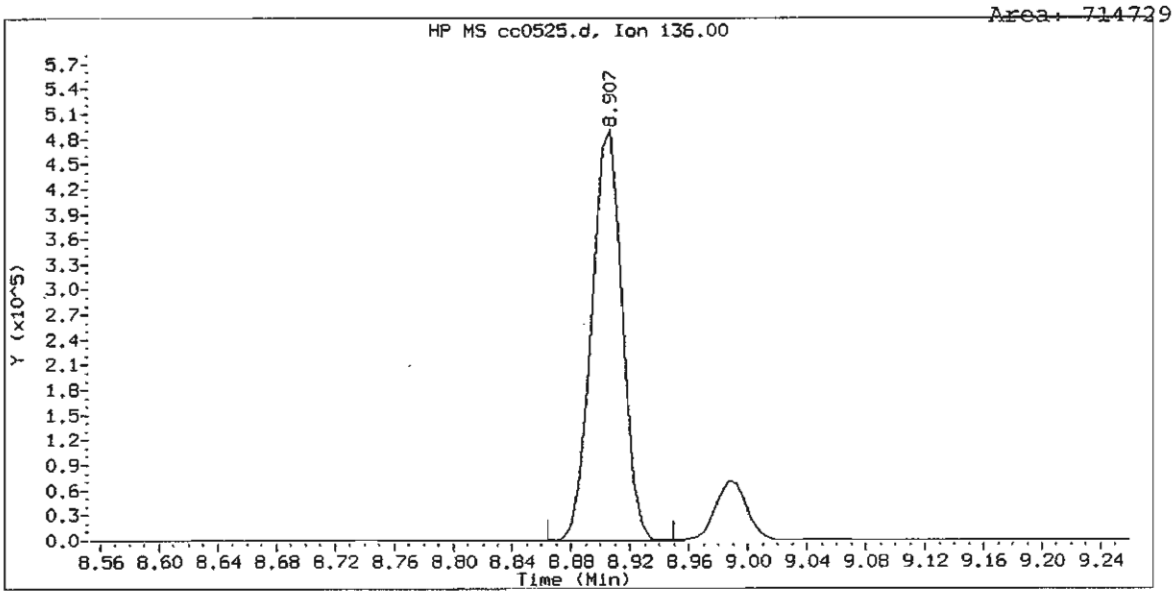
Operator: LJR/VTS

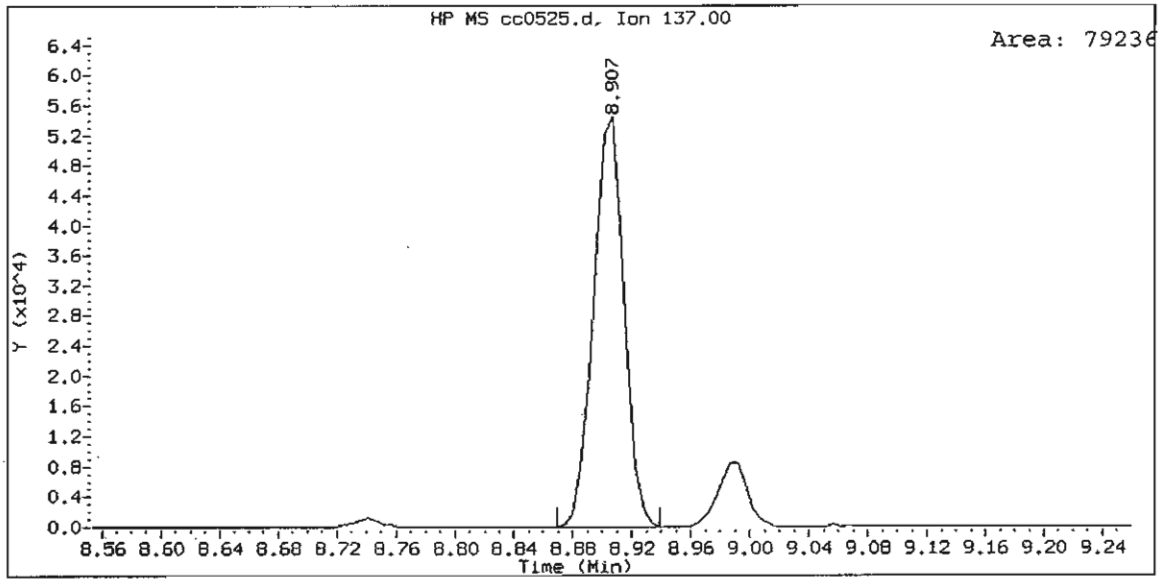
Column diameter: 0.32

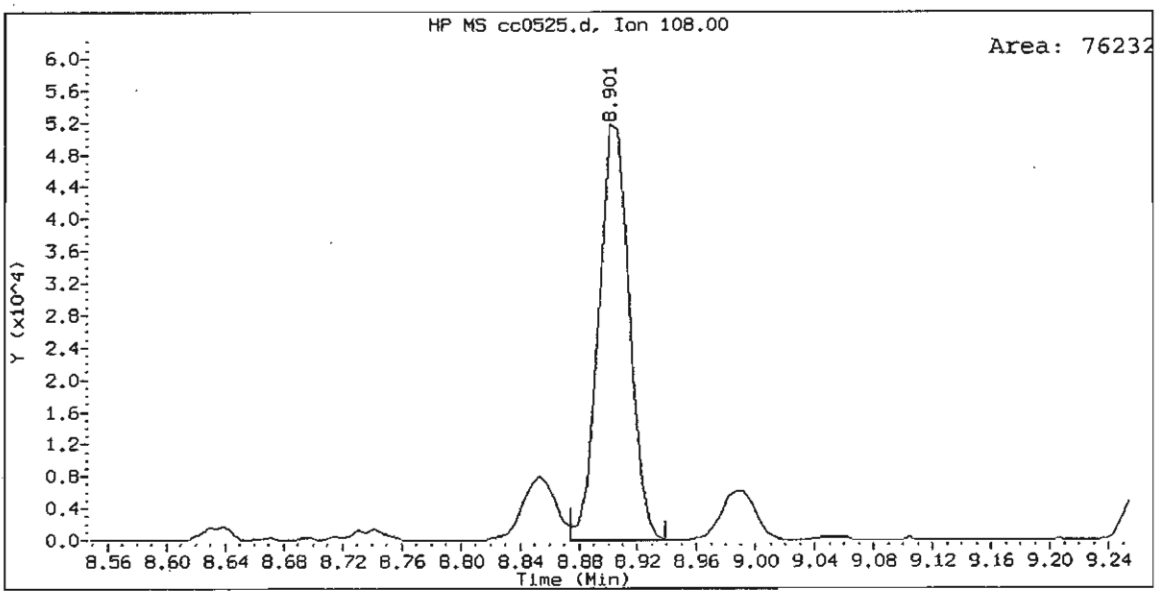
0850



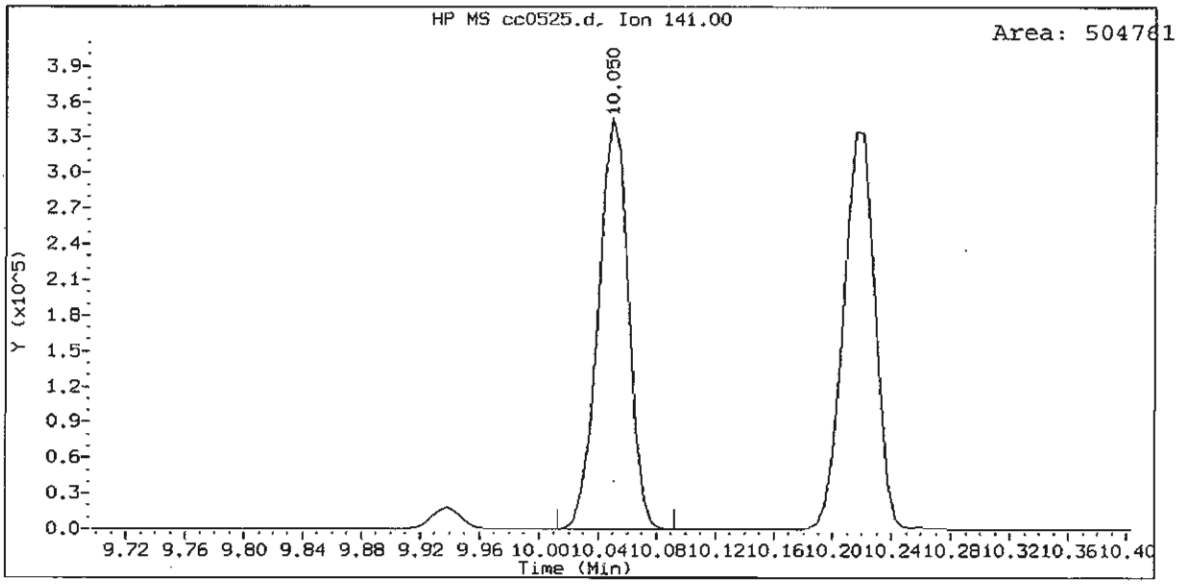
ABN 25, /chem1/nt6.i/20070525.b/cc0525.d
Naphthalene-d8 Amount: 20.00

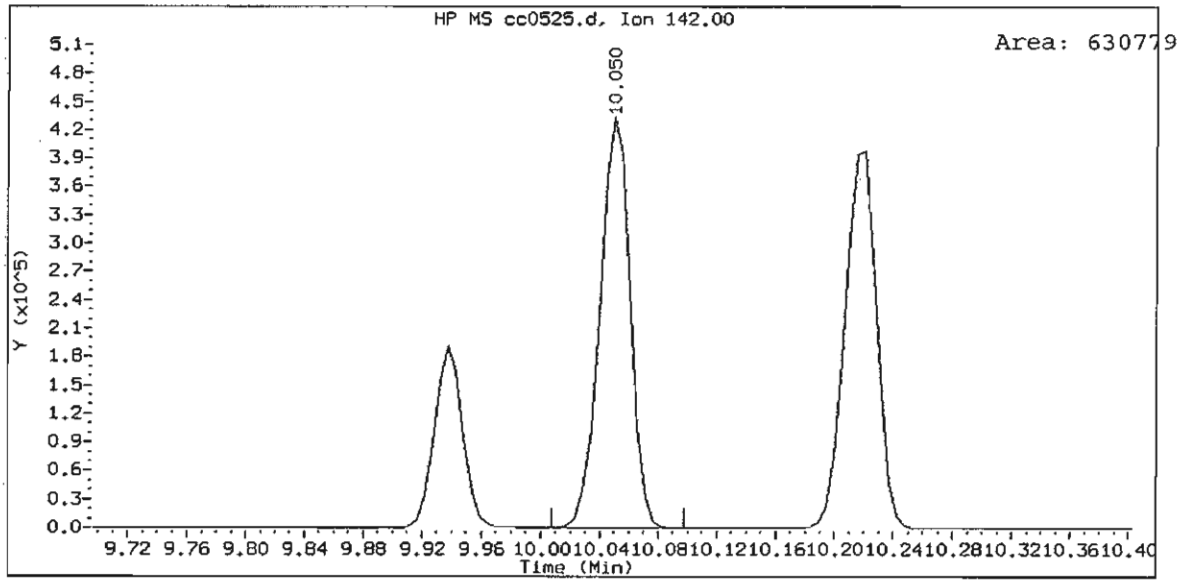






ABN 25, /chem1/nt6.i/20070525.b/cc0525.d
2-Methylnaphthalene Amount: 23.46





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

Data file: /chem1/nt6.i/20070525.b/ddt.b/cc0525.d
Method: /chem1/nt6.i/20070525.b/ddt.b/sw846ddt.m
Analysis Date: 25-MAY-2007 10:59

ARI ID:
Misc:
Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	13.928	100128
Benzidine	16.322	346310
4,4'-DDE	----	----
4,4'-DDD	17.256	4747
4,4'-DDT	17.716	242461

JK
5/25/07

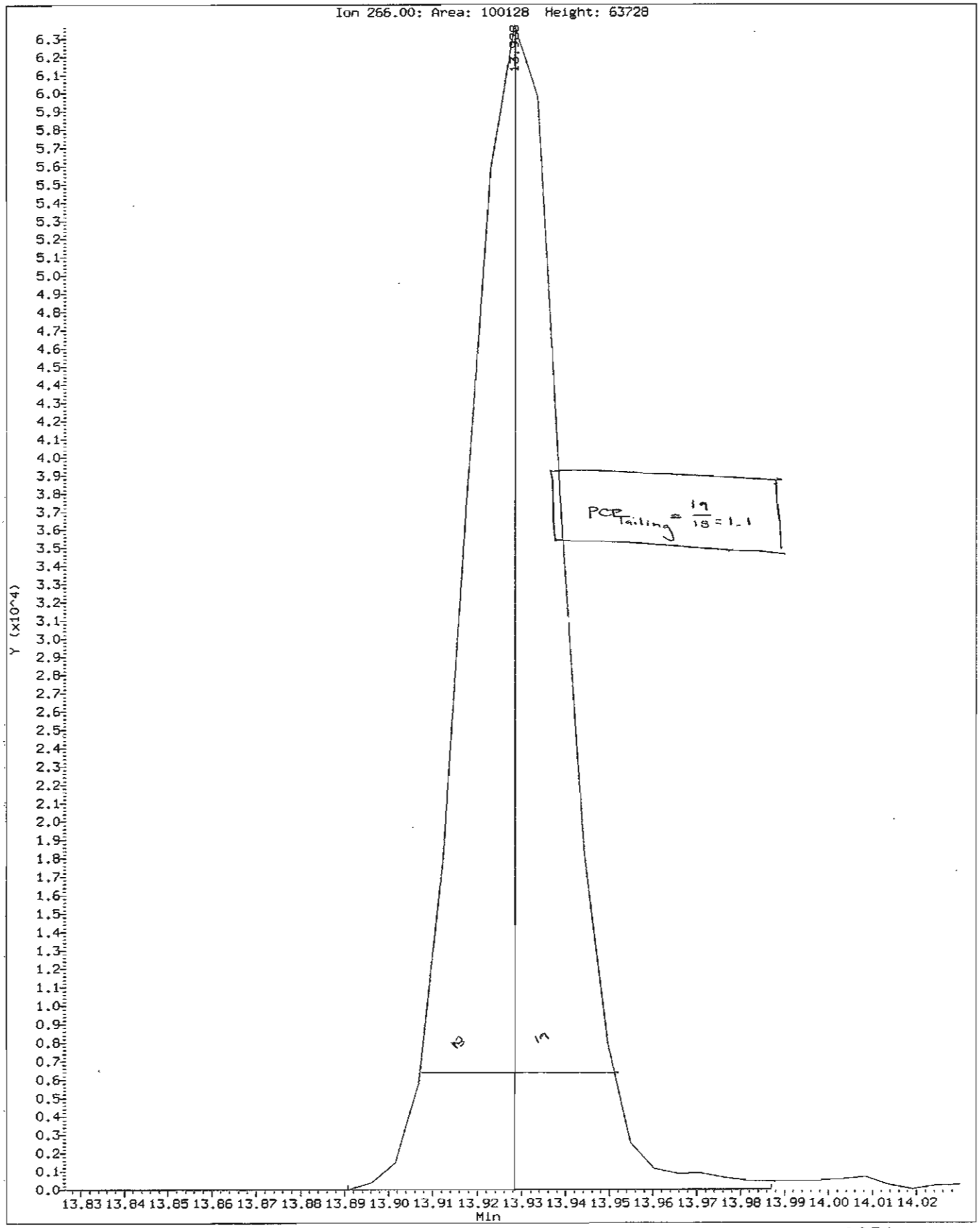
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 4747) * 100}{(0 + 4747 + 242461)}$$

DDT Percent Breakdown = 1.9 %

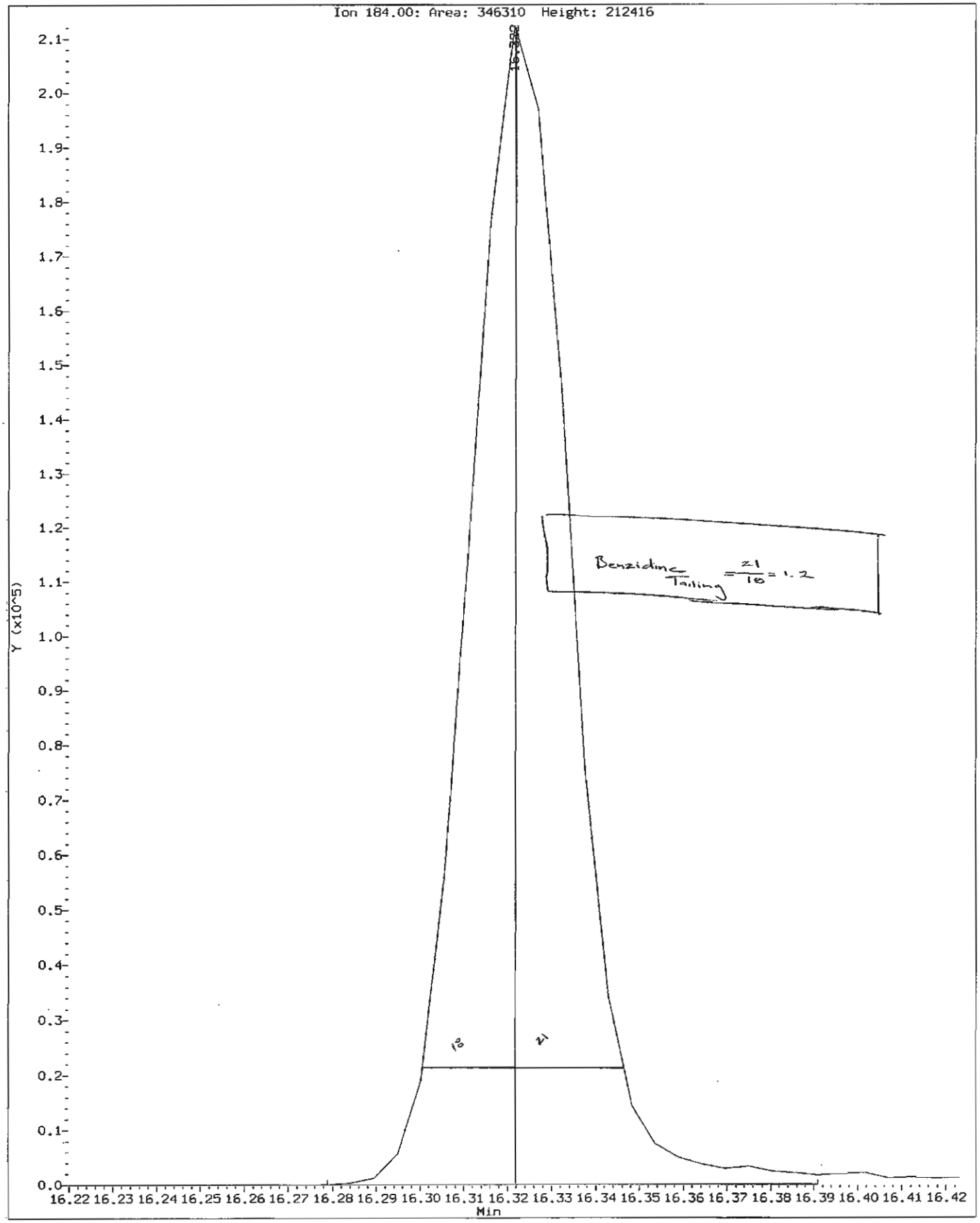
Data File: /chem1/nt6.i/20070525.b/ddt.b/cc0525.d
Injection Date: 25-MAY-2007 10:59
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20070525.b/ddt.b/cc0525.d
Injection Date: 25-MAY-2007 10:59
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/26/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0930

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	2.342	2.273	0.100	2.9	20.0
Bis(2-Chloroethyl)ether	1.880	1.786	0.100	5.0	
2-Chlorophenol	1.656	1.646	0.100	0.6	
1,3-Dichlorobenzene	1.669	1.637	0.100	1.9	
1,4-Dichlorobenzene	1.684	1.616	0.100	4.0	20.0
1,2-Dichlorobenzene	1.588	1.474	0.100	7.2	
Benzyl alcohol	1.167	0.958	0.100	17.9	
2,2'-oxybis(1-Chloropropane)	2.821	2.842	0.100	-0.7	
2-Methylphenol	1.576	1.544	0.100	2.0	
Hexachloroethane	0.734	0.678	0.100	7.6	
N-Nitroso-di-n-propylamine	1.211	1.241	0.050	-2.5	
4-Methylphenol	1.570	1.560	0.100	0.6	
Nitrobenzene	0.496	0.505	0.100	-1.8	
Isophorone	0.918	0.932	0.100	-1.5	
2-Nitrophenol	0.202	0.229	0.100	-13.4	20.0
2,4-Dimethylphenol	0.408	0.430	0.100	-5.4	
Bis(2-Chloroethoxy)methane	0.572	0.573	0.100	-0.2	
2,4-Dichlorophenol	0.294	0.295	0.100	-0.3	20.0
1,2,4-Trichlorobenzene	0.342	0.329	0.100	3.8	
Naphthalene	1.185	1.118	0.100	5.6	
Benzoic acid	0.273	0.311	0.100	-13.9	
4-Chloroaniline	0.524	0.516	0.100	1.5	
Hexachlorobutadiene	0.171	0.169	0.100	1.2	20.0
4-Chloro-3-methylphenol	0.354	0.370	0.100	-4.5	20.0
2-Methylnaphthalene	0.602	0.568	0.100	5.6	
Hexachlorocyclopentadiene	0.278	0.338	0.050	-21.6	
2,4,6-Trichlorophenol	0.406	0.417	0.100	-2.7	20.0
2,4,5-Trichlorophenol	0.432	0.434	0.100	-0.5	
2-Chloronaphthalene	1.295	1.236	0.100	4.6	
2-Nitroaniline	0.486	0.533	0.100	-9.7	
Acenaphthylene	2.109	1.983	0.100	6.0	
Dimethylphthalate	1.286	1.295	0.100	-0.7	
2,6-Dinitrotoluene	0.268	0.314	0.100	-17.2	
Acenaphthene	1.262	1.213	0.100	3.9	20.0
3-Nitroaniline	0.368	0.382	0.100	-3.8	
2,4-Dinitrophenol	0.064	0.141	0.050	-99.9	
Dibenzofuran	1.702	1.639	0.100	3.7	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/26/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0930

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
4-Nitrophenol	0.209	0.193	0.050	7.6	
2,4-Dinitrotoluene	0.341	0.398	0.100	-16.7	
Fluorene	1.340	1.263	0.100	5.7	
4-Chlorophenyl-phenylether	0.632	0.612	0.100	3.2	
Diethylphthalate	1.281	1.258	0.100	1.8	
4-Nitroaniline	0.374	0.379	0.100	-1.3	
4,6-Dinitro-2-methylphenol	0.095	0.134	0.100	-41.0	
N-Nitrosodiphenylamine(1)	0.640	0.624	0.100	2.5	
4-Bromophenyl-phenylether	0.247	0.233	0.100	5.7	
Hexachlorobenzene	0.261	0.249	0.100	4.6	
Pentachlorophenol	0.155	0.142	0.100	8.4	20.0
Phenanthrene	1.335	1.224	0.100	8.3	
Anthracene	1.379	1.262	0.100	8.5	
Carbazole	1.187	1.081	0.100	8.9	
Di-n-butylphthalate	1.464	1.464	0.100	0.0	
Fluoranthene	1.266	1.132	0.100	10.6	20.0
Pyrene	1.659	1.756	0.100	-5.8	
Butylbenzylphthalate	0.780	0.899	0.100	-15.2	
Benzo(a)anthracene	1.494	1.484	0.100	0.7	
3,3'-Dichlorobenzidine	0.575	0.550	0.100	4.3	
Chrysene	1.511	1.429	0.100	5.4	
bis(2-Ethylhexyl)phthalate	0.685	0.728	0.100	-6.3	
Di-n-octylphthalate	1.188	1.121	0.100	5.6	20.0
Benzo(b)fluoranthene	1.297	1.311	0.100	-1.1	
Benzo(k)fluoranthene	1.246	1.288	0.100	-3.4	
Benzo(a)pyrene	1.298	1.240	0.100	4.5	20.0
Indeno(1,2,3-cd)pyrene	1.534	1.376	0.100	10.3	
Dibenzo(a,h)anthracene	1.271	1.156	0.100	9.0	
Benzo(g,h,i)perylene	1.406	1.210	0.100	13.9	
N-Nitrosodimethylamine	1.258	1.258	0.100	0.0	
Aniline	2.991	2.947	0.100	1.5	
Benzidine	0.903	0.892	0.100	1.2	
Pyridine	2.187	2.138	0.100	2.2	
1-methylnaphthalene	0.579	0.565	0.100	2.4	
Azobenzene (1,2-DP-Hydrazine	1.922	1.936	0.100	-0.7	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/26/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0930

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
2-Fluorophenol	1.818	1.807	0.100	0.6	
Phenol-d5	2.133	2.107	0.100	1.2	
2-Chlorophenol-d4	1.475	1.407	0.100	4.6	
1,2-Dichlorobenzene-d4	0.902	0.882	0.100	2.2	
Nitrobenzene-d5	0.476	0.503	0.100	-5.7	
2-Fluorobiphenyl	1.350	1.313	0.100	2.7	
2,4,6-Tribromophenol	0.204	0.204	0.100	0.0	
Terphenyl-d14	1.051	1.154	0.100	-9.8	

<- Outside QC limits

FORM VII SV-3

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0526.d
Analysis Type:
Lab Sample ID: CC0526
Method: /chem1/nt6.i/20070526.b/SW846.m

Injection Date: 26-MAY-2007 09:30
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.81834	1.80732	0.010	0.60582	100	Averaged
$ 2 Phenol-d5	2.13351	2.10670	0.010	1.25654	100	Averaged
3 Phenol	2.34216	2.27292	0.010	2.95613	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.47521	1.40674	0.010	4.64175	100	Averaged
4 Bis(2-Chloroethyl)ether	1.88037	1.78608	0.010	5.01460	100	Averaged
6 2-Chlorophenol	1.65561	1.64591	0.010	0.58563	100	Averaged
7 1,3-Dichlorobenzene	1.66889	1.63714	0.010	1.90280	100	Averaged
9 1,4-Dichlorobenzene	1.68385	1.61593	0.010	4.03407	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.90209	0.88229	0.010	2.19448	100	Averaged
12 1,2-Dichlorobenzene	1.58747	1.47433	0.010	7.12705	100	Averaged
11 Benzyl alcohol	1.16702	0.95758	0.010	17.94694	100	Averaged
14 2,2'-oxybis(1-Chloropropane	2.82111	2.84156	0.010	-0.72480	100	Averaged
13 2-Methylphenol	1.57543	1.54410	0.010	1.98855	100	Averaged
17 Hexachloroethane	0.73423	0.67764	0.010	7.70754	100	Averaged
16 N-Nitroso-di-n-propylamine	1.21147	1.24068	0.050	-2.41094	100	Averaged
15 4-Methylphenol	1.57004	1.56031	0.010	0.61948	100	Averaged
$ 18 Nitrobenzene-d5	0.47590	0.50276	0.010	-5.64471	100	Averaged
19 Nitrobenzene	0.49641	0.50542	0.010	-1.81435	100	Averaged
20 Isophorone	0.91824	0.93233	0.010	-1.53457	100	Averaged
21 2-Nitrophenol	0.20251	0.22922	0.010	-13.19037	20.00000	Averaged
22 2,4-Dimethylphenol	0.40849	0.42976	0.010	-5.20686	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.57207	0.57270	0.010	-0.11003	100	Averaged
24 Benzoic acid	0.27341	0.31128	0.010	-13.85129	100	Averaged
25 2,4-Dichlorophenol	0.29354	0.29484	0.010	-0.44268	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.34251	0.32879	0.010	4.00792	100	Averaged
28 Naphthalene	1.18464	1.11767	0.010	5.65362	100	Averaged
29 4-Chloroaniline	0.52374	0.51631	0.010	1.41960	100	Averaged
30 Hexachlorobutadiene	0.17094	0.16877	0.010	1.26899	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35418	0.37024	0.010	-4.53391	20.00000	Averaged
32 2-Methylnaphthalene	0.60219	0.56807	0.010	5.66578	100	Averaged
33 Hexachlorocyclopentadiene	0.27779	0.33857	0.050	-21.87871	100	Averaged
34 2,4,6-Trichlorophenol	0.40575	0.41712	0.010	-2.80212	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43245	0.43364	0.010	-0.27476	100	Averaged
$ 36 2-Fluorobiphenyl	1.34981	1.31291	0.010	2.73397	100	Averaged
37 2-Chloronaphthalene	1.29527	1.23660	0.010	4.52977	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0526.d
Analysis Type:
Lab Sample ID: CC0526
Method: /chem1/nt6.i/20070526.b/SW846.m

Injection Date: 26-MAY-2007 09:30
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.48613	0.53310	0.010	-9.66169	100	Averaged	
39 Dimethylphthalate	1.28555	1.29487	0.010	-0.72473	100	Averaged	
40 Acenaphthylene	2.10884	1.98338	0.010	5.94899	100	Averaged	
41 2,6-Dinitrotoluene	0.26841	0.31407	0.010	-17.01139	100	Averaged	
43 3-Nitroaniline	0.36771	0.38243	0.010	-4.00478	100	Averaged	
44 Acenaphthene	1.26208	1.21277	0.010	3.90681	20.00000	Averaged	
45 2,4-Dinitrophenol	0.06373	0.14101	0.050	-121	100	Averaged	<-
46 Dibenzofuran	1.70130	1.63875	0.010	3.67659	100	Averaged	
47 4-Nitrophenol	0.20890	0.19347	0.050	7.38556	100	Averaged	
48 2,4-Dinitrotoluene	0.34156	0.39782	0.010	-16.47133	100	Averaged	
50 Diethylphthalate	1.28116	1.25753	0.010	1.84475	100	Averaged	
49 Fluorene	1.34065	1.26310	0.010	5.78479	100	Averaged	
51 4-Chlorophenyl-phenylether	0.63175	0.61185	0.010	3.14975	100	Averaged	
52 4-Nitroaniline	0.37428	0.37880	0.010	-1.20752	100	Averaged	
53 4,6-Dinitro-2-methylphenol	0.09549	0.13352	0.010	-39.82729	100	Averaged	
54 N-Nitrosodiphenylamine	0.64008	0.62438	0.010	2.45223	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.20362	0.20452	0.010	-0.44215	100	Averaged	
56 4-Bromophenyl-phenylether	0.24697	0.23262	0.010	5.80941	100	Averaged	
57 Hexachlorobenzene	0.26085	0.24924	0.010	4.44972	100	Averaged	
58 Pentachlorophenol	0.15497	0.14222	0.010	8.22418	20.00000	Averaged	
60 Phenanthrene	1.33473	1.22374	0.010	8.31597	100	Averaged	
61 Anthracene	1.37912	1.26224	0.010	8.47501	100	Averaged	
62 Carbazole	1.18673	1.08067	0.010	8.93749	100	Averaged	
63 Di-n-butylphthalate	1.46357	1.46418	0.010	-0.04157	100	Averaged	
64 Fluoranthene	1.26636	1.13247	0.010	10.57332	20.00000	Averaged	
65 Pyrene	1.65949	1.75659	0.010	-5.85123	100	Averaged	
$ 66 Terphenyl-d14	1.05089	1.15435	0.010	-9.84458	100	Averaged	
67 Butylbenzylphthalate	0.78026	0.89948	0.010	-15.27954	100	Averaged	
68 Benzo(a)anthracene	1.49398	1.48370	0.010	0.68767	100	Averaged	
70 3,3'-Dichlorobenzidine	0.57495	0.55020	0.010	4.30453	100	Averaged	
71 Chrysene	1.51130	1.42911	0.010	5.43875	100	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.68503	0.72813	0.010	-6.29285	100	Averaged	
73 Di-n-octylphthalate	1.18814	1.12125	0.010	5.62994	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.29675	1.31133	0.010	-1.12385	100	Averaged	
75 Benzo(k)fluoranthene	1.24572	1.28834	0.010	-3.42157	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0526.d
Analysis Type:
Lab Sample ID: CC0526
Method: /chem1/nt6.i/20070526.b/SW846.m

Injection Date: 26-MAY-2007 09:30
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
76 Benzo(a)pyrene	1.29795	1.24039	0.010	4.43466	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.53453	1.37639	0.010	10.30532	100	Averaged
79 Dibenzo(a,h)anthracene	1.27096	1.15652	0.010	9.00370	100	Averaged
80 Benzo(g,h,i)perylene	1.40575	1.21055	0.010	13.88561	100	Averaged
90 N-Nitrosodimethylamine	1.25837	1.25821	0.010	0.01279	100	Averaged
91 Aniline	2.99135	2.94736	0.010	1.47047	100	Averaged
93 Benzidine	0.90332	0.89255	0.010	1.19243	100	Averaged
103 Pyridine	2.18679	2.13783	0.010	2.23896	100	Averaged
105 1-methylnaphthalene	0.57952	0.56540	0.010	2.43609	100	Averaged
111 Azobenzene (1,2-DP-Hydrazin	1.92178	1.93600	0.010	-0.73991	100	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/cc0526.d
Lab Smp Id: CC0526
Inj Date : 26-MAY-2007 09:30
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : CC0526
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 26-May-2007 10:06 van
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 2
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: SONIC.sub
Target Version: 3.50
Processing Host: cserv3

LJK 5/29/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	4.981	4.981	(0.724)	490210	25.0000	24.85
$ 2 Phenol-d5	99	6.514	6.514	(0.946)	571413	25.0000	24.69
3 Phenol	94	6.536	6.536	(0.950)	616497	25.0000	24.26
$ 5 2-Chlorophenol-d4	132	6.595	6.595	(0.958)	381557	25.0000	23.84
4 Bis(2-Chloroethyl)ether	93	6.584	6.584	(0.957)	484449	25.0000	23.75
6 2-Chlorophenol	128	6.621	6.621	(0.962)	446430	25.0000	24.85
7 1,3-Dichlorobenzene	146	6.824	6.824	(0.991)	444049	25.0000	24.52
* 8 1,4-Dichlorobenzene-d4	152	6.883	6.883	(1.000)	216988	20.0000	
9 1,4-Dichlorobenzene	146	6.910	6.910	(1.004)	438297	25.0000	23.99
$ 10 1,2-Dichlorobenzene-d4	152	7.177	7.177	(1.043)	239309	25.0000	24.45
12 1,2-Dichlorobenzene	146	7.198	7.198	(1.046)	399892	25.0000	23.22
11 Benzyl alcohol	108	7.188	7.188	(1.044)	259729	25.0000	20.51
14 2,2'-oxybis(1-Chloropropane)	45	7.444	7.444	(1.081)	770732	25.0000	25.18
13 2-Methylphenol	108	7.444	7.444	(1.081)	418816	25.0000	24.50
17 Hexachloroethane	117	7.674	7.674	(1.115)	183799	25.0000	23.07
16 N-Nitroso-di-n-propylamine	70	7.658	7.658	(1.113)	336517	25.0000	25.60
15 4-Methylphenol	108	7.674	7.674	(1.115)	423213	25.0000	24.85
$ 18 Nitrobenzene-d5	82	7.807	7.807	(0.877)	502398	25.0000	26.41
19 Nitrobenzene	77	7.834	7.834	(0.880)	505055	25.0000	25.45
20 Isophorone	82	8.219	8.219	(0.923)	931654	25.0000	25.38
21 2-Nitrophenol	139	8.347	8.347	(0.938)	229052	25.0000	28.30
22 2,4-Dimethylphenol	107	8.496	8.496	(0.954)	429450	25.0000	26.30
23 Bis(2-Chloroethoxy)methane	93	8.630	8.630	(0.969)	572281	25.0000	25.03
24 Benzoic acid	105	8.763	8.763	(0.984)	622103	50.0000	56.93
25 2,4-Dichlorophenol	162	8.737	8.737	(0.981)	294630	25.0000	25.11
26 1,2,4-Trichlorobenzene	180	8.854	8.854	(0.995)	328547	25.0000	24.00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 27 Naphthalene-d8	136	8.902	8.902	(1.000)	799420	20.0000	
28 Naphthalene	128	8.934	8.934	(1.004)	1116860	25.0000	23.59
29 4-Chloroaniline	127	9.095	9.095	(1.022)	515933	25.0000	24.65
30 Hexachlorobutadiene	225	9.266	9.266	(1.041)	168645	25.0000	24.68
31 4-Chloro-3-methylphenol	107	9.933	9.933	(1.116)	369968	25.0000	26.13
32 2-Methylnaphthalene	141	10.046	10.046	(1.128)	567656	25.0000	23.58
33 Hexachlorocyclopentadiene	237	10.430	10.430	(0.889)	165074	25.0000	30.47
34 2,4,6-Trichlorophenol	196	10.574	10.574	(0.901)	203377	25.0000	25.70
35 2,4,5-Trichlorophenol	196	10.628	10.628	(0.906)	211427	25.0000	25.07
$ 36 2-Fluorobiphenyl	172	10.703	10.703	(0.912)	640135	25.0000	24.32
37 2-Chloronaphthalene	162	10.815	10.815	(0.922)	602928	25.0000	23.87
38 2-Nitroaniline	65	11.061	11.061	(0.943)	259925	25.0000	27.42
39 Dimethylphthalate	163	11.456	11.456	(0.976)	631339	25.0000	25.18
40 Acenaphthylene	152	11.483	11.483	(0.979)	967037	25.0000	23.51
41 2,6-Dinitrotoluene	165	11.536	11.536	(0.983)	153132	25.0000	29.25
* 42 Acenaphthene-d10	164	11.734	11.734	(1.000)	390056	20.0000	
43 3-Nitroaniline	138	11.739	11.739	(1.000)	186462	25.0000	26.00
44 Acenaphthene	153	11.787	11.787	(1.005)	591310	25.0000	24.02
45 2,4-Dinitrophenol	184	11.905	11.905	(1.015)	137507	50.0000	110.6
46 Dibenzofuran	168	12.049	12.049	(1.027)	799004	25.0000	24.08
47 4-Nitrophenol	109	12.086	12.086	(1.030)	94331	25.0000	23.15
48 2,4-Dinitrotoluene	165	12.156	12.156	(1.036)	193965	25.0000	29.12
50 Diethylphthalate	149	12.610	12.610	(1.075)	613134	25.0000	24.54
49 Fluorene	166	12.599	12.599	(1.074)	615850	25.0000	23.55
51 4-Chlorophenyl-phenylether	204	12.642	12.642	(1.077)	298321	25.0000	24.21
52 4-Nitroaniline	138	12.727	12.727	(1.085)	184692	25.0000	25.30
53 4,6-Dinitro-2-methylphenol	198	12.802	12.802	(0.909)	191567	50.0000	69.91
54 N-Nitrosodiphenylamine	169	12.856	12.856	(0.913)	447901	25.0000	24.39
$ 55 2,4,6-Tribromophenol	330	13.021	13.021	(1.110)	99716	25.0000	25.11
56 4-Bromophenyl-phenylether	248	13.416	13.416	(0.953)	166873	25.0000	23.55
57 Hexachlorobenzene	284	13.614	13.614	(0.967)	178794	25.0000	23.89
58 Pentachlorophenol	266	13.924	13.924	(0.989)	102022	25.0000	22.94
* 59 Phenanthrene-d10	188	14.084	14.084	(1.000)	573879	20.0000	
60 Phenanthrene	178	14.122	14.122	(1.003)	877845	25.0000	22.92
61 Anthracene	178	14.196	14.196	(1.008)	905465	25.0000	22.88
62 Carbazole	167	14.496	14.496	(1.029)	775217	25.0000	22.77
63 Di-n-butylphthalate	149	15.249	15.249	(1.083)	1050325	25.0000	25.01
64 Fluoranthene	202	16.045	16.045	(1.139)	812374	25.0000	22.36
65 Pyrene	202	16.392	16.392	(0.892)	805462	25.0000	26.46
$ 66 Terphenyl-d14	244	16.734	16.734	(0.911)	529311	25.0000	27.46
67 Butylbenzylphthalate	149	17.642	17.642	(0.960)	412445	25.0000	28.82
68 Benzo(a)anthracene	228	18.342	18.342	(0.999)	680332	25.0000	24.83
* 69 Chrysene-d12	240	18.369	18.369	(1.000)	366829	20.0000	
70 3,3'-Dichlorobenzidine	252	18.379	18.379	(1.001)	252288	25.0000	23.92
71 Chrysene	228	18.406	18.406	(1.002)	655297	25.0000	23.64
72 bis(2-Ethylhexyl)phthalate	149	18.657	18.657	(0.953)	565860	25.0000	26.57
* 134 Di-n-octylphthalate-d4	153	19.587	19.587	(1.000)	621709	20.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
73 Di-n-octylphthalate	149	19.592	19.592	(1.000)	871364	25.0000	23.59
74 Benzo(b)fluoranthene	252	19.987	19.987	(0.975)	702982	25.0000	25.28
75 Benzo(k)fluoranthene	252	20.019	20.019	(0.976)	690661	25.0000	25.86
76 Benzo(a)pyrene	252	20.425	20.425	(0.996)	664956	25.0000	23.89
* 77 Perylene-d12	264	20.505	20.505	(1.000)	428868	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.852	21.852	(1.066)	737862	25.0000	22.42
79 Dibenzo(a,h)anthracene	278	21.884	21.884	(1.067)	619995	25.0000	22.75
80 Benzo(g,h,i)perylene	276	22.178	22.178	(1.082)	648958	25.0000	21.53
90 N-Nitrosodimethylamine	74	2.422	2.422	(0.352)	341271	25.0000	25.00
91 Aniline	93	6.456	6.456	(0.938)	799430	25.0000	24.63
93 Benzidine	184	16.317	16.317	(0.888)	409265	25.0000	24.70
103 Pyridine	79	2.401	2.401	(0.349)	579855	25.0000	24.44
105 1-methylnaphthalene	141	10.217	10.217	(1.148)	564994	25.0000	24.39
111 Azobenzene (1,2-DP-Hydrazine)	77	12.893	12.893	(1.099)	943934	25.0000	25.18

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: cc0526.d
Lab Smp Id: CC0526
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info:

Calibration Date: 26-MAY-2007
Calibration Time: 09:30

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	216988	0.00
27 Naphthalene-d8	799420	399710	1598840	799420	0.00
42 Acenaphthene-d10	390056	195028	780112	390056	0.00
59 Phenanthrene-d10	573879	286940	1147758	573879	0.00
69 Chrysene-d12	366829	183414	733658	366829	0.00
134 Di-n-octylphthala	621709	310854	1243418	621709	0.00
77 Perylene-d12	428868	214434	857736	428868	0.00

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	8.90	8.40	9.40	8.90	0.00
42 Acenaphthene-d10	11.73	11.23	12.23	11.73	0.00
59 Phenanthrene-d10	14.08	13.58	14.58	14.08	0.00
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
134 Di-n-octylphthala	19.59	19.09	20.09	19.59	0.00
77 Perylene-d12	20.51	20.01	21.01	20.51	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/20070526.b/cc0526.d

Date : 26-MAY-2007 09:30

Client ID:

Sample Info: CC0526

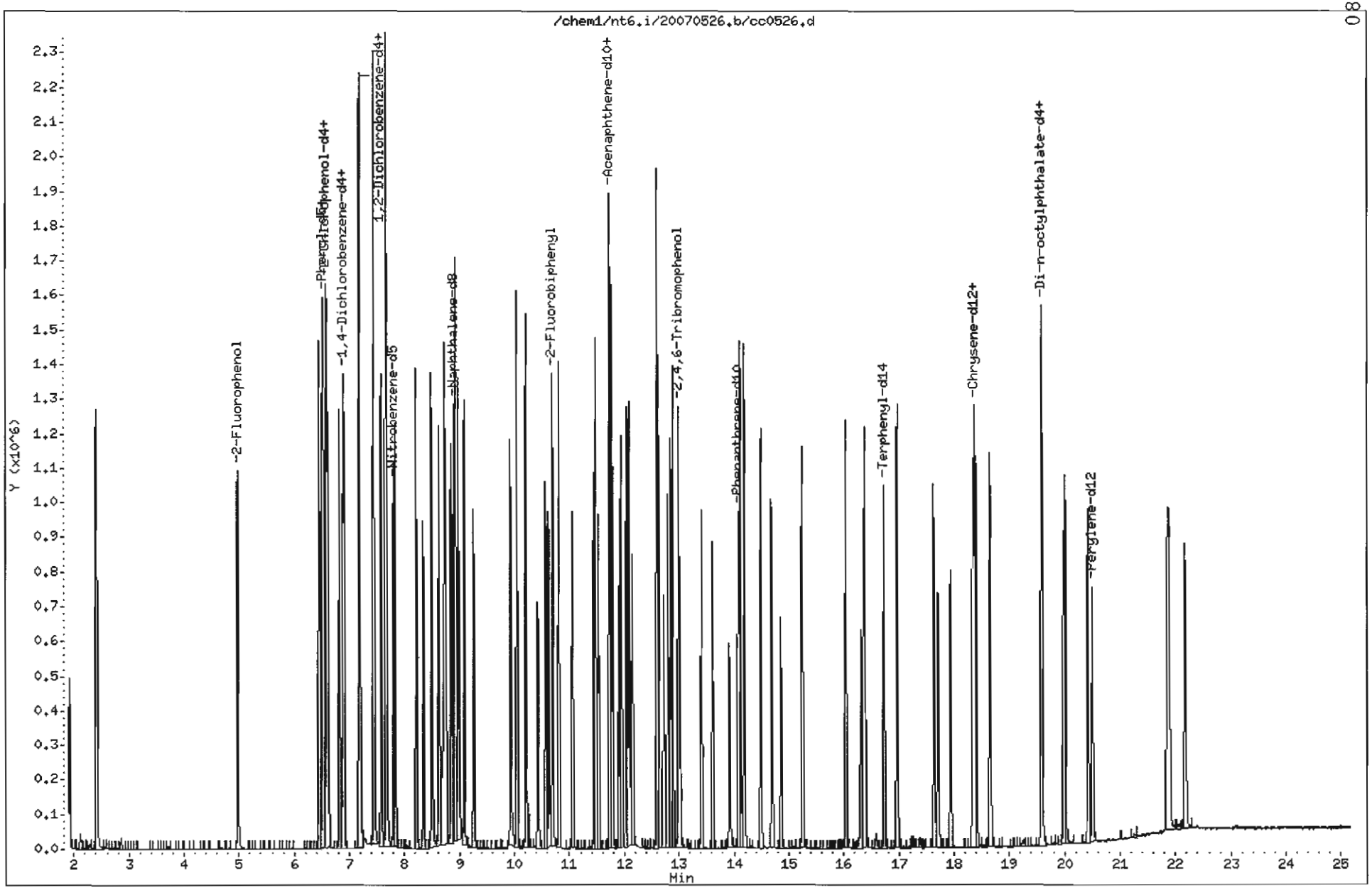
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32

0866



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

Data file: /chem1/nt6.i/20070526.b/ddt.b/cc0526.d
Method: /chem1/nt6.i/20070526.b/ddt.b/sw846ddt.m
Analysis Date: 26-MAY-2007 09:30

ARI ID: CC0526
Misc:
Instrument: nt6.i

LJK 5/29/07

COMPOUND	RT	AREA
Pentachlorophenol	13.924	102022
Benzidine	16.317	408555
4,4'-DDE	----	----
4,4'-DDD	17.247	11073
4,4'-DDT	17.717	239242

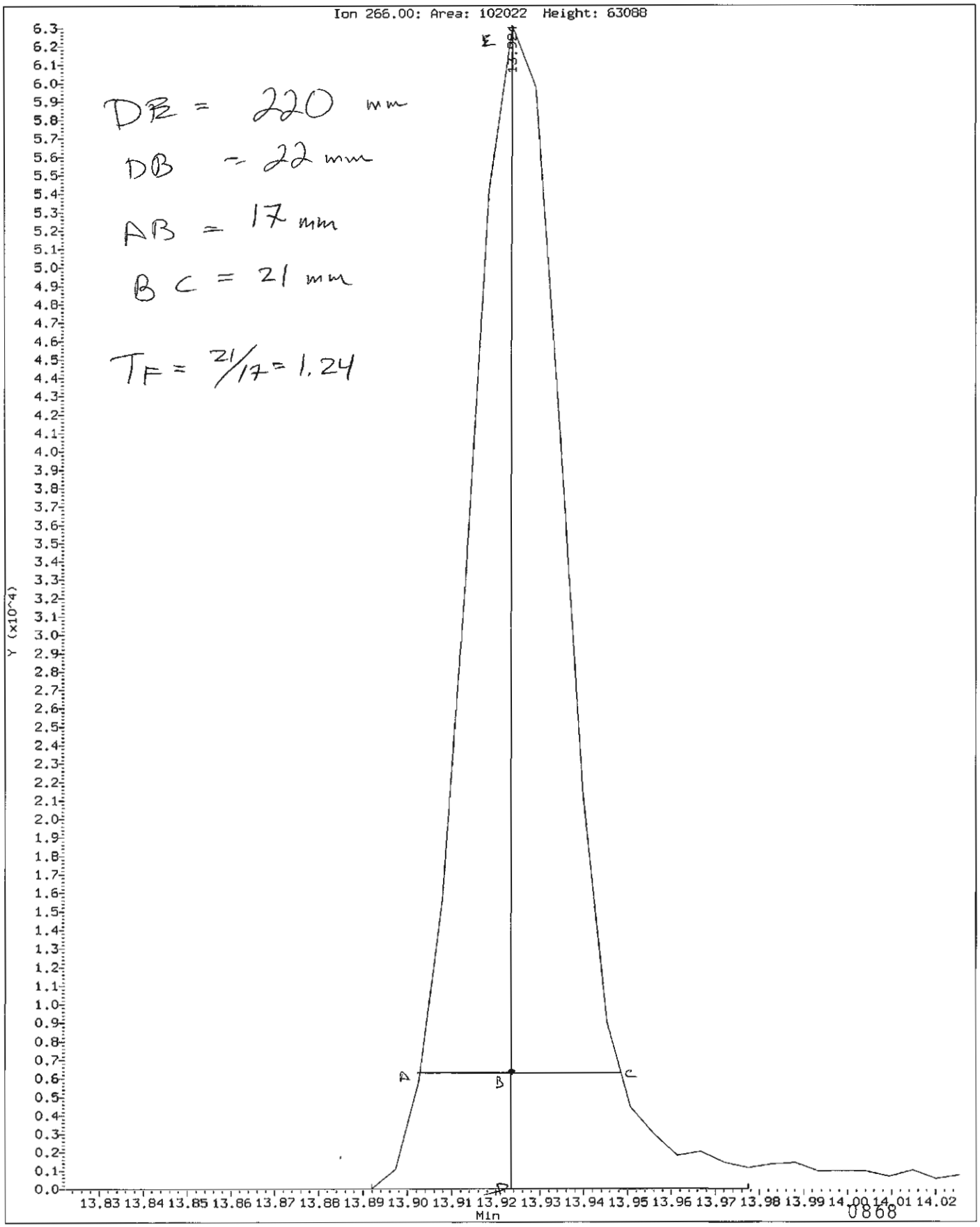
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 11073) * 100}{(0 + 11073 + 239242)}$$

DDT Percent Breakdown = 4.4 %

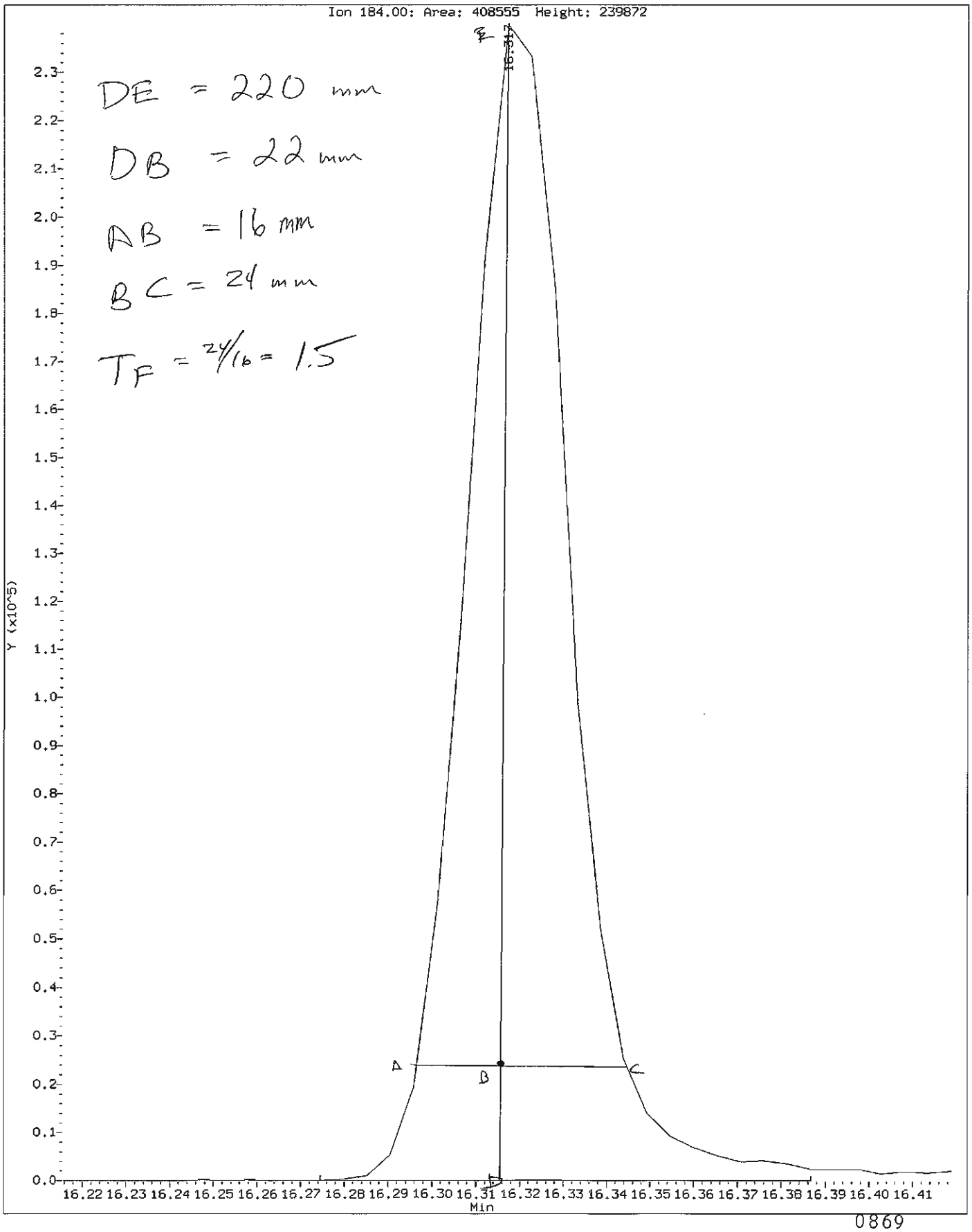
Data File: /chem1/nt6.i/20070526.b/ddt.b/cc0526.d
Injection Date: 26-MAY-2007 09:30
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20070526.b/ddt.b/cc0526.d
Injection Date: 26-MAY-2007 09:30
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/29/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0847

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	2.342	2.300	0.100	1.8	20.0
Bis(2-Chloroethyl)ether	1.880	1.802	0.100	4.1	
2-Chlorophenol	1.656	1.645	0.100	0.7	
1,3-Dichlorobenzene	1.669	1.625	0.100	2.6	
1,4-Dichlorobenzene	1.684	1.613	0.100	4.2	20.0
1,2-Dichlorobenzene	1.588	1.451	0.100	8.6	
Benzyl alcohol	1.167	1.108	0.100	5.0	
2,2'-oxybis(1-Chloropropane)	2.821	2.788	0.100	1.2	
2-Methylphenol	1.576	1.537	0.100	2.5	
Hexachloroethane	0.734	0.684	0.100	6.8	
N-Nitroso-di-n-propylamine	1.211	1.175	0.050	3.0	
4-Methylphenol	1.570	1.603	0.100	-2.1	
Nitrobenzene	0.496	0.509	0.100	-2.6	
Isophorone	0.918	0.905	0.100	1.4	
2-Nitrophenol	0.202	0.233	0.100	-15.3	20.0
2,4-Dimethylphenol	0.408	0.426	0.100	-4.4	
Bis(2-Chloroethoxy)methane	0.572	0.568	0.100	0.7	
2,4-Dichlorophenol	0.294	0.294	0.100	0.0	20.0
1,2,4-Trichlorobenzene	0.342	0.328	0.100	4.1	
Naphthalene	1.185	1.121	0.100	5.4	
Benzoic acid	0.273	0.319	0.100	-16.8	
4-Chloroaniline	0.524	0.508	0.100	3.0	
Hexachlorobutadiene	0.171	0.170	0.100	0.6	20.0
4-Chloro-3-methylphenol	0.354	0.355	0.100	-0.3	20.0
2-Methylnaphthalene	0.602	0.562	0.100	6.6	
Hexachlorocyclopentadiene	0.278	0.301	0.050	-8.3	
2,4,6-Trichlorophenol	0.406	0.427	0.100	-5.2	20.0
2,4,5-Trichlorophenol	0.432	0.453	0.100	-4.9	
2-Chloronaphthalene	1.295	1.239	0.100	4.3	
2-Nitroaniline	0.486	0.537	0.100	-10.5	
Acenaphthylene	2.109	1.969	0.100	6.6	
Dimethylphthalate	1.286	1.256	0.100	2.3	
2,6-Dinitrotoluene	0.268	0.308	0.100	-14.9	
Acenaphthene	1.262	1.187	0.100	5.9	20.0
3-Nitroaniline	0.368	0.396	0.100	-7.6	
2,4-Dinitrophenol	0.064	0.196	0.050	-99.9	
Dibenzofuran	1.702	1.629	0.100	4.3	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/29/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0847

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
4-Nitrophenol	0.209	0.240	0.050	-14.8	
2,4-Dinitrotoluene	0.341	0.403	0.100	-18.2	
Fluorene	1.340	1.264	0.100	5.7	
4-Chlorophenyl-phenylether	0.632	0.609	0.100	3.6	
Diethylphthalate	1.281	1.233	0.100	3.7	
4-Nitroaniline	0.374	0.430	0.100	-15.0	
4,6-Dinitro-2-methylphenol	0.095	0.167	0.100	-75.8	
N-Nitrosodiphenylamine(1)	0.640	0.608	0.100	5.0	
4-Bromophenyl-phenylether	0.247	0.233	0.100	5.7	
Hexachlorobenzene	0.261	0.248	0.100	5.0	
Pentachlorophenol	0.155	0.169	0.100	-9.0	20.0
Phenanthrene	1.335	1.235	0.100	7.5	
Anthracene	1.379	1.273	0.100	7.7	
Carbazole	1.187	1.141	0.100	3.9	
Di-n-butylphthalate	1.464	1.480	0.100	-1.1	
Fluoranthene	1.266	1.208	0.100	4.6	20.0
Pyrene	1.659	1.537	0.100	7.4	
Butylbenzylphthalate	0.780	0.840	0.100	-7.7	
Benzo(a)anthracene	1.494	1.484	0.100	0.7	
3,3'-Dichlorobenzidine	0.575	0.591	0.100	-2.8	
Chrysene	1.511	1.423	0.100	5.8	
bis(2-Ethylhexyl)phthalate	0.685	0.669	0.100	2.3	
Di-n-octylphthalate	1.188	1.112	0.100	6.4	20.0
Benzo(b)fluoranthene	1.297	1.256	0.100	3.2	
Benzo(k)fluoranthene	1.246	1.177	0.100	5.5	
Benzo(a)pyrene	1.298	1.211	0.100	6.7	20.0
Indeno(1,2,3-cd)pyrene	1.534	1.420	0.100	7.4	
Dibenzo(a,h)anthracene	1.271	1.198	0.100	5.7	
Benzo(g,h,i)perylene	1.406	1.295	0.100	7.9	
N-Nitrosodimethylamine	1.258	1.275	0.100	-1.4	
Aniline	2.991	2.866	0.100	4.2	
Benzidine	0.903	0.705	0.100	21.9	
Pyridine	2.187	2.261	0.100	-3.4	
1-methylnaphthalene	0.579	0.551	0.100	4.8	
Azobenzene (1,2-DP-Hydrazine	1.922	1.879	0.100	2.2	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 05/29/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0847

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
2-Fluorophenol	1.818	1.848	0.100	-1.6	
Phenol-d5	2.133	2.100	0.100	1.5	
2-Chlorophenol-d4	1.475	1.412	0.100	4.3	
1,2-Dichlorobenzene-d4	0.902	0.895	0.100	0.8	
Nitrobenzene-d5	0.476	0.508	0.100	-6.7	
2-Fluorobiphenyl	1.350	1.304	0.100	3.4	
2,4,6-Tribromophenol	0.204	0.206	0.100	-1.0	
Terphenyl-d14	1.051	1.008	0.100	4.1	

<- Outside QC limits

FORM VII SV-3

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0529.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070529.b/SW846.m

Injection Date: 29-MAY-2007 08:47
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.81834	1.84830	0.010	-1.64762	100	Averaged
$ 2 Phenol-d5	2.13351	2.10013	0.010	1.56453	100	Averaged
3 Phenol	2.34216	2.30042	0.010	1.78194	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.47521	1.41178	0.010	4.29962	100	Averaged
4 Bis(2-Chloroethyl)ether	1.88037	1.80203	0.010	4.16617	100	Averaged
6 2-Chlorophenol	1.65561	1.64467	0.010	0.66063	100	Averaged
7 1,3-Dichlorobenzene	1.66889	1.62488	0.010	2.63714	100	Averaged
9 1,4-Dichlorobenzene	1.68385	1.61304	0.010	4.20531	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.90209	0.89479	0.010	0.80858	100	Averaged
12 1,2-Dichlorobenzene	1.58747	1.45074	0.010	8.61356	100	Averaged
11 Benzyl alcohol	1.16702	1.10764	0.010	5.08858	100	Averaged
14 2,2'-oxybis(1-Chloropropane	2.82111	2.78808	0.010	1.17075	100	Averaged
13 2-Methylphenol	1.57543	1.53718	0.010	2.42804	100	Averaged
17 Hexachloroethane	0.73423	0.68427	0.010	6.80452	100	Averaged
16 N-Nitroso-di-n-propylamine	1.21147	1.17518	0.050	2.99627	100	Averaged
15 4-Methylphenol	1.57004	1.60319	0.010	-2.11113	100	Averaged
$ 18 Nitrobenzene-d5	0.47590	0.50777	0.010	-6.69803	100	Averaged
19 Nitrobenzene	0.49641	0.50909	0.010	-2.55358	100	Averaged
20 Isophorone	0.91824	0.90543	0.010	1.39492	100	Averaged
21 2-Nitrophenol	0.20251	0.23302	0.010	-15.06880	20.00000	Averaged
22 2,4-Dimethylphenol	0.40849	0.42612	0.010	-4.31580	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.57207	0.56819	0.010	0.67734	100	Averaged
24 Benzoic acid	0.27341	0.31867	0.010	-16.55584	100	Averaged
25 2,4-Dichlorophenol	0.29354	0.29357	0.010	-0.00776	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.34251	0.32775	0.010	4.31139	100	Averaged
28 Naphthalene	1.18464	1.12088	0.010	5.38219	100	Averaged
29 4-Chloroaniline	0.52374	0.50815	0.010	2.97700	100	Averaged
30 Hexachlorobutadiene	0.17094	0.16964	0.010	0.76067	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35418	0.35487	0.010	-0.19460	20.00000	Averaged
32 2-Methylnaphthalene	0.60219	0.56201	0.010	6.67213	100	Averaged
33 Hexachlorocyclopentadiene	0.27779	0.30081	0.050	-8.28637	100	Averaged
34 2,4,6-Trichlorophenol	0.40575	0.42669	0.010	-5.15921	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43245	0.45293	0.010	-4.73754	100	Averaged
$ 36 2-Fluorobiphenyl	1.34981	1.30395	0.010	3.39747	100	Averaged
37 2-Chloronaphthalene	1.29527	1.23892	0.010	4.35066	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0529.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070529.b/SW846.m

Injection Date: 29-MAY-2007 08:47
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.48613	0.53674	0.010	-10.40984	100	Averaged	
39 Dimethylphthalate	1.28555	1.25625	0.010	2.27927	100	Averaged	
40 Acenaphthylene	2.10884	1.96907	0.010	6.62771	100	Averaged	
41 2,6-Dinitrotoluene	0.26841	0.30795	0.010	-14.72896	100	Averaged	
43 3-Nitroaniline	0.36771	0.39571	0.010	-7.61703	100	Averaged	
44 Acenaphthene	1.26208	1.18714	0.010	5.93741	20.00000	Averaged	
45 2,4-Dinitrophenol	0.06373	0.19557	0.050	-207	100	Averaged	<-
46 Dibenzofuran	1.70130	1.62915	0.010	4.24046	100	Averaged	
47 4-Nitrophenol	0.20890	0.24040	0.050	-15.07642	100	Averaged	
48 2,4-Dinitrotoluene	0.34156	0.40323	0.010	-18.05422	100	Averaged	
50 Diethylphthalate	1.28116	1.23328	0.010	3.73731	100	Averaged	
49 Fluorene	1.34065	1.26406	0.010	5.71346	100	Averaged	
51 4-Chlorophenyl-phenylether	0.63175	0.60882	0.010	3.62962	100	Averaged	
52 4-Nitroaniline	0.37428	0.43018	0.010	-14.93465	100	Averaged	
53 4,6-Dinitro-2-methylphenol	0.09549	0.16723	0.010	-75.11951	100	Averaged	
54 N-Nitrosodiphenylamine	0.64008	0.60852	0.010	4.93122	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.20362	0.20573	0.010	-1.03615	100	Averaged	
56 4-Bromophenyl-phenylether	0.24697	0.23300	0.010	5.65837	100	Averaged	
57 Hexachlorobenzene	0.26085	0.24758	0.010	5.08930	100	Averaged	
58 Pentachlorophenol	0.15497	0.16905	0.010	-9.09106	20.00000	Averaged	
60 Phenanthrene	1.33473	1.23474	0.010	7.49161	100	Averaged	
61 Anthracene	1.37912	1.27328	0.010	7.67406	100	Averaged	
62 Carbazole	1.18673	1.14067	0.010	3.88125	100	Averaged	
63 Di-n-butylphthalate	1.46357	1.47958	0.010	-1.09429	100	Averaged	
64 Fluoranthene	1.26636	1.20755	0.010	4.64455	20.00000	Averaged	
65 Pyrene	1.65949	1.53684	0.010	7.39121	100	Averaged	
$ 66 Terphenyl-d14	1.05089	1.00805	0.010	4.07712	100	Averaged	
67 Butylbenzylphthalate	0.78026	0.84027	0.010	-7.69028	100	Averaged	
68 Benzo(a)anthracene	1.49398	1.48369	0.010	0.68839	100	Averaged	
70 3,3'-Dichlorobenzidine	0.57495	0.59122	0.010	-2.82949	100	Averaged	
71 Chrysene	1.51130	1.42314	0.010	5.83390	100	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.68503	0.66888	0.010	2.35709	100	Averaged	
73 Di-n-octylphthalate	1.18814	1.11151	0.010	6.45005	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.29675	1.25552	0.010	3.17944	100	Averaged	
75 Benzo(k)fluoranthene	1.24572	1.17744	0.010	5.48112	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0529.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070529.b/SW846.m

Injection Date: 29-MAY-2007 08:47
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	1.29795	1.21067	0.010	6.72483	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.53453	1.41969	0.010	7.48361	100	Averaged	
79 Dibenzo(a,h)anthracene	1.27096	1.19857	0.010	5.69584	100	Averaged	
80 Benzo(g,h,i)perylene	1.40575	1.29485	0.010	7.88907	100	Averaged	
90 N-Nitrosodimethylamine	1.25837	1.27491	0.010	-1.31446	100	Averaged	
103 Pyridine	2.18679	2.26100	0.010	-3.39373	100	Averaged	
91 Aniline	2.99135	2.86616	0.010	4.18499	100	Averaged	
105 1-methylnaphthalene	0.57952	0.55084	0.010	4.94906	100	Averaged	
93 Benzidine	0.90332	0.70550	0.010	21.89922	100	Averaged	
98 Retene	0.86016	0.82111	0.010	4.53953	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.92178	1.87903	0.010	2.22439	100	Averaged	
144 alpha-Terpineol	0.39269	0.39384	0.010	-0.29210	100	Averaged	
143 1,4-Dioxane	0.82758	0.00085	0.010	100	100	Averaged	<-
$ 137 d8-1,4-Dioxane	0.84549	0.00025	0.010	100	100	Averaged	<-
133 Butylatedhydroxytoluene	0.95519	0.89067	0.010	6.75448	100	Averaged	
115 Tributyl Phosphate	1.43141	1.35839	0.010	5.10151	100	Averaged	
116 Dibutyl Phenyl Phosphate	0.62712	0.64059	0.010	-2.14863	100	Averaged	
117 Butyl Diphenyl Phosphate	0.38488	0.38836	0.010	-0.90473	100	Averaged	
118 Triphenyl Phosphate	0.27520	0.27335	0.010	0.67107	100	Averaged	
123 Acetophenone	2.22879	2.10765	0.010	5.43518	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070529.b/cc0529.d
Lab Smp Id: ABN 25
Inj Date : 29-MAY-2007 08:47
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070529.b/SW846.m
Meth Date : 29-May-2007 12:36 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 5/29/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.903	4.903	(0.720)	502935	25.0000	25.41
$	2 Phenol-d5	99	6.447	6.447	(0.947)	571462	25.0000	24.61
	3 Phenol	94	6.468	6.468	(0.951)	625962	25.0000	24.55
$	5 2-Chlorophenol-d4	132	6.521	6.521	(0.958)	384157	25.0000	23.93
	4 Bis(2-Chloroethyl)ether	93	6.505	6.505	(0.956)	490347	25.0000	23.96
	6 2-Chlorophenol	128	6.543	6.543	(0.962)	447527	25.0000	24.83
	7 1,3-Dichlorobenzene	146	6.741	6.741	(0.991)	442142	25.0000	24.34
*	8 1,4-Dichlorobenzene-d4	152	6.805	6.805	(1.000)	217686	20.0000	
	9 1,4-Dichlorobenzene	146	6.831	6.831	(1.004)	438921	25.0000	23.95
$	10 1,2-Dichlorobenzene-d4	152	7.093	7.093	(1.042)	243480	25.0000	24.80
	12 1,2-Dichlorobenzene	146	7.114	7.114	(1.046)	394756	25.0000	22.85
	11 Benzyl alcohol	108	7.114	7.114	(1.046)	301396	25.0000	23.73
	14 2,2'-oxybis(1-Chloropropane)	45	7.366	7.366	(1.082)	758658	25.0000	24.71
	13 2-Methylphenol	108	7.376	7.376	(1.084)	418278	25.0000	24.39
	17 Hexachloroethane	117	7.595	7.595	(1.116)	186194	25.0000	23.30
	16 N-Nitroso-di-n-propylamine	70	7.579	7.579	(1.114)	319774	25.0000	24.25
	15 4-Methylphenol	108	7.606	7.606	(1.118)	436239	25.0000	25.53
$	18 Nitrobenzene-d5	82	7.729	7.729	(0.867)	492169	25.0000	26.67
	19 Nitrobenzene	77	7.756	7.756	(0.870)	493445	25.0000	25.64
	20 Isophorone	82	8.140	8.140	(0.914)	877602	25.0000	24.65
	21 2-Nitrophenol	139	8.268	8.268	(0.928)	225861	25.0000	28.77
	22 2,4-Dimethylphenol	107	8.429	8.429	(0.946)	413025	25.0000	26.08
	23 Bis(2-Chloroethoxy)methane	93	8.557	8.557	(0.960)	550729	25.0000	24.83
	24 Benzoic acid	105	8.701	8.701	(0.977)	617755	50.0000	58.28
	25 2,4-Dichlorophenol	162	8.664	8.664	(0.972)	284545	25.0000	25.00
	26 1,2,4-Trichlorobenzene	180	8.771	8.771	(0.984)	317673	25.0000	23.92
*	27 Naphthalene-d8	136	8.819	8.819	(1.000)	775413	20.0000	(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
28 Naphthalene	128	8.851	8.851	(0.993)	1086436	25.0000	23.65
29 4-Chloroaniline	127	9.016	9.016	(1.012)	492533	25.0000	24.26
30 Hexachlorobutadiene	225	9.182	9.182	(1.031)	164423	25.0000	24.81
31 4-Chloro-3-methylphenol	107	9.866	9.866	(1.107)	343961	25.0000	25.05
32 2-Methylnaphthalene	141	9.967	9.967	(1.119)	544735	25.0000	23.33(M)
33 Hexachlorocyclopentadiene	237	10.352	10.352	(0.888)	139525	25.0000	27.07
34 2,4,6-Trichlorophenol	196	10.496	10.496	(0.901)	197913	25.0000	26.29
35 2,4,5-Trichlorophenol	196	10.555	10.555	(0.906)	210087	25.0000	26.18
$ 36 2-Fluorobiphenyl	172	10.619	10.619	(0.911)	604819	25.0000	24.15
37 2-Chloronaphthalene	162	10.731	10.731	(0.921)	574654	25.0000	23.91
38 2-Nitroaniline	65	10.982	10.982	(0.942)	248959	25.0000	27.60
39 Dimethylphthalate	163	11.377	11.377	(0.976)	582693	25.0000	24.43
40 Acenaphthylene	152	11.399	11.399	(0.978)	913323	25.0000	23.34
41 2,6-Dinitrotoluene	165	11.458	11.458	(0.983)	142836	25.0000	28.68
* 42 Acenaphthene-d10	164	11.655	11.655	(1.000)	371068	20.0000	
43 3-Nitroaniline	138	11.661	11.661	(1.000)	183546	25.0000	26.90
44 Acenaphthene	153	11.703	11.703	(1.004)	550638	25.0000	23.52
45 2,4-Dinitrophenol	184	11.826	11.826	(1.015)	181426	50.0000	153.4
46 Dibenzofuran	168	11.965	11.965	(1.027)	755659	25.0000	23.94
47 4-Nitrophenol	109	12.024	12.024	(1.032)	111504	25.0000	28.77
48 2,4-Dinitrotoluene	165	12.077	12.077	(1.036)	187031	25.0000	29.51
50 Diethylphthalate	149	12.531	12.531	(1.075)	572040	25.0000	24.07
49 Fluorene	166	12.515	12.515	(1.074)	586314	25.0000	23.57
51 4-Chlorophenyl-phenylether	204	12.563	12.563	(1.078)	282393	25.0000	24.09
52 4-Nitroaniline	138	12.644	12.644	(1.085)	199533	25.0000	28.73
53 4,6-Dinitro-2-methylphenol	198	12.724	12.724	(0.909)	231677	50.0000	87.56
54 N-Nitrosodiphenylamine	169	12.772	12.772	(0.912)	421523	25.0000	23.77
$ 55 2,4,6-Tribromophenol	330	12.937	12.937	(1.110)	95423	25.0000	25.26
56 4-Bromophenyl-phenylether	248	13.333	13.333	(0.952)	161399	25.0000	23.59
57 Hexachlorobenzene	284	13.536	13.536	(0.967)	171497	25.0000	23.73
58 Pentachlorophenol	266	13.840	13.840	(0.989)	117105	25.0000	27.27
* 59 Phenanthrene-d10	188	14.001	14.001	(1.000)	554165	20.0000	
60 Phenanthrene	178	14.038	14.038	(1.003)	855311	25.0000	23.13
61 Anthracene	178	14.107	14.107	(1.008)	882012	25.0000	23.08
62 Carbazole	167	14.412	14.412	(1.029)	790152	25.0000	24.03
63 Di-n-butylphthalate	149	15.165	15.165	(1.083)	1024917	25.0000	25.27
64 Fluoranthene	202	15.956	15.956	(1.140)	836475	25.0000	23.84
65 Pyrene	202	16.303	16.303	(0.892)	837616	25.0000	23.15
$ 66 Terphenyl-d14	244	16.650	16.650	(0.911)	549412	25.0000	23.98
67 Butylbenzylphthalate	149	17.558	17.558	(0.961)	457967	25.0000	26.92
68 Benzo(a)anthracene	228	18.253	18.253	(0.999)	808652	25.0000	24.83
* 69 Chrysene-d12	240	18.280	18.280	(1.000)	436021	20.0000	
70 3,3'-Dichlorobenzidine	252	18.290	18.290	(1.001)	322231	25.0000	25.71
71 Chrysene	228	18.322	18.322	(1.002)	775646	25.0000	23.54
72 bis(2-Ethylhexyl)phthalate	149	18.573	18.573	(0.952)	646593	25.0000	24.41
* 134 Di-n-octylphthalate-d4	153	19.503	19.503	(1.000)	773344	20.0000	
73 Di-n-octylphthalate	149	19.514	19.514	(1.001)	1074470	25.0000	23.39

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	19.898	19.898	(0.975)	976749	25.0000	24.21
75 Benzo(k)fluoranthene	252	19.930	19.930	(0.976)	916003	25.0000	23.63
76 Benzo(a)pyrene	252	20.336	20.336	(0.996)	941853	25.0000	23.32
* 77 Perylene-d12	264	20.416	20.416	(1.000)	622369	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.768	21.768	(1.066)	1104464	25.0000	23.13
79 Dibenzo(a,h)anthracene	278	21.789	21.789	(1.067)	932438	25.0000	23.58
80 Benzo(g,h,i)perylene	276	22.078	22.078	(1.081)	1007342	25.0000	23.03
90 N-Nitrosodimethylamine	74	2.333	2.333	(0.343)	346913	25.0000	25.33
103 Pyridine	79	2.323	2.323	(0.341)	615235	25.0000	25.85
91 Aniline	93	6.377	6.377	(0.937)	779904	25.0000	23.95
105 1-methylnaphthalene	141	10.133	10.133	(1.137)	533911	25.0000	23.76
93 Benzidine	184	16.233	16.233	(0.888)	384515	25.0000	19.53
98 Retene	219	16.891	16.891	(0.924)	447529	25.0000	23.87
111 Azobenzene (1,2-DP-Hydrazine)	77	12.809	12.809	(1.099)	871560	25.0000	24.44
144 alpha-Terpineol	59	8.909	8.909	(1.000)	381731	25.0000	25.07
143 1,4-Dioxane	88	1.949	1.949	(0.286)	231	25.0000	0.02565
$ 137 d8-1,4-Dioxane	96	1.938	1.938	(0.285)	67	25.0000	0.007281
133 Butylatedhydroxytoluene	205	11.869	11.869	(1.018)	413126	25.0000	23.31
115 Tributyl Phosphate	99	12.921	12.921	(0.923)	940965	25.0000	23.72
116 Dibutyl Phenyl Phosphate	175	14.620	14.620	(1.044)	443743	25.0000	25.54
117 Butyl Diphenyl Phosphate	94	16.276	16.276	(0.890)	211668	25.0000	25.23
118 Triphenyl Phosphate	326	17.858	17.858	(0.977)	148983	25.0000	24.83
123 Acetophenone	105	7.504	7.504	(1.103)	573508	25.0000	23.64

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: cc0529.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070529.b/SW846.m
Misc Info:

Calibration Date: 29-MAY-2007
Calibration Time: 08:47

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	217686	108843	435372	217686	0.00
27 Naphthalene-d8	775413	387706	1550826	775413	0.00
42 Acenaphthene-d10	371068	185534	742136	371068	0.00
59 Phenanthrene-d10	554165	277082	1108330	554165	0.00
69 Chrysene-d12	436021	218010	872042	436021	0.00
134 Di-n-octylphthala	773344	386672	1546688	773344	0.00
77 Perylene-d12	622369	311184	1244738	622369	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.80	6.30	7.30	6.80	0.00
27 Naphthalene-d8	8.82	8.32	9.32	8.82	0.00
42 Acenaphthene-d10	11.66	11.16	12.16	11.66	0.00
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.00
69 Chrysene-d12	18.28	17.78	18.78	18.28	0.00
134 Di-n-octylphthala	19.50	19.00	20.00	19.50	0.00
77 Perylene-d12	20.42	19.92	20.92	20.42	0.00

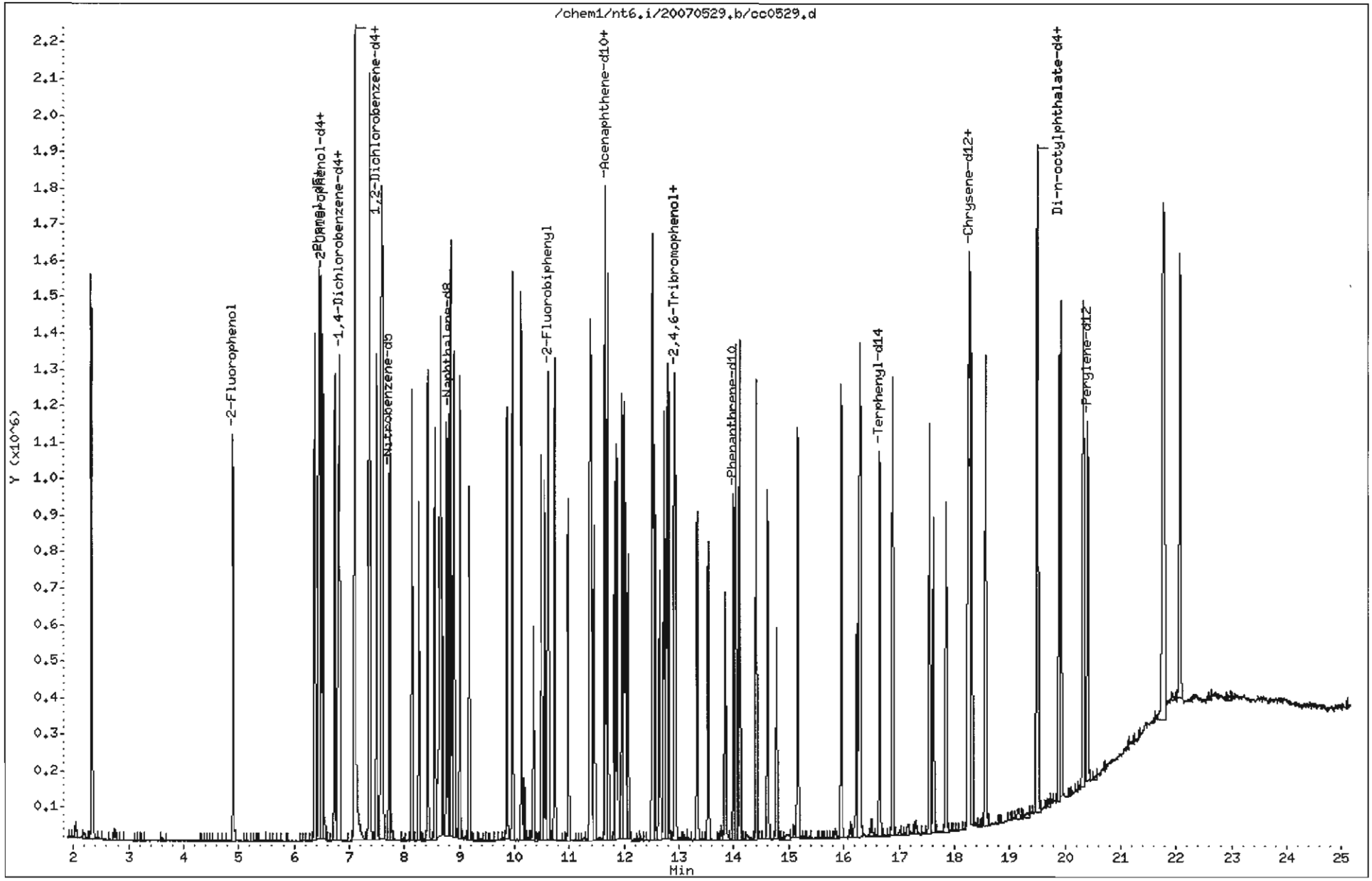
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20070529.b/cc0529.d
Date : 29-MAY-2007 08:47
Client ID:
Sample Info: ABN 25

Instrument: nt6.i

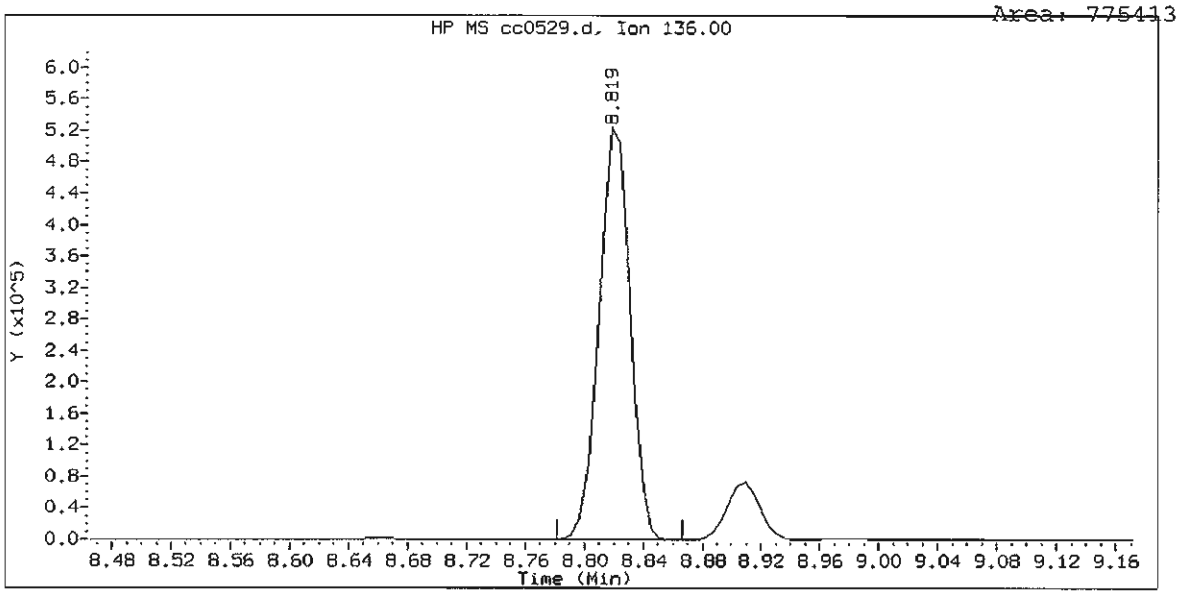
Operator: LJR/VTS
Column diameter: 0.32

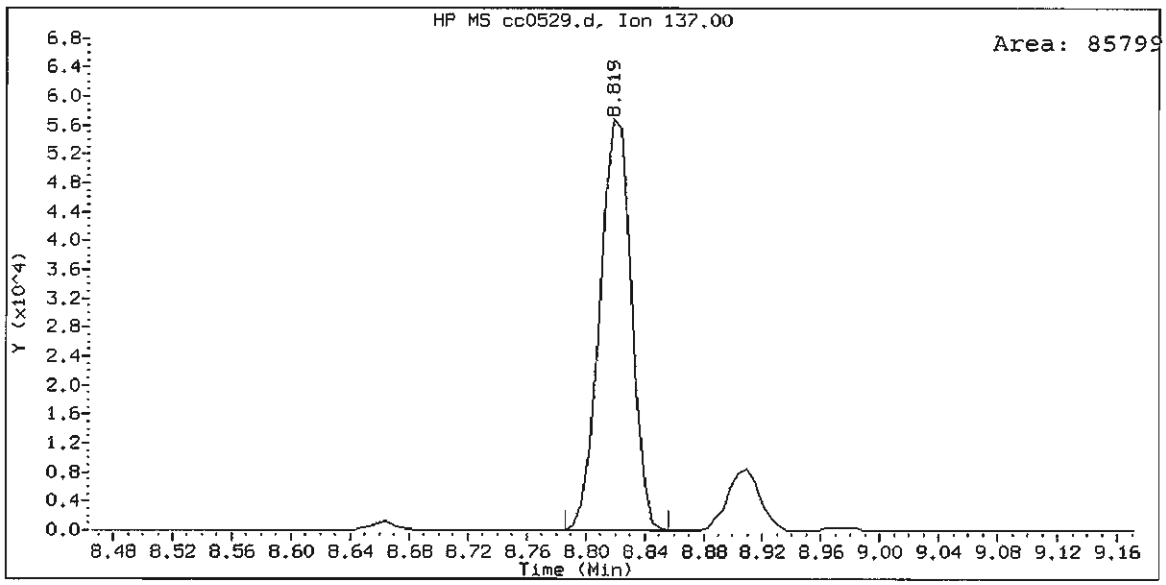
Column phase: ZB-5

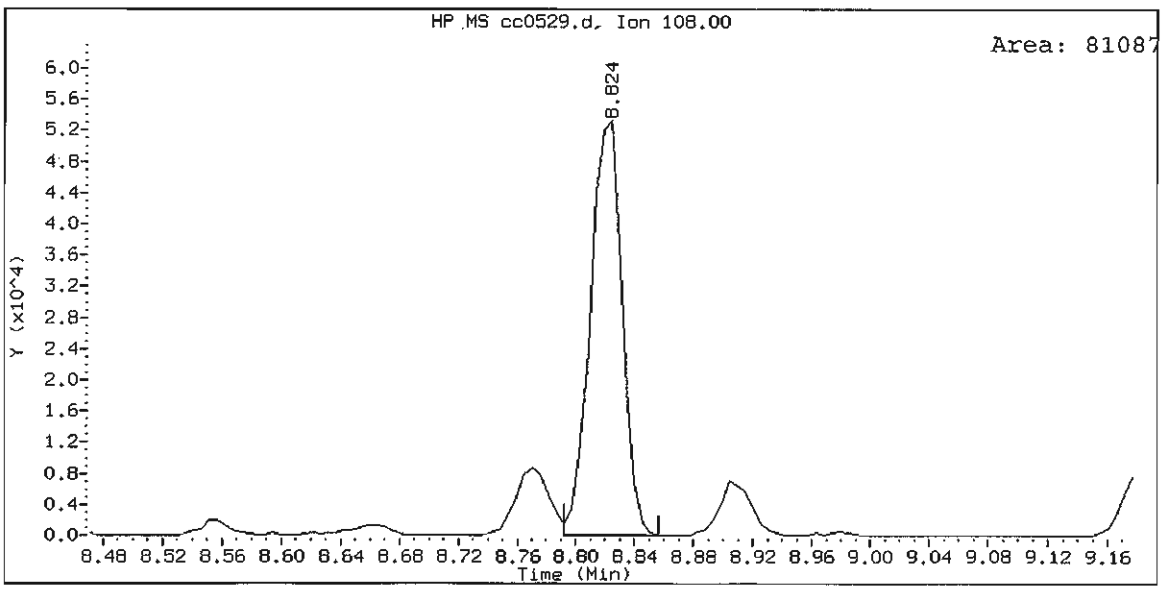


0880

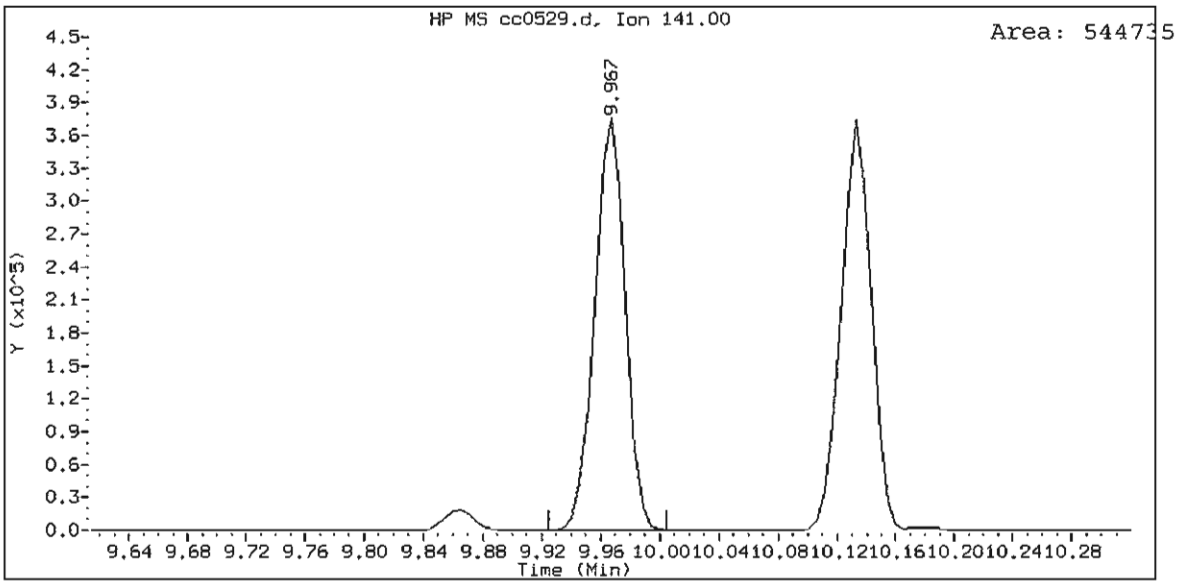
ABN 25, /chem1/nt6.i/20070529.b/cc0529.d
Naphthalene-d8 Amount: 20.00

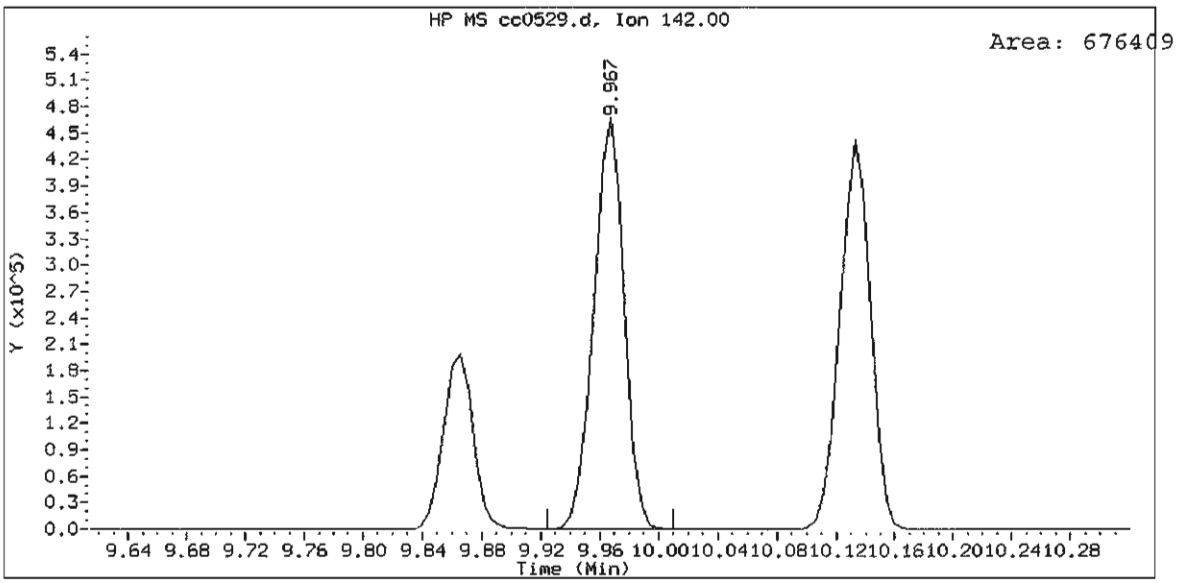






ABN 25, /chem1/nt6.i/20070529.b/cc0529.d
2-Methylnaphthalene Amount: 23.33





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

Data file: /chem1/nt6.i/20070529.b/ddt.b/cc0529.d
Method: /chem1/nt6.i/20070529.b/ddt.b/sw846ddt.m
Analysis Date: 29-MAY-2007 08:47

ARI ID:
Misc:
Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	13.840	117105
Benzidine	16.233	384515
4,4'-DDE	----	----
4,4'-DDD	17.163	16008
4,4'-DDT	17.628	266724

LJK 5/29/07

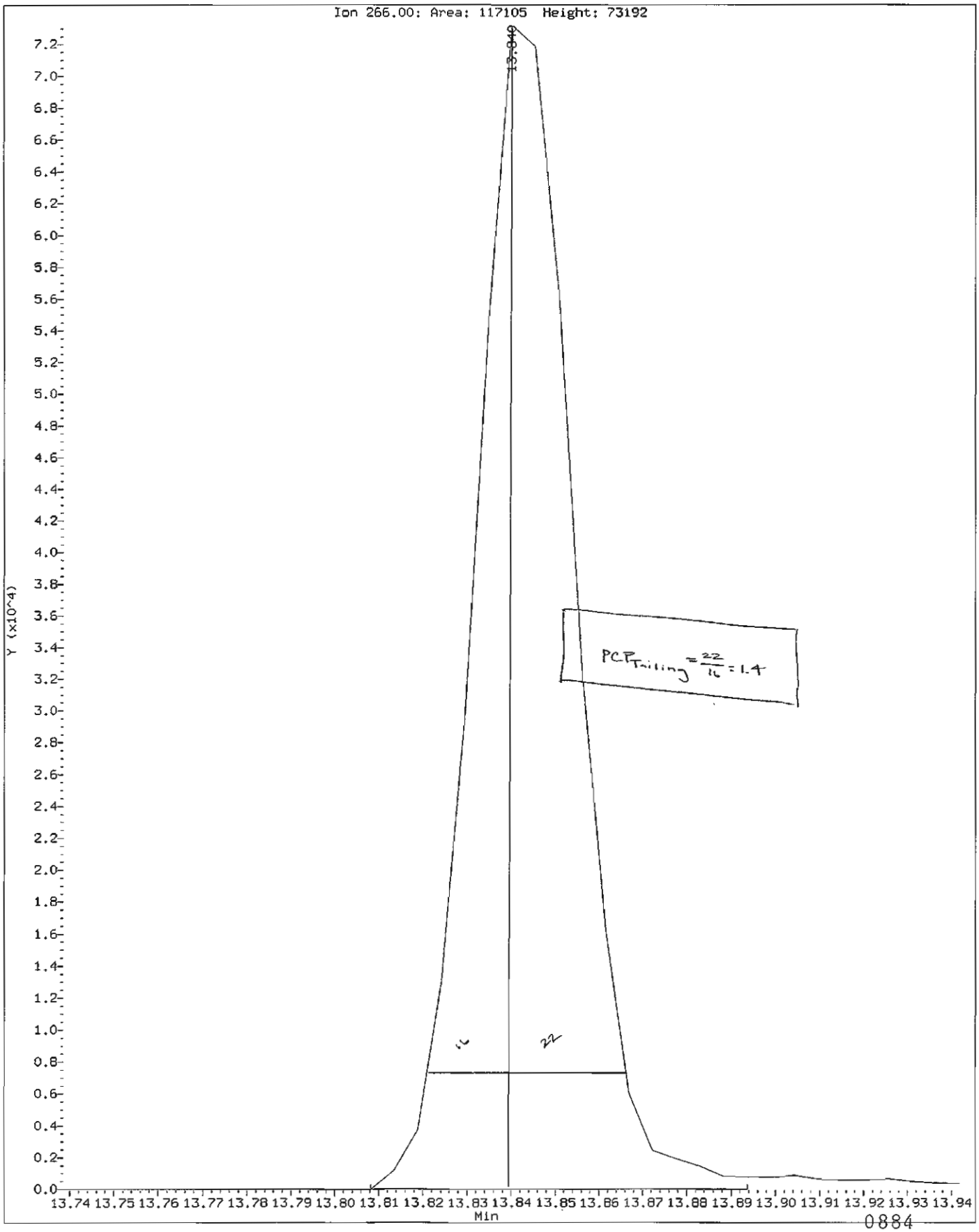
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 16008) * 100}{(0 + 16008 + 266724)}$$

DDT Percent Breakdown = 5.7 %

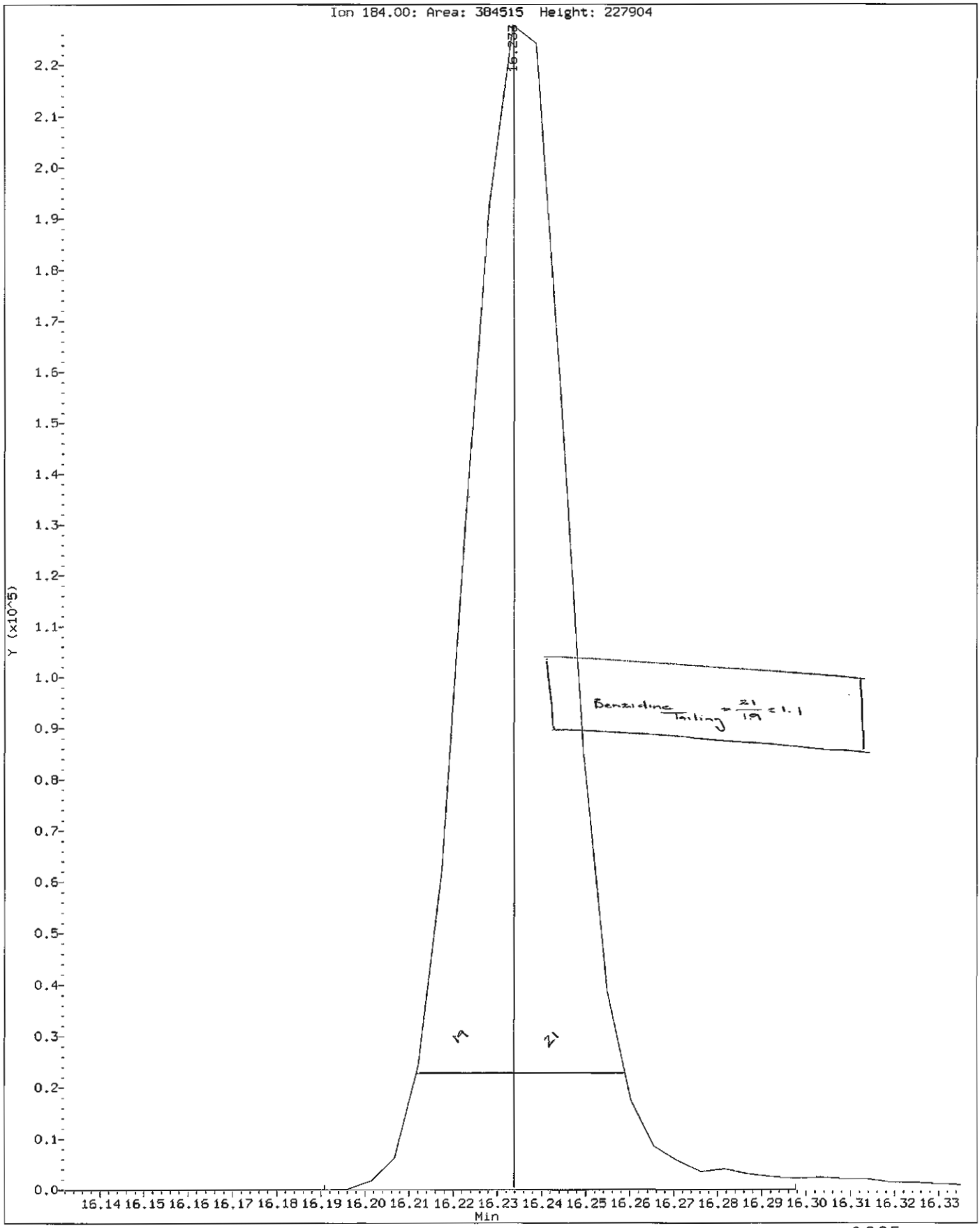
Data File: /chem1/nt6.i/20070529.b/ddt.b/cc0529.d
Injection Date: 29-MAY-2007 08:47
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20070529.b/ddt.b/cc0529.d
Injection Date: 29-MAY-2007 08:47
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 06/06/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0814

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Phenol	2.342	2.211	0.100	5.6	20.0
Bis(2-Chloroethyl)ether	1.880	1.694	0.100	9.9	
2-Chlorophenol	1.656	1.616	0.100	2.4	
1,3-Dichlorobenzene	1.669	1.616	0.100	3.2	
1,4-Dichlorobenzene	1.684	1.613	0.100	4.2	20.0
1,2-Dichlorobenzene	1.588	1.511	0.100	4.8	
Benzyl alcohol	1.167	1.106	0.100	5.2	
2,2'-oxybis(1-Chloropropane)	2.821	2.742	0.100	2.8	
2-Methylphenol	1.576	1.577	0.100	-0.1	
Hexachloroethane	0.734	0.744	0.100	-1.4	
N-Nitroso-di-n-propylamine	1.211	1.181	0.050	2.5	
4-Methylphenol	1.570	1.650	0.100	-5.1	
Nitrobenzene	0.496	0.509	0.100	-2.6	
Isophorone	0.918	0.883	0.100	3.8	
2-Nitrophenol	0.202	0.236	0.100	-16.8	20.0
2,4-Dimethylphenol	0.408	0.418	0.100	-2.4	
Bis(2-Chloroethoxy)methane	0.572	0.552	0.100	3.5	
2,4-Dichlorophenol	0.294	0.304	0.100	-3.4	20.0
1,2,4-Trichlorobenzene	0.342	0.326	0.100	4.7	
Naphthalene	1.185	1.117	0.100	5.7	
Benzoic acid	0.273	0.322	0.100	-17.9	
4-Chloroaniline	0.524	0.517	0.100	1.3	
Hexachlorobutadiene	0.171	0.168	0.100	1.8	20.0
4-Chloro-3-methylphenol	0.354	0.352	0.100	0.6	20.0
2-Methylnaphthalene	0.602	0.563	0.100	6.5	
Hexachlorocyclopentadiene	0.278	0.346	0.050	-24.5	
2,4,6-Trichlorophenol	0.406	0.422	0.100	-3.9	20.0
2,4,5-Trichlorophenol	0.432	0.452	0.100	-4.6	
2-Chloronaphthalene	1.295	1.231	0.100	4.9	
2-Nitroaniline	0.486	0.519	0.100	-6.8	
Acenaphthylene	2.109	1.909	0.100	9.5	
Dimethylphthalate	1.286	1.179	0.100	8.3	
2,6-Dinitrotoluene	0.268	0.298	0.100	-11.2	
Acenaphthene	1.262	1.138	0.100	9.8	20.0
3-Nitroaniline	0.368	0.406	0.100	-10.3	
2,4-Dinitrophenol	0.064	0.200	0.050	-99.9	
Dibenzofuran	1.702	1.579	0.100	7.2	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 06/06/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0814

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
4-Nitrophenol	0.209	0.206	0.050	1.4	
2,4-Dinitrotoluene	0.341	0.370	0.100	-8.5	
Fluorene	1.340	1.254	0.100	6.4	
4-Chlorophenyl-phenylether	0.632	0.562	0.100	11.1	
Diethylphthalate	1.281	1.174	0.100	8.4	
4-Nitroaniline	0.374	0.384	0.100	-2.7	
4,6-Dinitro-2-methylphenol	0.095	0.181	0.100	-90.5	
N-Nitrosodiphenylamine(1)	0.640	0.615	0.100	3.9	
4-Bromophenyl-phenylether	0.247	0.241	0.100	2.4	
Hexachlorobenzene	0.261	0.247	0.100	5.4	
Pentachlorophenol	0.155	0.157	0.100	-1.3	20.0
Phenanthrene	1.335	1.248	0.100	6.5	
Anthracene	1.379	1.294	0.100	6.2	
Carbazole	1.187	1.130	0.100	4.8	
Di-n-butylphthalate	1.464	1.451	0.100	0.9	
Fluoranthene	1.266	1.187	0.100	6.2	20.0
Pyrene	1.659	1.569	0.100	5.4	
Butylbenzylphthalate	0.780	0.785	0.100	-0.6	
Benzo(a)anthracene	1.494	1.410	0.100	5.6	
3,3'-Dichlorobenzidine	0.575	0.564	0.100	1.9	
Chrysene	1.511	1.347	0.100	10.8	
bis(2-Ethylhexyl)phthalate	0.685	0.658	0.100	3.9	
Di-n-octylphthalate	1.188	1.133	0.100	4.6	20.0
Benzo(b)fluoranthene	1.297	1.276	0.100	1.6	
Benzo(k)fluoranthene	1.246	1.185	0.100	4.9	
Benzo(a)pyrene	1.298	1.222	0.100	5.8	20.0
Indeno(1,2,3-cd)pyrene	1.534	1.578	0.100	-2.9	
Dibenzo(a,h)anthracene	1.271	1.301	0.100	-2.4	
Benzo(g,h,i)perylene	1.406	1.428	0.100	-1.6	
N-Nitrosodimethylamine	1.258	0.001	0.100	99.9	
Aniline	2.991	2.794	0.100	6.6	
Benzidine	0.903	0.725	0.100	19.7	
Pyridine	2.187	0.001	0.100	100.0	
1-methylnaphthalene	0.579	0.547	0.100	5.5	
Azobenzene (1,2-DP-Hydrazine	1.922	1.949	0.100	-1.4	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC — Client: TETRA TECH, INC.

ARI Job No: KZ56 — Project: THEA FOSS OMMP YEAR

Instrument ID: NT6 — Cont. Calib. Date: 06/06/07

Init. Calib. Date: 05/03/07 — Cont. Calib. Time: 0814

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
2-Fluorophenol	1.818	1.841	0.100	-1.3	
Phenol-d5	2.133	2.056	0.100	3.6	
2-Chlorophenol-d4	1.475	1.384	0.100	6.2	
1,2-Dichlorobenzene-d4	0.902	0.914	0.100	-1.3	
Nitrobenzene-d5	0.476	0.506	0.100	-6.3	
2-Fluorobiphenyl	1.350	1.286	0.100	4.7	
2,4,6-Tribromophenol	0.204	0.204	0.100	0.0	
Terphenyl-d14	1.051	0.976	0.100	7.1	

<- Outside QC limits

FORM VII SV-3

Data File: /chem1/nt6.i/20070606.b/cc0606.d
Report Date: 06-Jun-2007 09:58

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0606.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070606.b/SW846.m

Injection Date: 06-JUN-2007 08:14
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.81834	1.84073	0.010	-1.23137	100	Averaged
$ 2 Phenol-d5	2.13351	2.05580	0.010	3.64247	100	Averaged
3 Phenol	2.34216	2.21060	0.010	5.61686	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.47521	1.38399	0.010	6.18383	100	Averaged
4 Bis(2-Chloroethyl)ether	1.88037	1.69424	0.010	9.89869	100	Averaged
6 2-Chlorophenol	1.65561	1.61659	0.010	2.35682	100	Averaged
7 1,3-Dichlorobenzene	1.66889	1.61623	0.010	3.15564	100	Averaged
9 1,4-Dichlorobenzene	1.68385	1.61334	0.010	4.18792	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.90209	0.91359	0.010	-1.27478	100	Averaged
12 1,2-Dichlorobenzene	1.58747	1.51137	0.010	4.79422	100	Averaged
11 Benzyl alcohol	1.16702	1.10622	0.010	5.21002	100	Averaged
14 2,2'-oxybis(1-Chloropropane	2.82111	2.74157	0.010	2.81943	100	Averaged
13 2-Methylphenol	1.57543	1.57730	0.010	-0.11856	100	Averaged
17 Hexachloroethane	0.73423	0.74404	0.010	-1.33605	100	Averaged
16 N-Nitroso-di-n-propylamine	1.21147	1.18084	0.050	2.52866	100	Averaged
15 4-Methylphenol	1.57004	1.65040	0.010	-5.11838	100	Averaged
$ 18 Nitrobenzene-d5	0.47590	0.50572	0.010	-6.26528	100	Averaged
19 Nitrobenzene	0.49641	0.50941	0.010	-2.61681	100	Averaged
20 Isophorone	0.91824	0.88285	0.010	3.85431	100	Averaged
21 2-Nitrophenol	0.20251	0.23589	0.010	-16.48516	20.00000	Averaged
22 2,4-Dimethylphenol	0.40849	0.41824	0.010	-2.38729	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.57207	0.55231	0.010	3.45377	100	Averaged
24 Benzoic acid	0.27341	0.32186	0.010	-17.72137	100	Averaged
25 2,4-Dichlorophenol	0.29354	0.30410	0.010	-3.59673	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.34251	0.32579	0.010	4.88133	100	Averaged
28 Naphthalene	1.18464	1.11695	0.010	5.71421	100	Averaged
29 4-Chloroaniline	0.52374	0.51665	0.010	1.35428	100	Averaged
30 Hexachlorobutadiene	0.17094	0.16824	0.010	1.57560	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35418	0.35159	0.010	0.72935	20.00000	Averaged
32 2-Methylnaphthalene	0.60219	0.56300	0.010	6.50755	100	Averaged
33 Hexachlorocyclopentadiene	0.27779	0.34641	0.050	-24.70359	100	Averaged
34 2,4,6-Trichlorophenol	0.40575	0.42177	0.010	-3.94593	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43245	0.45241	0.010	-4.61570	100	Averaged
$ 36 2-Fluorobiphenyl	1.34981	1.28578	0.010	4.74415	100	Averaged
37 2-Chloronaphthalene	1.29527	1.23098	0.010	4.96386	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0606.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070606.b/SW846.m

Injection Date: 06-JUN-2007 08:14
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.48613	0.51911	0.010	-6.78265	100	Averaged	
39 Dimethylphthalate	1.28555	1.17950	0.010	8.24969	100	Averaged	
40 Acenaphthylene	2.10884	1.90900	0.010	9.47594	100	Averaged	
41 2,6-Dinitrotoluene	0.26841	0.29803	0.010	-11.03531	100	Averaged	
43 3-Nitroaniline	0.36771	0.40572	0.010	-10.33822	100	Averaged	
44 Acenaphthene	1.26208	1.13857	0.010	9.78628	20.00000	Averaged	
45 2,4-Dinitrophenol	0.06373	0.20052	0.050	-215	100	Averaged	<-
46 Dibenzofuran	1.70130	1.57928	0.010	7.17225	100	Averaged	
47 4-Nitrophenol	0.20890	0.20644	0.050	1.17951	100	Averaged	
48 2,4-Dinitrotoluene	0.34156	0.37016	0.010	-8.37200	100	Averaged	
50 Diethylphthalate	1.28116	1.17410	0.010	8.35674	100	Averaged	
49 Fluorene	1.34065	1.25438	0.010	6.43554	100	Averaged	
51 4-Chlorophenyl-phenylether	0.63175	0.56199	0.010	11.04230	100	Averaged	
52 4-Nitroaniline	0.37428	0.38454	0.010	-2.73979	100	Averaged	
53 4,6-Dinitro-2-methylphenol	0.09549	0.18081	0.010	-89.34187	100	Averaged	
54 N-Nitrosodiphenylamine	0.64008	0.61463	0.010	3.97645	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.20362	0.20353	0.010	0.04396	100	Averaged	
56 4-Bromophenyl-phenylether	0.24697	0.24110	0.010	2.37672	100	Averaged	
57 Hexachlorobenzene	0.26085	0.24698	0.010	5.31903	100	Averaged	
58 Pentachlorophenol	0.15497	0.15706	0.010	-1.35172	20.00000	Averaged	
60 Phenanthrene	1.33473	1.24786	0.010	6.50877	100	Averaged	
61 Anthracene	1.37912	1.29418	0.010	6.15860	100	Averaged	
62 Carbazole	1.18673	1.12988	0.010	4.79083	100	Averaged	
63 Di-n-butylphthalate	1.46357	1.45133	0.010	0.83651	100	Averaged	
64 Fluoranthene	1.26636	1.18748	0.010	6.22933	20.00000	Averaged	
65 Pyrene	1.65949	1.56874	0.010	5.46853	100	Averaged	
$ 66 Terphenyl-d14	1.05089	0.97555	0.010	7.16910	100	Averaged	
67 Butylbenzylphthalate	0.78026	0.78513	0.010	-0.62433	100	Averaged	
68 Benzo(a)anthracene	1.49398	1.41027	0.010	5.60296	100	Averaged	
70 3,3'-Dichlorobenzidine	0.57495	0.56436	0.010	1.84213	100	Averaged	
71 Chrysene	1.51130	1.34675	0.010	10.88847	100	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.68503	0.65801	0.010	3.94341	100	Averaged	
73 Di-n-octylphthalate	1.18814	1.13279	0.010	4.65892	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.29675	1.27571	0.010	1.62242	100	Averaged	
75 Benzo(k)fluoranthene	1.24572	1.18463	0.010	4.90404	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc0606.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20070606.b/SW846.m

Injection Date: 06-JUN-2007 08:14
Init. Cal. Date(s): 03-MAY-2007 03-MAY-2007
Init. Cal. Times: 10:33 13:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	1.29795	1.22237	0.010	5.82358	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.53453	1.57824	0.010	-2.84873	100	Averaged	
79 Dibenzo(a,h)anthracene	1.27096	1.30122	0.010	-2.38072	100	Averaged	
80 Benzo(g,h,i)perylene	1.40575	1.42783	0.010	-1.57088	100	Averaged	
90 N-Nitrosodimethylamine	1.25837	0.00080	0.010	100	100	Averaged	<-
103 Pyridine	2.18679	0.00114	0.010	100	100	Averaged	<-
91 Aniline	2.99135	2.79448	0.010	6.58129	100	Averaged	
105 1-methylnaphthalene	0.57952	0.54729	0.010	5.56158	100	Averaged	
93 Benzidine	0.90332	0.72490	0.010	19.75099	100	Averaged	
98 Retene	0.86016	0.78021	0.010	9.29542	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.92178	1.94877	0.010	-1.40450	100	Averaged	
144 alpha-Terpineol	0.39269	0.38222	0.010	2.66541	100	Averaged	
143 1,4-Dioxane	0.82758	++++	0.010	++++	100	Averaged	<-
$ 137 d8-1,4-Dioxane	0.84549	0.00027	0.010	100	100	Averaged	<-
133 Butylatedhydroxytoluene	0.95519	0.77447	0.010	18.92048	100	Averaged	
115 Tributyl Phosphate	1.43141	1.41688	0.010	1.01558	100	Averaged	
116 Dibutyl Phenyl Phosphate	0.62712	0.62922	0.010	-0.33559	100	Averaged	
117 Butyl Diphenyl Phosphate	0.38488	0.38623	0.010	-0.35109	100	Averaged	
118 Triphenyl Phosphate	0.27520	0.24418	0.010	11.27102	100	Averaged	
123 Acetophenone	2.22879	2.07346	0.010	6.96951	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070606.b/cc0606.d
Lab Smp Id: ABN 25
Inj Date : 06-JUN-2007 08:14
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20070606.b/SW846.m
Meth Date : 06-Jun-2007 09:58 jeff
Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05
Cal File: 0400503.d
Als bottle: 2
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 6/6/07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.228	4.228	(0.684)	484493	25.0000	25.31
$	2 Phenol-d5	99	5.878	5.878	(0.952)	541102	25.0000	24.09
	3 Phenol	94	5.894	5.894	(0.954)	581847	25.0000	23.60
$	5 2-Chlorophenol-d4	132	5.894	5.894	(0.954)	364276	25.0000	23.45
	4 Bis(2-Chloroethyl)ether	93	5.905	5.905	(0.956)	445937	25.0000	22.53
	6 2-Chlorophenol	128	5.921	5.921	(0.958)	425498	25.0000	24.41
	7 1,3-Dichlorobenzene	146	6.113	6.113	(0.990)	425403	25.0000	24.21
*	8 1,4-Dichlorobenzene-d4	152	6.177	6.177	(1.000)	210566	20.0000	
	9 1,4-Dichlorobenzene	146	6.204	6.204	(1.004)	424642	25.0000	23.95
$	10 1,2-Dichlorobenzene-d4	152	6.471	6.471	(1.048)	240463	25.0000	25.32
	12 1,2-Dichlorobenzene	146	6.493	6.493	(1.051)	397803	25.0000	23.80
	11 Benzyl alcohol	108	6.519	6.519	(1.055)	291165	25.0000	23.70
	14 2,2'-oxybis(1-Chloropropane)	45	6.776	6.776	(1.097)	721602	25.0000	24.30
	13 2-Methylphenol	108	6.808	6.808	(1.102)	415157	25.0000	25.03
	17 Hexachloroethane	117	6.968	6.968	(1.128)	195836	25.0000	25.33
	16 N-Nitroso-di-n-propylamine	70	6.989	6.989	(1.131)	310806	25.0000	24.37
	15 4-Methylphenol	108	7.043	7.043	(1.140)	434398	25.0000	26.28
$	18 Nitrobenzene-d5	82	7.118	7.118	(0.857)	466824	25.0000	26.57
	19 Nitrobenzene	77	7.144	7.144	(0.860)	470230	25.0000	25.65
	20 Isophorone	82	7.540	7.540	(0.907)	814952	25.0000	24.04
	21 2-Nitrophenol	139	7.657	7.657	(0.922)	217750	25.0000	29.12
	22 2,4-Dimethylphenol	107	7.855	7.855	(0.945)	386079	25.0000	25.60
	23 Bis(2-Chloroethoxy)methane	93	7.972	7.972	(0.959)	509834	25.0000	24.14
	24 Benzoic acid	105	8.181	8.181	(0.985)	594212	50.0000	58.86 (M)
	25 2,4-Dichlorophenol	162	8.063	8.063	(0.970)	280716	25.0000	25.90
	26 1,2,4-Trichlorobenzene	180	8.154	8.154	(0.981)	300739	25.0000	23.78
*	27 Naphthalene-d8	136	8.197	8.197	(1.000)	738477	20.0000	(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
28 Naphthalene	128	8.229	8.229	(0.990)	1031054	25.0000	23.57
29 4-Chloroaniline	127	8.416	8.416	(1.013)	476917	25.0000	24.66
30 Hexachlorobutadiene	225	8.571	8.571	(1.032)	155305	25.0000	24.61
31 4-Chloro-3-methylphenol	107	9.287	9.287	(1.118)	324556	25.0000	24.82
32 2-Methylnaphthalene	141	9.340	9.340	(1.124)	519702	25.0000	23.37(H)
33 Hexachlorocyclopentadiene	237	9.730	9.730	(0.884)	157128	25.0000	31.18
34 2,4,6-Trichlorophenol	196	9.885	9.885	(0.898)	191307	25.0000	25.99
35 2,4,5-Trichlorophenol	196	9.944	9.944	(0.903)	205206	25.0000	26.15
$ 36 2-Fluorobiphenyl	172	10.002	10.002	(0.909)	583210	25.0000	23.81
37 2-Chloronaphthalene	162	10.099	10.099	(0.917)	558354	25.0000	23.76
38 2-Nitroaniline	65	10.366	10.366	(0.942)	235460	25.0000	26.70
39 Dimethylphthalate	163	10.766	10.766	(0.978)	535004	25.0000	22.94
40 Acenaphthylene	152	10.750	10.750	(0.977)	865898	25.0000	22.63
41 2,6-Dinitrotoluene	165	10.841	10.841	(0.985)	135183	25.0000	27.76
* 42 Acenaphthene-d10	164	11.007	11.007	(1.000)	362869	20.0000	
43 3-Nitroaniline	138	11.039	11.039	(1.003)	184029	25.0000	27.58
44 Acenaphthene	153	11.055	11.055	(1.004)	516438	25.0000	22.55
45 2,4-Dinitrophenol	184	11.204	11.204	(1.018)	181910	50.0000	157.3
46 Dibenzofuran	168	11.317	11.317	(1.028)	716338	25.0000	23.21
47 4-Nitrophenol	109	11.434	11.434	(1.039)	93637	25.0000	24.71
48 2,4-Dinitrotoluene	165	11.450	11.450	(1.040)	167898	25.0000	27.09
50 Diethylphthalate	149	11.915	11.915	(1.083)	532556	25.0000	22.91
49 Fluorene	166	11.861	11.861	(1.078)	568968	25.0000	23.39
51 4-Chlorophenyl-phenylether	204	11.926	11.926	(1.083)	254912	25.0000	22.24
52 4-Nitroaniline	138	12.016	12.016	(1.092)	174421	25.0000	25.68
53 4,6-Dinitro-2-methylphenol	198	12.091	12.091	(0.907)	225949	50.0000	94.67
54 N-Nitrosodiphenylamine	169	12.139	12.139	(0.911)	384040	25.0000	24.01
$ 55 2,4,6-Tribromophenol	330	12.284	12.284	(1.116)	92317	25.0000	24.99
56 4-Bromophenyl-phenylether	248	12.684	12.684	(0.952)	150649	25.0000	24.41
57 Hexachlorobenzene	284	12.860	12.860	(0.965)	154319	25.0000	23.67
58 Pentachlorophenol	266	13.186	13.186	(0.990)	98137	25.0000	25.34
* 59 Phenanthrene-d10	188	13.325	13.325	(1.000)	499867	20.0000	
60 Phenanthrene	178	13.357	13.357	(1.002)	779703	25.0000	23.37
61 Anthracene	178	13.427	13.427	(1.008)	808650	25.0000	23.46
62 Carbazole	167	13.742	13.742	(1.031)	705987	25.0000	23.80
63 Di-n-butylphthalate	149	14.533	14.533	(1.091)	906837	25.0000	24.79
64 Fluoranthene	202	15.254	15.254	(1.145)	741976	25.0000	23.44
65 Pyrene	202	15.590	15.590	(0.888)	760050	25.0000	23.63
$ 66 Terphenyl-d14	244	15.970	15.970	(0.910)	472652	25.0000	23.21
67 Butylbenzylphthalate	149	16.888	16.888	(0.962)	380394	25.0000	25.16
68 Benzo(a)anthracene	228	17.529	17.529	(0.999)	683271	25.0000	23.60
* 69 Chrysene-d12	240	17.551	17.551	(1.000)	387597	20.0000	
70 3,3'-Dichlorobenzidine	252	17.588	17.588	(1.002)	273431	25.0000	24.54
71 Chrysene	228	17.588	17.588	(1.002)	652493	25.0000	22.28
72 bis(2-Ethylhexyl)phthalate	149	17.919	17.919	(0.951)	537833	25.0000	24.01
* 134 Di-n-octylphthalate-d4	153	18.838	18.838	(1.000)	653887	20.0000	
73 Di-n-octylphthalate	149	18.849	18.849	(1.001)	925893	25.0000	23.84

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	19.154	19.154	(0.974)	810621	25.0000	24.59
75 Benzo(k)fluoranthene	252	19.186	19.186	(0.976)	752743	25.0000	23.77
76 Benzo(a)pyrene	252	19.581	19.581	(0.996)	776722	25.0000	23.54
* 77 Perylene-d12	264	19.656	19.656	(1.000)	508340	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	20.997	20.997	(1.068)	1002855	25.0000	25.71
79 Dibenzo(a,h)anthracene	278	21.034	21.034	(1.070)	826825	25.0000	25.60
80 Benzo(g,h,i)perylene	276	21.285	21.285	(1.083)	907280	25.0000	25.39
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
91 Aniline	93	5.755	5.755	(0.932)	735528	25.0000	23.35
105 1-methylnaphthalene	141	9.506	9.506	(1.144)	505202	25.0000	23.61
93 Benzidine	184	15.558	15.558	(0.886)	351213	25.0000	20.06
98 Retene	219	16.189	16.189	(0.922)	378007	25.0000	22.68
111 Azobenzene (1,2-DP-Hydrazine)	77	12.166	12.166	(1.105)	883935	25.0000	25.35
144 alpha-Terpineol	59	8.309	8.309	(1.000)	352827	25.0000	24.33
143 1,4-Dioxane	88	Compound Not Detected.					
$ 137 d8-1,4-Dioxane	96	Compound Not Detected.					
133 Butylatedhydroxytoluene	205	11.258	11.258	(1.023)	351287	25.0000	20.27
115 Tributyl Phosphate	99	12.321	12.321	(0.925)	885312	25.0000	24.75
116 Dibutyl Phenyl Phosphate	175	13.988	13.988	(1.050)	393160	25.0000	25.08
117 Butyl Diphenyl Phosphate	94	15.622	15.622	(0.890)	187128	25.0000	25.09
118 Triphenyl Phosphate	326	17.182	17.182	(0.979)	118304	25.0000	22.18
123 Acetophenone	105	6.899	6.899	(1.117)	545749	25.0000	23.26

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: nt6.i
Lab File ID: cc0606.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info:

Calibration Date: 06-JUN-2007
Calibration Time: 08:14

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	210566	105283	421132	210566	0.00
27 Naphthalene-d8	738477	369238	1476954	738477	0.00
42 Acenaphthene-d10	362869	181434	725738	362869	0.00
59 Phenanthrene-d10	499867	249934	999734	499867	0.00
69 Chrysene-d12	387597	193798	775194	387597	0.00
134 Di-n-octylphthala	653887	326944	1307774	653887	0.00
77 Perylene-d12	508340	254170	1016680	508340	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.18	5.68	6.68	6.18	0.00
27 Naphthalene-d8	8.20	7.70	8.70	8.20	0.00
42 Acenaphthene-d10	11.01	10.51	11.51	11.01	0.00
59 Phenanthrene-d10	13.33	12.83	13.83	13.33	0.00
69 Chrysene-d12	17.55	17.05	18.05	17.55	0.00
134 Di-n-octylphthala	18.84	18.34	19.34	18.84	0.00
77 Perylene-d12	19.66	19.16	20.16	19.66	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.

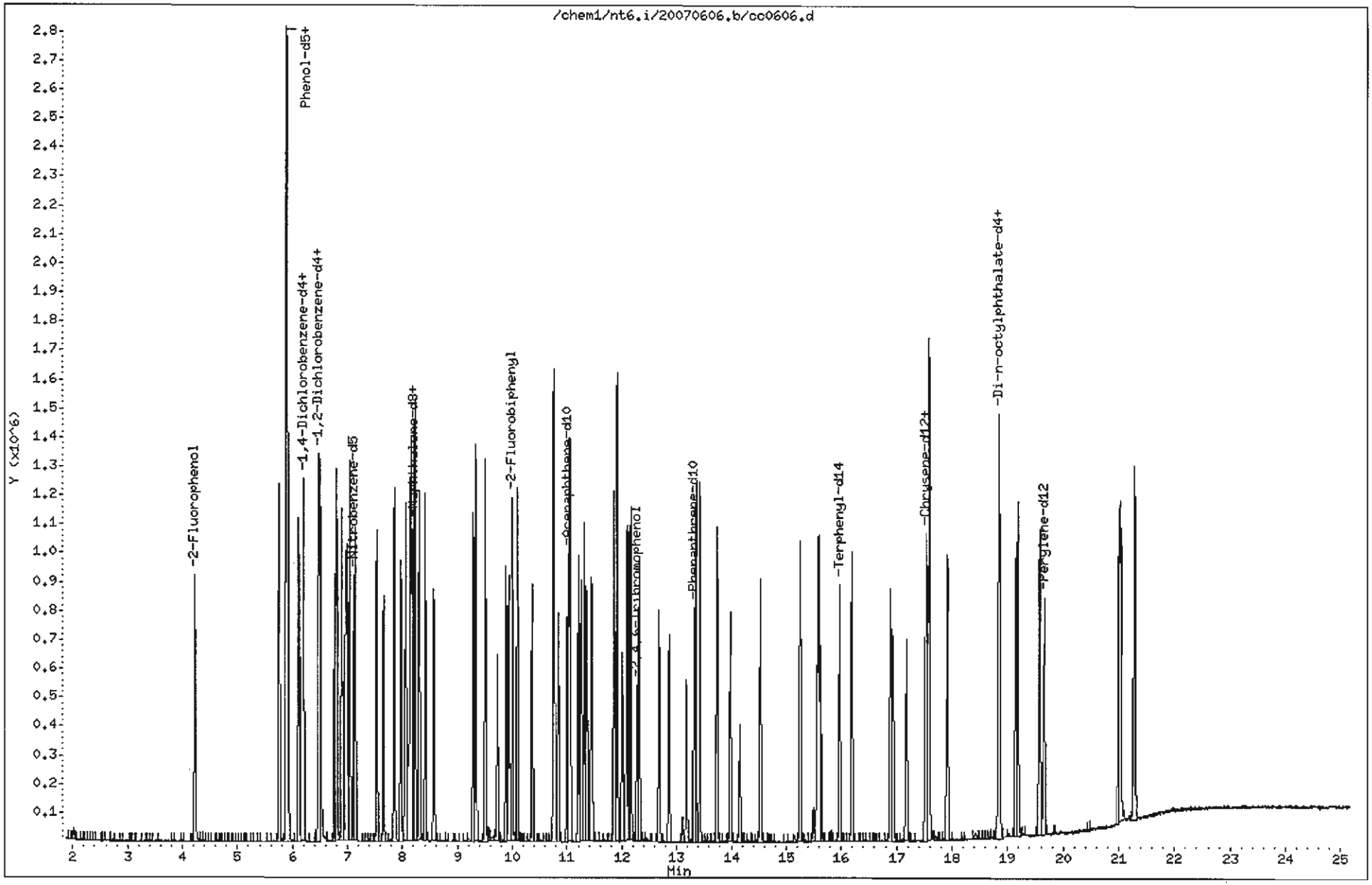
Data File: /chem1/nt6.i/20070606.b/cc0606.d
Date : 06-JUN-2007 08:14
Client ID:
Sample Info: ABN 25

Column phase: ZB-5

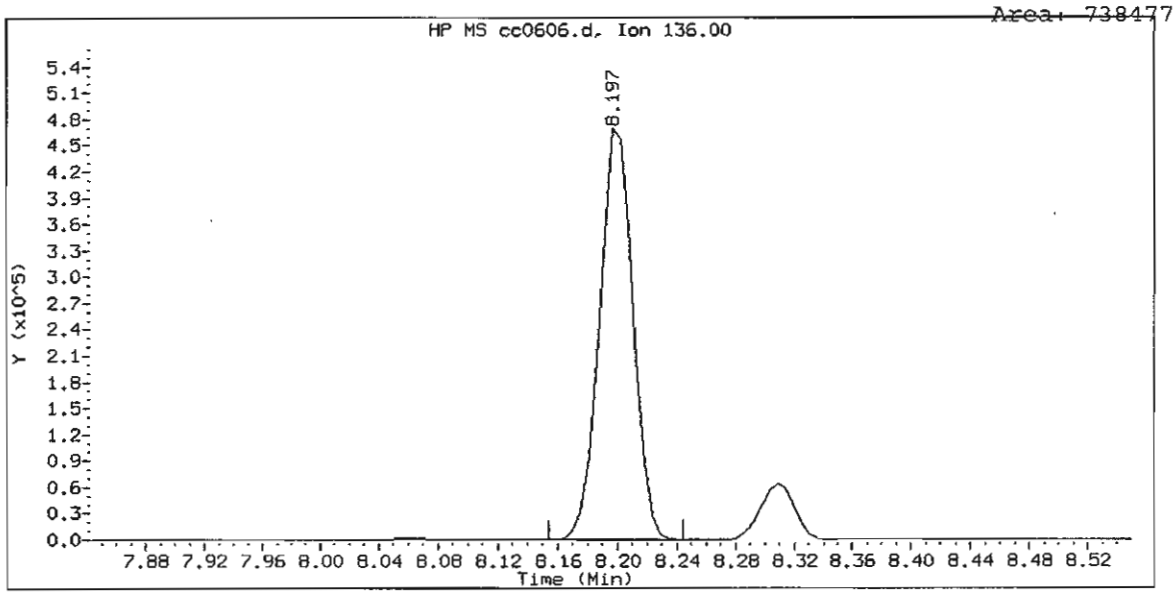
Instrument: nt6.i

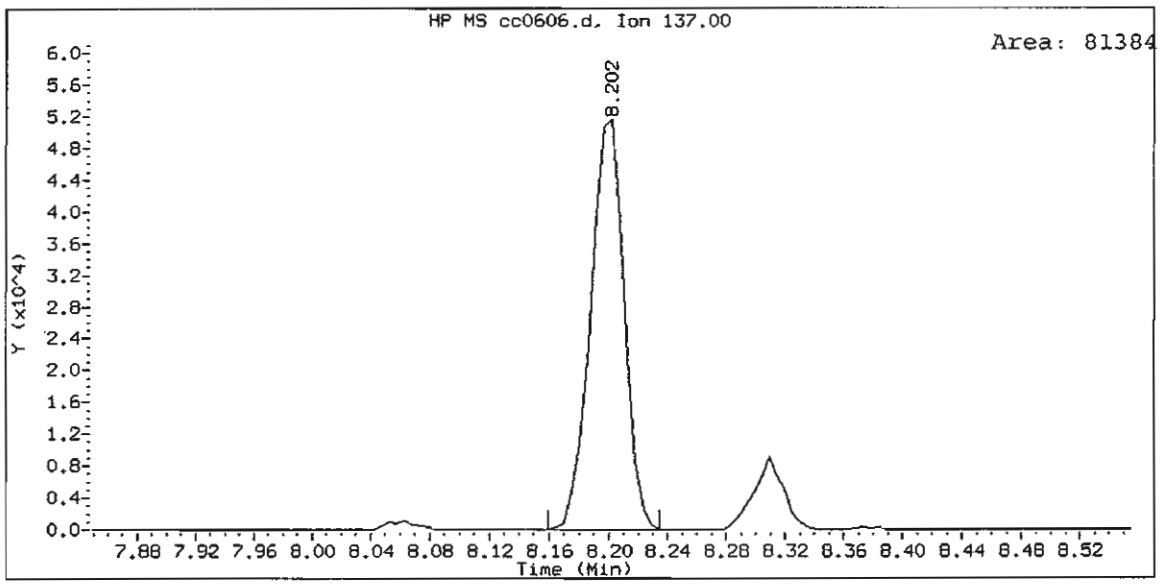
Operator: LJR/VTS
Column diameter: 0.32

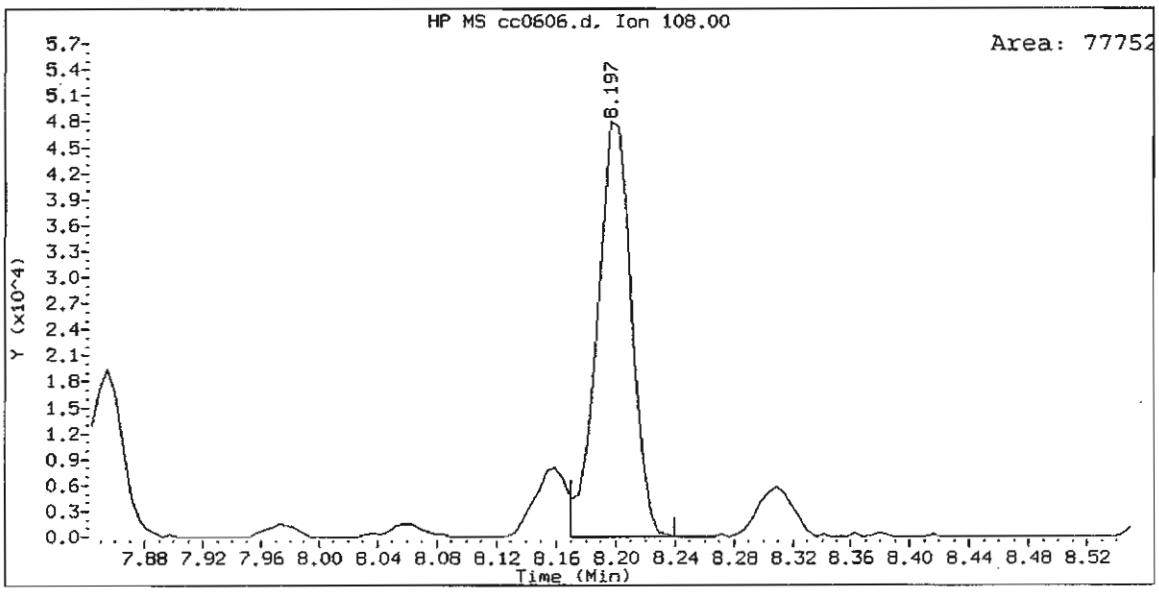
0890



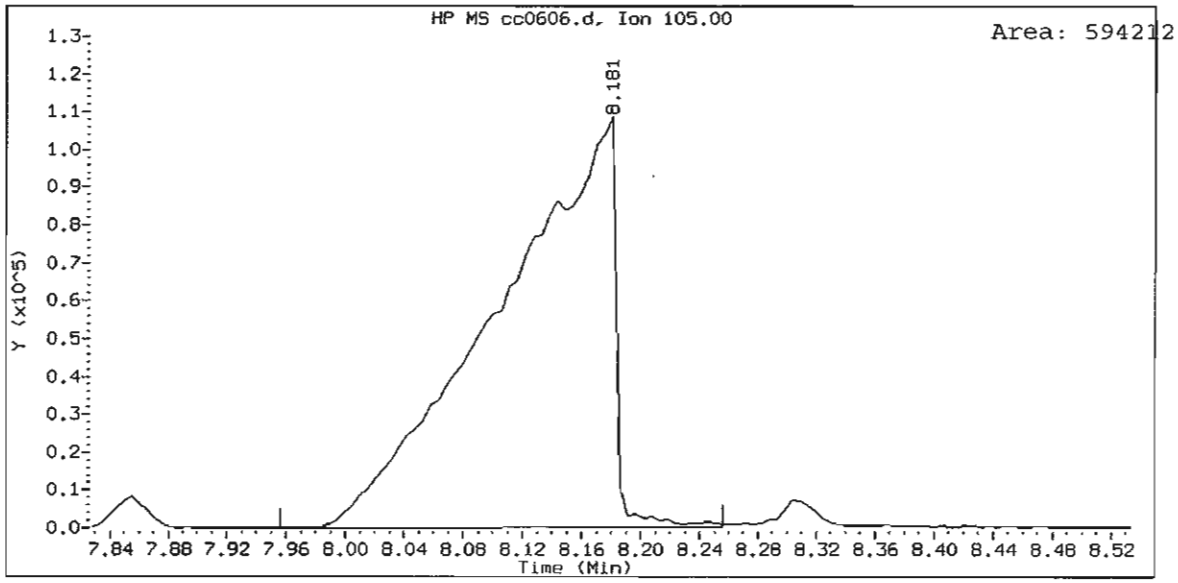
ABN 25, /chem1/nt6.i/20070606.b/cc0606.d
Naphthalene-d8 Amount: 20.00

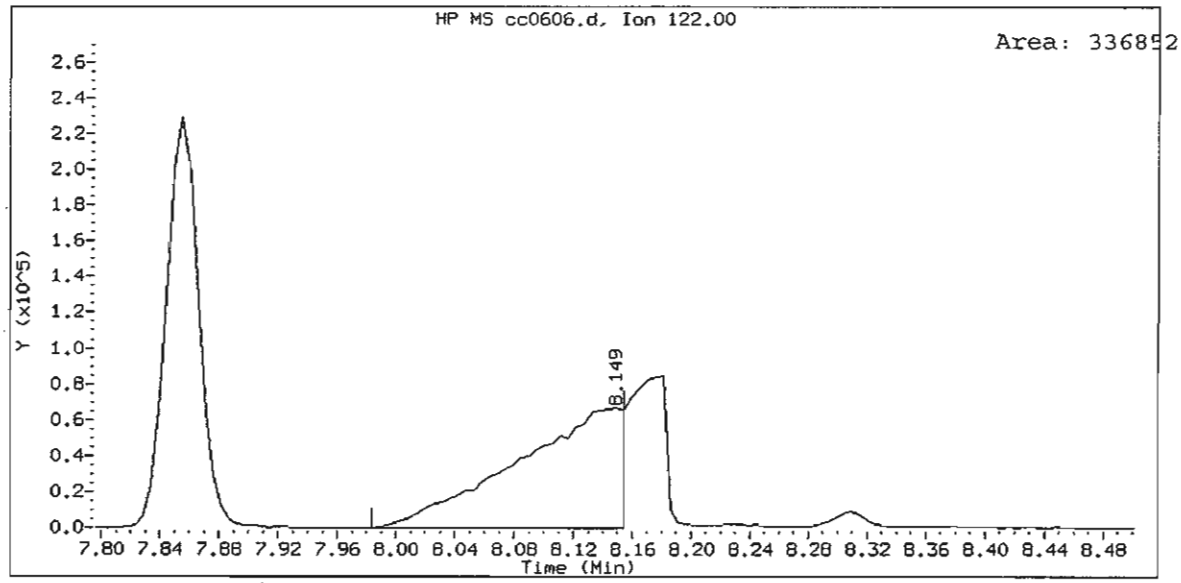


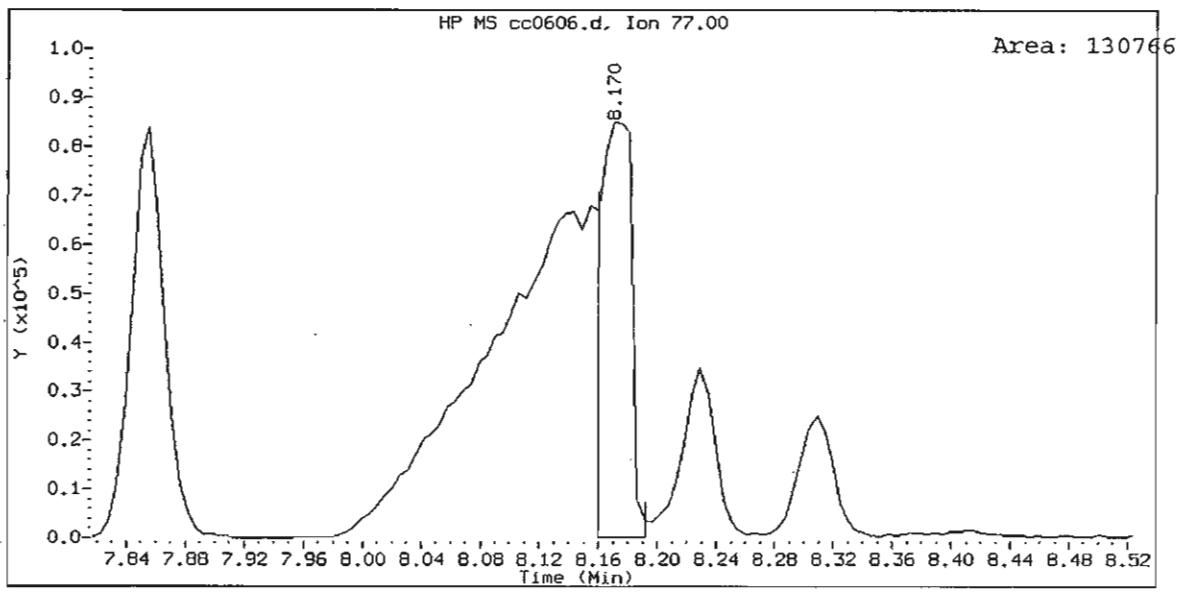




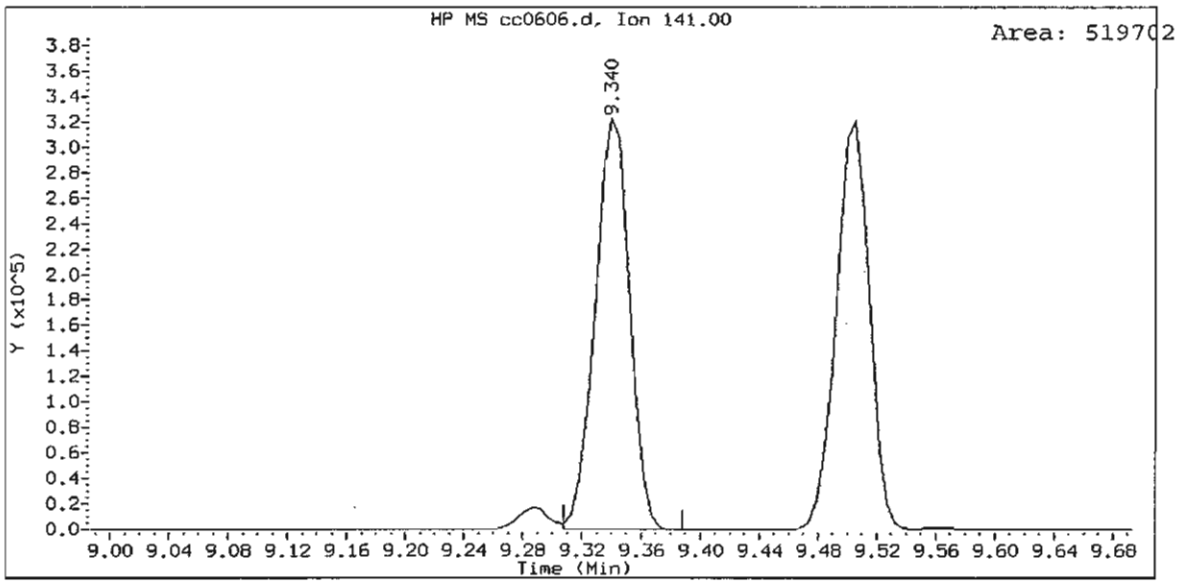
ABN 25, /chem1/nt6.i/20070606.b/cc0606.d
Benzoic acid Amount: 58.86

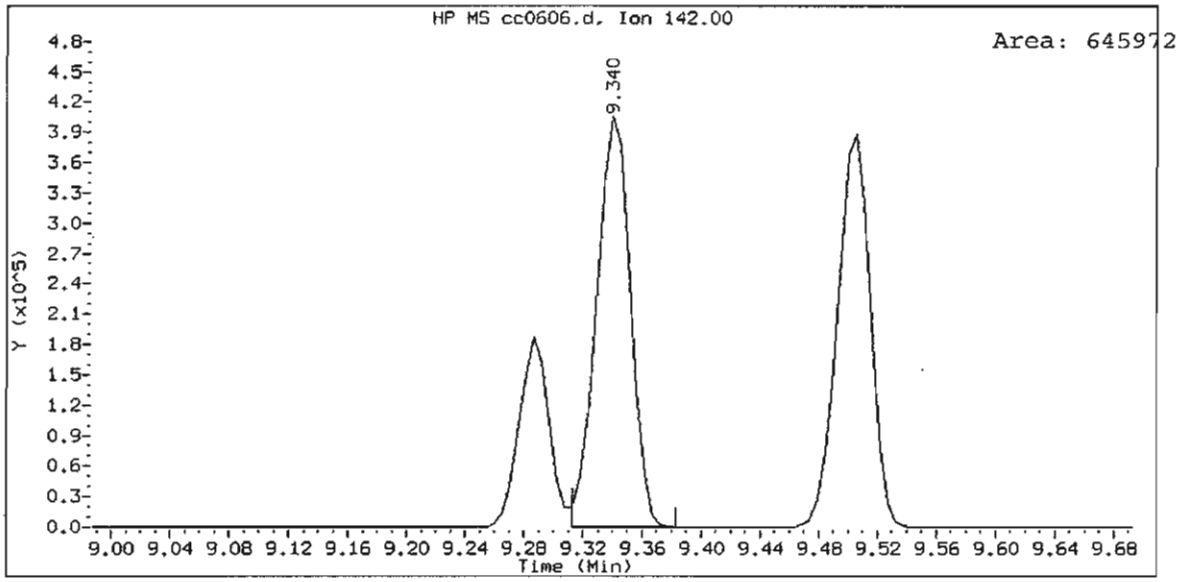






ABN 25, /chem1/nt6.i/20070606.b/cc0606.d
2-Methylnaphthalene Amount: 23.37





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

Data file: /chem1/nt6.i/20070606.b/ddt.b/cc0606.d
Method: /chem1/nt6.i/20070606.b/ddt.b/sw846ddt.m
Analysis Date: 06-JUN-2007 08:14

ARI ID:
Misc:
Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	13.186	98137
Benzidine	15.558	347738
4,4'-DDE	----	----
4,4'-DDD	16.472	1536
4,4'-DDT	16.942	242492

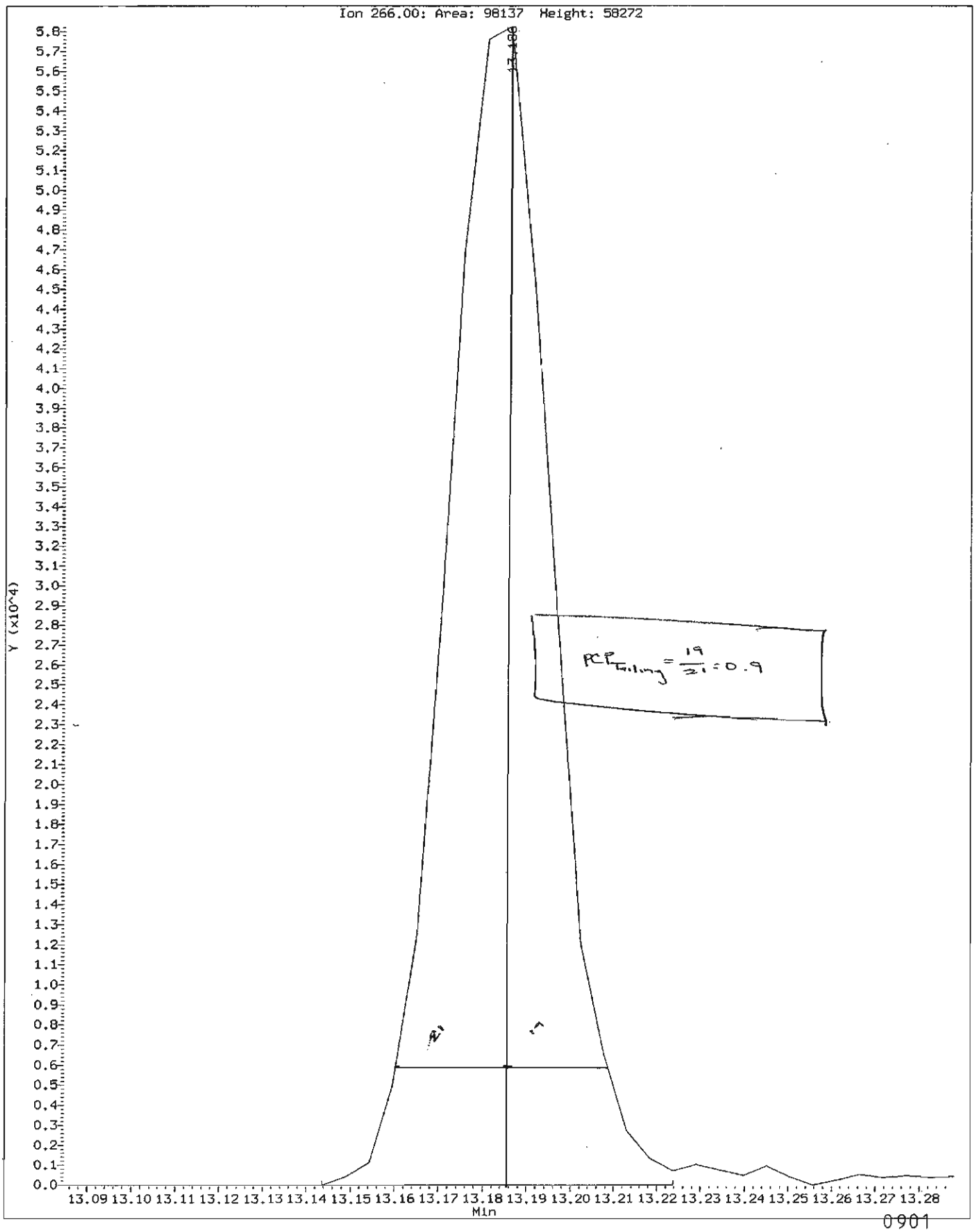
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 1536) * 100}{(0 + 1536 + 242492)}$$

DDT Percent Breakdown = 0.6 %

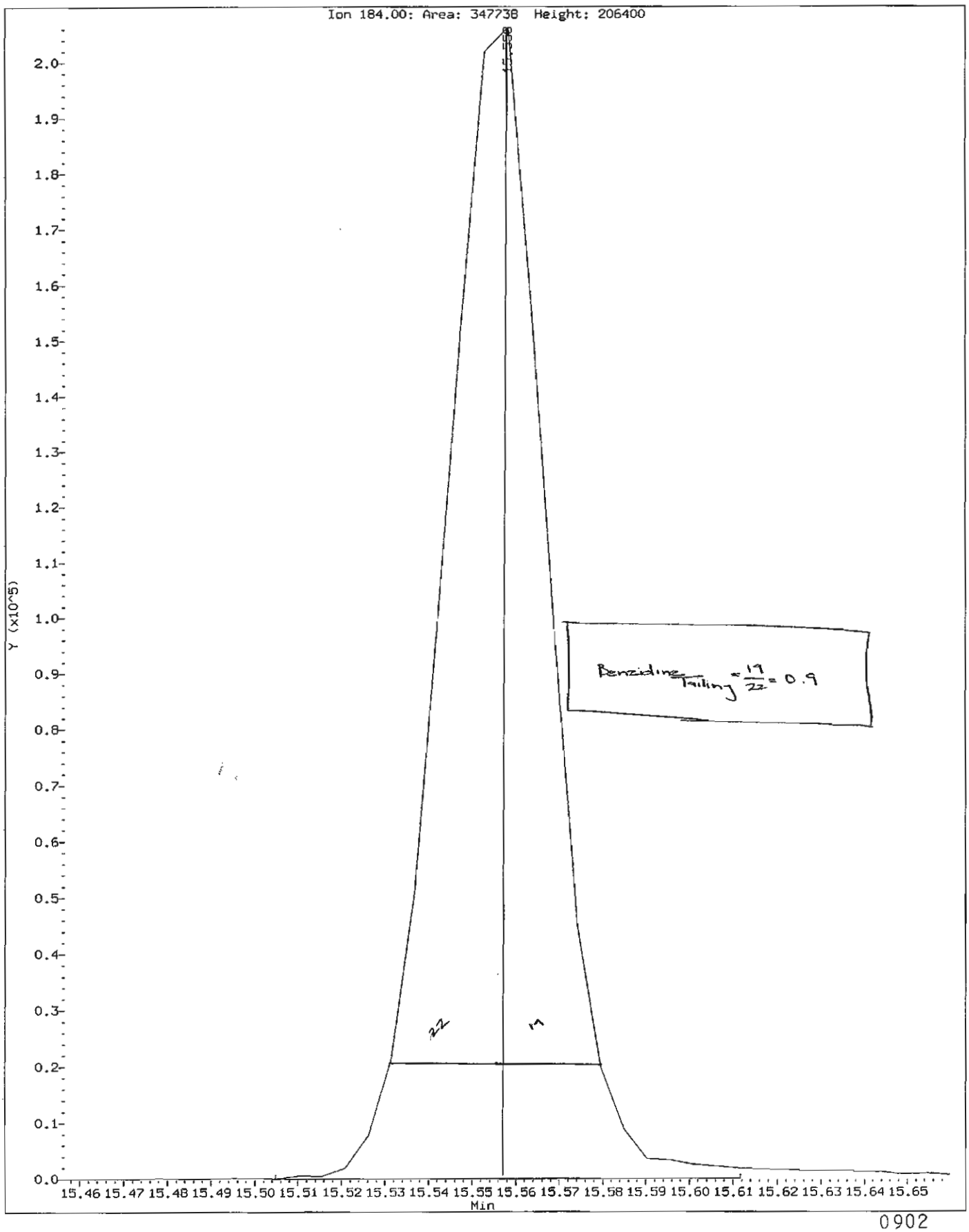
Data File: /chem1/nt6.i/20070606.b/ddt.b/cc0606.d
Injection Date: 06-JUN-2007 08:14
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20070606.b/ddt.b/cc0606.d
Injection Date: 06-JUN-2007 08:14
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Semivolatile Organics
QC Raw Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt6.i/20070503.b/tune.b/0250503.d

Date : 03-MAY-2007 10:33

Client ID:

Instrument: nt6.i

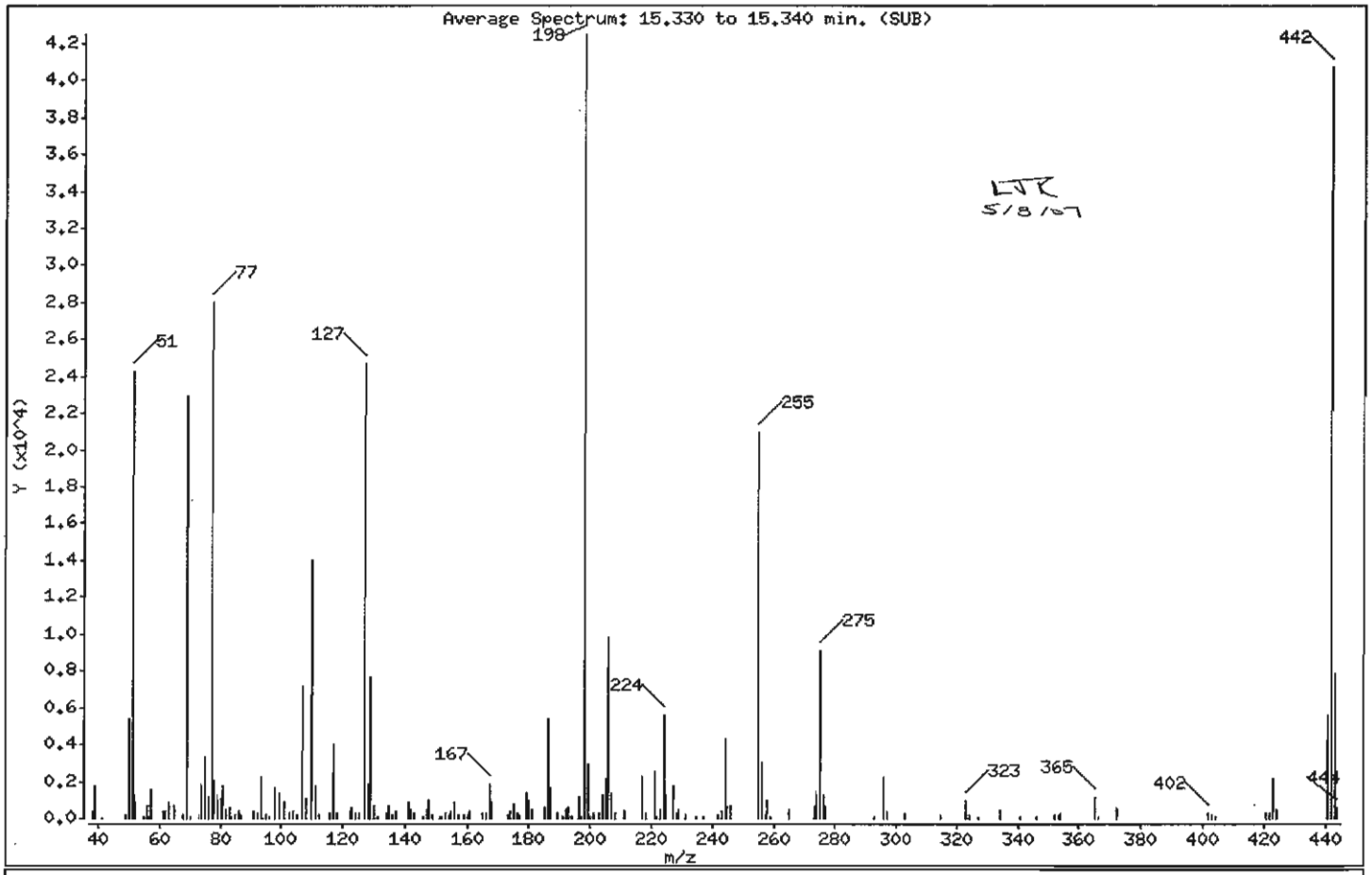
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	57.19
68	Less than 2.00% of mass 69	0.35 (0.64)
69	Mass 69 relative abundance	54.04
70	Less than 2.00% of mass 69	0.24 (0.44)
127	25.00 - 75.00% of mass 198	58.03
197	Less than 1.00% of mass 198	0.24
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 30.00% of mass 198	21.43
365	Greater than 0.75% of mass 198	2.80
441	Present, but less than mass 443	13.11
442	40.00 - 110.00% of mass 198	95.84
443	15.00 - 24.00% of mass 442	18.54 (19.34)

Data File: /chem1/nt6.i/20070503.b/tune.b/0250503.d

Date : 03-MAY-2007 10:33

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250503.d
Spectrum: Average Spectrum: 15.330 to 15.340 min. (SUB)
Location of Maximum: 198.00
Number of points: 173

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	350	105.00	179	174.00	395	245.00	657
39.00	1738	107.00	7116	175.00	749	246.00	723
41.00	36	108.00	1119	176.00	295	255.00	20952
49.00	175	110.00	13966	177.00	219	256.00	3053
50.00	5426	111.00	1750	179.00	1393	257.00	161
51.00	24280	112.00	203	180.00	994	258.00	984
52.00	1317	116.00	340	181.00	513	259.00	73
55.00	53	117.00	4037	185.00	630	265.00	483
56.00	696	118.00	261	186.00	5404	273.00	687
57.00	1566	122.00	381	187.00	1675	274.00	1516
61.00	367	123.00	540	189.00	287	275.00	9099
62.00	347	124.00	263	191.00	89	276.00	1320
63.00	893	125.00	341	192.00	491	277.00	692
65.00	645	127.00	24640	193.00	543	293.00	81
68.00	147	128.00	1846	194.00	71	296.00	2247
69.00	22944	129.00	7657	196.00	1211	297.00	384
70.00	102	130.00	695	197.00	101	303.00	309
73.00	176	131.00	146	198.00	42464	315.00	244
74.00	1875	134.00	278	199.00	2934	323.00	975
75.00	3327	135.00	664	200.00	220	324.00	147
76.00	1195	136.00	161	201.00	282	327.00	73
77.00	27960	137.00	395	203.00	331	334.00	524
78.00	2050	141.00	873	204.00	1275	341.00	82
79.00	1238	142.00	510	205.00	2127	346.00	75
80.00	1063	143.00	303	206.00	9770	352.00	176
81.00	1782	146.00	81	207.00	1334	353.00	164
82.00	462	147.00	517	208.00	311	354.00	324
83.00	601	148.00	980	211.00	387	365.00	1187
84.00	106	149.00	179	217.00	2206	366.00	101
85.00	178	151.00	71	218.00	290	372.00	615
86.00	373	152.00	74	221.00	2536	402.00	289
87.00	166	153.00	292	222.00	86	403.00	238
91.00	419	154.00	211	223.00	525	404.00	67
92.00	337	155.00	392	224.00	5534	421.00	331
93.00	2272	156.00	921	225.00	1254	422.00	270

Data File: /chem1/nt6.i/20070503.b/tune.b/0250503.d

Date : 03-MAY-2007 10:33

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250503.d
Spectrum: Average Spectrum: 15.330 to 15.340 min. (SUB)
Location of Maximum: 198.00
Number of points: 173

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.00	194	157.00	173	227.00	1800	423.00	2148
95.00	149	159.00	152	228.00	261	424.00	442
96.00	67	160.00	176	229.00	536	441.00	5565
98.00	1632	161.00	432	231.00	168	442.00	40696
99.00	1387	165.00	280	235.00	75	443.00	7872
100.00	78	166.00	281	237.00	81	444.00	635
101.00	843	167.00	1895	242.00	214		
103.00	295	168.00	922	243.00	343		
104.00	426	173.00	198	244.00	4336		

Data File: /chem1/nt6.i/20070503.b/tune.b/0250503.d

Date : 03-MAY-2007 10:33

Client ID:

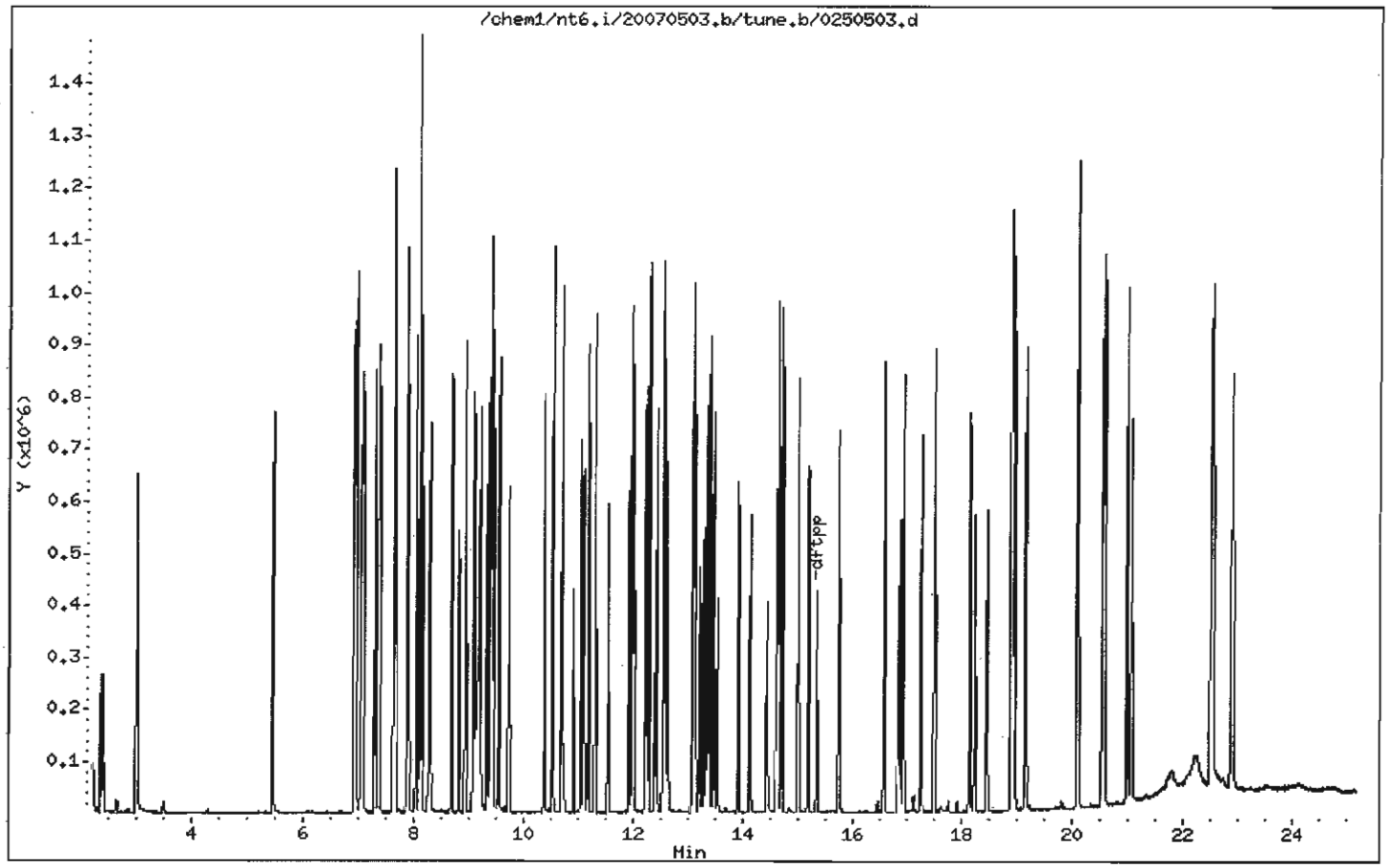
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20070525.b/tune.b/co0525.d

Date : 25-MAY-2007 10:59

Client ID:

Instrument: nt6.i

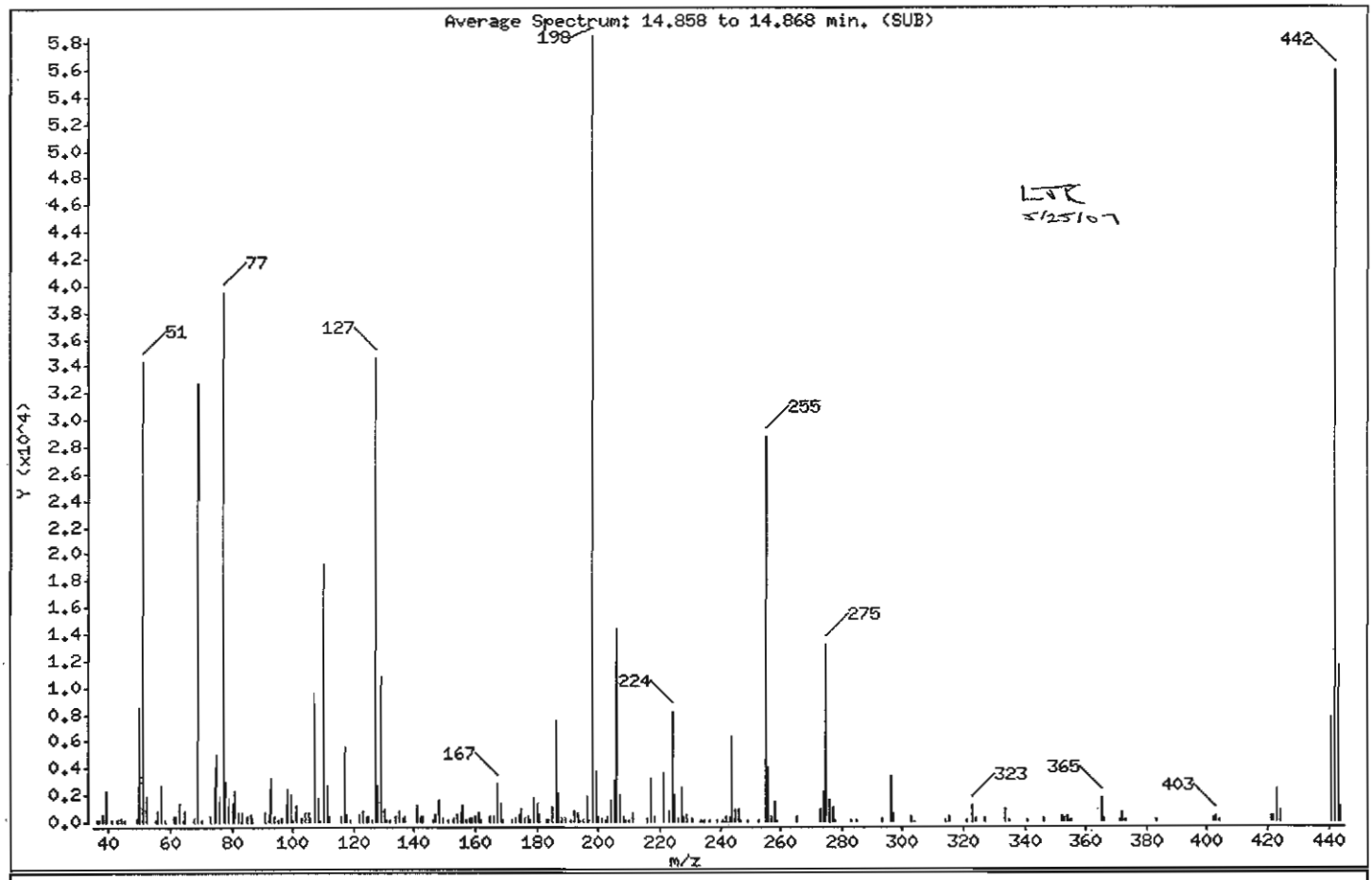
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	58.86
68	Less than 2.00% of mass 69	0.54 (0.97)
69	Mass 69 relative abundance	55.89
70	Less than 2.00% of mass 69	0.30 (0.54)
127	25.00 - 75.00% of mass 198	59.27
197	Less than 1.00% of mass 198	0.20
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 30.00% of mass 198	22.54
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	13.09
442	40.00 - 110.00% of mass 198	95.73
443	15.00 - 24.00% of mass 442	19.87 (20.75)

Data File: /chem1/nt6.i/20070525.b/tune.b/cc0525.d

Date : 25-MAY-2007 10:59

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0525.d
Spectrum: Average Spectrum: 14.858 to 14.868 min. (SUB)
Location of Maximum: 198.00
Number of points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	103	109.00	125	180.00	1329	253.00	73
37.00	72	110.00	19296	181.00	548	255.00	28608
38.00	483	111.00	2655	183.00	72	256.00	4007
39.00	2335	112.00	360	184.00	68	257.00	358
41.00	103	116.00	434	185.00	1066	258.00	1512
43.00	113	117.00	5527	186.00	7529	259.00	182
44.00	240	118.00	484	187.00	2101	265.00	458
45.00	70	119.00	91	188.00	205	273.00	900
49.00	282	122.00	556	189.00	333	274.00	2300
50.00	8433	123.00	753	191.00	159	275.00	13168
51.00	34384	124.00	344	192.00	863	276.00	1583
52.00	1885	125.00	401	193.00	647	277.00	1010
55.00	124	126.00	85	194.00	197	278.00	84
56.00	835	127.00	34624	195.00	87	283.00	142
57.00	2728	128.00	2719	196.00	1830	285.00	165
58.00	70	129.00	10823	197.00	117	293.00	248
61.00	449	130.00	940	198.00	58416	296.00	3332
62.00	439	131.00	160	199.00	3826	297.00	612
63.00	1370	132.00	78	200.00	342	303.00	358
64.00	68	134.00	351	201.00	203	304.00	67
65.00	862	135.00	861	202.00	96	314.00	105
68.00	316	136.00	282	203.00	374	315.00	379
69.00	32648	137.00	440	204.00	1629	321.00	69
70.00	176	141.00	1277	205.00	3050	323.00	1253
73.00	345	142.00	391	206.00	14369	324.00	203
74.00	2567	143.00	373	207.00	2080	327.00	257
75.00	4945	146.00	153	208.00	340	334.00	911
76.00	1901	147.00	567	209.00	77	335.00	188
77.00	39392	148.00	1605	210.00	73	341.00	76
78.00	2971	149.00	326	211.00	606	346.00	289
79.00	1689	151.00	153	216.00	320	352.00	470
80.00	1396	153.00	319	217.00	3222	353.00	273
81.00	2298	154.00	545	218.00	402	354.00	407
82.00	739	155.00	728	221.00	3576	355.00	70
83.00	719	156.00	1223	223.00	792	365.00	1704

Data File: /chem1/nt6.i/20070525.b/tune.b/cc0525.d

Date : 25-MAY-2007 10:59

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0525.d
Spectrum: Average Spectrum: 14.858 to 14.868 min. (SUB)
Location of Maximum: 198.00
Number of points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	468	157.00	166	224.00	8144	366.00	210
86.00	535	158.00	269	225.00	2033	371.00	72
87.00	324	159.00	329	226.00	221	372.00	718
91.00	718	160.00	428	227.00	2537	373.00	148
92.00	491	161.00	622	228.00	361	383.00	173
93.00	3277	162.00	74	229.00	599	402.00	308
94.00	349	165.00	426	231.00	265	403.00	356
95.00	144	166.00	416	234.00	86	404.00	87
96.00	336	167.00	2792	235.00	168	421.00	361
98.00	2359	168.00	1373	237.00	198	422.00	381
99.00	2003	169.00	171	239.00	69	423.00	2399
100.00	70	172.00	97	241.00	189	424.00	746
101.00	1157	173.00	303	242.00	442	441.00	7649
103.00	330	174.00	547	243.00	410	442.00	55920
104.00	622	175.00	973	244.00	6266	443.00	11607
105.00	701	176.00	227	245.00	885	444.00	1011
106.00	249	177.00	470	246.00	899		
107.00	9497	178.00	184	247.00	109		
108.00	1720	179.00	1725	249.00	155		

Data File: /chem1/nt6.i/20070525.b/tune.b/cc0525.d

Date : 25-MAY-2007 10:59

Client ID:

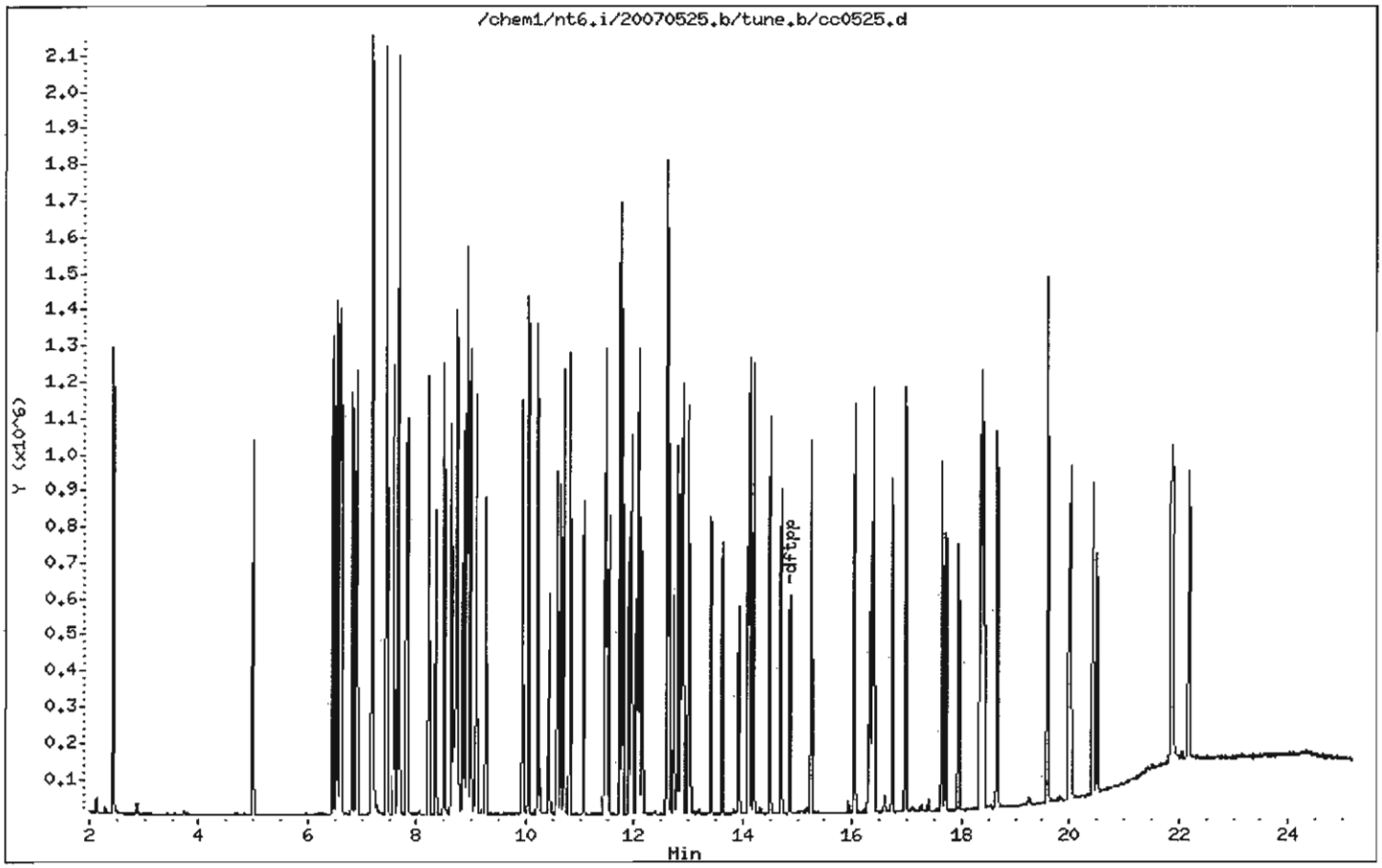
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20070526.b/tune.b/cc0526.d

Date : 26-MAY-2007 09:30

Client ID:

Instrument: nt6.i

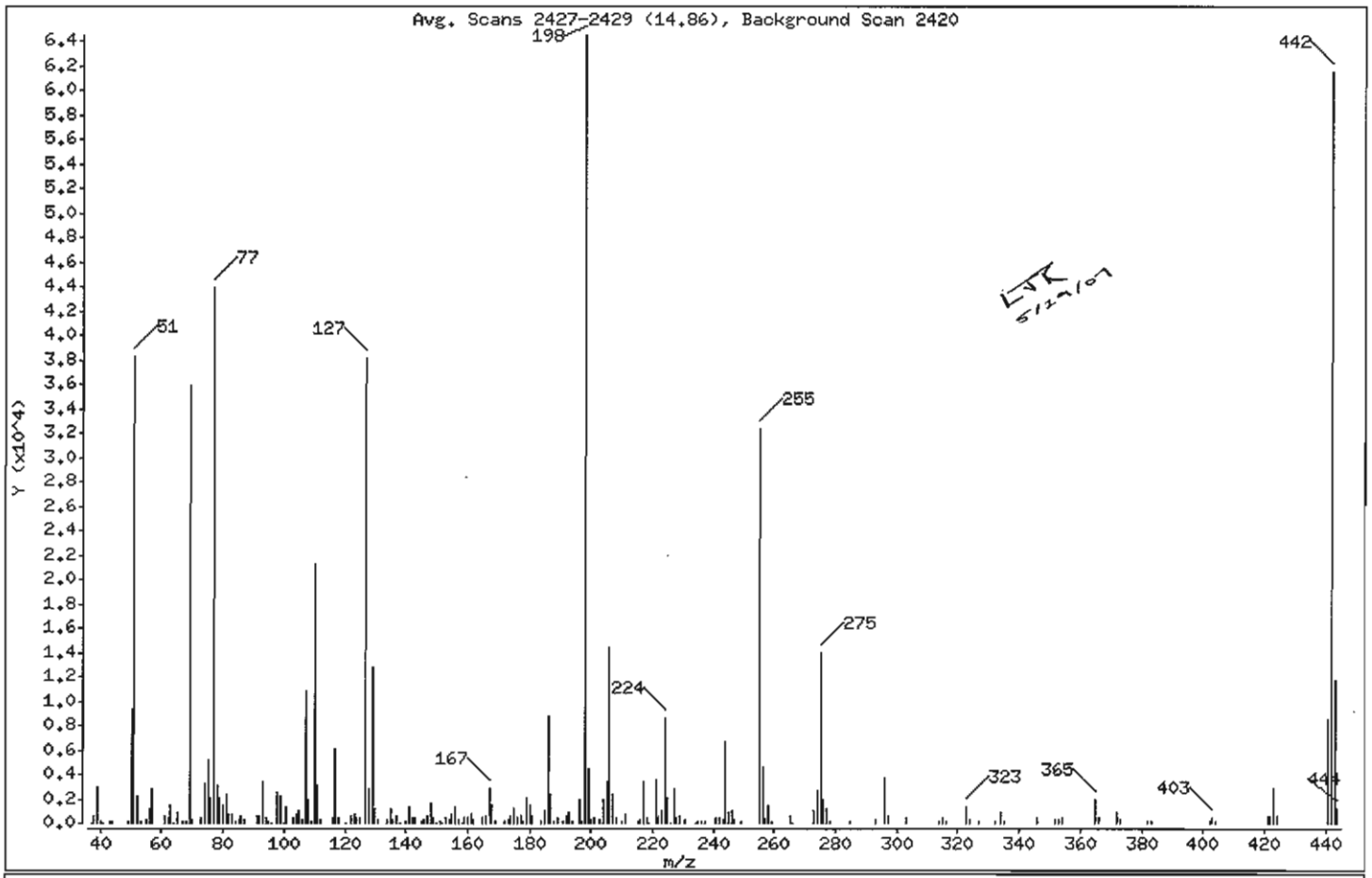
Sample Info: CC0526

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	59.22
68	Less than 2.00% of mass 69	0.26 (0.47)
69	Mass 69 relative abundance	55.53
70	Less than 2.00% of mass 69	0.35 (0.63)
127	25.00 - 75.00% of mass 198	59.18
197	Less than 1.00% of mass 198	0.16
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 30.00% of mass 198	21.51
365	Greater than 0.75% of mass 198	2.98
441	Present, but less than mass 443	13.05
442	40.00 - 110.00% of mass 198	95.39
443	15.00 - 24.00% of mass 442	18.26 (19.15)

Data File: /chem1/nt6.i/20070526.b/tune.b/cc0526.d

Date : 26-MAY-2007 09:30

Client ID:

Instrument: nt6.i

Sample Info: CC0526

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0526.d
Spectrum: Avg. Scans 2427-2429 (14.86), Background Scan 2420
Location of Maximum: 198.00
Number of points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	67	108.00	1910	176.00	381	246.00	1073
38.00	555	109.00	174	177.00	534	247.00	339
39.00	2950	110.00	21264	178.00	90	249.00	210
40.00	143	111.00	3142	179.00	2105	255.00	32288
41.00	35	112.00	347	180.00	1535	256.00	4638
43.00	99	116.00	454	181.00	558	257.00	419
44.00	90	117.00	6033	184.00	86	258.00	1522
49.00	175	118.00	469	185.00	1055	259.00	85
50.00	9285	120.00	71	186.00	8734	265.00	637
51.00	38184	122.00	550	187.00	2355	266.00	68
52.00	2217	123.00	722	188.00	110	273.00	1093
53.00	78	124.00	447	189.00	455	274.00	2646
55.00	329	125.00	482	191.00	169	275.00	13869
56.00	1119	127.00	38160	192.00	608	276.00	1899
57.00	2826	128.00	2812	193.00	824	277.00	1118
61.00	526	129.00	12750	194.00	165	278.00	150
62.00	513	130.00	1212	196.00	1959	285.00	189
63.00	1449	131.00	239	197.00	104	293.00	294
64.00	68	134.00	338	198.00	64480	296.00	3703
65.00	816	135.00	1122	199.00	4376	297.00	571
67.00	83	136.00	366	200.00	345	303.00	476
68.00	169	137.00	534	201.00	409	314.00	206
69.00	35808	138.00	67	203.00	228	315.00	514
70.00	226	140.00	77	204.00	1976	316.00	195
73.00	390	141.00	1384	205.00	3454	323.00	1298
74.00	3198	142.00	493	206.00	14311	324.00	296
75.00	5122	143.00	478	207.00	2323	327.00	179
76.00	2079	145.00	90	208.00	499	332.00	75
77.00	43896	146.00	328	210.00	155	334.00	901
78.00	3170	147.00	632	211.00	705	335.00	191
79.00	2115	148.00	1702	215.00	77	346.00	436
80.00	1489	149.00	438	216.00	306	352.00	365
81.00	2343	150.00	68	217.00	3411	353.00	255
82.00	717	151.00	178	218.00	453	354.00	516
83.00	694	152.00	74	219.00	67	365.00	1923

Data File: /chem1/nt6.i/20070526.b/tune.b/cc0526.d

Date : 26-MAY-2007 09:30

Client ID:

Instrument: nt6.i

Sample Info: CC0526

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0526.d
Spectrum: Avg. Scans 2427-2429 (14.86), Background Scan 2420
Location of Maximum: 198.00
Number of points: 213

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	75	153.00	429	221.00	3486	366.00	372
85.00	226	154.00	364	222.00	551	372.00	873
86.00	566	155.00	788	223.00	1004	373.00	238
87.00	324	156.00	1386	224.00	8585	382.00	88
91.00	547	157.00	258	225.00	2028	383.00	100
92.00	589	158.00	74	226.00	71	402.00	214
93.00	3454	159.00	436	227.00	2841	403.00	506
94.00	396	160.00	498	228.00	411	404.00	190
95.00	81	161.00	785	229.00	607	421.00	659
96.00	69	162.00	306	231.00	332	422.00	563
98.00	2592	165.00	451	234.00	68	423.00	2827
99.00	2193	166.00	552	235.00	96	424.00	643
100.00	67	167.00	2832	236.00	150	441.00	8418
101.00	1338	168.00	1438	237.00	154	442.00	61512
103.00	454	169.00	99	241.00	371	443.00	11778
104.00	698	172.00	206	242.00	412	444.00	1120
105.00	967	173.00	301	243.00	334		
106.00	261	174.00	617	244.00	6719		
107.00	10749	175.00	1176	245.00	852		

Data File: /chem1/nt6.i/20070526.b/tune.b/cc0526.d

Date : 26-MAY-2007 09:30

Client ID:

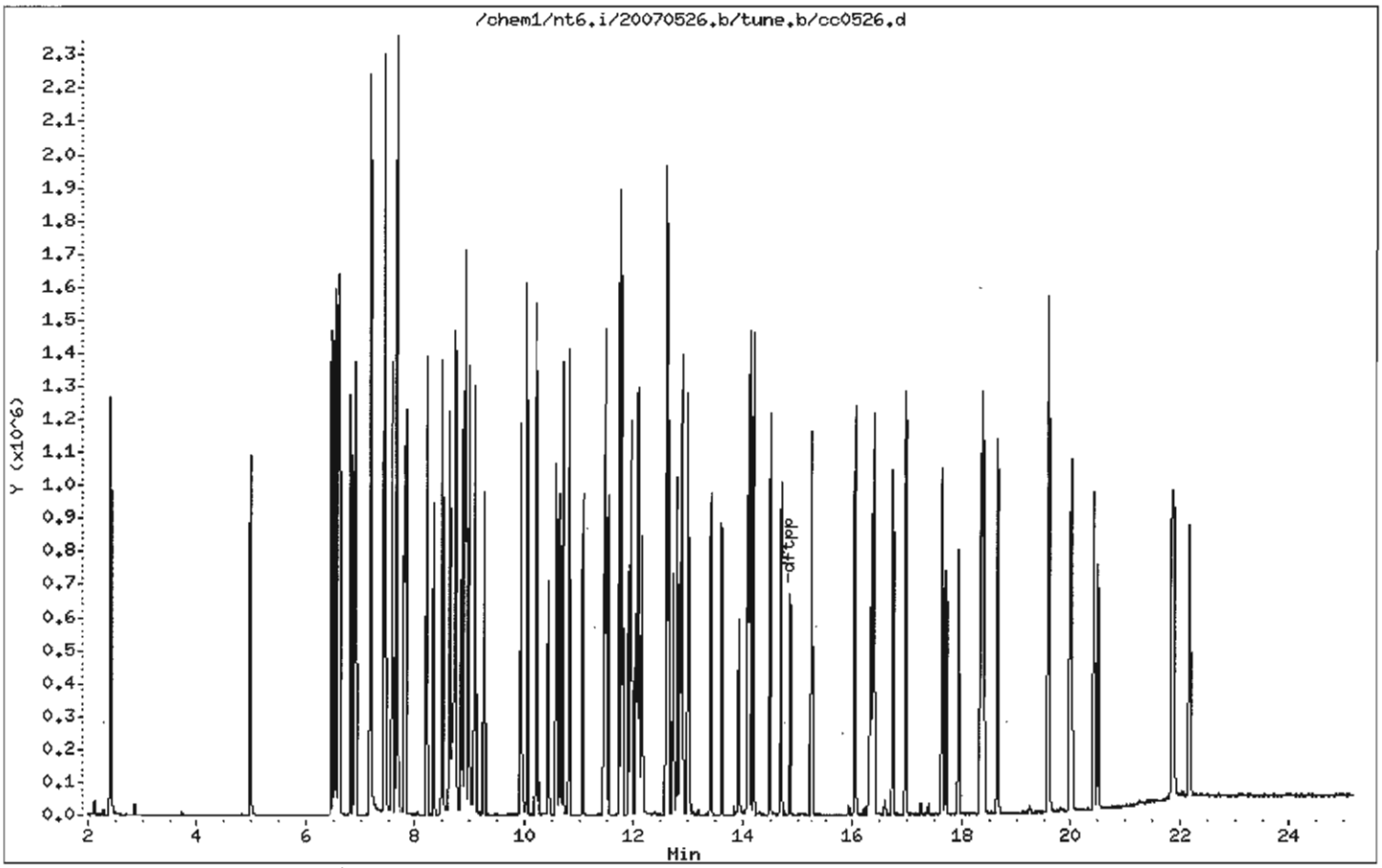
Instrument: nt6.i

Sample Info: CC0526

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20070529.b/tune.b/cc0529.d

Date : 29-MAY-2007 08:47

Client ID:

Instrument: nt6.i

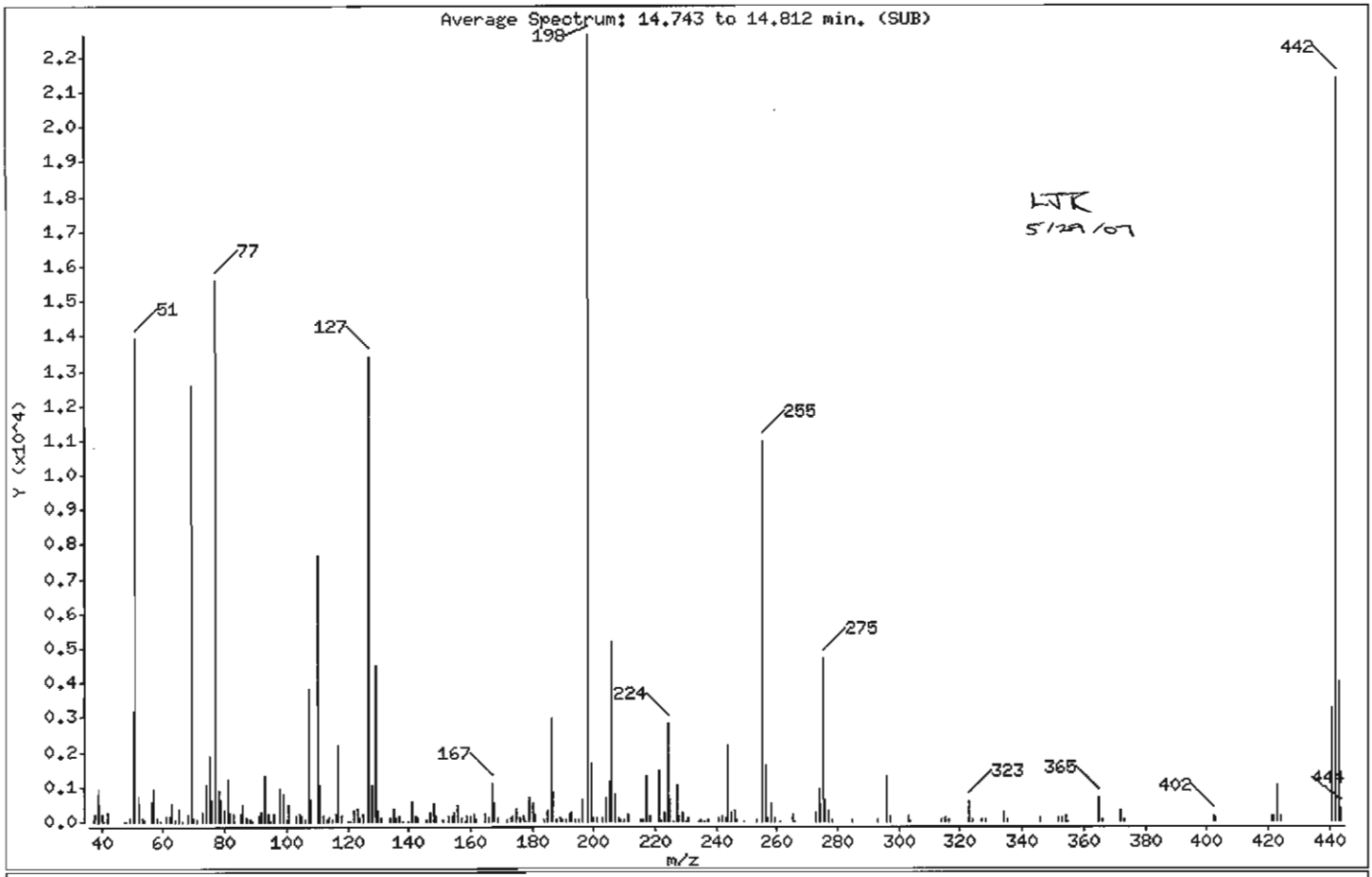
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	61.49
68	Less than 2.00% of mass 69	0.88 (1.58)
69	Mass 69 relative abundance	55.51
70	Less than 2.00% of mass 69	0.46 (0.82)
127	25.00 - 75.00% of mass 198	59.21
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 30.00% of mass 198	20.79
365	Greater than 0.75% of mass 198	3.10
441	Present, but less than mass 443	14.36
442	40.00 - 110.00% of mass 198	94.55
443	15.00 - 24.00% of mass 442	17.84 (18.86)

Data File: /chem1/nt6.i/20070529.b/tune.b/co0529.d

Date : 29-MAY-2007 08:47

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: co0529.d
Spectrum: Average Spectrum: 14.743 to 14.812 min. (SUB)
Location of Maximum: 198.00
Number of points: 221

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	35	105.00	161	175.00	390	245.00	280
38.00	220	106.00	65	176.00	86	246.00	317
39.00	939	107.00	3812	177.00	171	247.00	29
40.00	210	108.00	626	178.00	14	249.00	22
41.00	26	110.00	7684	179.00	670	253.00	33
42.00	243	111.00	1059	180.00	513	255.00	10966
47.00	16	112.00	144	181.00	232	256.00	1617
48.00	15	113.00	30	184.00	51	257.00	106
49.00	113	114.00	90	185.00	332	258.00	544
50.00	3196	115.00	29	186.00	2960	259.00	94
51.00	13907	116.00	188	187.00	834	261.00	16
52.00	743	117.00	2195	188.00	51	265.00	186
53.00	124	118.00	177	189.00	122	266.00	18
54.00	71	120.00	17	190.00	34	273.00	262
56.00	578	121.00	14	191.00	36	274.00	935
57.00	913	122.00	297	192.00	210	275.00	4701
58.00	84	123.00	342	193.00	264	276.00	647
59.00	17	124.00	113	194.00	51	277.00	317
61.00	137	125.00	192	195.00	49	278.00	38
62.00	180	127.00	13392	196.00	642	285.00	50
63.00	523	128.00	1064	198.00	22616	293.00	41
64.00	44	129.00	4497	199.00	1642	296.00	1300
65.00	355	130.00	327	200.00	91	297.00	132
66.00	16	131.00	97	201.00	118	303.00	144
68.00	198	134.00	84	203.00	92	304.00	16
69.00	12554	135.00	352	204.00	654	314.00	46
70.00	103	136.00	130	205.00	1164	315.00	100
71.00	33	137.00	162	206.00	5174	316.00	39
73.00	263	138.00	16	207.00	767	323.00	562
74.00	1041	140.00	18	208.00	118	324.00	34
75.00	1872	141.00	548	209.00	34	327.00	51
76.00	610	142.00	171	210.00	57	328.00	34
77.00	15573	143.00	120	211.00	230	334.00	263
78.00	895	146.00	57	215.00	33	335.00	35
79.00	603	147.00	245	216.00	73	346.00	81

Data File: /chem1/nt6.i/20070529.b/tune.b/cc0529.d

Date : 29-MAY-2007 08:47

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0529.d
Spectrum: Average Spectrum: 14.743 to 14.812 min. (SUB)
Location of Maximum: 198.00
Number of points: 221

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	293	148.00	539	217.00	1282	352.00	90
81.00	1208	149.00	135	218.00	164	353.00	83
82.00	282	151.00	70	221.00	1465	354.00	154
83.00	212	153.00	141	222.00	33	355.00	15
85.00	221	154.00	161	223.00	278	365.00	701
86.00	465	155.00	261	224.00	2798	366.00	39
87.00	100	156.00	453	225.00	747	372.00	302
88.00	51	157.00	104	226.00	17	373.00	27
89.00	15	158.00	24	227.00	1053	402.00	132
91.00	153	159.00	139	228.00	158	403.00	106
92.00	237	160.00	140	229.00	260	421.00	143
93.00	1310	161.00	220	230.00	14	422.00	149
94.00	215	162.00	65	231.00	99	423.00	1020
95.00	4	165.00	184	234.00	19	424.00	163
96.00	212	166.00	126	235.00	55	441.00	3248
98.00	914	167.00	1073	236.00	19	442.00	21384
99.00	784	168.00	528	237.00	57	443.00	4034
100.00	42	169.00	95	241.00	98	444.00	388
101.00	460	172.00	33	242.00	167		
103.00	132	173.00	90	243.00	87		
104.00	233	174.00	149	244.00	2185		

Data File: /chem1/nt6.i/20070606.b/tune.b/oc0606.d

Date : 06-JUN-2007 08:14

Client ID:

Instrument: nt6.i

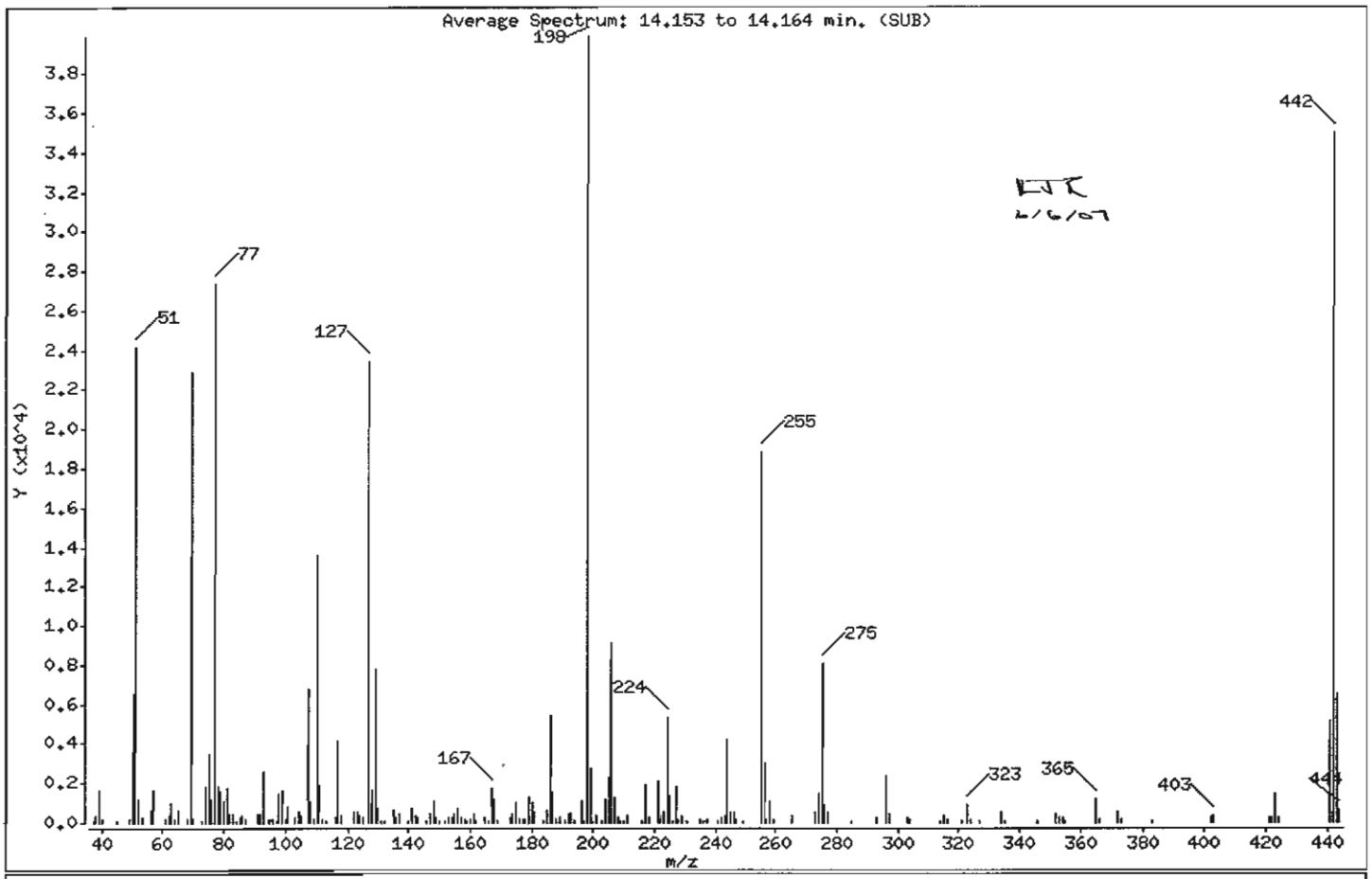
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	60.50
68	Less than 2.00% of mass 69	0.50 (0.87)
69	Mass 69 relative abundance	57.44
70	Less than 2.00% of mass 69	0.46 (0.80)
127	25.00 - 75.00% of mass 198	58.85
197	Less than 1.00% of mass 198	0.20
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	20.25
365	Greater than 0.75% of mass 198	2.97
441	Present, but less than mass 443	12.95
442	40.00 - 110.00% of mass 198	87.67
443	15.00 - 24.00% of mass 442	16.28 (18.57)

Data File: /chem1/nt6.i/20070606.b/tune.b/cc0606.d

Date : 06-JUN-2007 08:14

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0606.d
Spectrum: Average Spectrum: 14.153 to 14.164 min. (SUB)
Location of Maximum: 198.00
Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	73	110.00	13561	179.00	1267	249.00	80
38.00	363	111.00	1967	180.00	967	255.00	18832
39.00	1664	112.00	177	181.00	585	256.00	3046
40.00	185	113.00	73	184.00	77	257.00	222
45.00	74	116.00	293	185.00	634	258.00	1080
49.00	200	117.00	4128	186.00	5452	259.00	147
50.00	6522	118.00	379	187.00	1551	265.00	349
51.00	24112	122.00	516	188.00	185	273.00	516
52.00	1153	123.00	588	189.00	278	274.00	1452
53.00	254	124.00	328	191.00	78	275.00	8071
56.00	611	125.00	260	192.00	449	276.00	912
57.00	1657	127.00	23456	193.00	501	277.00	514
61.00	187	128.00	1673	194.00	105	285.00	79
62.00	394	129.00	7839	196.00	1082	293.00	262
63.00	1003	130.00	745	197.00	80	296.00	2342
64.00	166	131.00	74	198.00	39856	297.00	422
65.00	659	132.00	132	199.00	2720	303.00	291
68.00	199	135.00	674	200.00	216	304.00	152
69.00	22896	136.00	259	201.00	328	314.00	67
70.00	184	137.00	443	203.00	94	315.00	359
73.00	82	140.00	79	204.00	1171	316.00	143
74.00	1866	141.00	780	205.00	2298	321.00	68
75.00	3464	142.00	375	206.00	9111	323.00	959
76.00	1186	143.00	272	207.00	1242	324.00	222
77.00	27328	146.00	118	208.00	321	327.00	79
78.00	1861	147.00	482	209.00	77	334.00	585
79.00	1602	148.00	1079	210.00	73	335.00	90
80.00	1139	149.00	302	211.00	369	346.00	109
81.00	1722	150.00	73	216.00	76	352.00	414
82.00	466	152.00	69	217.00	1890	353.00	291
83.00	418	153.00	277	218.00	293	354.00	297
84.00	70	154.00	299	221.00	2134	355.00	67
85.00	291	155.00	465	222.00	352	365.00	1185
86.00	401	156.00	700	223.00	538	366.00	171
87.00	164	157.00	257	224.00	5346	372.00	525

Data File: /chem1/nt6.i/20070606.b/tune.b/cc0606.d

Date : 06-JUN-2007 08:14

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0606.d
Spectrum: Average Spectrum: 14.153 to 14.164 min. (SUB)
Location of Maximum: 198.00
Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	490	158.00	141	225.00	1365	373.00	167
92.00	416	159.00	83	226.00	100	383.00	75
93.00	2614	160.00	164	227.00	1797	402.00	238
95.00	164	161.00	434	228.00	211	403.00	328
96.00	176	162.00	111	229.00	384	421.00	246
97.00	91	165.00	295	231.00	111	422.00	248
98.00	1462	166.00	54	235.00	190	423.00	1479
99.00	1627	167.00	1708	236.00	70	424.00	275
100.00	144	168.00	1218	237.00	179	441.00	5161
101.00	803	169.00	95	241.00	85	442.00	34944
103.00	241	173.00	271	242.00	282	443.00	6491
104.00	514	174.00	445	243.00	381	444.00	637
105.00	327	175.00	995	244.00	4200		
107.00	6799	176.00	198	245.00	556		
108.00	1124	177.00	184	246.00	570		
109.00	185	178.00	152	247.00	155		

Data File: /chem1/nt6.i/20070606.b/tune.b/cc0606.d

Date : 06-JUN-2007 08:14

Client ID:

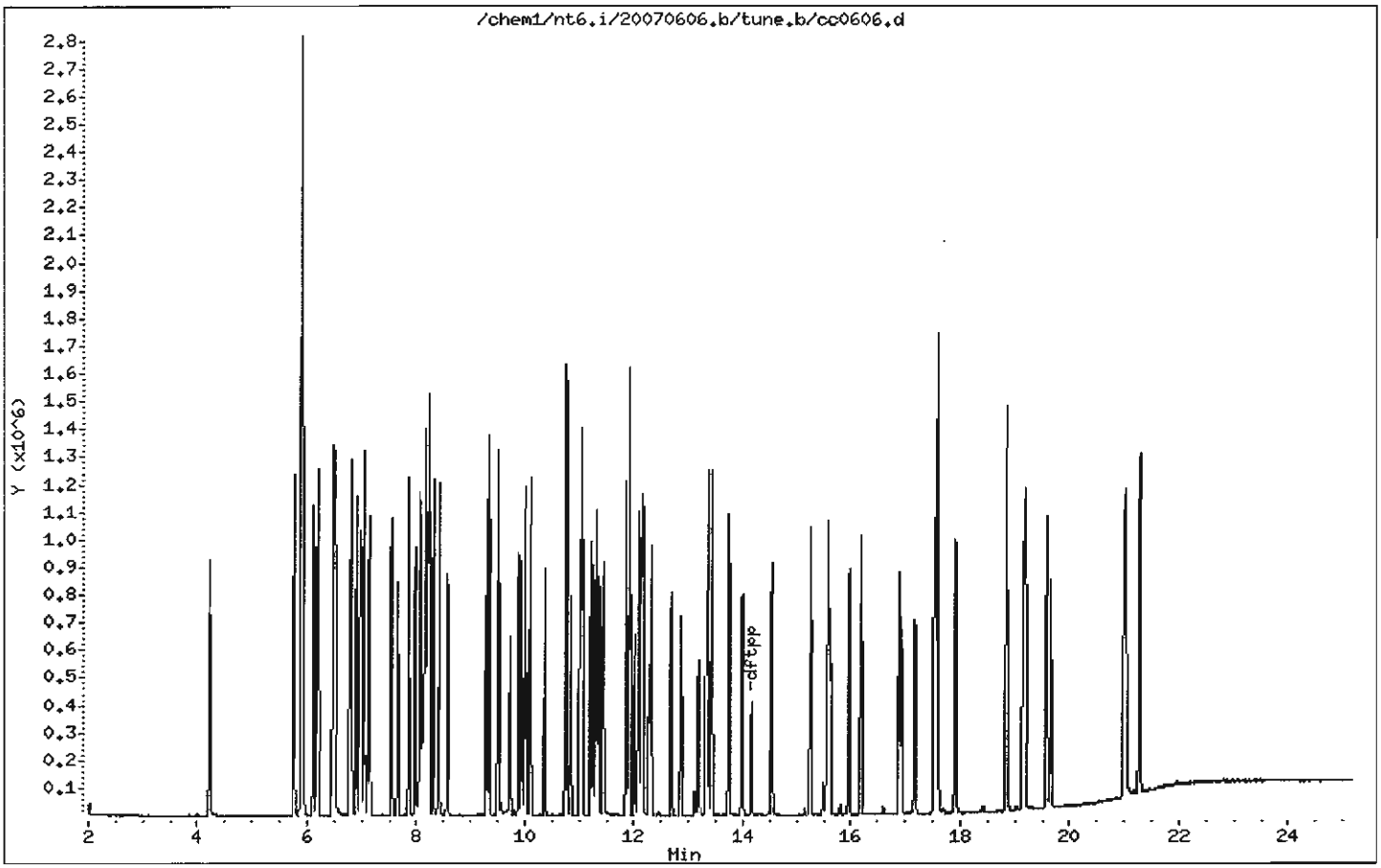
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 1

Sample ID: MB-052107
METHOD BLANK

Lab Sample ID: MB-052107
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/21/07
Date Analyzed: 05/25/07 12:06
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	1.0	< 1.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%	2-Fluorobiphenyl	58.0%
d14-p-Terphenyl	74.4%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	65.9%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	64.0%	d4-2-Chlorophenol	66.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070525.b/kz60mb.d
Lab Smp Id: KZ60MBW1 Client Smp ID: KZ60MBW1
Inj Date : 25-MAY-2007 12:06
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ60MBW1
Misc Info : 07-9583
Comment : 1ul Injection
Method : /chem1/nt6.i/20070525.b/SW846.m
Meth Date : 30-May-2007 10:48 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: LLMBLCS.sub
Target Version: 3.50

LJR 5/30/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	4.986	4.986	(0.724)	458213	23.6287	23.63
$ 2 Phenol-d5	99	6.519	6.524	(0.946)	561350	24.6709	24.67
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.600	6.599	(0.958)	392460	24.9453	24.95
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.888	6.887	(1.000)	213296	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.176	7.181	(1.042)	138370	14.3827	14.38
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.807	7.811	(0.877)	329480	17.5012	17.50
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.902	8.907	(1.000)	791180	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.702	10.702	(0.912)	390278	14.5082	14.51
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.739	11.738	(1.000)	398582	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.021	13.025	(1.109)	97254	23.9666	23.97
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.089	14.094	(1.000)	556085	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	16.739	16.744	(0.911)	379696	18.5871	18.59
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.368	18.373	(1.000)	388772	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	Compound Not Detected.					
72 bis(2-Ethylhexyl)phthalate	149	18.651	18.661	(0.952)	11232	0.53640 DL	0.5364
* 134 Di-n-octylphthalate-d4	153	19.586	19.586	(1.000)	611353	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	Compound Not Detected.					
75 Benzo(k)fluoranthene	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.505	20.510	(1.000)	397985	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.					
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz60mb.d
Lab Smp Id: KZ60MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

Calibration Date: 25-MAY-2007
Calibration Time: 10:59
Client Smp ID: KZ60MBW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	198067	99034	396134	213296	7.69
27 Naphthalene-d8	714729	357364	1429458	791180	10.70
42 Acenaphthene-d10	346560	173280	693120	398582	15.01
59 Phenanthrene-d10	502123	251062	1004246	556085	10.75
69 Chrysene-d12	340564	170282	681128	388772	14.16
134 Di-n-octylphthala	567119	283560	1134238	611353	7.80
77 Perylene-d12	376651	188326	753302	397985	5.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.89	6.39	7.39	6.89	0.01
27 Naphthalene-d8	8.91	8.41	9.41	8.90	-0.05
42 Acenaphthene-d10	11.74	11.24	12.24	11.74	0.01
59 Phenanthrene-d10	14.09	13.59	14.59	14.09	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.37	-0.03
134 Di-n-octylphthala	19.59	19.09	20.09	19.59	0.00
77 Perylene-d12	20.51	20.01	21.01	20.51	-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: LIQUID
Lab Smp Id: KZ60MBW1
Level: LOW
Data Type: MS DATA
SpikeList File: SONICLCS.spk
Sublist File: LLMBLCS.sub
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

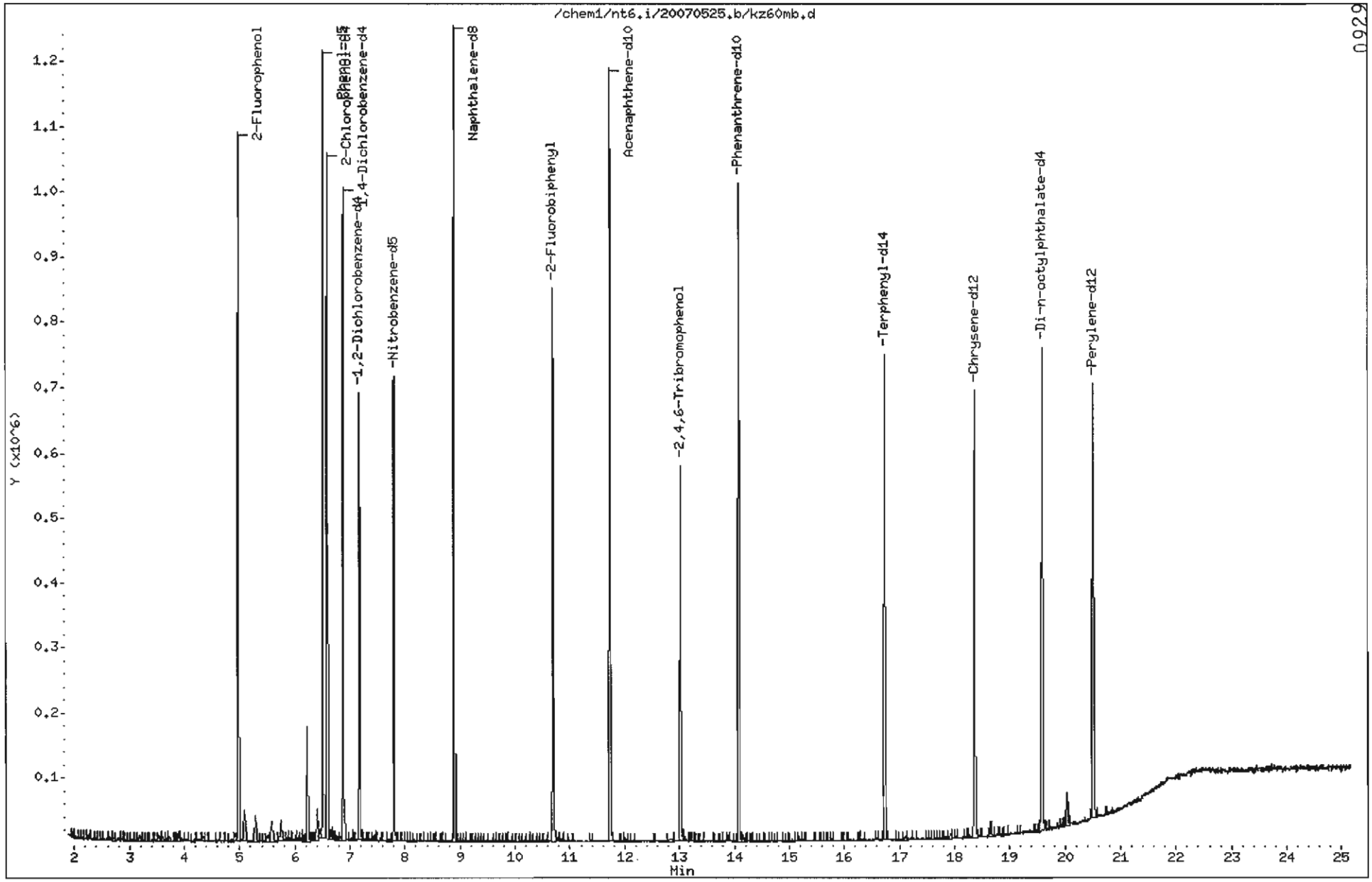
Client SDG: KZ60
Fraction: SV
Client Smp ID: KZ60MBW1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	37.50	23.63	63.01	27-131
$ 2 Phenol-d5	37.50	24.67	65.79	40-110
$ 5 2-Chlorophenol-d4	37.50	24.95	66.52	51-110
$ 10 1,2-Dichlorobenzen	25.00	14.38	57.53	39-90
$ 18 Nitrobenzene-d5	25.00	17.50	70.00	53-112
$ 36 2-Fluorobiphenyl	25.00	14.51	58.03	52-99
$ 55 2,4,6-Tribromophen	37.50	23.97	63.91	47-116
$ 66 Terphenyl-d14	25.00	18.59	74.35	55-116

Data File: /chem1/nt6.i/20070525.b/kz60mb.d
Date : 25-MAY-2007 12:06
Client ID: KZ60MBW1
Sample Info: KZ60MBW1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20070525.b/kz60mb.d

Date : 25-MAY-2007 12:06

Client ID: KZ60MBW1 Instrument: nt6.i

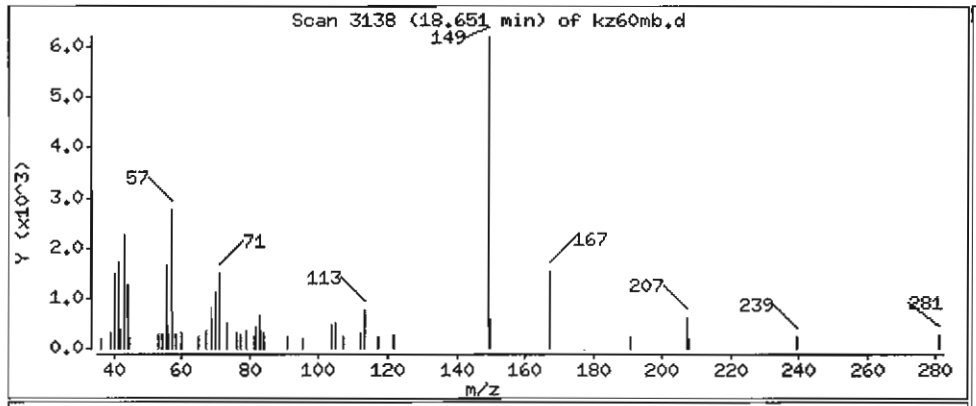
Sample Info: KZ60MBW1

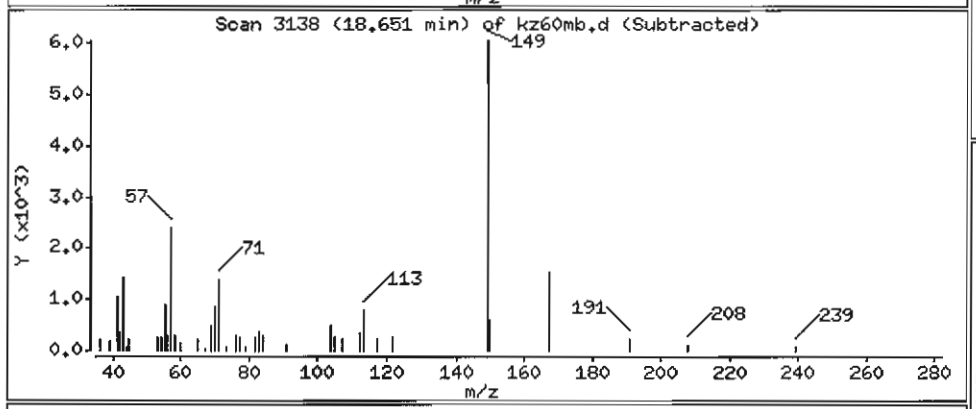
Volume Injected (uL): 1.0 Operator: LJR/VTS

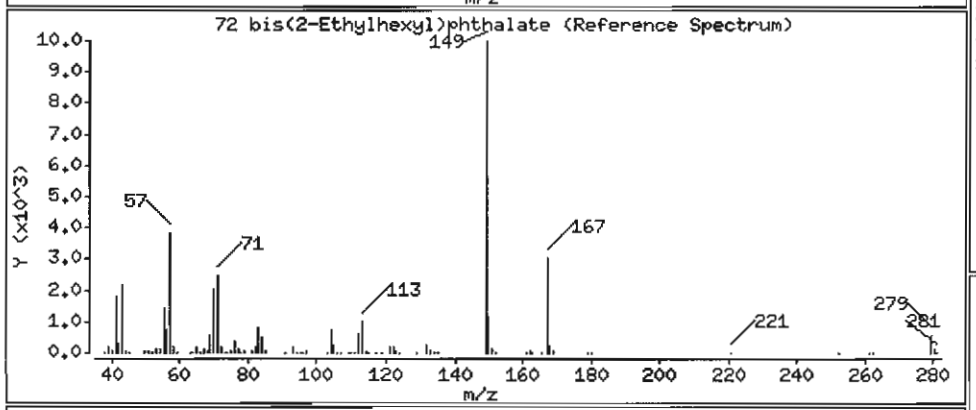
Column phase: ZB-5 Column diameter: 0.32

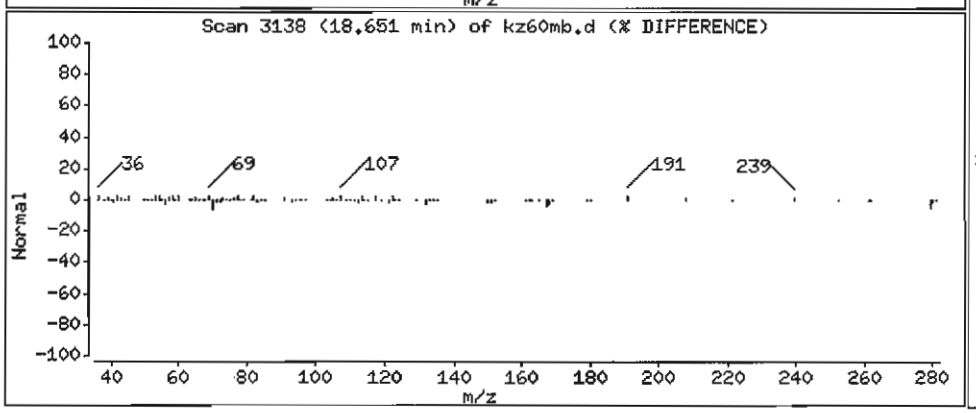
72 bis(2-Ethylhexyl)phthalate Concentration: 0.5364 ug/L

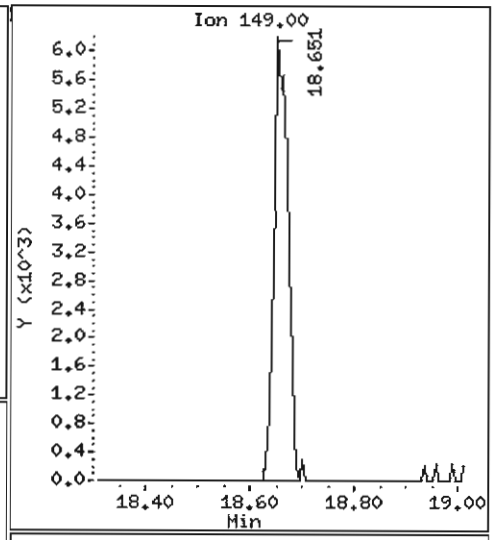
LPL

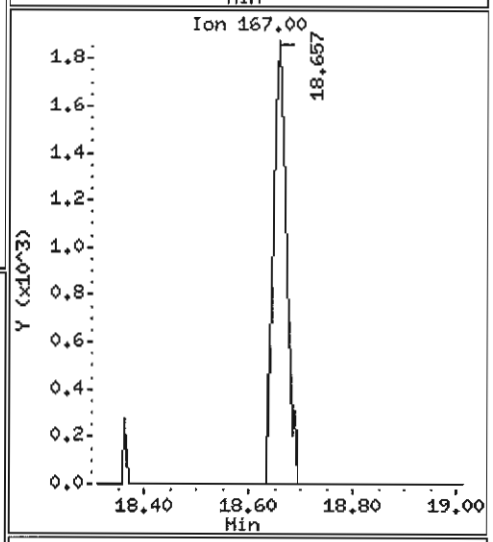


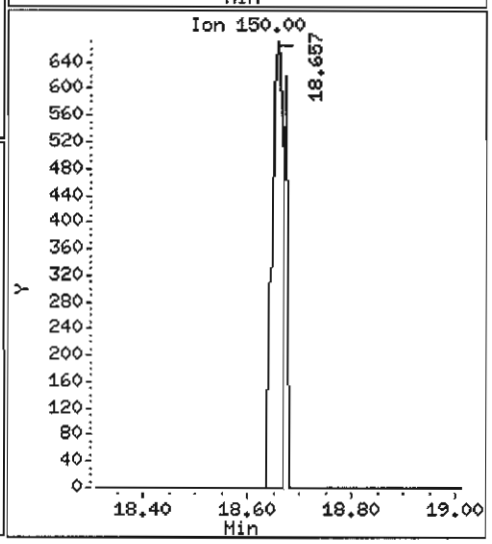












Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070525.b/kz60sb.d
Lab Smp Id: KZ60LCSW1 Client Smp ID: KZ60LCSW1
Inj Date : 25-MAY-2007 12:40
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ60LCSW1
Misc Info : 07-9583
Comment : 1ul Injection
Method : /chem1/nt6.i/20070525.b/SW846.m
Meth Date : 30-May-2007 10:48 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: LLMBLCS.sub
Target Version: 3.50

LJR 5/30/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	4.987	4.986	(0.724)	513221	27.7866	27.79
$ 2 Phenol-d5	99	6.520	6.524	(0.946)	611406	28.2123	28.21
3 Phenol	94	6.536	6.540	(0.949)	429758	18.0639	18.06
$ 5 2-Chlorophenol-d4	132	6.600	6.599	(0.958)	421255	28.1122	28.11
4 Bis(2-Chloroethyl)ether	93	6.584	6.588	(0.956)	348375	18.2393	18.24
6 2-Chlorophenol	128	6.621	6.626	(0.961)	307818	18.3038	18.30
7 1,3-Dichlorobenzene	146	6.824	6.823	(0.991)	303800	17.9211	17.92
* 8 1,4-Dichlorobenzene-d4	152	6.888	6.887	(1.000)	203154	20.0000	
9 1,4-Dichlorobenzene	146	6.910	6.914	(1.003)	306006	17.8908	17.89
$ 10 1,2-Dichlorobenzene-d4	152	7.177	7.181	(1.042)	160482	17.5139	17.51
12 1,2-Dichlorobenzene	146	7.198	7.202	(1.045)	272372	16.8912	16.89
11 Benzyl alcohol	108	7.193	7.192	(1.044)	383520	32.3530	32.35
14 2,2'-oxybis(1-Chloropropane)	45	7.444	7.443	(1.081)	548828	19.1523	19.15
13 2-Methylphenol	108	7.444	7.448	(1.081)	293916	18.3666	18.37
17 Hexachloroethane	117	7.679	7.678	(1.115)	122157	16.3792	16.38
16 N-Nitroso-di-n-propylamine	70	7.658	7.662	(1.112)	244640	19.8801	19.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	15 4-Methylphenol	108	7.690	7.683	(1.116)	584096	36.6250	36.63
$	18 Nitrobenzene-d5	82	7.807	7.811	(0.877)	366235	20.8263	20.83
	19 Nitrobenzene	77	7.834	7.838	(0.880)	352378	19.2102	19.21
	20 Isophorone	82	8.219	8.223	(0.923)	659476	19.4362	19.44
	21 2-Nitrophenol	139	8.347	8.351	(0.938)	156791	20.9531	20.95
	22 2,4-Dimethylphenol	107	8.496	8.501	(0.954)	216432	14.3386	14.34
	23 Bis(2-Chloroethoxy)methane	93	8.635	8.634	(0.970)	408306	19.3155	19.32
	24 Benzoic acid	105	8.769	8.768	(0.985)	626534	62.0159	62.02(M)
	25 2,4-Dichlorophenol	162	8.737	8.741	(0.981)	195731	18.0448	18.04
	26 1,2,4-Trichlorobenzene	180	8.854	8.853	(0.995)	226211	17.8733	17.87
*	27 Naphthalene-d8	136	8.902	8.907	(1.000)	739031	20.0000	
	28 Naphthalene	128	8.935	8.933	(1.004)	792261	18.0987	18.10
	29 4-Chloroaniline	127	9.100	9.099	(1.022)	824448	42.6003	42.60
	30 Hexachlorobutadiene	225	9.266	9.265	(1.041)	119879	18.9791	18.98
	31 4-Chloro-3-methylphenol	107	9.933	9.938	(1.116)	240727	18.3938	18.39
	32 2-Methylnaphthalene	141	10.051	10.050	(1.129)	388721	17.4693	17.47
	33 Hexachlorocyclopentadiene	237	10.436	10.434	(0.889)	235478	50.4277	50.43
	34 2,4,6-Trichlorophenol	196	10.575	10.579	(0.901)	138167	20.2570	20.26
	35 2,4,5-Trichlorophenol	196	10.633	10.632	(0.906)	142216	19.5636	19.56
$	36 2-Fluorobiphenyl	172	10.703	10.702	(0.912)	437393	19.2767	19.28
	37 2-Chloronaphthalene	162	10.815	10.819	(0.921)	415987	19.1052	19.11
	38 2-Nitroaniline	65	11.066	11.065	(0.943)	178532	21.8471	21.85
	39 Dimethylphthalate	163	11.456	11.460	(0.976)	425996	19.7129	19.71
	40 Acenaphthylene	152	11.488	11.487	(0.979)	674811	19.0359	19.04
	41 2,6-Dinitrotoluene	165	11.536	11.540	(0.983)	104153	23.0836	23.08
*	42 Acenaphthene-d10	164	11.739	11.738	(1.000)	336199	20.0000	
	43 3-Nitroaniline	138	11.744	11.743	(1.000)	343509	55.5740	55.57
	44 Acenaphthene	153	11.787	11.791	(1.004)	409231	19.2893	19.29
	45 2,4-Dinitrophenol	184	11.905	11.909	(1.014)	177815	165.993	166.0(M)
	46 Dibenzofuran	168	12.049	12.053	(1.026)	540230	18.8900	18.89
	47 4-Nitrophenol	109	12.086	12.096	(1.030)	64917	18.4864	18.49
	48 2,4-Dinitrotoluene	165	12.156	12.155	(1.035)	130766	22.7751	22.78
	50 Diethylphthalate	149	12.610	12.614	(1.074)	424975	19.7330	19.73
	49 Fluorene	166	12.599	12.603	(1.073)	418303	18.5613	18.56
	51 4-Chlorophenyl-phenylether	204	12.647	12.646	(1.077)	203736	19.1847	19.18
	52 4-Nitroaniline	138	12.727	12.732	(1.084)	122526	19.4743	19.47
	53 4,6-Dinitro-2-methylphenol	198	12.802	12.806	(0.909)	218455	91.4973	91.50
	54 N-Nitrosodiphenylamine	169	12.856	12.854	(0.912)	295253	18.4491	18.45
$	55 2,4,6-Tribromophenol	330	13.027	13.025	(1.110)	110039	32.1490	32.15
	56 4-Bromophenyl-phenylether	248	13.417	13.421	(0.952)	115205	18.6569	18.66
	57 Hexachlorobenzene	284	13.620	13.618	(0.967)	125166	19.1915	19.19
	58 Pentachlorophenol	266	13.924	13.928	(0.988)	70841	18.2837	18.28
*	59 Phenanthrene-d10	188	14.090	14.094	(1.000)	500051	20.0000	
	60 Phenanthrene	178	14.127	14.126	(1.003)	605481	18.1436	18.14
	61 Anthracene	178	14.197	14.201	(1.008)	615170	17.8406	17.84
	62 Carbazole	167	14.496	14.500	(1.029)	535677	18.0537	18.05
	63 Di-n-butylphthalate	149	15.249	15.253	(1.082)	738745	20.1882	20.19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
64 Fluoranthene	202	16.045	16.049	(1.139)	583596	18.4319	18.43
65 Pyrene	202	16.392	16.396	(0.892)	602290	21.4048	21.40
$ 66 Terphenyl-d14	244	16.739	16.744	(0.911)	406496	22.8128	22.81
67 Butylbenzylphthalate	149	17.642	17.646	(0.960)	303385	22.9316	22.93
68 Benzo(a)anthracene	228	18.342	18.346	(0.999)	503856	19.8904	19.89
* 69 Chrysene-d12	240	18.369	18.373	(1.000)	339117	20.0000	
70 3,3'-Dichlorobenzidine	252	18.385	18.378	(1.001)	447907	45.9448	45.94
71 Chrysene	228	18.411	18.410	(1.002)	478850	18.6865	18.69
72 bis(2-Ethylhexyl)phthalate	149	18.657	18.661	(0.953)	420414	21.3893	21.39
* 134 Di-n-octylphthalate-d4	153	19.587	19.586	(1.000)	573856	20.0000	
73 Di-n-octylphthalate	149	19.597	19.596	(1.001)	649776	19.0600	19.06
74 Benzo(b)fluoranthene	252	19.987	19.992	(0.975)	490739	19.2901	19.29
75 Benzo(k)fluoranthene	252	20.019	20.024	(0.976)	494766	20.2451	20.25
76 Benzo(a)pyrene	252	20.425	20.430	(0.996)	462034	18.1449	18.14
* 77 Perylene-d12	264	20.506	20.510	(1.000)	392364	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.857	21.861	(1.066)	563273	18.7105	18.71
79 Dibenzo(a,h)anthracene	278	21.889	21.888	(1.067)	472436	18.9475	18.95
80 Benzo(g,h,i)perylene	276	22.178	22.182	(1.082)	519145	18.8244	18.82
90 N-Nitrosodimethylamine	74	2.428	2.421	(0.352)	244797	19.1515	19.15
91 Aniline	93	6.456	6.460	(0.937)	317999	10.4656	10.47
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.217	10.215	(1.148)	400043	18.6812	18.68
111 Azobenzene (1,2-DP-Hydrazine)	77	12.893	12.897	(1.098)	624442	19.3296	19.33

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz60sb.d
Lab Smp Id: KZ60LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

Calibration Date: 25-MAY-2007
Calibration Time: 10:59
Client Smp ID: KZ60LCSW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	198067	99034	396134	203154	2.57
27 Naphthalene-d8	714729	357364	1429458	739031	3.40
42 Acenaphthene-d10	346560	173280	693120	336199	-2.99
59 Phenanthrene-d10	502123	251062	1004246	500051	-0.41
69 Chrysene-d12	340564	170282	681128	339117	-0.42
134 Di-n-octylphthala	567119	283560	1134238	573856	1.19
77 Perylene-d12	376651	188326	753302	392364	4.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.89	6.39	7.39	6.89	0.02
27 Naphthalene-d8	8.91	8.41	9.41	8.90	-0.05
42 Acenaphthene-d10	11.74	11.24	12.24	11.74	0.01
59 Phenanthrene-d10	14.09	13.59	14.59	14.09	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.37	-0.02
134 Di-n-octylphthala	19.59	19.09	20.09	19.59	0.01
77 Perylene-d12	20.51	20.01	21.01	20.51	-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: LIQUID
Lab Smp Id: KZ60LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: LLMBLCS.sub
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

Client SDG: KZ60
Fraction: SV
Client Smp ID: KZ60LCSW1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Phenol	25.00	18.06	72.26	44-106
4 Bis(2-Chloroethyl)	25.00	18.24	72.96	67-110
6 2-Chlorophenol	25.00	18.30	73.22	49-110
7 1,3-Dichlorobenzen	25.00	17.92	71.68	14-99
9 1,4-Dichlorobenzen	25.00	17.89	71.56	22-91
11 Benzyl alcohol	50.00	32.35	64.71	50-118
12 1,2-Dichlorobenzen	25.00	16.89	67.56	23-103
13 2-Methylphenol	25.00	18.37	73.47	66-108
14 2,2'-oxybis(1-Chlo	25.00	19.15	76.61	50-118
15 4-Methylphenol	50.00	36.63	73.25	63-117
16 N-Nitroso-di-n-pro	25.00	19.88	79.52	51-119
17 Hexachloroethane	25.00	16.38	65.52	10-105
19 Nitrobenzene	25.00	19.21	76.84	64-121
20 Isophorone	25.00	19.44	77.74	65-129
21 2-Nitrophenol	25.00	20.95	83.81	62-119
22 2,4-Dimethylphenol	25.00	14.34	57.35	46-107
23 Bis(2-Chloroethoxy	25.00	19.32	OK 77.26	62-123
24 Benzoic acid	75.00	62.02	82.69	36-122
25 2,4-Dichlorophenol	25.00	18.04	72.18	62-124
26 1,2,4-Trichloroben	25.00	17.87	71.49	26-95
28 Naphthalene	25.00	18.10	72.39	48-108
29 4-Chloroaniline	60.00	42.60	71.00	19-81
30 Hexachlorobutadien	25.00	18.98	75.92	10-110
31 4-Chloro-3-methylp	25.00	18.39	73.58	42-129
32 2-Methylnaphthalen	25.00	17.47	69.88	51-111
33 Hexachlorocyclopen	75.00	50.43	67.24	10-71
34 2,4,6-Trichlorophe	25.00	20.26	81.03	64-115
35 2,4,5-Trichlorophe	25.00	19.56	78.25	67-112
37 2-Chloronaphthalen	25.00	19.11	76.42	53-109
38 2-Nitroaniline	25.00	21.85	87.39	61-131
39 Dimethylphthalate	25.00	19.71	78.85	67-124
40 Acenaphthylene	25.00	19.04	76.14	62-115
41 2,6-Dinitrotoluene	25.00	23.08	92.33	64-131

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
43 3-Nitroaniline	64.00	55.57	86.83	53-114
44 Acenaphthene	25.00	19.29	77.16	52-109
45 2,4-Dinitrophenol	75.00	166.0	221.32*	10-143
46 Dibenzofuran	25.00	18.89	75.56	62-114
47 4-Nitrophenol	25.00	18.49	73.95	19-160
48 2,4-Dinitrotoluene	25.00	22.78	91.10	50-129
49 Fluorene	25.00	18.56	74.25	60-126
50 Diethylphthalate	25.00	19.73	78.93	66-136
51 4-Chlorophenyl-phe	25.00	19.18	76.74	59-127
52 4-Nitroaniline	25.00	19.47	77.90	41-134
53 4,6-Dinitro-2-meth	75.00	91.50	122.00	31-137
54 N-Nitrosodiphenyla	25.00	18.45	73.80	47-145
56 4-Bromophenyl-phen	25.00	18.66	74.63	64-123
57 Hexachlorobenzene	25.00	19.19	76.77	62-122
58 Pentachlorophenol	25.00	18.28	73.13	41-119
60 Phenanthrene	25.00	18.14	72.57	63-123
61 Anthracene	25.00	17.84	71.36	61-122
62 Carbazole	25.00	18.05	72.21	64-128
63 Di-n-butylphthalat	25.00	20.19	80.75	66-138
64 Fluoranthene	25.00	18.43	73.73	60-130
65 Pyrene	25.00	21.40	85.62	54-120
67 Butylbenzylphthala	25.00	22.93	91.73	63-118
68 Benzo(a)anthracene	25.00	19.89	79.56	60-126
70 3,3'-Dichlorobenzi	64.00	45.94	71.79	10-106
71 Chrysene	25.00	18.69	74.75	64-119
72 bis(2-Ethylhexyl)p	25.00	21.39	85.56	42-158
73 Di-n-octylphthalat	25.00	19.06	76.24	68-115
74 Benzo(b)fluoranthe	25.00	19.29	77.16	61-129
75 Benzo(k)fluoranthe	25.00	20.25	80.98	63-129
76 Benzo(a)pyrene	25.00	18.14	72.58	62-119
78 Indeno(1,2,3-cd)py	25.00	18.71	74.84	44-147
79 Dibenzo(a,h)anthra	25.00	18.95	75.79	54-145
80 Benzo(g,h,i)peryle	25.00	18.82	75.30	53-141

OK

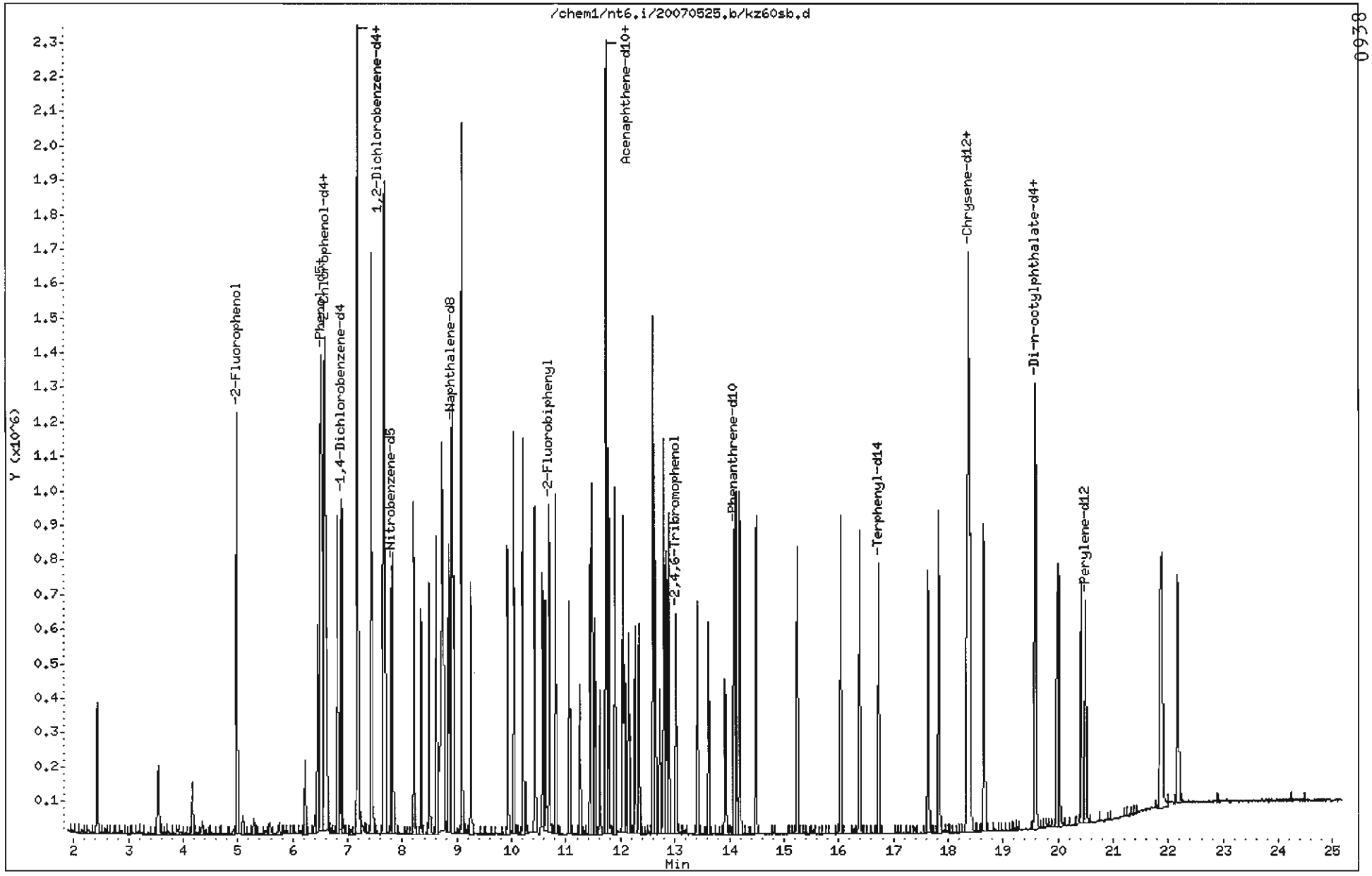
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	37.50	27.79	74.10	27-131
$ 2 Phenol-d5	37.50	28.21	75.23	40-110
$ 5 2-Chlorophenol-d4	37.50	28.11	74.97	51-110
$ 10 1,2-Dichlorobenzen	25.00	17.51	70.06	39-90
$ 18 Nitrobenzene-d5	25.00	20.83	83.31	53-112
$ 36 2-Fluorobiphenyl	25.00	19.28	77.11	52-99
$ 55 2,4,6-Tribromophen	37.50	32.15	85.73	47-116

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	25.00	22.81	91.25	55-116

Data File: /chem1/nt6.i/20070525.b/kz60sb.d
Date : 25-MAY-2007 12:40
Client ID: KZ60LCSW1
Sample Info: KZ60LCSW1
Volume Injected (uL): 1.0
Column phase: ZB-5

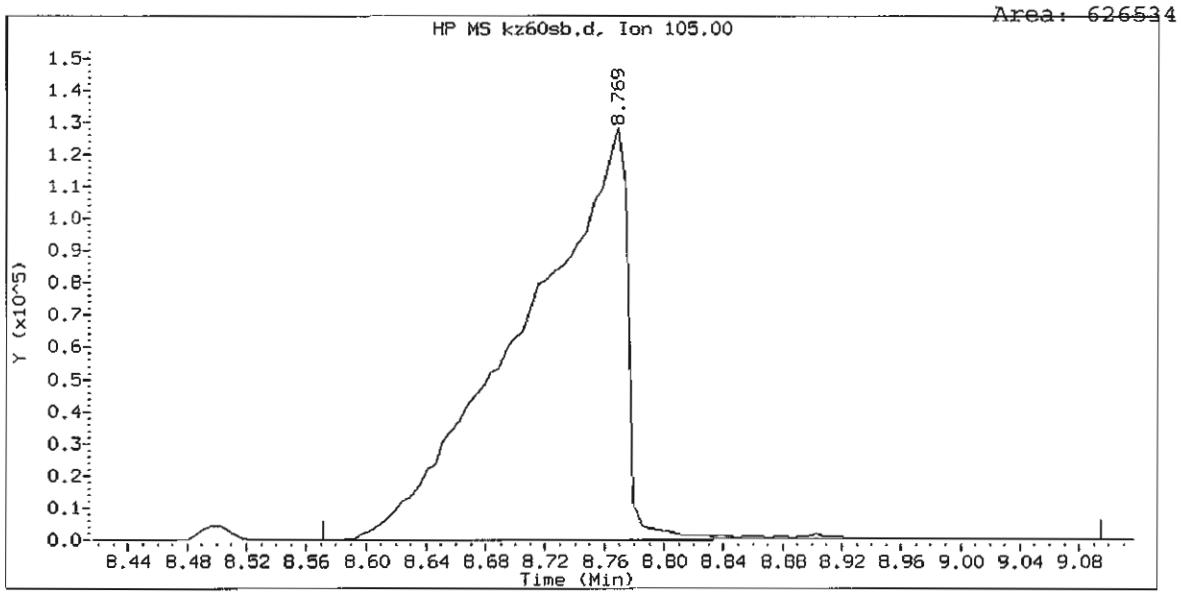
Instrument: nt6.i

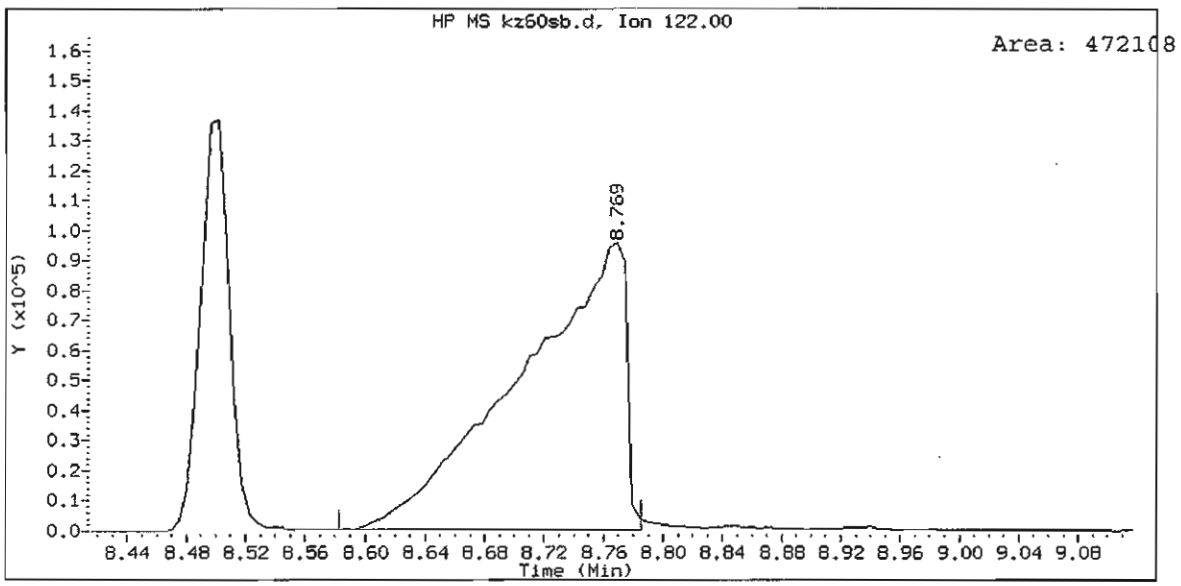
Operator: LJR/VTS
Column diameter: 0.32

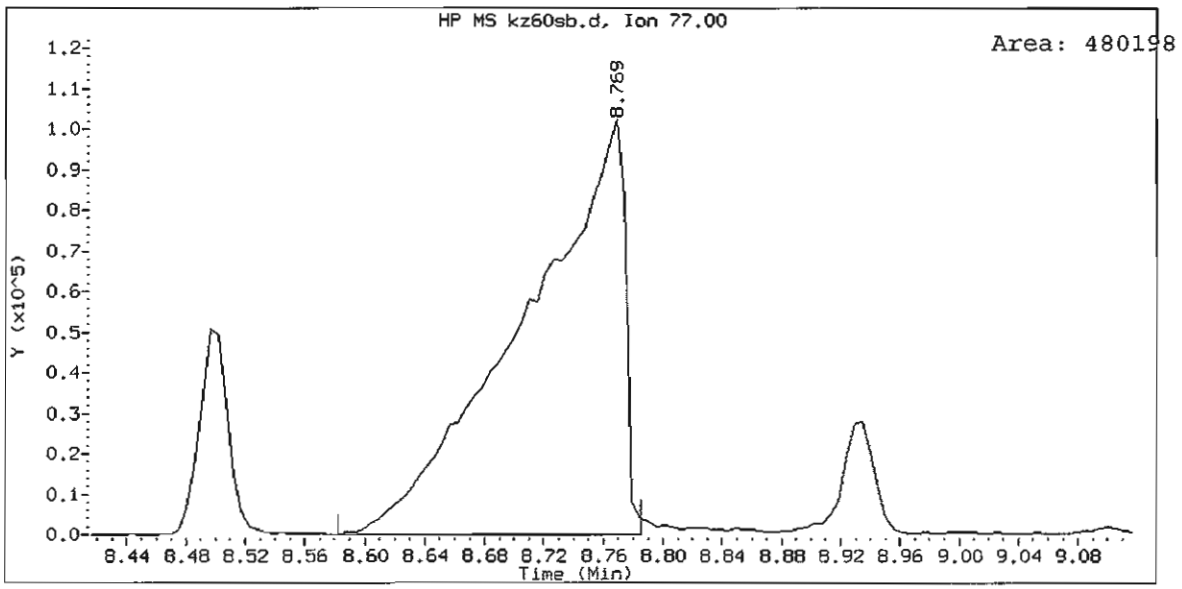


0938

KZ60LCSW1, /chem1/nt6.i/20070525.b/kz60sb.d
Benzoic acid Amount: 62.02







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070525.b/kz60sbd.d
Lab Smp Id: KZ60LCSDW1 Client Smp ID: KZ60LCSDW1
Inj Date : 25-MAY-2007 13:13
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ60LCSDW1
Misc Info : 07-9583
Comment : 1ul Injection
Method : /chem1/nt6.i/20070525.b/SW846.m
Meth Date : 30-May-2007 10:48 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: LLMBLCS.sub
Target Version: 3.50

LJR 5/30/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	4.987	4.986	(0.724)	504069	26.8305	26.83
$ 2 Phenol-d5	99	6.521	6.524	(0.946)	606963	27.5347	27.53
3 Phenol	94	6.537	6.540	(0.949)	437953	18.0978	18.10
$ 5 2-Chlorophenol-d4	132	6.601	6.599	(0.958)	413783	27.1476	27.15
4 Bis(2-Chloroethyl)ether	93	6.585	6.588	(0.956)	362283	18.6474	18.65
6 2-Chlorophenol	128	6.622	6.626	(0.961)	317187	18.5426	18.54
7 1,3-Dichlorobenzene	146	6.825	6.823	(0.991)	294546	17.0820	17.08
* 8 1,4-Dichlorobenzene-d4	152	6.889	6.887	(1.000)	206641	20.0000	
9 1,4-Dichlorobenzene	146	6.910	6.914	(1.003)	293771	16.8857	16.89
$ 10 1,2-Dichlorobenzene-d4	152	7.178	7.181	(1.042)	150447	16.1417	16.14
12 1,2-Dichlorobenzene	146	7.199	7.202	(1.045)	262077	15.9785	15.98
11 Benzyl alcohol	108	7.194	7.192	(1.044)	377617	31.3175	31.32
14 2,2'-oxybis(1-Chloropropane)	45	7.450	7.443	(1.081)	566924	19.4499	19.45
13 2-Methylphenol	108	7.445	7.448	(1.081)	304983	18.7366	18.74
17 Hexachloroethane	117	7.680	7.678	(1.115)	116676	15.3803	15.38
16 N-Nitroso-di-n-propylamine	70	7.658	7.662	(1.112)	255058	20.3769	20.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	15 4-Methylphenol	108	7.690	7.683	(1.116)	617676	38.0771	38.08
$	18 Nitrobenzene-d5	82	7.808	7.811	(0.877)	369533	20.8605	20.86
	19 Nitrobenzene	77	7.835	7.838	(0.880)	367110	19.8672	19.87
	20 Isophorone	82	8.219	8.223	(0.923)	698677	20.4412	20.44
	21 2-Nitrophenol	139	8.348	8.351	(0.938)	164095	21.7691	21.77
	22 2,4-Dimethylphenol	107	8.497	8.501	(0.954)	254537	16.7399	16.74
	23 Bis(2-Chloroethoxy)methane	93	8.631	8.634	(0.969)	421173	19.7788	19.78
	24 Benzoic acid	105	8.775	8.768	(0.986)	650151	63.8838	63.88(M)
	25 2,4-Dichlorophenol	162	8.738	8.741	(0.981)	210182	19.2357	19.24
	26 1,2,4-Trichlorobenzene	180	8.855	8.853	(0.995)	228599	17.9301	17.93
*	27 Naphthalene-d8	136	8.903	8.907	(1.000)	744465	20.0000	
	28 Naphthalene	128	8.935	8.933	(1.004)	809568	18.3591	18.36
	29 4-Chloroaniline	127	9.095	9.099	(1.022)	218041	11.1842	11.18(R)
	30 Hexachlorobutadiene	225	9.266	9.265	(1.041)	121677	19.1231	19.12
	31 4-Chloro-3-methylphenol	107	9.934	9.938	(1.116)	260897	19.7894	19.79
	32 2-Methylnaphthalene	141	10.046	10.050	(1.128)	400289	17.8578	17.86
	33 Hexachlorocyclopentadiene	237	10.436	10.434	(0.889)	238228	49.9192	49.92
	34 2,4,6-Trichlorophenol	196	10.575	10.579	(0.901)	143058	20.5229	20.52
	35 2,4,5-Trichlorophenol	196	10.629	10.632	(0.905)	152806	20.5682	20.57
$	36 2-Fluorobiphenyl	172	10.703	10.702	(0.912)	427412	18.4316	18.43
	37 2-Chloronaphthalene	162	10.816	10.819	(0.921)	437413	19.6571	19.66
	38 2-Nitroaniline	65	11.061	11.065	(0.942)	188374	22.5556	22.56
	39 Dimethylphthalate	163	11.457	11.460	(0.976)	456715	20.6797	20.68
	40 Acenaphthylene	152	11.489	11.487	(0.979)	704473	19.4451	19.45
	41 2,6-Dinitrotoluene	165	11.537	11.540	(0.983)	110496	23.9627	23.96
*	42 Acenaphthene-d10	164	11.740	11.738	(1.000)	343590	20.0000	
	43 3-Nitroaniline	138	11.745	11.743	(1.000)	251339	39.7877	39.79
	44 Acenaphthene	153	11.788	11.791	(1.004)	433654	20.0008	20.00
	45 2,4-Dinitrophenol	184	11.905	11.909	(1.014)	195395	178.480	178.5(R)
	46 Dibenzofuran	168	12.050	12.053	(1.026)	574187	19.6455	19.65
	47 4-Nitrophenol	109	12.087	12.096	(1.030)	67108	18.6992	18.70
	48 2,4-Dinitrotoluene	165	12.156	12.155	(1.035)	139559	23.7837	23.78
	50 Diethylphthalate	149	12.611	12.614	(1.074)	449698	20.4317	20.43
	49 Fluorene	166	12.600	12.603	(1.073)	447335	19.4225	19.42
	51 4-Chlorophenyl-phenylether	204	12.648	12.646	(1.077)	213706	19.6906	19.69
	52 4-Nitroaniline	138	12.723	12.732	(1.084)	121456	18.8890	18.89
	53 4,6-Dinitro-2-methylphenol	198	12.803	12.806	(0.909)	237996	98.9350	98.93
	54 N-Nitrosodiphenylamine	169	12.856	12.854	(0.912)	300313	18.6247	18.62
$	55 2,4,6-Tribromophenol	330	13.022	13.025	(1.109)	112681	32.2127	32.21
	56 4-Bromophenyl-phenylether	248	13.417	13.421	(0.952)	122073	19.6210	19.62
	57 Hexachlorobenzene	284	13.620	13.618	(0.967)	130856	19.9136	19.91
	58 Pentachlorophenol	266	13.925	13.928	(0.988)	77675	19.8973	19.90
*	59 Phenanthrene-d10	188	14.090	14.094	(1.000)	503826	20.0000	
	60 Phenanthrene	178	14.122	14.126	(1.002)	654948	19.4788	19.48
	61 Anthracene	178	14.197	14.201	(1.008)	652018	18.7675	18.77
	62 Carbazole	167	14.496	14.500	(1.029)	565155	18.9044	18.90
	63 Di-n-butylphthalate	149	15.250	15.253	(1.082)	792307	21.4897	21.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
64 Fluoranthene	202	16.046	16.049	(1.139)	629555	19.7344	19.73
65 Pyrene	202	16.393	16.396	(0.892)	640403	21.3724	21.37
$ 66 Terphenyl-d14	244	16.740	16.744	(0.911)	420603	22.1661	22.17
67 Butylbenzylphthalate	149	17.643	17.646	(0.960)	325951	23.1360	23.14
68 Benzo(a)anthracene	228	18.343	18.346	(0.999)	529617	19.6333	19.63
* 69 Chrysene-d12	240	18.369	18.373	(1.000)	361122	20.0000	
70 3,3'-Dichlorobenzidine	252	18.380	18.378	(1.001)	122683	11.8176	11.82
71 Chrysene	228	18.407	18.410	(1.002)	509074	18.6554	18.66
72 bis(2-Ethylhexyl)phthalate	149	18.658	18.661	(0.953)	450259	23.0810	23.08
* 134 Di-n-octylphthalate-d4	153	19.587	19.586	(1.000)	569548	20.0000	
73 Di-n-octylphthalate	149	19.598	19.596	(1.001)	685190	20.2508	20.25
74 Benzo(b)fluoranthene	252	19.988	19.992	(0.975)	508417	20.6786	20.68
75 Benzo(k)fluoranthene	252	20.020	20.024	(0.976)	509396	21.5672	21.57
76 Benzo(a)pyrene	252	20.426	20.430	(0.996)	466116	18.9406	18.94
* 77 Perylene-d12	264	20.506	20.510	(1.000)	379203	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.858	21.861	(1.066)	571319	19.6364	19.64
79 Dibenzo(a,h)anthracene	278	21.890	21.888	(1.067)	480855	19.9545	19.95
80 Benzo(g,h,i)perylene	276	22.178	22.182	(1.082)	524814	19.6905	19.69
90 N-Nitrosodimethylamine	74	2.428	2.421	(0.352)	241974	18.6112	18.61
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.217	10.215	(1.148)	417163	19.3385	19.34
111 Azobenzene (1,2-DP-Hydrazine)	77	12.894	12.897	(1.098)	665481	20.1568	20.16

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz60sbd.d
Lab Smp Id: KZ60LCSDW1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

Calibration Date: 25-MAY-2007
Calibration Time: 10:59
Client Smp ID: KZ60LCSDW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	198067	99034	396134	206641	4.33
27 Naphthalene-d8	714729	357364	1429458	744465	4.16
42 Acenaphthene-d10	346560	173280	693120	343590	-0.86
59 Phenanthrene-d10	502123	251062	1004246	503826	0.34
69 Chrysene-d12	340564	170282	681128	361122	6.04
134 Di-n-octylphthala	567119	283560	1134238	569548	0.43
77 Perylene-d12	376651	188326	753302	379203	0.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.89	6.39	7.39	6.89	0.03
27 Naphthalene-d8	8.91	8.41	9.41	8.90	-0.04
42 Acenaphthene-d10	11.74	11.24	12.24	11.74	0.02
59 Phenanthrene-d10	14.09	13.59	14.59	14.09	-0.02
69 Chrysene-d12	18.37	17.87	18.87	18.37	-0.02
134 Di-n-octylphthala	19.59	19.09	20.09	19.59	0.01
77 Perylene-d12	20.51	20.01	21.01	20.51	-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: LIQUID
Lab Smp Id: KZ60LCSDW1
Level: LOW
Data Type: MS DATA
SpikeList File: LLLCS.spk
Sublist File: LLMBLCS.sub
Method File: /chem1/nt6.i/20070525.b/SW846.m
Misc Info: 07-9583

Client SDG: KZ60
Fraction: SV
Client Smp ID: KZ60LCSDW1
Operator: LJR/VTS
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Phenol	25.00	18.10	72.39	44-106
4 Bis(2-Chloroethyl)	25.00	18.65	74.59	67-110
6 2-Chlorophenol	25.00	18.54	74.17	49-110
7 1,3-Dichlorobenzen	25.00	17.08	68.33	14-99
9 1,4-Dichlorobenzen	25.00	16.89	67.54	22-91
11 Benzyl alcohol	50.00	31.32	62.63	50-118
12 1,2-Dichlorobenzen	25.00	15.98	63.91	23-103
13 2-Methylphenol	25.00	18.74	74.95	66-108
14 2,2'-oxybis(1-Chlo	25.00	19.45	77.80	50-118
15 4-Methylphenol	50.00	38.08	76.15	63-117
16 N-Nitroso-di-n-pro	25.00	20.38	81.51	51-119
17 Hexachloroethane	25.00	15.38	61.52	10-105
19 Nitrobenzene	25.00	19.87	79.47	64-121
20 Isophorone	25.00	20.44	81.76	65-129
21 2-Nitrophenol	25.00	21.77	OK 87.08	62-119
22 2,4-Dimethylphenol	25.00	16.74	66.96	46-107
23 Bis(2-Chloroethoxy	25.00	19.78	79.12	62-123
24 Benzoic acid	75.00	63.88	85.18	36-122
25 2,4-Dichlorophenol	25.00	19.24	76.94	62-124
26 1,2,4-Trichloroben	25.00	17.93	71.72	26-95
28 Naphthalene	25.00	18.36	73.44	48-108
29 4-Chloroaniline	60.00	11.18	18.64*	19-81
30 Hexachlorobutadien	25.00	19.12	76.49	10-110
31 4-Chloro-3-methylp	25.00	19.79	79.16	42-129
32 2-Methylnaphthalen	25.00	17.86	71.43	51-111
33 Hexachlorocyclopen	75.00	49.92	66.56	10-71
34 2,4,6-Trichlorophe	25.00	20.52	82.09	64-115
35 2,4,5-Trichlorophe	25.00	20.57	82.27	67-112
37 2-Chloronaphthalen	25.00	19.66	78.63	53-109
38 2-Nitroaniline	25.00	22.56	90.22	61-131
39 Dimethylphthalate	25.00	20.68	82.72	67-124
40 Acenaphthylene	25.00	19.45	77.78	62-115
41 2,6-Dinitrotoluene	25.00	23.96	95.85	64-131

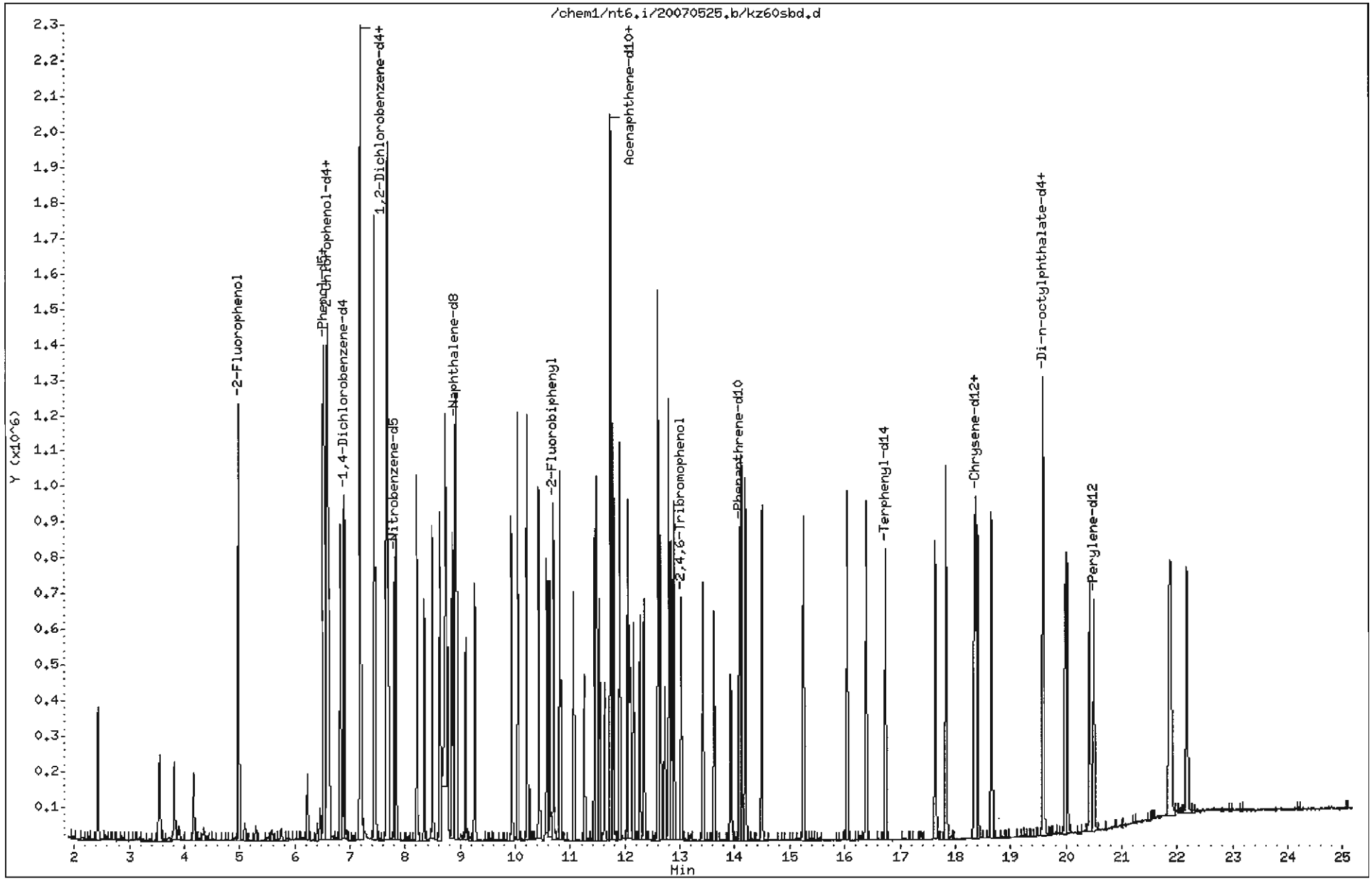
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
43 3-Nitroaniline	64.00	39.79	62.17	53-114
44 Acenaphthene	25.00	20.00	80.00	52-109
45 2,4-Dinitrophenol	75.00	178.5	237.97*	10-143
46 Dibenzofuran	25.00	19.65	78.58	62-114
47 4-Nitrophenol	25.00	18.70	74.80	19-160
48 2,4-Dinitrotoluene	25.00	23.78	95.13	50-129
49 Fluorene	25.00	19.42	77.69	60-126
50 Diethylphthalate	25.00	20.43	81.73	66-136
51 4-Chlorophenyl-phe	25.00	19.69	78.76	59-127
52 4-Nitroaniline	25.00	18.89	75.56	41-134
53 4,6-Dinitro-2-meth	75.00	98.93	131.91	31-137
54 N-Nitrosodiphenyla	25.00	18.62	74.50	47-145
56 4-Bromophenyl-phen	25.00	19.62	OK 78.48	64-123
57 Hexachlorobenzene	25.00	19.91	79.65	62-122
58 Pentachlorophenol	25.00	19.90	79.59	41-119
60 Phenanthrene	25.00	19.48	77.92	63-123
61 Anthracene	25.00	18.77	75.07	61-122
62 Carbazole	25.00	18.90	75.62	64-128
63 Di-n-butylphthalat	25.00	21.49	85.96	66-138
64 Fluoranthene	25.00	19.73	78.94	60-130
65 Pyrene	25.00	21.37	85.49	54-120
67 Butylbenzylphthala	25.00	23.14	92.54	63-118
68 Benzo(a)anthracene	25.00	19.63	78.53	60-126
70 3,3'-Dichlorobenzi	64.00	11.82	18.46	10-106
71 Chrysene	25.00	18.66	74.62	64-119
72 bis(2-Ethylhexyl)p	25.00	23.08	92.32	42-158
73 Di-n-octylphthalat	25.00	20.25	81.00	68-115
74 Benzo(b)fluoranthe	25.00	20.68	82.71	61-129
75 Benzo(k)fluoranthe	25.00	21.57	86.27	63-129
76 Benzo(a)pyrene	25.00	18.94	75.76	62-119
78 Indeno(1,2,3-cd)py	25.00	19.64	78.55	44-147
79 Dibenzo(a,h)anthra	25.00	19.95	79.82	54-145
80 Benzo(g,h,i)peryle	25.00	19.69	78.76	53-141

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	37.50	26.83	71.55	27-131
$ 2 Phenol-d5	37.50	27.53	73.43	40-110
$ 5 2-Chlorophenol-d4	37.50	27.15	72.39	51-110
$ 10 1,2-Dichlorobenzen	25.00	16.14	64.57	39-90
$ 18 Nitrobenzene-d5	25.00	20.86	83.44	53-112
$ 36 2-Fluorobiphenyl	25.00	18.43	73.73	52-99
$ 55 2,4,6-Tribromophen	37.50	32.21	85.90	47-116

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	25.00	22.17	88.66	55-116

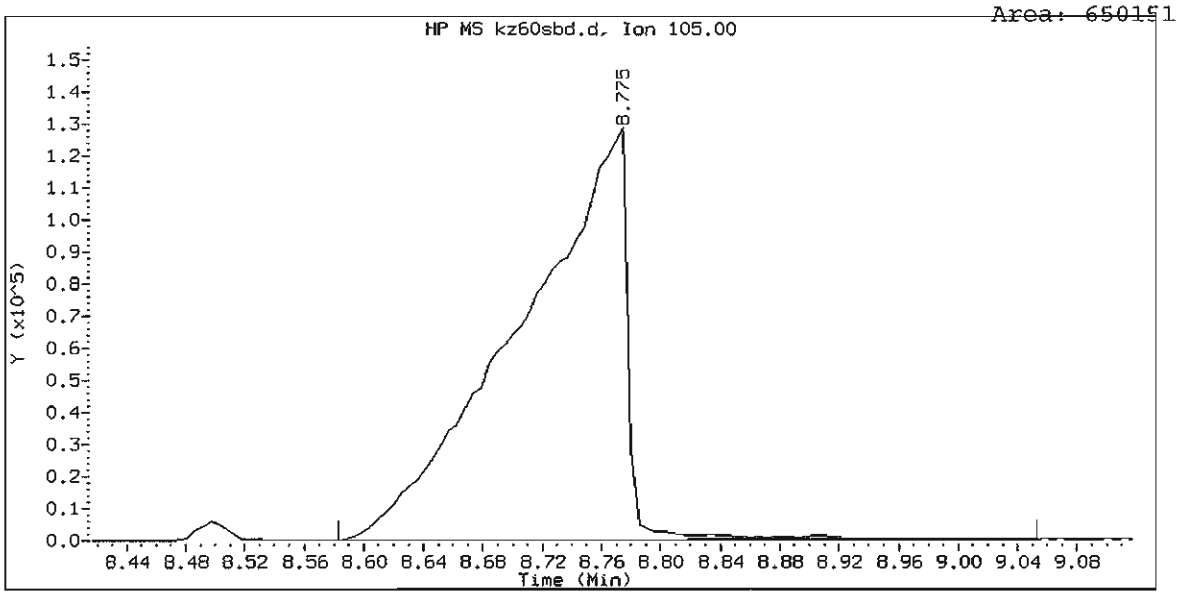
Data File: /chem1/nt6.i/20070525.b/kz60sbd.d
Date : 25-MAY-2007 13:13
Client ID: KZ60LCSDW1
Sample Info: KZ60LCSDW1
Volume Injected (uL): 1.0
Column phase: ZB-5

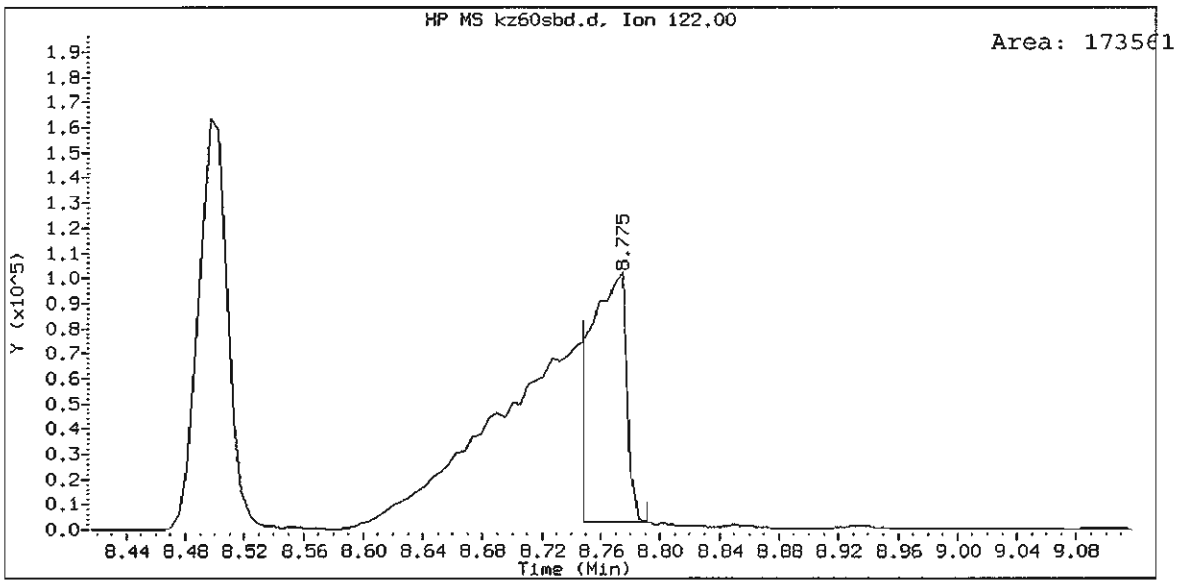
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

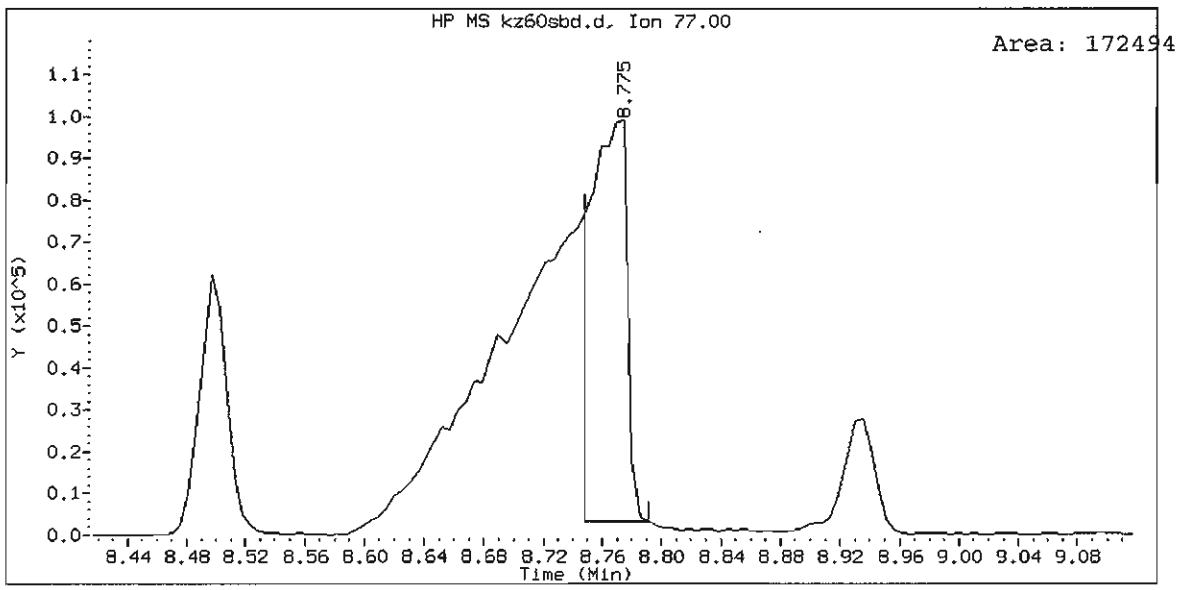


0947

KZ60LCSDW1, /chem1/nt6.i/20070525.b/kz60sbd.d
Benzoic acid Amount: 63.88







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-052207
METHOD BLANK

Lab Sample ID: MB-052207
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 12:55
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	62.8%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	63.5%	2-Fluorophenol	47.2%
2,4,6-Tribromophenol	59.7%	d4-2-Chlorophenol	63.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56mb.d
Lab Smp Id: KZ56MBS1 Client Smp ID: KZ56MBS1
Inj Date : 26-MAY-2007 12:55
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56MBS1
Misc Info : 07-9554 LJR 5/29/07
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	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)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.001	4.981	(0.726)	364100	17.7232	354.5
$ 2 Phenol-d5	99	6.513	6.514	(0.946)	573992	23.8125	476.3
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.593	6.595	(0.957)	394536	23.6715	473.4
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.887	6.883	(1.000)	225962	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	7.175	7.177	(1.042)	160543	15.7521	315.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.800	7.807	(0.877)	337095	17.2771	345.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.896	8.902	(1.000)	819966	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.696	10.703	(0.912)	440829	15.7020	314.0
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.732	11.734	(1.000)	415980	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.020	13.021	(1.110)	94724	22.3669	447.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.083	14.084	(1.000)	579171	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	16.738	16.734	(0.912)	413522	18.2128	364.3
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.362	18.369	(1.000)	432110	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	Compound Not Detected.					
72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134 Di-n-octylphthalate-d4	153	19.580	19.587	(1.000)	680250	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	Compound Not Detected.					
75 Benzo(k)fluoranthene	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.499	20.505	(1.000)	445653	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.					
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56mb.d
Lab Smp Id: KZ56MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: KZ56MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	225962	4.14
27 Naphthalene-d8	799420	399710	1598840	819966	2.57
42 Acenaphthene-d10	390056	195028	780112	415980	6.65
59 Phenanthrene-d10	573879	286940	1147758	579171	0.92
69 Chrysene-d12	366829	183414	733658	432110	17.80
134 Di-n-octylphthala	621709	310854	1243418	680250	9.42
77 Perylene-d12	428868	214434	857736	445653	3.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.06
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.08
42 Acenaphthene-d10	11.73	11.23	12.23	11.73	-0.01
59 Phenanthrene-d10	14.08	13.58	14.58	14.08	-0.01
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.04
134 Di-n-octylphthala	19.59	19.09	20.09	19.58	-0.03
77 Perylene-d12	20.51	20.01	21.01	20.50	-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: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: SONICLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Client SDG: KZ56
Fraction: SV
Client Smp ID: KZ56MBS1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	354.5	47.26	42-87
$ 2 Phenol-d5	750.0	476.3	63.50	47-87
$ 5 2-Chlorophenol-d4	750.0	473.4	63.12	47-86
$ 10 1,2-Dichlorobenzen	500.0	315.0	63.01	43-82
$ 18 Nitrobenzene-d5	500.0	345.5	69.11	46-87
$ 36 2-Fluorobiphenyl	500.0	314.0	62.81	46-88
$ 55 2,4,6-Tribromophen	750.0	447.3	59.64	40-97
$ 66 Terphenyl-d14	500.0	364.3	72.85	37-114

Data File: /chem1/nt6.i/20070526.b/kz56mb.d

Date : 26-MAY-2007 12:55

Client ID: KZ56MBS1

Sample Info: KZ56MBS1

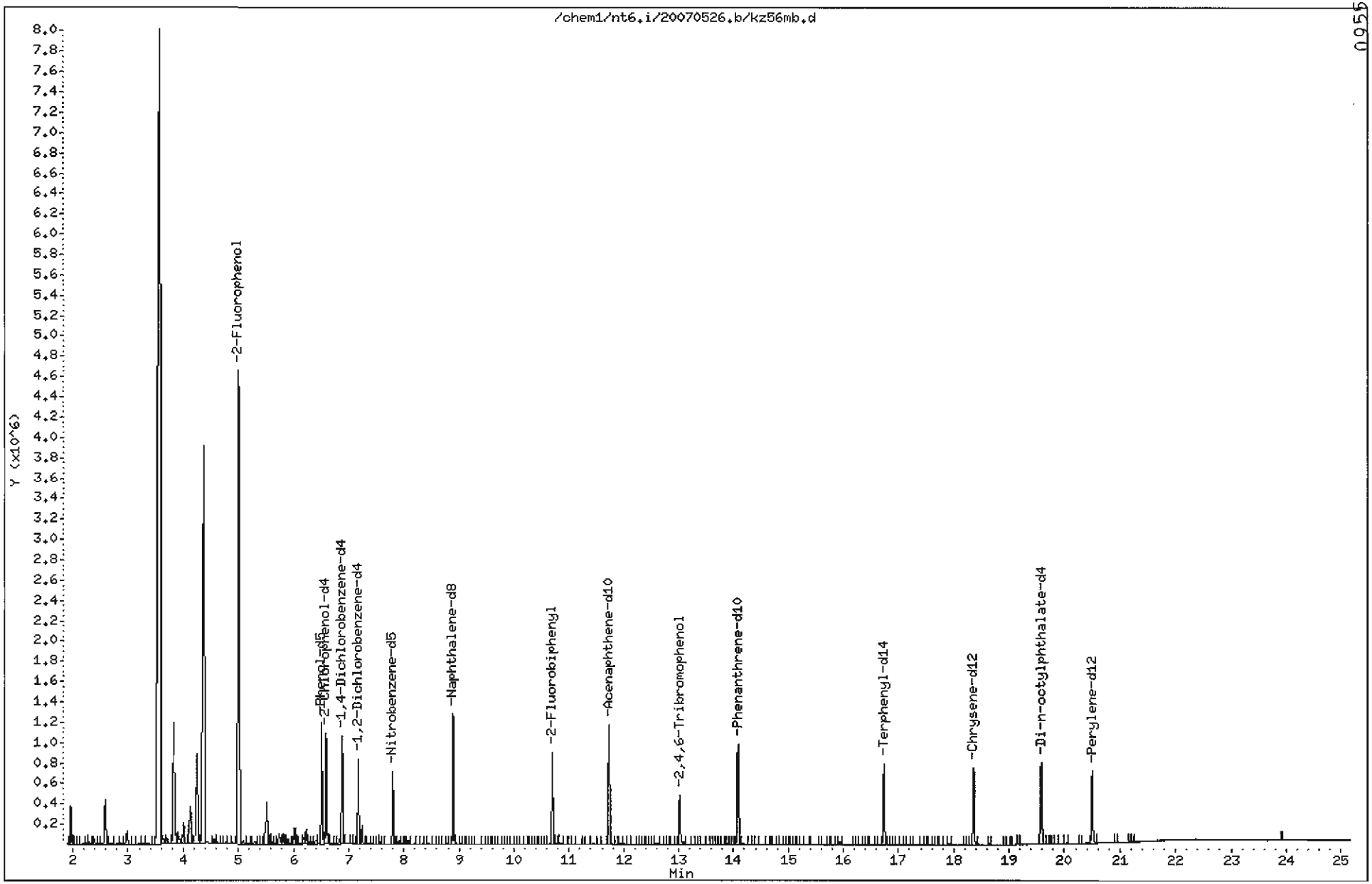
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS

Column diameter: 0.32



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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: MB-060107
METHOD BLANK

Lab Sample ID: MB-060107
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/07/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 06/01/07
Date Analyzed: 06/06/07 09:51
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.0%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	72.4%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	68.3%	2-Fluorophenol	61.1%
2,4,6-Tribromophenol	74.7%	d4-2-Chlorophenol	68.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070606.b/lb02mb.d
Lab Smp Id: LB02MBS1 Client Smp ID: LB02MBS1
Inj Date : 06-JUN-2007 09:51
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LB02MBS1
Misc Info : 07-10591
Comment : 1ul Injection
Method : /chem1/nt6.i/20070606.b/SW846.m
Meth Date : 06-Jun-2007 12:21 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 6/6/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	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)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.261	4.228	(0.690)	446899	22.8631	457.3
$ 2 Phenol-d5	99	5.874	5.878	(0.951)	587864	25.6319	512.6
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	5.901	5.894	(0.955)	405325	25.5593	511.2
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.178	6.177	(1.000)	214996	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	6.472	6.471	(1.048)	157585	16.2505	325.0
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.113	7.118	(0.868)	334287	17.9805	359.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.198	8.197	(1.000)	781327	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.998	10.002	(0.909)	449908	16.4080	328.2
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.002	11.007	(1.000)	406280	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.279	12.284	(1.116)	115623	27.9935	559.1
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.321	13.325	(1.000)	576710	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	15.965	15.970	(0.910)	406920	18.1093	362.2
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	17.541	17.551	(1.000)	427641	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	Compound Not Detected.					
72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134 Di-n-octylphthalate-d4	153	18.839	18.838	(1.000)	692827	20.0000	
73 Di-n-octylphthalate	149	Compound Not Detected.					
74 Benzo(b)fluoranthene	252	Compound Not Detected.					
75 Benzo(k)fluoranthene	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	19.657	19.656	(1.000)	463547	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.					
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lb02mb.d
Lab Smp Id: LB02MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-10591

Calibration Date: 06-JUN-2007
Calibration Time: 08:14
Client Smp ID: LB02MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	210566	105283	421132	214996	2.10
27 Naphthalene-d8	738477	369238	1476954	781327	5.80
42 Acenaphthene-d10	362869	181434	725738	406280	11.96
59 Phenanthrene-d10	499867	249934	999734	576710	15.37
69 Chrysene-d12	387597	193798	775194	427641	10.33
134 Di-n-octylphthala	653887	326944	1307774	692827	5.96
77 Perylene-d12	508340	254170	1016680	463547	-8.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.18	5.68	6.68	6.18	0.02
27 Naphthalene-d8	8.20	7.70	8.70	8.20	0.01
42 Acenaphthene-d10	11.01	10.51	11.51	11.00	-0.04
59 Phenanthrene-d10	13.33	12.83	13.83	13.32	-0.03
69 Chrysene-d12	17.55	17.05	18.05	17.54	-0.06
134 Di-n-octylphthala	18.84	18.34	19.34	18.84	0.01
77 Perylene-d12	19.66	19.16	20.16	19.66	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: SPU
Sample Matrix: SOLID
Lab Smp Id: LB02MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-10591

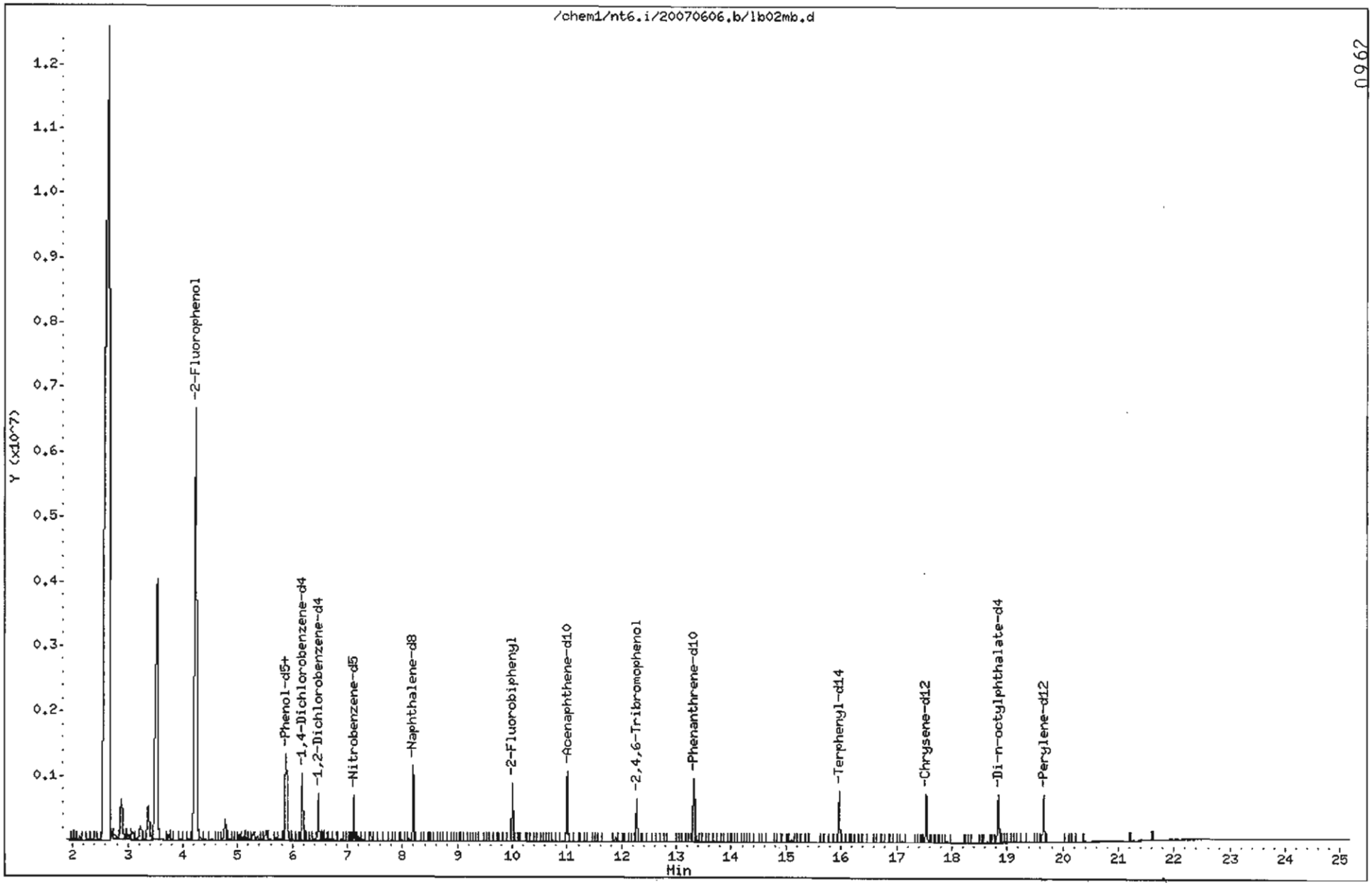
Client SDG: LB02
Fraction: SV
Client Smp ID: LB02MBS1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	457.3	60.97	26-83
$ 2 Phenol-d5	750.0	512.6	68.35	42-82
$ 5 2-Chlorophenol-d4	750.0	511.2	68.16	43-80
$ 10 1,2-Dichlorobenzen	500.0	325.0	65.00	38-79
$ 18 Nitrobenzene-d5	500.0	359.6	71.92	42-79
$ 36 2-Fluorobiphenyl	500.0	328.2	65.63	43-80
$ 55 2,4,6-Tribromophen	750.0	559.1	74.54	41-94
$ 66 Terphenyl-d14	500.0	362.2	72.44	39-105

Data File: /chem1/nt6.i/20070606.b/lb02mb.d
Date : 06-JUN-2007 09:51
Client ID: LB02MBS1
Sample Info: LB02MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



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Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56sb.d
Lab Smp Id: KZ56LCSS1 Client Smp ID: KZ56LCSS1
Inj Date : 26-MAY-2007 13:29
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56LCSS1
Misc Info : 07-9554
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 5/29/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	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)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	5.004	4.981	(0.727)	390857	20.2295	404.6
$ 2 Phenol-d5	99	6.515	6.514	(0.946)	603818	26.6350	532.7
3 Phenol	94	6.531	6.536	(0.949)	418678	16.8231	336.5
$ 5 2-Chlorophenol-d4	132	6.595	6.595	(0.958)	403929	25.7687	515.4
4 Bis(2-Chloroethyl)ether	93	6.585	6.584	(0.957)	322322	16.1320	322.6
6 2-Chlorophenol	128	6.622	6.621	(0.962)	291598	16.5756	331.5
7 1,3-Dichlorobenzene	146	6.820	6.824	(0.991)	284929	16.0676	321.4
* 8 1,4-Dichlorobenzene-d4	152	6.884	6.883	(1.000)	212514	20.0000	
9 1,4-Dichlorobenzene	146	6.911	6.910	(1.004)	279334	15.6121	312.2
$ 10 1,2-Dichlorobenzene-d4	152	7.178	7.177	(1.043)	161820	16.8821	337.6
12 1,2-Dichlorobenzene	146	7.199	7.198	(1.046)	259446	15.3809	307.6
11 Benzyl alcohol	108	7.194	7.188	(1.045)	344229	27.7595	555.2 (M)
14 2,2'-oxybis(1-Chloropropane)	45	7.445	7.444	(1.081)	527973	17.6130	352.3
13 2-Methylphenol	108	7.440	7.444	(1.081)	278716	16.6496	333.0
17 Hexachloroethane	117	7.675	7.674	(1.115)	116579	14.9428	298.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.653	7.658	(1.112)	217544	16.8996	338.0
	15 4-Methylphenol	108	7.685	7.674	(1.116)	560845	33.6182	672.4
$	18 Nitrobenzene-d5	82	7.803	7.807	(0.877)	354734	19.5997	392.0
	19 Nitrobenzene	77	7.830	7.834	(0.880)	337487	17.8761	357.5
	20 Isophorone	82	8.214	8.219	(0.923)	640545	18.3424	366.8
	21 2-Nitrophenol	139	8.348	8.347	(0.938)	146100	18.9702	379.4
	22 2,4-Dimethylphenol	107	8.497	8.496	(0.955)	245078	15.7755	315.5
	23 Bis(2-Chloroethoxy)methane	93	8.631	8.630	(0.970)	393394	18.0819	361.6
	24 Benzoic acid	105	8.764	8.763	(0.985)	611916	58.8497	1177
	25 2,4-Dichlorophenol	162	8.738	8.737	(0.982)	187171	16.7659	335.3
	26 1,2,4-Trichlorobenzene	180	8.850	8.854	(0.995)	215311	16.5292	330.6
*	27 Naphthalene-d8	136	8.898	8.902	(1.000)	760621	20.0000	
	28 Naphthalene	128	8.930	8.934	(1.004)	758888	16.8442	336.9
	29 4-Chloroaniline	127	9.096	9.095	(1.022)	642355	32.2492	645.0
	30 Hexachlorobutadiene	225	9.261	9.266	(1.041)	114419	17.6005	352.0
	31 4-Chloro-3-methylphenol	107	9.934	9.933	(1.116)	244418	18.1457	362.9
	32 2-Methylnaphthalene	141	10.046	10.046	(1.129)	369961	16.1542	323.1
	33 Hexachlorocyclopentadiene	237	10.431	10.430	(0.889)	230029	47.3812	947.6
	34 2,4,6-Trichlorophenol	196	10.570	10.574	(0.901)	127393	17.9647	359.3
	35 2,4,5-Trichlorophenol	196	10.629	10.628	(0.906)	136460	18.0555	361.1
$	36 2-Fluorobiphenyl	172	10.698	10.703	(0.912)	452098	19.1645	383.3
	37 2-Chloronaphthalene	162	10.816	10.815	(0.922)	402156	17.7653	355.3
	38 2-Nitroaniline	65	11.062	11.061	(0.943)	182075	21.4305	428.6
	39 Dimethylphthalate	163	11.457	11.456	(0.976)	422474	18.8039	376.1
	40 Acenaphthylene	152	11.484	11.483	(0.979)	654225	17.7510	355.0
	41 2,6-Dinitrotoluene	165	11.532	11.536	(0.983)	103101	21.9786	439.6
*	42 Acenaphthene-d10	164	11.735	11.734	(1.000)	349536	20.0000	
	43 3-Nitroaniline	138	11.740	11.739	(1.000)	271884	42.3079	846.2
	44 Acenaphthene	153	11.788	11.787	(1.005)	400632	18.1634	363.3
	45 2,4-Dinitrophenol	184	11.900	11.905	(1.014)	131146	117.755	2355
	46 Dibenzofuran	168	12.044	12.049	(1.026)	536334	18.0382	360.8
	47 4-Nitrophenol	109	12.087	12.086	(1.030)	48661	13.3284	266.6(M)
	48 2,4-Dinitrotoluene	165	12.151	12.156	(1.036)	131166	21.9731	439.5
	50 Diethylphthalate	149	12.605	12.610	(1.074)	428176	19.1230	382.5
	49 Fluorene	166	12.600	12.599	(1.074)	418169	17.8473	356.9
	51 4-Chlorophenyl-phenylether	204	12.643	12.642	(1.077)	200103	18.1236	362.5
	52 4-Nitroaniline	138	12.723	12.727	(1.084)	105855	16.1826	323.7(M)
	53 4,6-Dinitro-2-methylphenol	198	12.798	12.802	(0.909)	188197	77.1482	1543
	54 N-Nitrosodiphenylamine	169	12.851	12.856	(0.912)	303762	18.5772	371.5
$	55 2,4,6-Tribromophenol	330	13.022	13.021	(1.110)	107815	30.2973	605.9
	56 4-Bromophenyl-phenylether	248	13.417	13.416	(0.953)	114413	18.1347	362.7
	57 Hexachlorobenzene	284	13.615	13.614	(0.967)	122036	18.3138	366.3
	58 Pentachlorophenol	266	13.925	13.924	(0.989)	67257	16.9896	339.8(M)
*	59 Phenanthrene-d10	188	14.085	14.084	(1.000)	510914	20.0000	
	60 Phenanthrene	178	14.123	14.122	(1.003)	610239	17.8973	357.9
	61 Anthracene	178	14.192	14.196	(1.008)	596109	16.9202	338.4
	62 Carbazole	167	14.491	14.496	(1.029)	532310	17.5587	351.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	15.244	15.249	(1.082)	744325	19.9082	398.2
	64 Fluoranthene	202	16.040	16.045	(1.139)	575500	17.7897	355.8
	65 Pyrene	202	16.388	16.392	(0.892)	594089	19.3810	387.6
$	66 Terphenyl-d14	244	16.735	16.734	(0.911)	409171	21.0788	421.6
	67 Butylbenzylphthalate	149	17.638	17.642	(0.960)	302375	20.9800	419.6
	68 Benzo(a)anthracene	228	18.337	18.342	(0.999)	528147	19.1386	382.8
*	69 Chrysene-d12	240	18.364	18.369	(1.000)	369429	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.380	18.379	(1.001)	377939	35.5868	711.7
	71 Chrysene	228	18.407	18.406	(1.002)	508837	18.2275	364.5
	72 bis(2-Ethylhexyl)phthalate	149	18.653	18.657	(0.953)	427356	20.6533	413.1
*	134 Di-n-octylphthalate-d4	153	19.582	19.587	(1.000)	604119	20.0000	
	73 Di-n-octylphthalate	149	19.593	19.592	(1.001)	683433	19.0430	380.9
	74 Benzo(b)fluoranthene	252	19.983	19.987	(0.975)	568002	18.5208	370.4
	75 Benzo(k)fluoranthene	252	20.015	20.019	(0.976)	596427	20.2444	404.9
	76 Benzo(a)pyrene	252	20.421	20.425	(0.996)	537146	17.4985	350.0
*	77 Perylene-d12	264	20.501	20.505	(1.000)	473002	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.853	21.852	(1.066)	652495	17.9792	359.6
	79 Dibenzo(a,h)anthracene	278	21.885	21.884	(1.067)	548649	18.2528	365.1
	80 Benzo(g,h,i)perylene	276	22.178	22.178	(1.082)	572763	17.2280	344.6
	90 N-Nitrosodimethylamine	74	2.450	2.422	(0.356)	200482	14.9937	299.9
	91 Aniline	93	6.457	6.456	(0.938)	935700	29.4383	588.8
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	2.434	2.401	(0.354)	258075	11.1066	222.1
	105 1-methylnaphthalene	141	10.212	10.217	(1.148)	383665	17.4078	348.2
	111 Azobenzene (1,2-DP-Hydrazine)	77	12.889	12.893	(1.098)	639671	19.0455	380.9

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: kz56sb.d
Lab Smp Id: KZ56LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: KZ56LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	212514	-2.06
27 Naphthalene-d8	799420	399710	1598840	760621	-4.85
42 Acenaphthene-d10	390056	195028	780112	349536	-10.39
59 Phenanthrene-d10	573879	286940	1147758	510914	-10.97
69 Chrysene-d12	366829	183414	733658	369429	0.71
134 Di-n-octylphthala	621709	310854	1243418	604119	-2.83
77 Perylene-d12	428868	214434	857736	473002	10.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.88	0.01
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.05
42 Acenaphthene-d10	11.73	11.23	12.23	11.73	0.01
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.01
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.02
134 Di-n-octylphthala	19.59	19.09	20.09	19.58	-0.02
77 Perylene-d12	20.51	20.01	21.01	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: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Client SDG: KZ56
Fraction: SV
Client Smp ID: KZ56LCSS1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	336.5	67.29	45-89
4 Bis(2-Chloroethyl)	500.0	322.6	64.53	42-82
6 2-Chlorophenol	500.0	331.5	66.30	46-80
7 1,3-Dichlorobenzen	500.0	321.4	64.27	45-76
9 1,4-Dichlorobenzen	500.0	312.2	62.45	45-76
11 Benzyl alcohol	1000	555.2	55.52	36-79
12 1,2-Dichlorobenzen	500.0	307.6	61.52	44-78
13 2-Methylphenol	500.0	333.0	66.60	47-82
14 2,2'-oxybis(1-Chlo	500.0	352.3	70.45	36-96
15 4-Methylphenol	1000	672.4	67.24	47-86
16 N-Nitroso-di-n-pro	500.0	338.0	67.60	42-84
17 Hexachloroethane	500.0	298.9	59.77	40-77
19 Nitrobenzene	500.0	357.5	71.50	35-94
20 Isophorone	500.0	366.8	73.37	50-86
21 2-Nitrophenol	500.0	379.4	75.88	46-84
22 2,4-Dimethylphenol	500.0	315.5	63.10	30-76
23 Bis(2-Chloroethoxy	500.0	361.6	72.33	48-81
24 Benzoic acid	1500	1177	78.47	39-103
25 2,4-Dichlorophenol	500.0	335.3	67.06	50-85
26 1,2,4-Trichloroben	500.0	330.6	66.12	45-81
28 Naphthalene	500.0	336.9	67.38	46-80
29 4-Chloroaniline	1200	645.0	53.75	15-79
30 Hexachlorobutadien	500.0	352.0	70.40	44-79
31 4-Chloro-3-methylp	500.0	362.9	72.58	50-89
32 2-Methylnaphthalen	500.0	323.1	64.62	49-81
33 Hexachlorocyclopen	1500	947.6	63.17	17-98
34 2,4,6-Trichlorophe	500.0	359.3	71.86	48-89
35 2,4,5-Trichlorophe	500.0	361.1	72.22	47-91
37 2-Chloronaphthalen	500.0	355.3	71.06	50-83
38 2-Nitroaniline	500.0	428.6	85.72	45-96
39 Dimethylphthalate	500.0	376.1	75.22	53-87
40 Acenaphthylene	500.0	355.0	71.00	51-84
41 2,6-Dinitrotoluene	500.0	439.6	87.91	49-95

OK

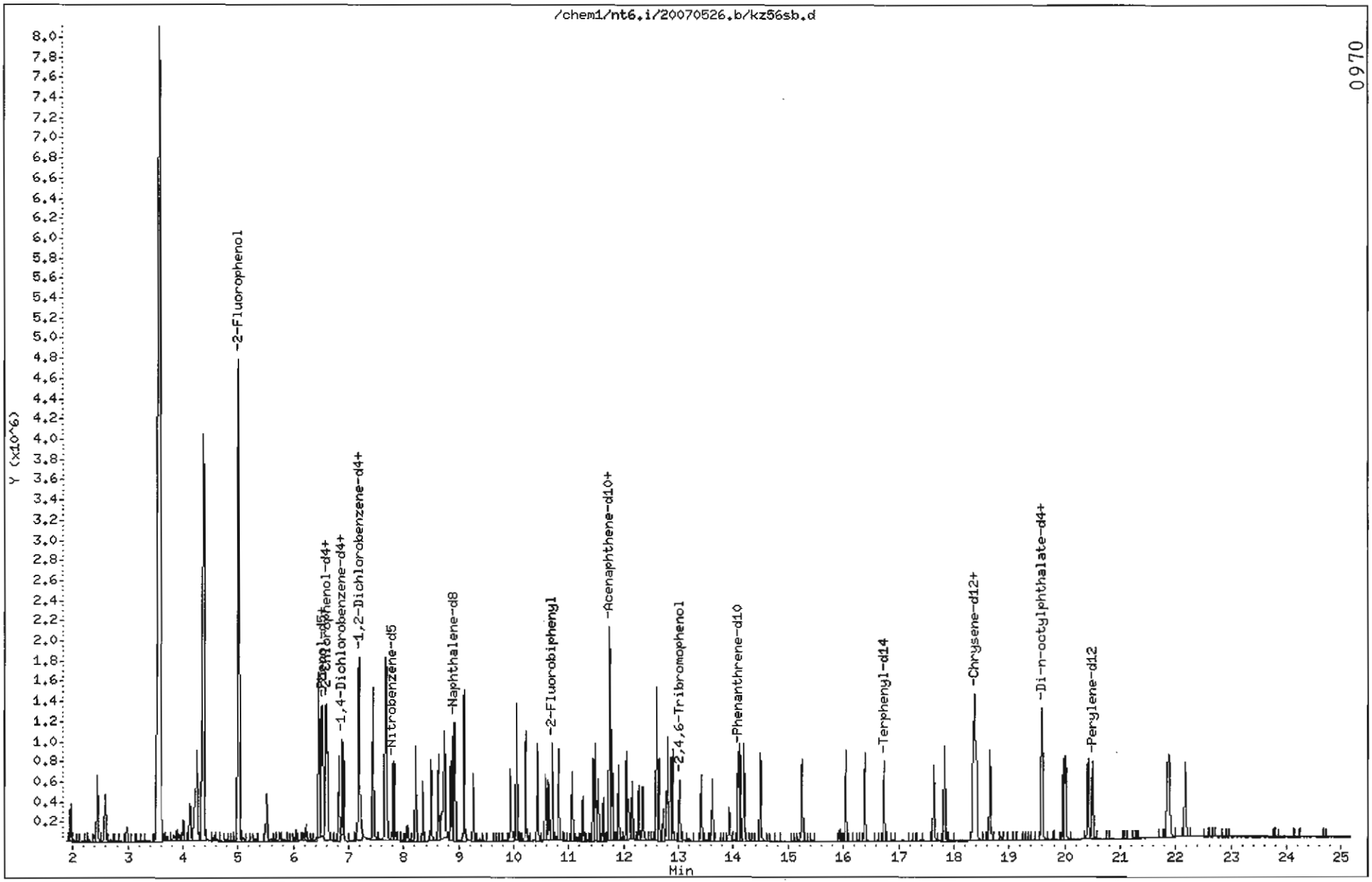
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	846.2	66.11	36-92
44 Acenaphthene	500.0	363.3	72.65	51-83
45 2,4-Dinitrophenol	1500	2355	157.01	10-191
46 Dibenzofuran	500.0	360.8	72.15	50-86
47 4-Nitrophenol	500.0	266.6	53.31	44-98
48 2,4-Dinitrotoluene	500.0	439.5	87.89	50-98
49 Fluorene	500.0	356.9	71.39	52-86
50 Diethylphthalate	500.0	382.5	76.49	55-89
51 4-Chlorophenyl-phe	500.0	362.5	72.49	51-85
52 4-Nitroaniline	500.0	323.7	64.73	30-87
53 4,6-Dinitro-2-meth	1500	1543	102.86	10-136
54 N-Nitrosodiphenyla	500.0	371.5	74.31	28-158
56 4-Bromophenyl-phen	500.0	362.7	72.54	50-90
57 Hexachlorobenzene	500.0	366.3	OK 73.26	49-91
58 Pentachlorophenol	500.0	339.8	67.96	40-100
60 Phenanthrene	500.0	357.9	71.59	51-91
61 Anthracene	500.0	338.4	67.68	51-86
62 Carbazole	500.0	351.2	70.23	51-89
63 Di-n-butylphthalat	500.0	398.2	79.63	58-95
64 Fluoranthene	500.0	355.8	71.16	54-94
65 Pyrene	500.0	387.6	77.52	46-100
67 Butylbenzylphthala	500.0	419.6	83.92	51-99
68 Benzo(a)anthracene	500.0	382.8	76.55	52-90
70 3,3'-Dichlorobenzi	1280	711.7	55.60	10-86
71 Chrysene	500.0	364.5	72.91	51-93
72 bis(2-Ethylhexyl)p	500.0	413.1	82.61	36-111
73 Di-n-octylphthalat	500.0	380.9	76.17	29-108
74 Benzo(b)fluoranthe	500.0	370.4	74.08	54-102
75 Benzo(k)fluoranthe	500.0	404.9	80.98	45-107
76 Benzo(a)pyrene	500.0	350.0	69.99	52-95
78 Indeno(1,2,3-cd)py	500.0	359.6	71.92	34-105
79 Dibenzo(a,h)anthra	500.0	365.1	73.01	36-112
80 Benzo(g,h,i)peryle	500.0	344.6	68.91	25-116

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	404.6	53.95	42-87
$ 2 Phenol-d5	750.0	532.7	71.03	47-87
$ 5 2-Chlorophenol-d4	750.0	515.4	68.72	47-86
$ 10 1,2-Dichlorobenzen	500.0	337.6	67.53	43-82
$ 18 Nitrobenzene-d5	500.0	392.0	78.40	46-87
$ 36 2-Fluorobiphenyl	500.0	383.3	76.66	46-88
$ 55 2,4,6-Tribromophen	750.0	605.9	80.79	40-97

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	421.6	84.32	37-114

Data File: /chem1/nt6.i/20070526.b/kz56sb.d
Date : 26-MAY-2007 13:29
Client ID: KZ56LCSS1
Sample Info: KZ56LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



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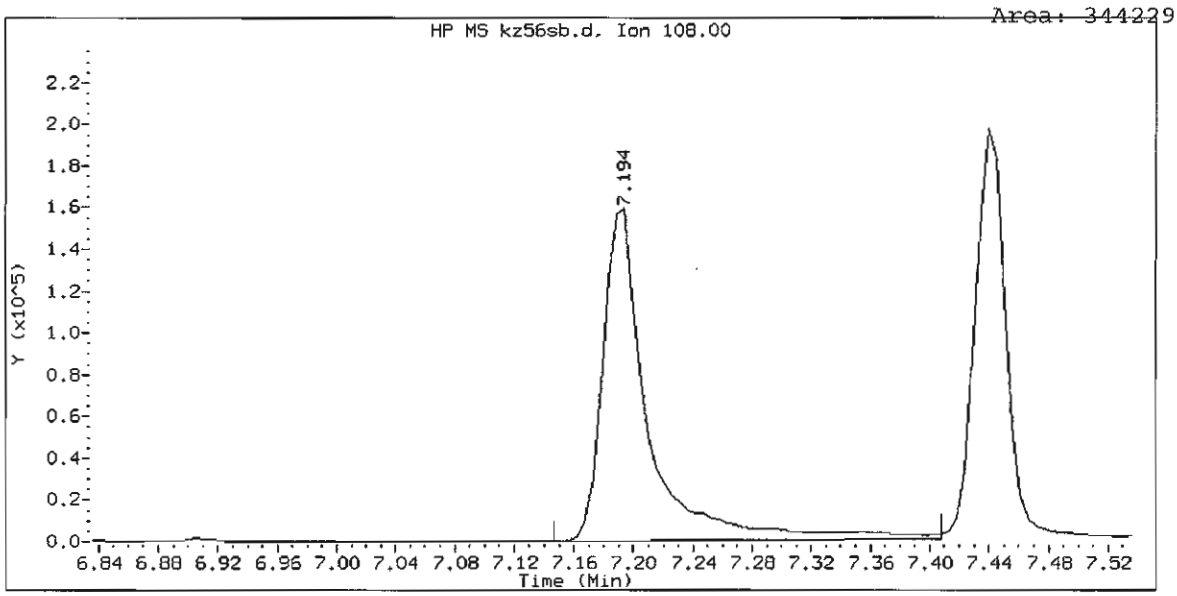
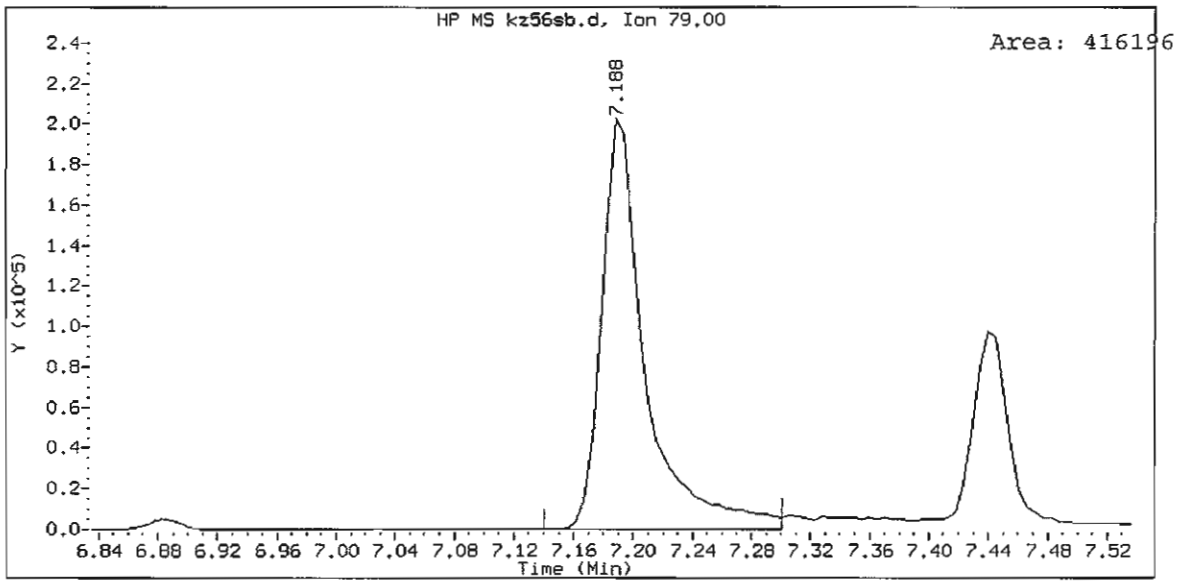
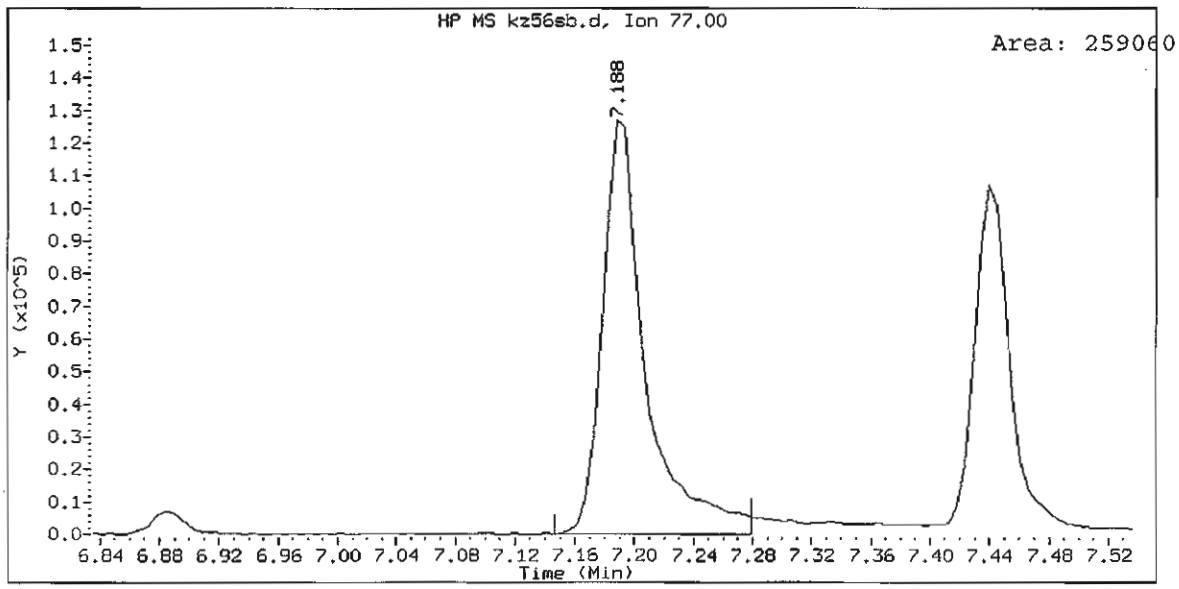
Benzyl alcohol Amount: 27.76







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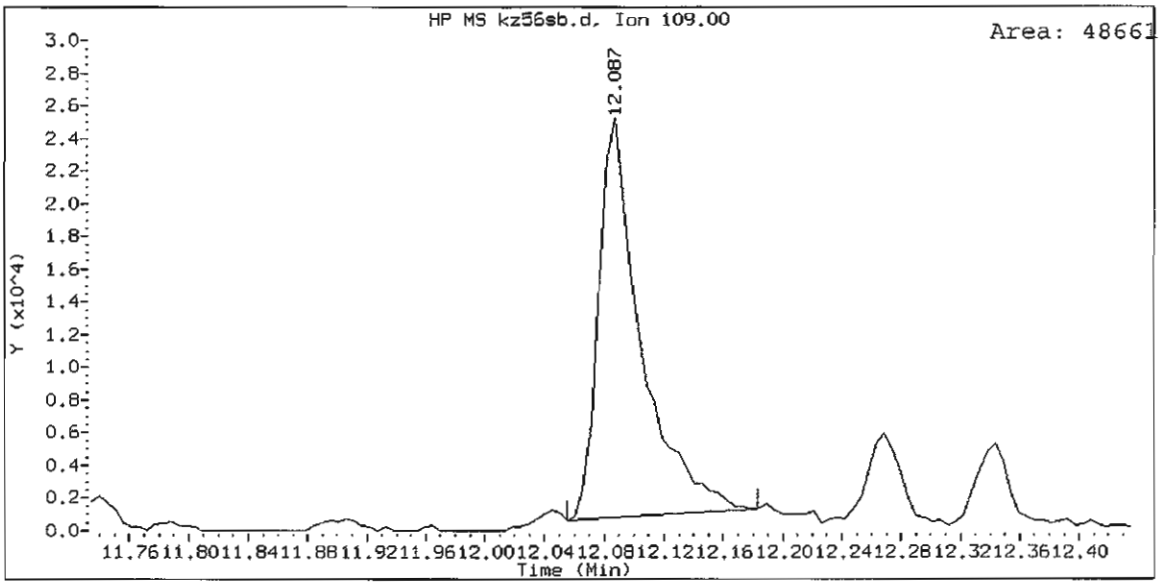
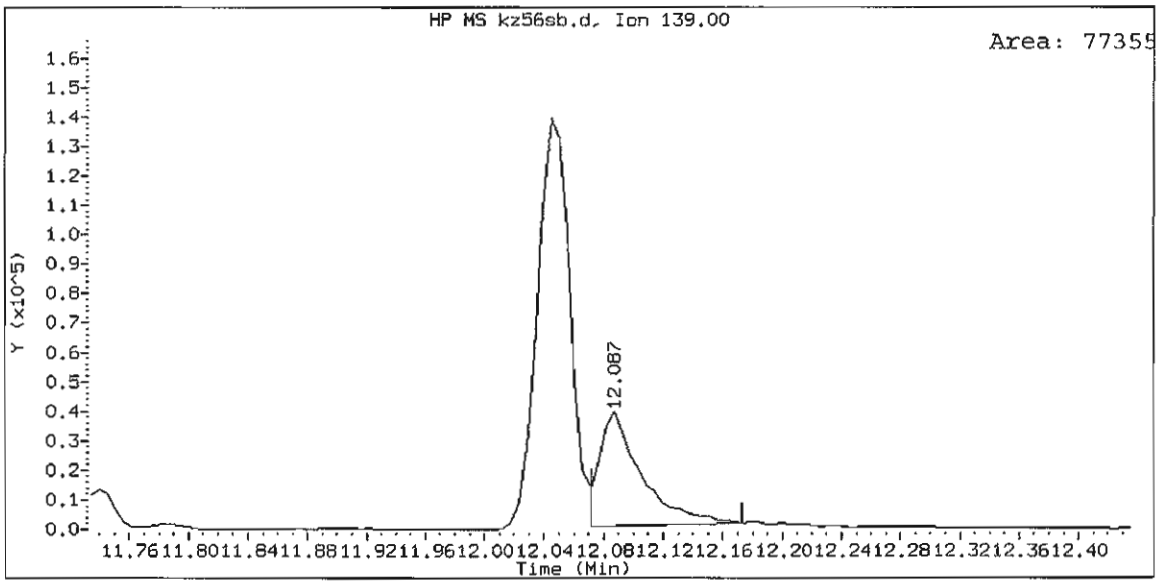
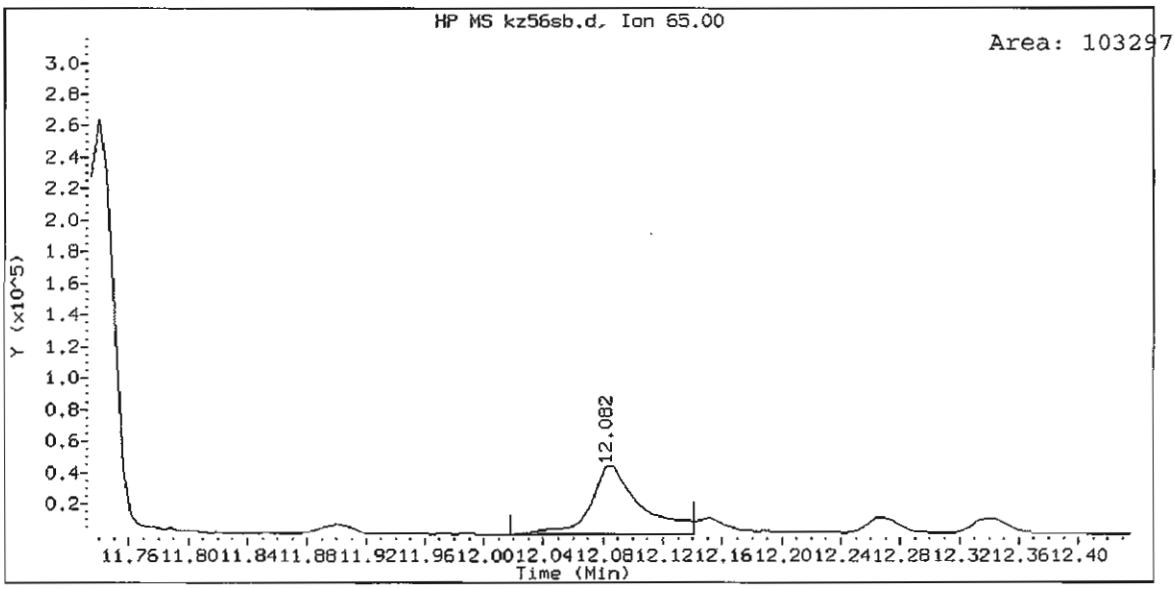
4-Nitrophenol Amount: 13.33







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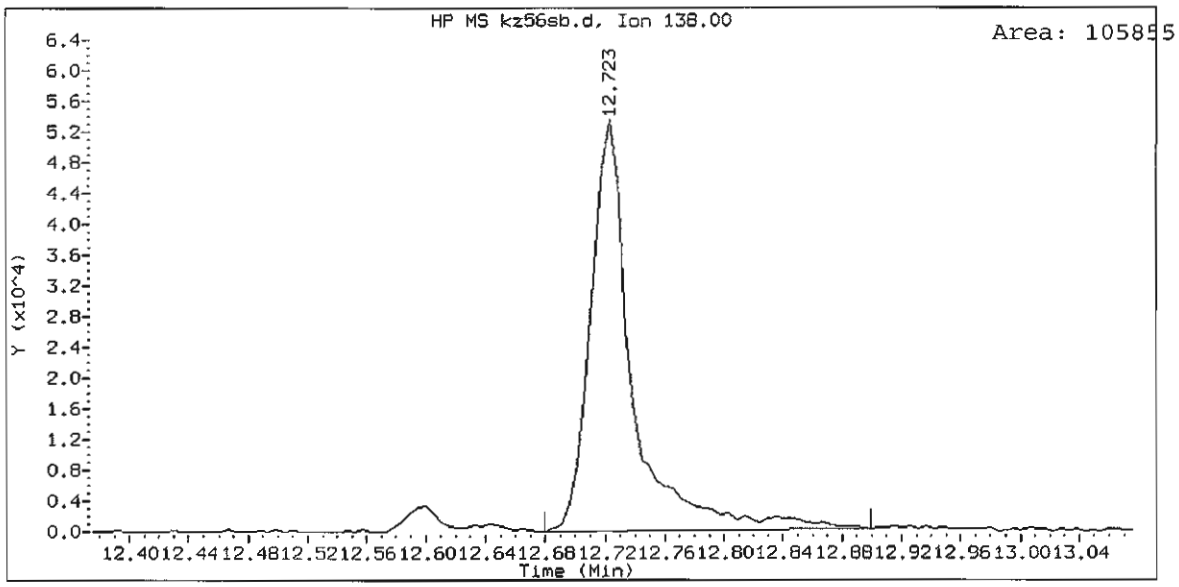
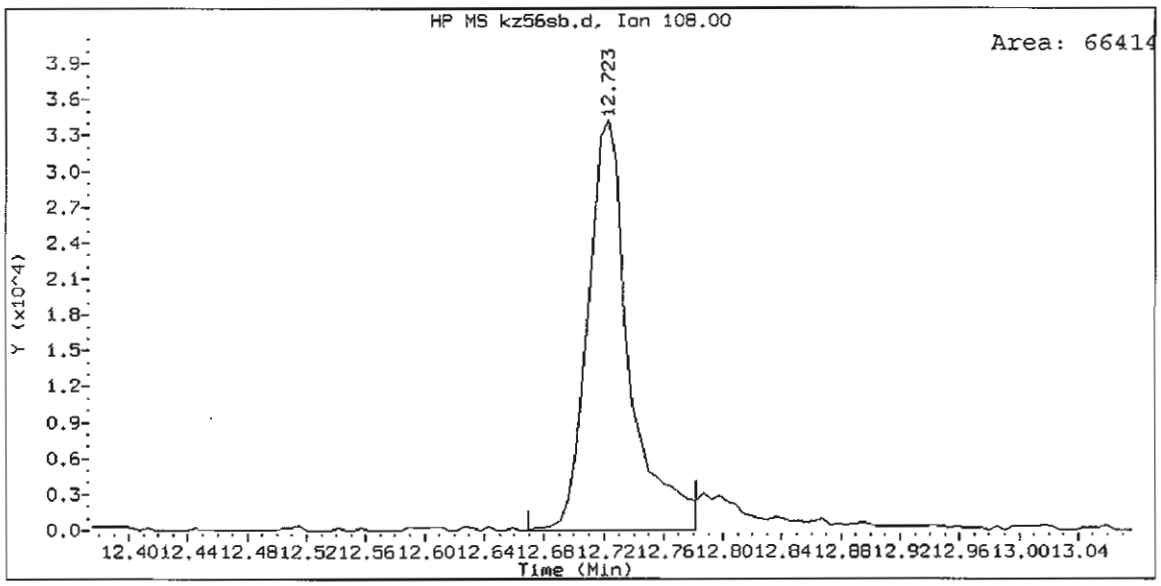
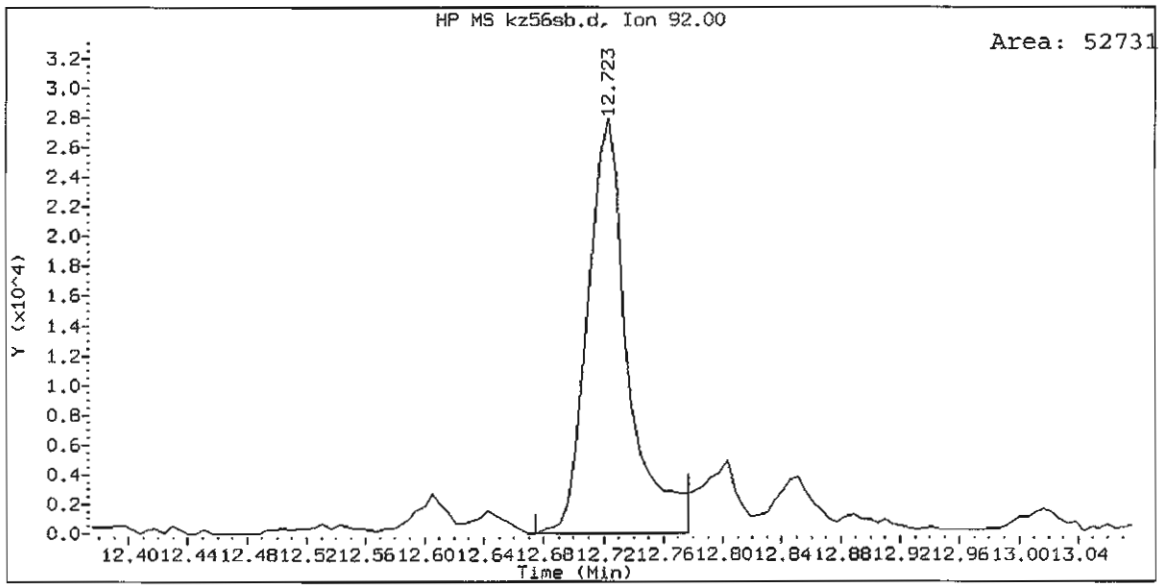
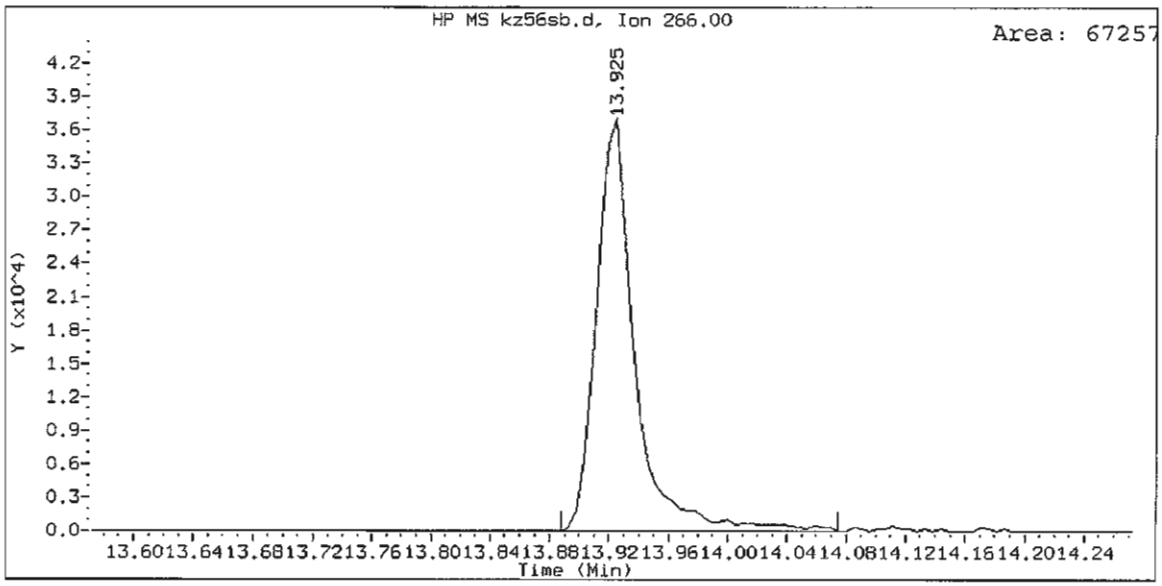
4-Nitroaniline Amount: 16.18

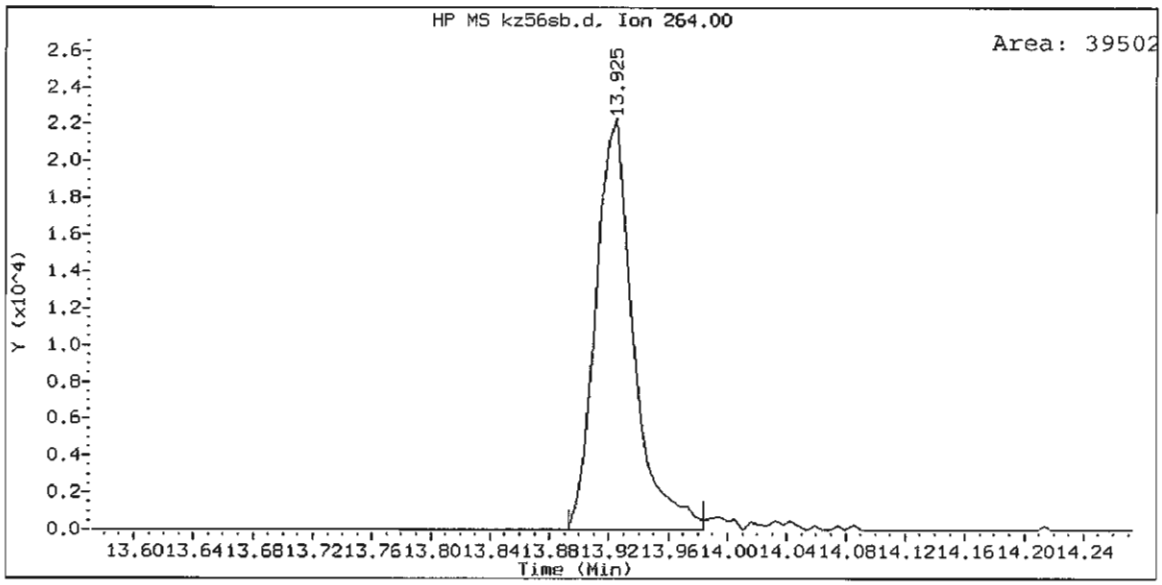


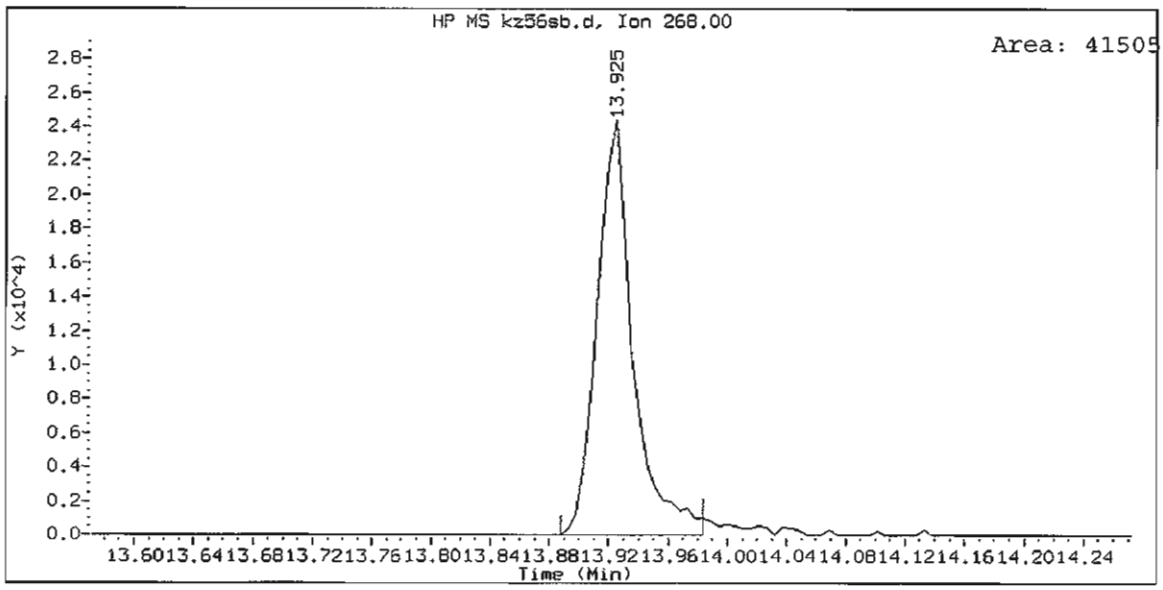




KZ56LCSS1, /chem1/nt6.i/20070526.b/kz56sb.d
Pentachlorophenol Amount: 16.99







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56sbd.d
Lab Smp Id: KZ56LCSDS1 Client Smp ID: KZ56LCSDS1
Inj Date : 26-MAY-2007 14:02
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56LCSDS1
Misc Info : 07-9554
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 5/29/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	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)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.998	4.981	(0.726)	334361	17.1266	342.5
$ 2 Phenol-d5	99	6.515	6.514	(0.946)	518400	22.6308	452.6
3 Phenol	94	6.531	6.536	(0.949)	377522	15.0126	300.3
$ 5 2-Chlorophenol-d4	132	6.596	6.595	(0.958)	345625	21.8213	436.4
4 Bis(2-Chloroethyl)ether	93	6.585	6.584	(0.957)	281340	13.9353	278.7
6 2-Chlorophenol	128	6.622	6.621	(0.962)	250038	14.0662	281.3
7 1,3-Dichlorobenzene	146	6.825	6.824	(0.991)	237091	13.2317	264.6
* 8 1,4-Dichlorobenzene-d4	152	6.884	6.883	(1.000)	214734	20.0000	
9 1,4-Dichlorobenzene	146	6.911	6.910	(1.004)	238964	13.2177	264.4
$ 10 1,2-Dichlorobenzene-d4	152	7.178	7.177	(1.043)	136106	14.0526	281.1
12 1,2-Dichlorobenzene	146	7.199	7.198	(1.046)	220777	12.9532	259.1
11 Benzyl alcohol	108	7.189	7.188	(1.044)	305290	24.3648	487.3 (M)
14 2,2'-oxybis(1-Chloropropane)	45	7.445	7.444	(1.081)	451091	14.8927	297.9
13 2-Methylphenol	108	7.440	7.444	(1.081)	241700	14.2891	285.8
17 Hexachloroethane	117	7.675	7.674	(1.115)	98116	12.4463	248.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.653	7.658	(1.112)	193352	14.8650	297.3
	15 4-Methylphenol	108	7.680	7.674	(1.116)	493468	29.2737	585.5
$	18 Nitrobenzene-d5	82	7.803	7.807	(0.877)	300186	16.1586	323.2
	19 Nitrobenzene	77	7.830	7.834	(0.880)	290065	14.9685	299.4
	20 Isophorone	82	8.214	8.219	(0.923)	559014	15.5954	311.9
	21 2-Nitrophenol	139	8.348	8.347	(0.938)	125414	15.8648	317.3
	22 2,4-Dimethylphenol	107	8.497	8.496	(0.955)	210943	13.2285	264.6
	23 Bis(2-Chloroethoxy)methane	93	8.631	8.630	(0.970)	341806	15.3060	306.1
	24 Benzoic acid	105	8.754	8.763	(0.984)	534743	50.1031	1002 (M)
	25 2,4-Dichlorophenol	162	8.738	8.737	(0.982)	161678	14.1093	282.2
	26 1,2,4-Trichlorobenzene	180	8.850	8.854	(0.995)	182437	13.6447	272.9
*	27 Naphthalene-d8	136	8.898	8.902	(1.000)	780731	20.0000	
	28 Naphthalene	128	8.930	8.934	(1.004)	648621	14.0259	280.5
	29 4-Chloroaniline	127	9.096	9.095	(1.022)	659502	32.2572	645.1
	30 Hexachlorobutadiene	225	9.261	9.266	(1.041)	96827	14.5107	290.2
	31 4-Chloro-3-methylphenol	107	9.934	9.933	(1.116)	210683	15.2383	304.8
	32 2-Methylnaphthalene	141	10.047	10.046	(1.129)	323335	13.7547	275.1
	33 Hexachlorocyclopentadiene	237	10.431	10.430	(0.889)	204404	40.6307	812.6
	34 2,4,6-Trichlorophenol	196	10.570	10.574	(0.901)	112967	15.3733	307.5
	35 2,4,5-Trichlorophenol	196	10.629	10.628	(0.906)	117188	14.9634	299.3
$	36 2-Fluorobiphenyl	172	10.698	10.703	(0.912)	388633	15.8981	318.0
	37 2-Chloronaphthalene	162	10.816	10.815	(0.922)	355657	15.1618	303.2
	38 2-Nitroaniline	65	11.062	11.061	(0.943)	157068	17.8406	356.8
	39 Dimethylphthalate	163	11.452	11.456	(0.976)	380879	16.3597	327.2
	40 Acenaphthylene	152	11.484	11.483	(0.979)	579080	15.1626	303.3
	41 2,6-Dinitrotoluene	165	11.532	11.536	(0.983)	93144	19.1617	383.2
*	42 Acenaphthene-d10	164	11.735	11.734	(1.000)	362202	20.0000	
	43 3-Nitroaniline	138	11.740	11.739	(1.000)	271675	40.7970	815.9
	44 Acenaphthene	153	11.783	11.787	(1.004)	347479	15.2027	304.1
	45 2,4-Dinitrophenol	184	11.900	11.905	(1.014)	115871	100.402	2008
	46 Dibenzofuran	168	12.045	12.049	(1.026)	471475	15.3023	306.0
	47 4-Nitrophenol	109	12.087	12.086	(1.030)	40339	10.6626	213.3 (RM)
	48 2,4-Dinitrotoluene	165	12.151	12.156	(1.036)	113835	18.4029	368.1
	50 Diethylphthalate	149	12.605	12.610	(1.074)	382491	16.4852	329.7
	49 Fluorene	166	12.600	12.599	(1.074)	370204	15.2477	305.0
	51 4-Chlorophenyl-phenylether	204	12.643	12.642	(1.077)	177954	15.5539	311.1
	52 4-Nitroaniline	138	12.718	12.727	(1.084)	101559	14.9830	299.7 (M)
	53 4,6-Dinitro-2-methylphenol	198	12.798	12.802	(0.909)	165519	65.3442	1307
	54 N-Nitrosodiphenylamine	169	12.851	12.856	(0.912)	265722	15.6503	313.0
$	55 2,4,6-Tribromophenol	330	13.017	13.021	(1.109)	91204	24.7332	494.7
	56 4-Bromophenyl-phenylether	248	13.412	13.416	(0.952)	100701	15.3714	307.4
	57 Hexachlorobenzene	284	13.615	13.614	(0.967)	107729	15.5693	311.4
	58 Pentachlorophenol	266	13.920	13.924	(0.988)	57520	13.9930	279.9 (M)
*	59 Phenanthrene-d10	188	14.085	14.084	(1.000)	530520	20.0000	
	60 Phenanthrene	178	14.123	14.122	(1.003)	545085	15.3957	307.9
	61 Anthracene	178	14.192	14.196	(1.008)	533942	14.5956	291.9
	62 Carbazole	167	14.491	14.496	(1.029)	474634	15.0776	301.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.245	15.249	(1.082)	658928	16.9728	339.5
64 Fluoranthene	202	16.040	16.045	(1.139)	513937	15.2996	306.0
65 Pyrene	202	16.388	16.392	(0.892)	532968	16.9647	339.3
$ 66 Terphenyl-d14	244	16.735	16.734	(0.911)	359475	18.0688	361.4
67 Butylbenzylphthalate	149	17.638	17.642	(0.960)	267763	18.1272	362.5
68 Benzo(a)anthracene	228	18.343	18.342	(0.999)	458210	16.2009	324.0
* 69 Chrysene-d12	240	18.364	18.369	(1.000)	378626	20.0000	
70 3,3'-Dichlorobenzidine	252	18.380	18.379	(1.001)	378515	34.7753	695.5
71 Chrysene	228	18.407	18.406	(1.002)	444859	15.5486	311.0
72 bis(2-Ethylhexyl)phthalate	149	18.653	18.657	(0.953)	378024	17.6571	353.1
* 134 Di-n-octylphthalate-d4	153	19.582	19.587	(1.000)	625062	20.0000	
73 Di-n-octylphthalate	149	19.593	19.592	(1.001)	590001	15.8888	317.8
74 Benzo(b)fluoranthene	252	19.983	19.987	(0.975)	480747	16.3440	326.9
75 Benzo(k)fluoranthene	252	20.015	20.019	(0.976)	482585	17.0786	341.6
76 Benzo(a)pyrene	252	20.421	20.425	(0.996)	436906	14.8398	296.8
* 77 Perylene-d12	264	20.501	20.505	(1.000)	453661	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.853	21.852	(1.066)	512430	14.7217	294.4
79 Dibenzo(a,h)anthracene	278	21.879	21.884	(1.067)	438576	15.2129	304.3
80 Benzo(g,h,i)perylene	276	22.173	22.178	(1.082)	449057	14.0829	281.7
90 N-Nitrosodimethylamine	74	2.439	2.422	(0.354)	169779	12.5662	251.3
91 Aniline	93	6.457	6.456	(0.938)	896898	27.9258	558.5
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	2.429	2.401	(0.353)	231718	9.86922	197.4
105 1-methylnaphthalene	141	10.212	10.217	(1.148)	337183	14.9048	298.1
111 Azobenzene (1,2-DP-Hydrazine)	77	12.889	12.893	(1.098)	551731	15.8527	317.1

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56sbd.d
Lab Smp Id: KZ56LCSDS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: KZ56LCSDS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	214734	-1.04
27 Naphthalene-d8	799420	399710	1598840	780731	-2.34
42 Acenaphthene-d10	390056	195028	780112	362202	-7.14
59 Phenanthrene-d10	573879	286940	1147758	530520	-7.56
69 Chrysene-d12	366829	183414	733658	378626	3.22
134 Di-n-octylphthala	621709	310854	1243418	625062	0.54
77 Perylene-d12	428868	214434	857736	453661	5.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.88	0.02
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.05
42 Acenaphthene-d10	11.73	11.23	12.23	11.73	0.01
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.01
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.02
134 Di-n-octylphthala	19.59	19.09	20.09	19.58	-0.02
77 Perylene-d12	20.51	20.01	21.01	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: Tetra Tech, Inc.
Sample Matrix: SOLID
Lab Smp Id: KZ56LCSDS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Client SDG: KZ56
Fraction: SV
Client Smp ID: KZ56LCSDS1
Operator: LJR/VTS
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	300.3	60.05	45-89
4 Bis(2-Chloroethyl)	500.0	278.7	55.74	42-82
6 2-Chlorophenol	500.0	281.3	56.26	46-80
7 1,3-Dichlorobenzen	500.0	264.6	52.93	45-76
9 1,4-Dichlorobenzen	500.0	264.4	52.87	45-76
11 Benzyl alcohol	1000	487.3	48.73	36-79
12 1,2-Dichlorobenzen	500.0	259.1	51.81	44-78
13 2-Methylphenol	500.0	285.8	57.16	47-82
14 2,2'-oxybis(1-Chlo	500.0	297.9	59.57	36-96
15 4-Methylphenol	1000	585.5	58.55	47-86
16 N-Nitroso-di-n-pro	500.0	297.3	59.46	42-84
17 Hexachloroethane	500.0	248.9	49.79	40-77
19 Nitrobenzene	500.0	299.4	59.87	35-94
20 Isophorone	500.0	311.9	62.38	50-86
21 2-Nitrophenol	500.0	317.3	63.46	46-84
22 2,4-Dimethylphenol	500.0	264.6	52.91	30-76
23 Bis(2-Chloroethoxy	500.0	306.1	OK 61.22	48-81
24 Benzoic acid	1500	1002	66.80	39-103
25 2,4-Dichlorophenol	500.0	282.2	56.44	50-85
26 1,2,4-Trichloroben	500.0	272.9	54.58	45-81
28 Naphthalene	500.0	280.5	56.10	46-80
29 4-Chloroaniline	1200	645.1	53.76	15-79
30 Hexachlorobutadien	500.0	290.2	58.04	44-79
31 4-Chloro-3-methylp	500.0	304.8	60.95	50-89
32 2-Methylnaphthalen	500.0	275.1	55.02	49-81
33 Hexachlorocyclopen	1500	812.6	54.17	17-98
34 2,4,6-Trichlorophe	500.0	307.5	61.49	48-89
35 2,4,5-Trichlorophe	500.0	299.3	59.85	47-91
37 2-Chloronaphthalen	500.0	303.2	60.65	50-83
38 2-Nitroaniline	500.0	356.8	71.36	45-96
39 Dimethylphthalate	500.0	327.2	65.44	53-87
40 Acenaphthylene	500.0	303.3	60.65	51-84
41 2,6-Dinitrotoluene	500.0	383.2	76.65	49-95

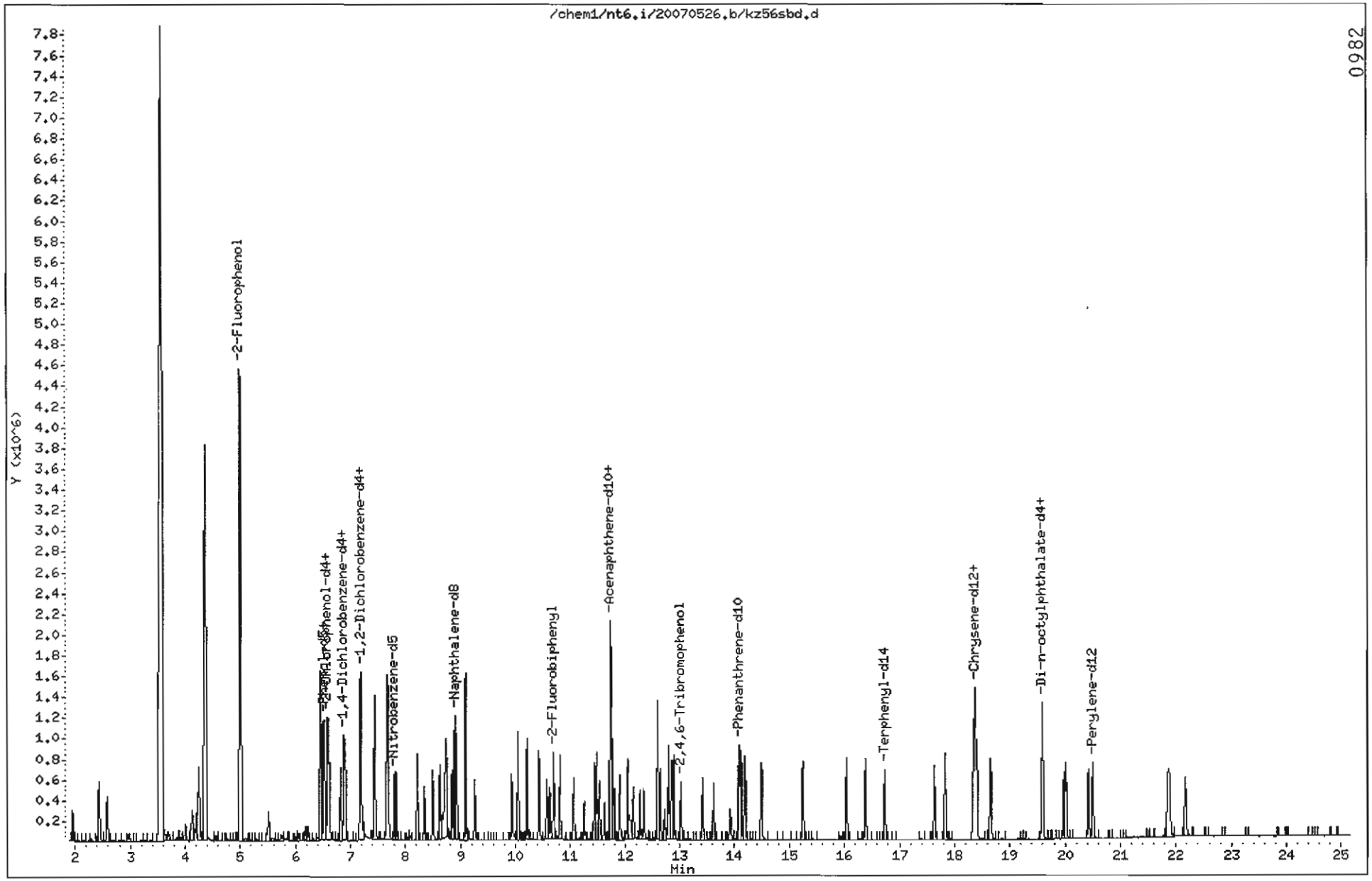
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	815.9	63.75	36-92
44 Acenaphthene	500.0	304.1	60.81	51-83
45 2,4-Dinitrophenol	1500	2008	133.87	10-191
46 Dibenzofuran	500.0	306.0	61.21	50-86
47 4-Nitrophenol	500.0	213.3	42.65 *	44-98
48 2,4-Dinitrotoluene	500.0	368.1	73.61	50-98
49 Fluorene	500.0	305.0	OK 60.99	52-86
50 Diethylphthalate	500.0	329.7	65.94	55-89
51 4-Chlorophenyl-phe	500.0	311.1	62.22	51-85
52 4-Nitroaniline	500.0	299.7	59.93	30-87
53 4,6-Dinitro-2-meth	1500	1307	87.13	10-136
54 N-Nitrosodiphenyla	500.0	313.0	62.60	28-158
56 4-Bromophenyl-phen	500.0	307.4	61.49	50-90
57 Hexachlorobenzene	500.0	311.4	62.28	49-91
58 Pentachlorophenol	500.0	279.9	55.97	40-100
60 Phenanthrene	500.0	307.9	61.58	51-91
61 Anthracene	500.0	291.9	58.38	51-86
62 Carbazole	500.0	301.6	60.31	51-89
63 Di-n-butylphthalat	500.0	339.5	67.89	58-95
64 Fluoranthene	500.0	306.0	61.20	54-94
65 Pyrene	500.0	339.3	67.86	46-100
67 Butylbenzylphthala	500.0	362.5	72.51	51-99
68 Benzo(a)anthracene	500.0	324.0	64.80	52-90
70 3,3'-Dichlorobenzi	1280	695.5	54.34	10-86
71 Chrysene	500.0	311.0	62.19	51-93
72 bis(2-Ethylhexyl)p	500.0	353.1	70.63	36-111
73 Di-n-octylphthalat	500.0	317.8	63.56	29-108
74 Benzo(b)fluoranthe	500.0	326.9	65.38	54-102
75 Benzo(k)fluoranthe	500.0	341.6	68.31	45-107
76 Benzo(a)pyrene	500.0	296.8	59.36	52-95
78 Indeno(1,2,3-cd)py	500.0	294.4	58.89	34-105
79 Dibenzo(a,h)anthra	500.0	304.3	60.85	36-112
80 Benzo(g,h,i)peryle	500.0	281.7	56.33	25-116

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	342.5	45.67	42-87
$ 2 Phenol-d5	750.0	452.6	60.35	47-87
$ 5 2-Chlorophenol-d4	750.0	436.4	58.19	47-86
$ 10 1,2-Dichlorobenzen	500.0	281.1	56.21	43-82
$ 18 Nitrobenzene-d5	500.0	323.2	64.63	46-87
$ 36 2-Fluorobiphenyl	500.0	318.0	63.59	46-88
$ 55 2,4,6-Tribromophen	750.0	494.7	65.96	40-97

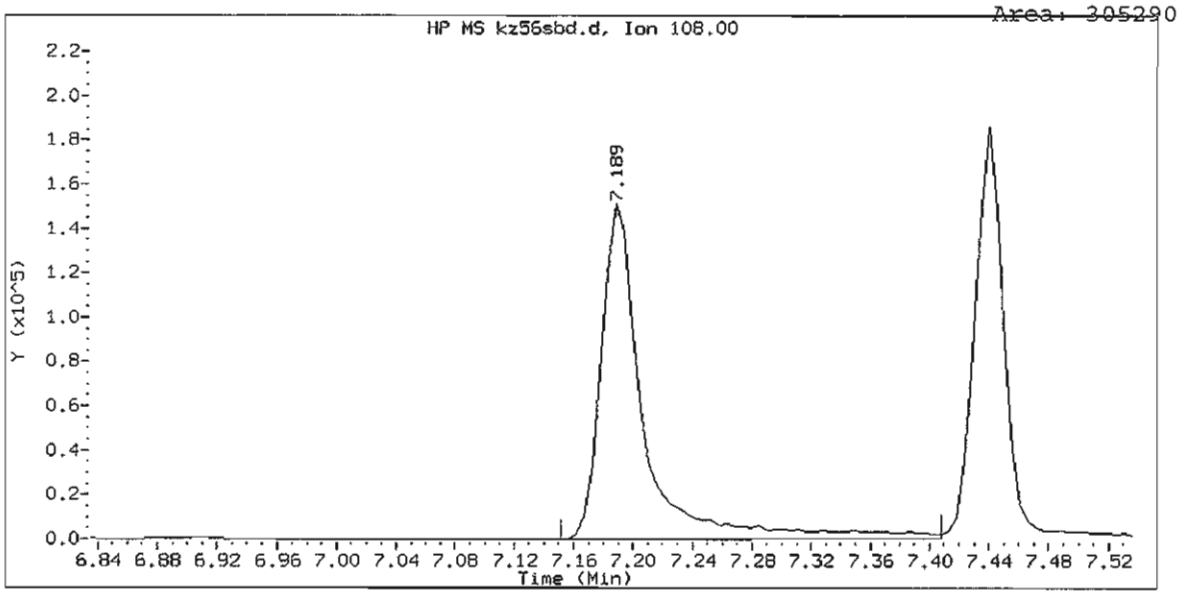
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	361.4	72.28	37-114

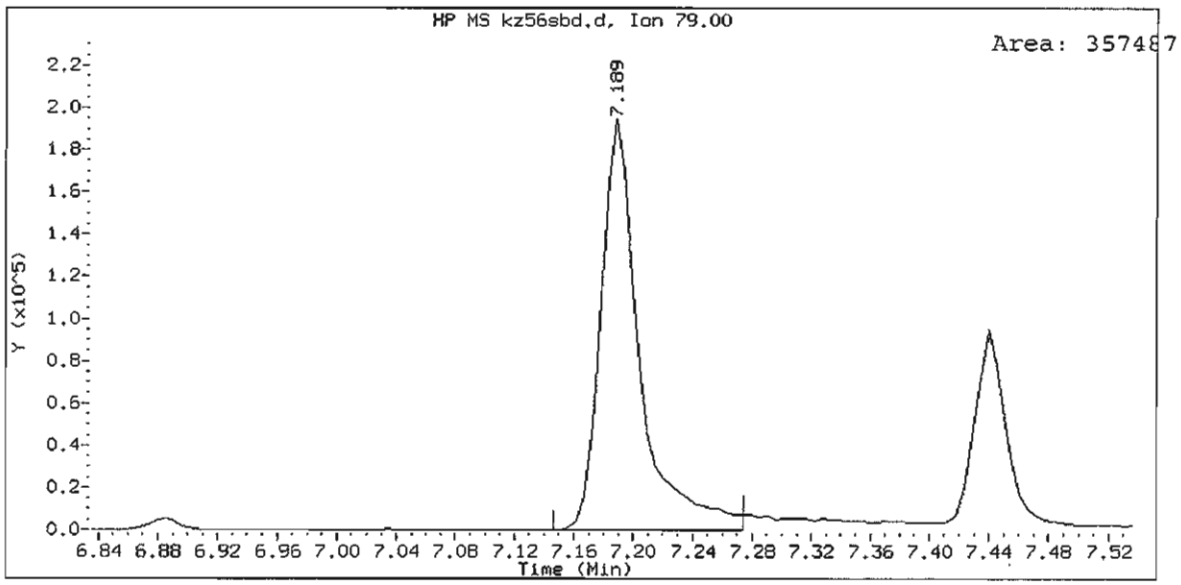
Data File: /chem1/nt6.i/20070526.b/kz56sbd.d
Date : 26-MAY-2007 14:02
Client ID: KZ56LCSDS1
Sample Info: KZ56LCSDS1
Volume Injected (uL): 1.0
Column phase: ZB-5

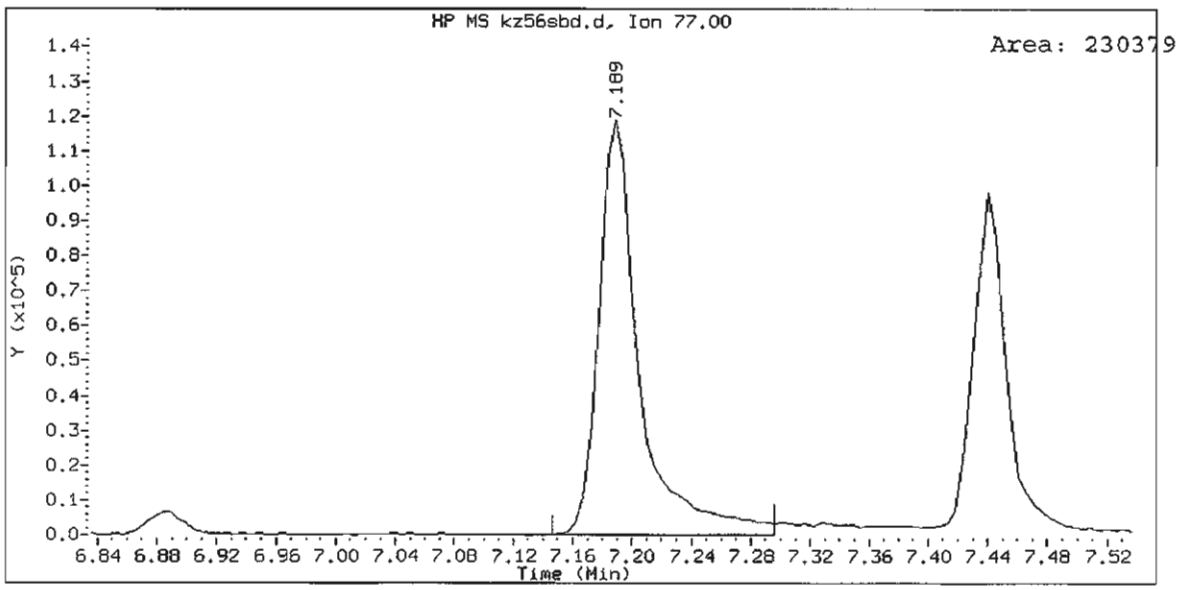
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



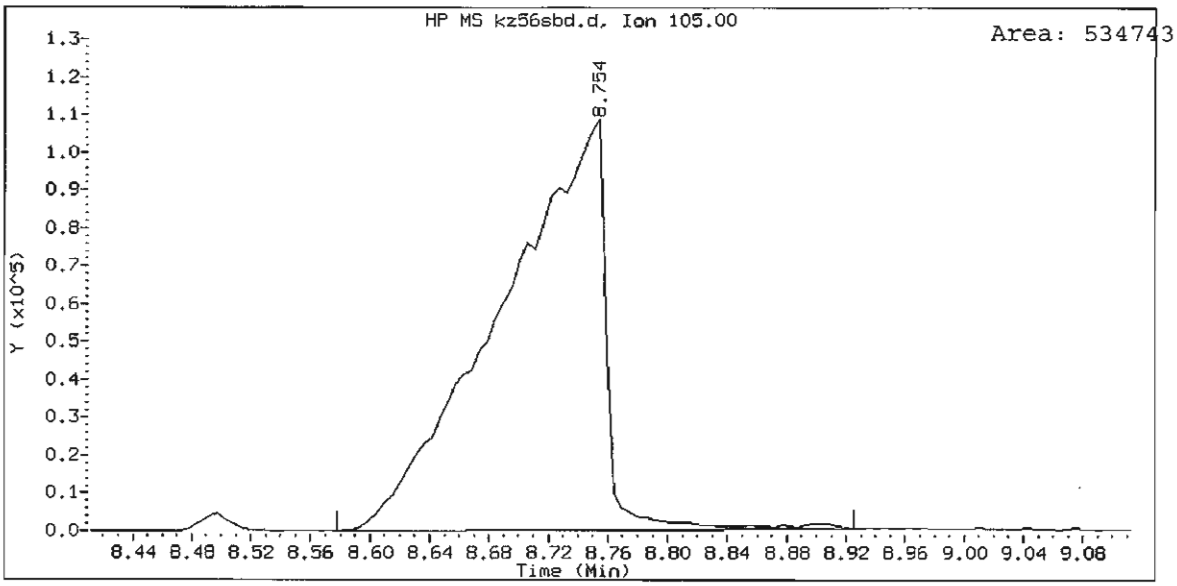
KZ56LCSDS1, /chem1/nt6.i/20070526.b/kz56sbd.d
Benzyl alcohol Amount: 24.36

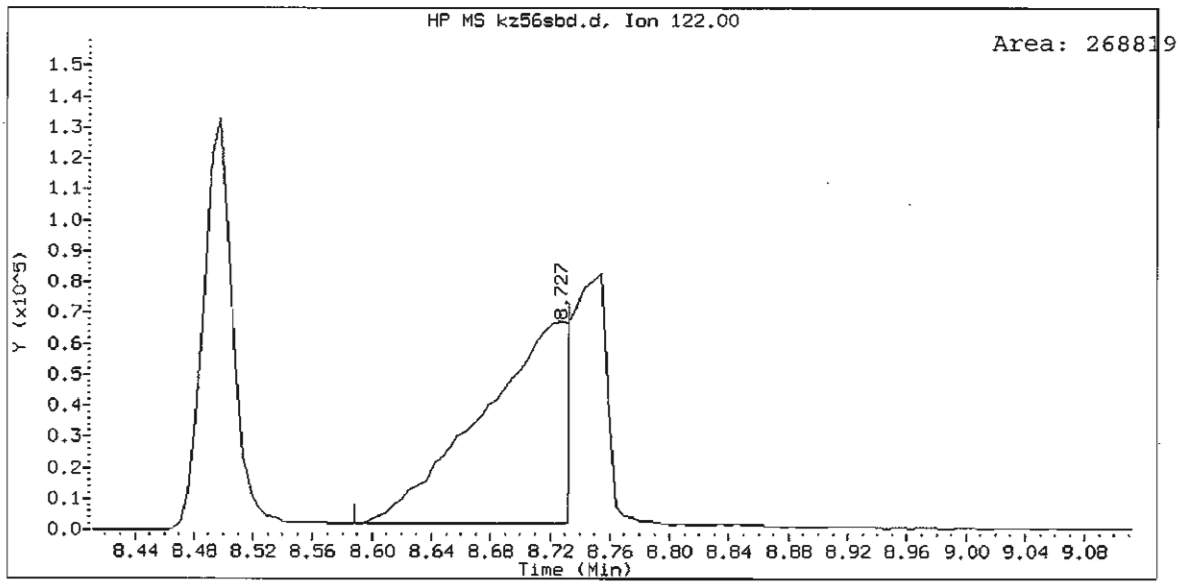


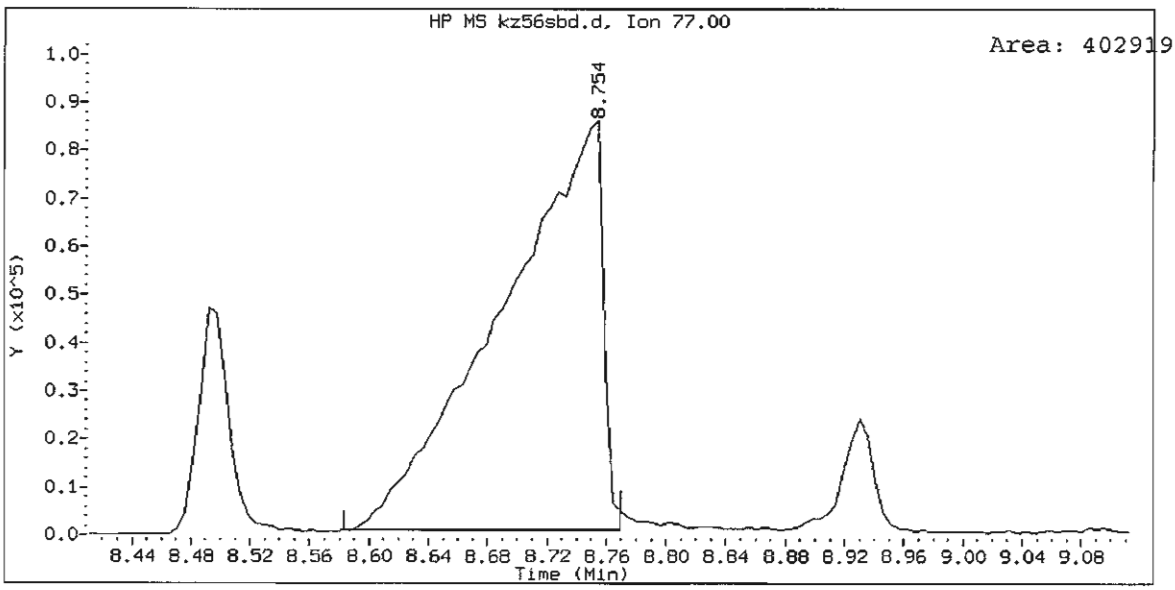




KZ56LCSDS1, /chem1/nt6.i/20070526.b/kz56sbd.d
Benzoic acid Amount: 50.10







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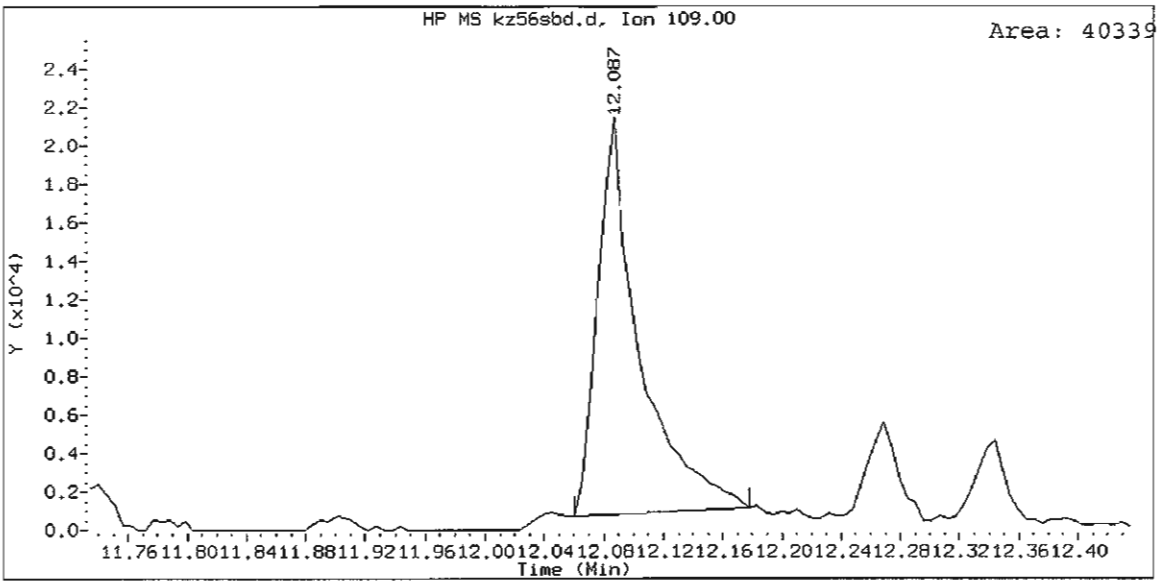
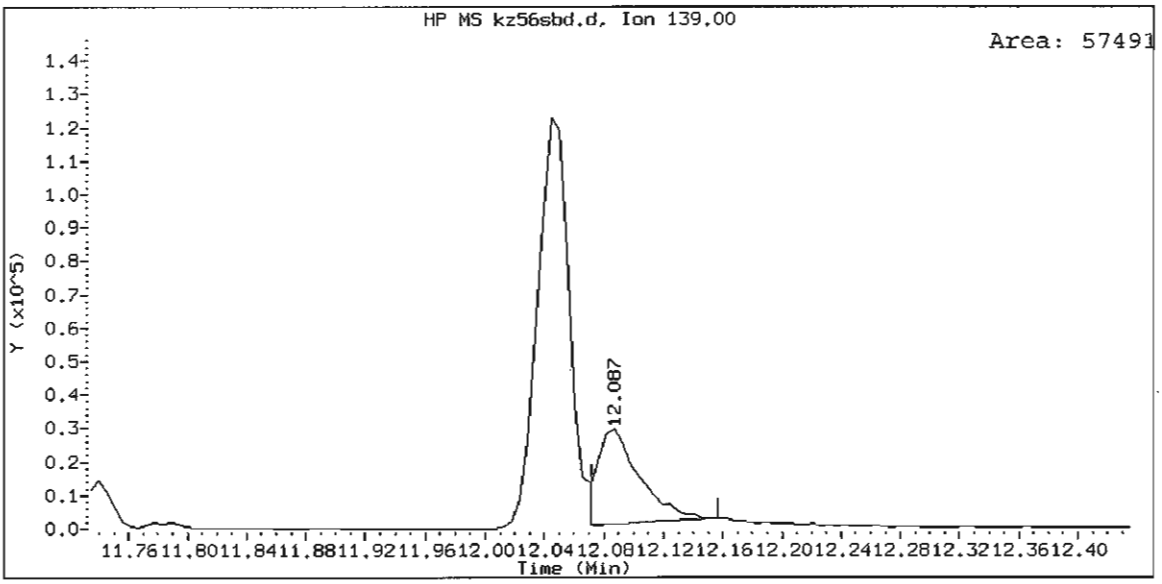
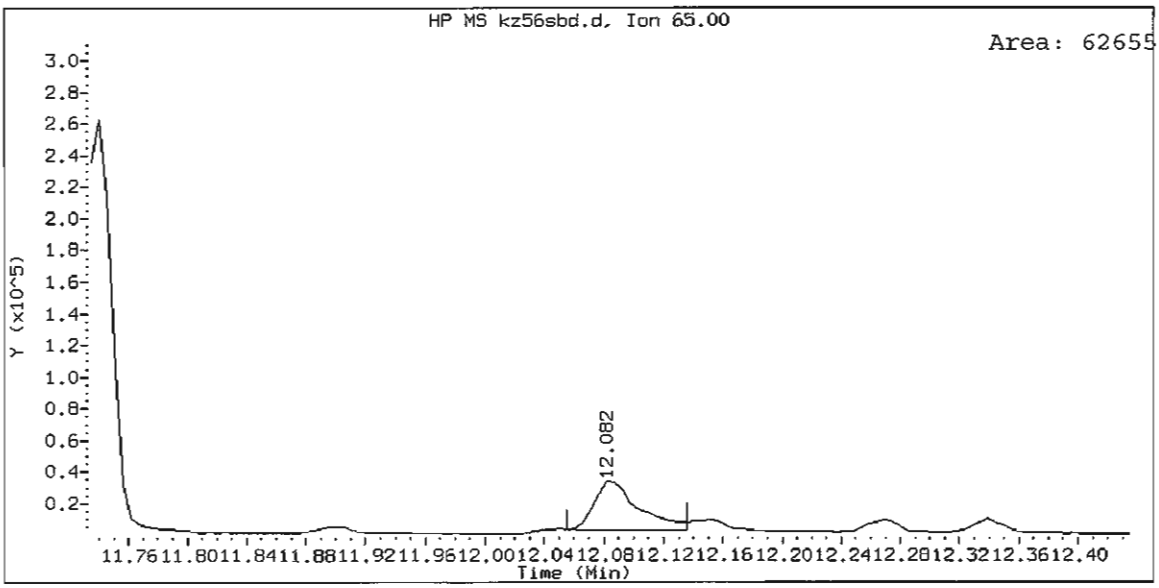
4-Nitrophenol Amount: 10.66







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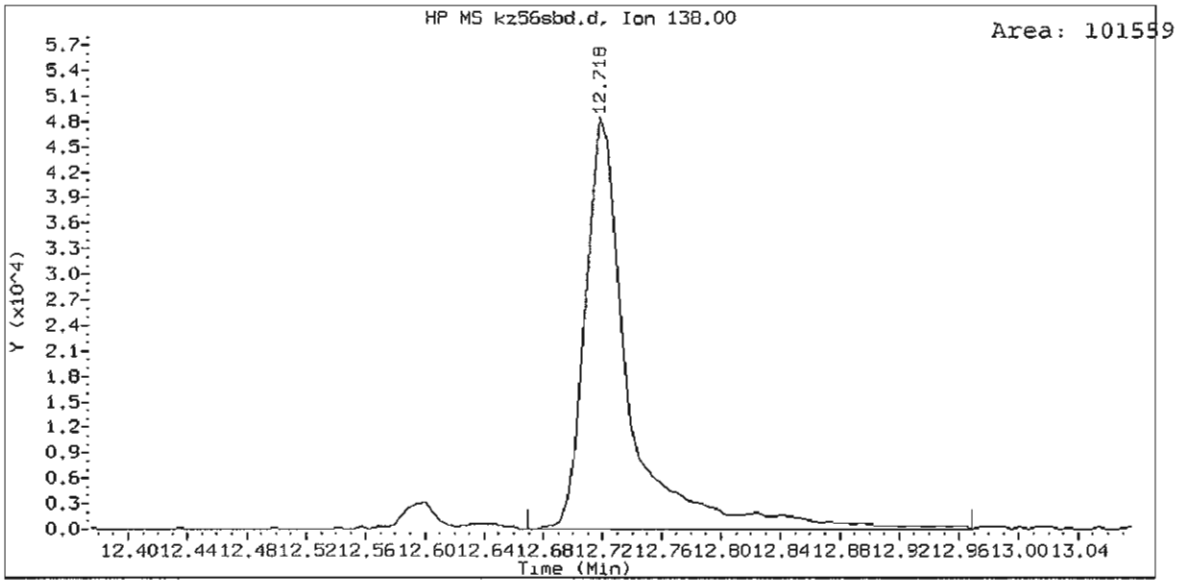
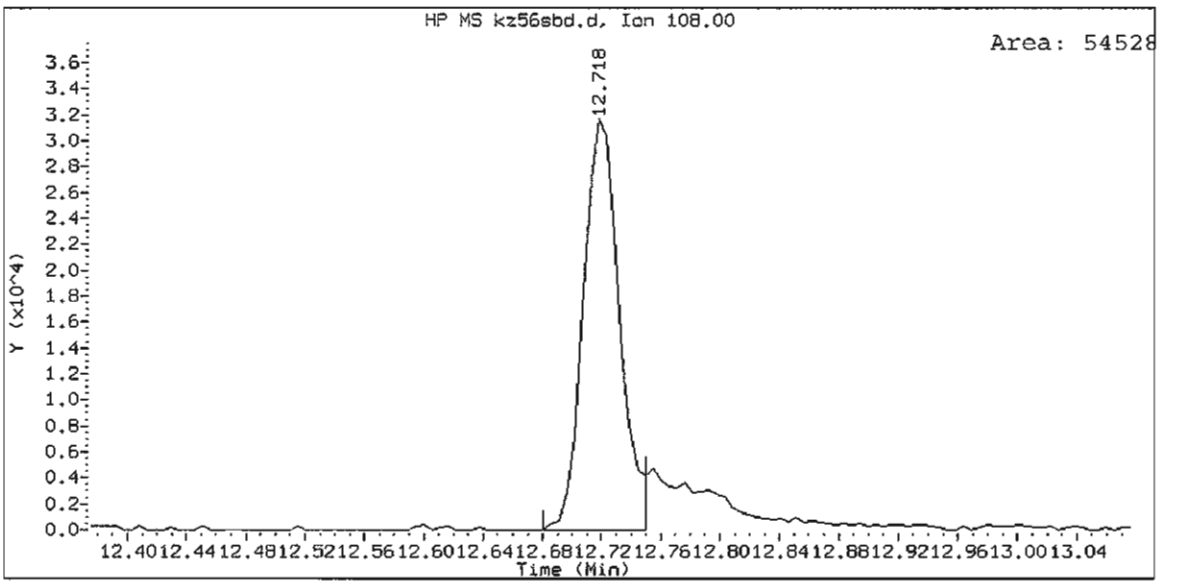
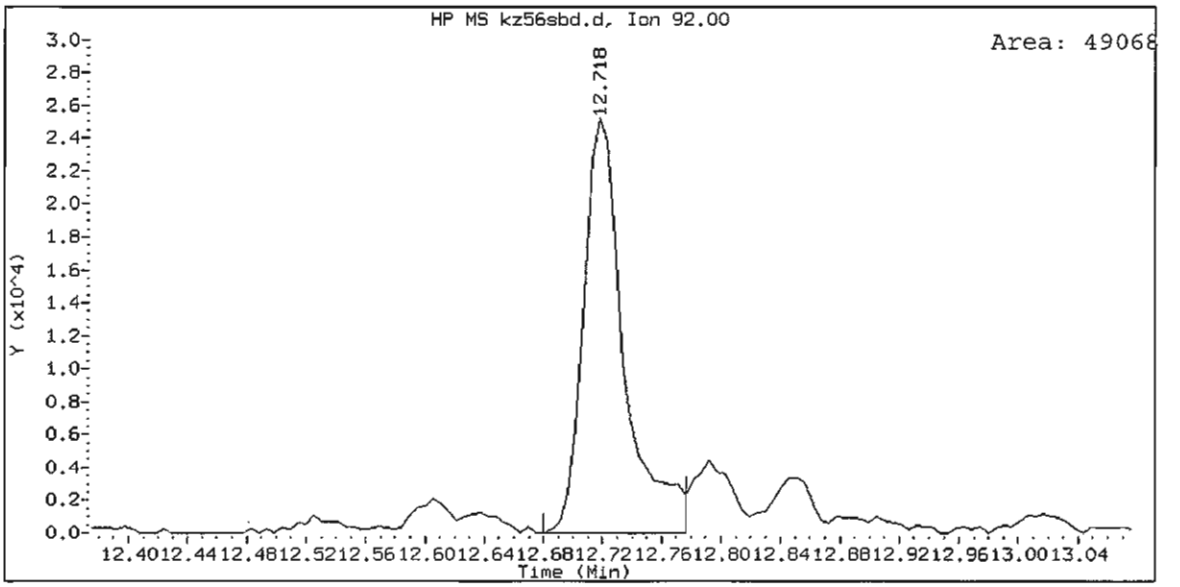
4-Nitroaniline Amount: 14.98







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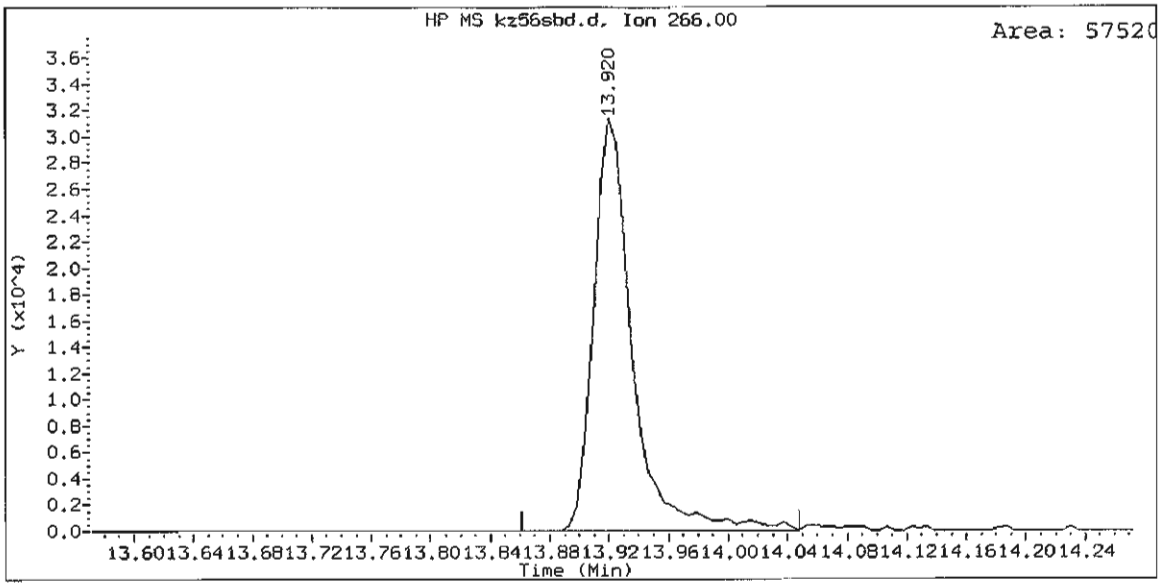
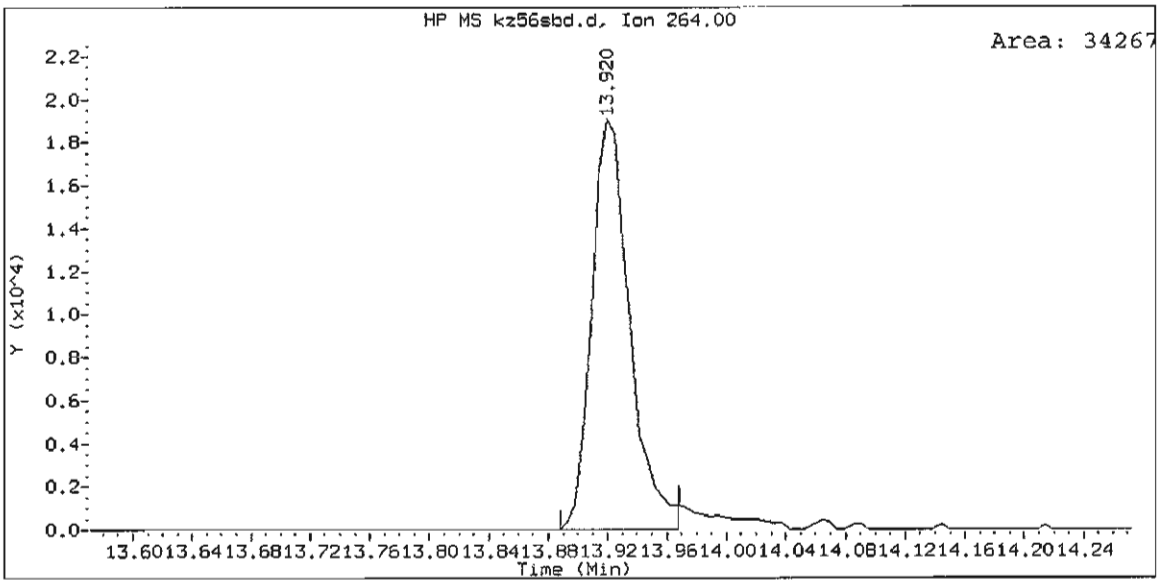
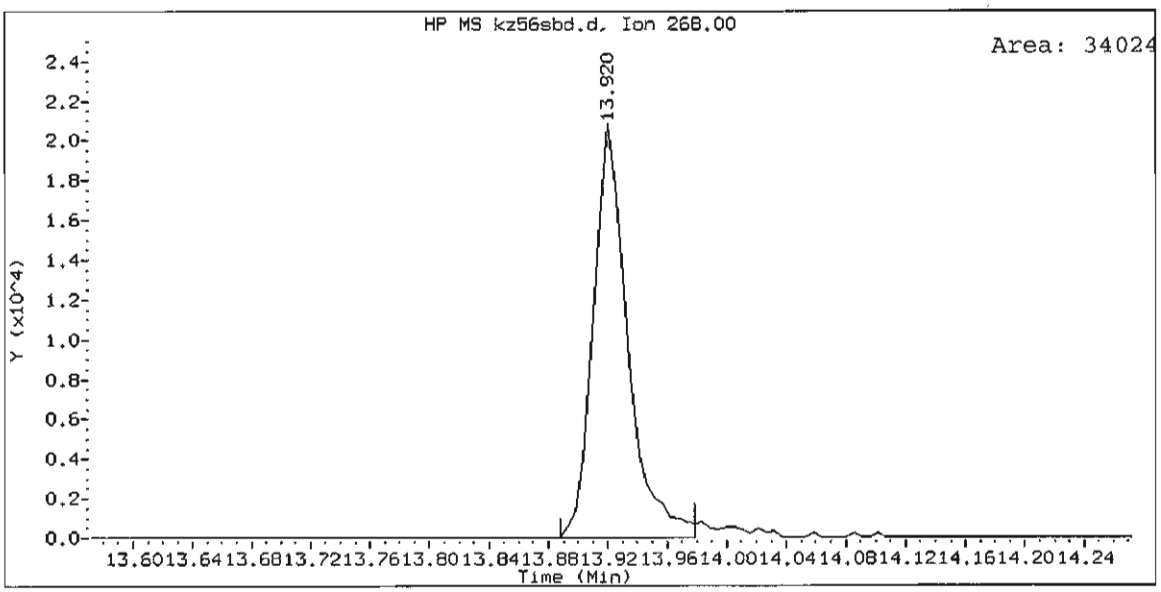
Pentachlorophenol Amount: 13.99







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070606.b/lb02sb.d
Lab Smp Id: LB02LCSS1 Client Smp ID: LB02LCSS1
Inj Date : 06-JUN-2007 10:24
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LB02LCSS1
Misc Info : 07-10591
Comment : 1ul Injection
Method : /chem1/nt6.i/20070606.b/SW846.m
Meth Date : 06-Jun-2007 12:21 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 6/6/07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	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)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.266	4.228	(0.690)	433702	21.6211	432.4
$ 2 Phenol-d5	99	5.879	5.878	(0.952)	586524	24.9202	498.4
3 Phenol	94	5.895	5.894	(0.954)	425861	16.4821	329.6
$ 5 2-Chlorophenol-d4	132	5.900	5.894	(0.955)	395389	24.2958	485.9
4 Bis(2-Chloroethyl)ether	93	5.906	5.905	(0.956)	326419	15.7359	314.7
6 2-Chlorophenol	128	5.922	5.921	(0.958)	297506	16.2892	325.8
7 1,3-Dichlorobenzene	146	6.114	6.113	(0.990)	282639	15.3520	307.0
* 8 1,4-Dichlorobenzene-d4	152	6.178	6.177	(1.000)	220632	20.0000	
9 1,4-Dichlorobenzene	146	6.205	6.204	(1.004)	287227	15.4626	309.3
$ 10 1,2-Dichlorobenzene-d4	152	6.472	6.471	(1.048)	161479	16.2267	324.5
12 1,2-Dichlorobenzene	146	6.493	6.493	(1.051)	271883	15.5252	310.5
11 Benzyl alcohol	108	6.520	6.519	(1.055)	396564	30.8032	616.1
14 2,2'-oxybis(1-Chloropropane)	45	6.777	6.776	(1.097)	514600	16.5353	330.7
13 2-Methylphenol	108	6.803	6.808	(1.101)	305205	17.5612	351.2
17 Hexachloroethane	117	6.969	6.968	(1.128)	124277	15.3434	306.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	6.990	6.989	(1.131)	234021	17.5106	350.2
	15 4-Methylphenol	108	7.054	7.043	(1.142)	626337	36.1625	723.3
$	18 Nitrobenzene-d5	82	7.118	7.118	(0.868)	339776	18.3413	366.8
	19 Nitrobenzene	77	7.145	7.144	(0.872)	341580	17.6766	353.5
	20 Isophorone	82	7.535	7.540	(0.919)	634027	17.7380	354.8
	21 2-Nitrophenol	139	7.658	7.657	(0.934)	156837	19.8957	397.9
	22 2,4-Dimethylphenol	107	7.856	7.855	(0.958)	270813	17.0309	340.6
	23 Bis(2-Chloroethoxy)methane	93	7.973	7.972	(0.973)	392543	17.6276	352.6
	24 Benzoic acid	105	8.187	8.181	(0.999)	710986	66.8041	1336
	25 2,4-Dichlorophenol	162	8.064	8.063	(0.984)	213304	18.6671	373.3
	26 1,2,4-Trichlorobenzene	180	8.155	8.154	(0.995)	221629	16.6227	332.5
*	27 Naphthalene-d8	136	8.198	8.197	(1.000)	778536	20.0000	
	28 Naphthalene	128	8.230	8.229	(1.004)	765015	16.5895	331.8
	29 4-Chloroaniline	127	8.422	8.416	(1.027)	788562	38.6785	773.6
	30 Hexachlorobutadiene	225	8.572	8.571	(1.046)	115261	17.3220	346.4
	31 4-Chloro-3-methylphenol	107	9.287	9.287	(1.133)	255113	18.5038	370.1
	32 2-Methylnaphthalene	141	9.341	9.340	(1.139)	389860	16.6314	332.6
	33 Hexachlorocyclopentadiene	237	9.725	9.730	(0.884)	299923	54.4218	1088
	34 2,4,6-Trichlorophenol	196	9.880	9.885	(0.898)	151539	18.8252	376.5
	35 2,4,5-Trichlorophenol	196	9.939	9.944	(0.903)	157935	18.4087	368.2
$	36 2-Fluorobiphenyl	172	10.003	10.002	(0.909)	452493	16.8973	337.9
	37 2-Chloronaphthalene	162	10.099	10.099	(0.917)	433174	16.8570	337.1
	38 2-Nitroaniline	65	10.367	10.366	(0.942)	194473	20.1642	403.3
	39 Dimethylphthalate	163	10.773	10.766	(0.979)	452078	17.7256	354.5
	40 Acenaphthylene	152	10.751	10.750	(0.977)	697485	16.6713	333.4
	41 2,6-Dinitrotoluene	165	10.842	10.841	(0.985)	114244	21.4541	429.1
*	42 Acenaphthene-d10	164	11.008	11.007	(1.000)	396782	20.0000	
	43 3-Nitroaniline	138	11.040	11.039	(1.003)	315384	43.2332	864.7
	44 Acenaphthene	153	11.056	11.055	(1.004)	412820	16.4874	329.7
	45 2,4-Dinitrophenol	184	11.205	11.204	(1.018)	238469	188.624	3772 (R)
	46 Dibenzofuran	168	11.317	11.317	(1.028)	590541	17.4964	349.9
	47 4-Nitrophenol	109	11.430	11.434	(1.038)	76988	18.5764	371.5
	48 2,4-Dinitrotoluene	165	11.451	11.450	(1.040)	142637	21.0495	421.0
	50 Diethylphthalate	149	11.916	11.915	(1.083)	463571	18.2385	364.8
	49 Fluorene	166	11.862	11.861	(1.078)	468664	17.6207	352.4
	51 4-Chlorophenyl-phenylether	204	11.921	11.926	(1.083)	208766	16.6568	333.1
	52 4-Nitroaniline	138	12.012	12.016	(1.091)	112462	15.1455	302.9 (M)
	53 4,6-Dinitro-2-methylphenol	198	12.092	12.091	(0.908)	272377	101.925	2039
	54 N-Nitrosodiphenylamine	169	12.140	12.139	(0.911)	324795	18.1324	362.6
$	55 2,4,6-Tribromophenol	330	12.284	12.284	(1.116)	114838	28.4283	568.6
	56 4-Bromophenyl-phenylether	248	12.680	12.684	(0.952)	125415	18.1460	362.9
	57 Hexachlorobenzene	284	12.861	12.860	(0.966)	128873	17.6543	353.1
	58 Pentachlorophenol	266	13.182	13.186	(0.990)	79581	18.3507	367.0
*	59 Phenanthrene-d10	188	13.321	13.325	(1.000)	559692	20.0000	
	60 Phenanthrene	178	13.358	13.357	(1.003)	663803	17.7716	355.4
	61 Anthracene	178	13.428	13.427	(1.008)	663438	17.1901	343.8
	62 Carbazole	167	13.743	13.742	(1.032)	579930	17.4624	349.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	14.528	14.533	(1.091)	787905	19.2372	384.7
64 Fluoranthene	202	15.249	15.254	(1.145)	625019	17.6366	352.7
65 Pyrene	202	15.586	15.590	(0.888)	643484	18.5825	371.6
$ 66 Terphenyl-d14	244	15.965	15.970	(0.910)	396897	18.0992	362.0
67 Butylbenzylphthalate	149	16.889	16.888	(0.963)	321118	19.7227	394.5
68 Benzo(a)anthracene	228	17.525	17.529	(0.999)	556958	17.8657	357.3
* 69 Chrysene-d12	240	17.546	17.551	(1.000)	417339	20.0000	
70 3,3'-Dichlorobenzidine	252	17.589	17.588	(1.002)	340208	28.3565	567.1
71 Chrysene	228	17.584	17.588	(1.002)	517323	16.4041	328.1
72 bis(2-Ethylhexyl)phthalate	149	17.915	17.919	(0.951)	443499	19.0409	380.8
* 134 Di-n-octylphthalate-d4	153	18.839	18.838	(1.000)	680031	20.0000	
73 Di-n-octylphthalate	149	18.850	18.849	(1.001)	761788	18.8568	377.1
74 Benzo(b)fluoranthene	252	19.149	19.154	(0.974)	616801	18.9097	378.2
75 Benzo(k)fluoranthene	252	19.181	19.186	(0.976)	607604	19.3908	387.8
76 Benzo(a)pyrene	252	19.576	19.581	(0.996)	572565	17.5373	350.7
* 77 Perylene-d12	264	19.656	19.656	(1.000)	503076	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	20.992	20.997	(1.068)	742931	19.2473	384.9
79 Dibenzo(a,h)anthracene	278	21.029	21.034	(1.070)	610138	19.0851	381.7
80 Benzo(g,h,i)perylene	276	21.280	21.285	(1.083)	666841	18.8587	377.2
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	5.762	5.755	(0.933)	1080026	32.7287	654.6
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	9.506	9.506	(1.160)	390629	17.3160	346.3
111 Azobenzene (1,2-DP-Hydrazine)	77	12.167	12.166	(1.105)	716763	18.7997	376.0

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lb02sb.d
Lab Smp Id: LB02LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-10591

Calibration Date: 06-JUN-2007
Calibration Time: 08:14
Client Smp ID: LB02LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	210566	105283	421132	220632	4.78
27 Naphthalene-d8	738477	369238	1476954	778536	5.42
42 Acenaphthene-d10	362869	181434	725738	396782	9.35
59 Phenanthrene-d10	499867	249934	999734	559692	11.97
69 Chrysene-d12	387597	193798	775194	417339	7.67
134 Di-n-octylphthala	653887	326944	1307774	680031	4.00
77 Perylene-d12	508340	254170	1016680	503076	-1.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.18	5.68	6.68	6.18	0.01
27 Naphthalene-d8	8.20	7.70	8.70	8.20	0.01
42 Acenaphthene-d10	11.01	10.51	11.51	11.01	0.01
59 Phenanthrene-d10	13.33	12.83	13.83	13.32	-0.03
69 Chrysene-d12	17.55	17.05	18.05	17.55	-0.03
134 Di-n-octylphthala	18.84	18.34	19.34	18.84	0.00
77 Perylene-d12	19.66	19.16	20.16	19.66	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: SPU
Sample Matrix: SOLID
Lab Smp Id: LB02LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20070606.b/SW846.m
Misc Info: 07-10591

Client SDG: LB02
Fraction: SV
Client Smp ID: LB02LCSS1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	329.6	65.93	45-89
4 Bis(2-Chloroethyl)	500.0	314.7	62.94	42-82
6 2-Chlorophenol	500.0	325.8	65.16	46-80
7 1,3-Dichlorobenzen	500.0	307.0	61.41	45-76
9 1,4-Dichlorobenzen	500.0	309.3	61.85	45-76
11 Benzyl alcohol	1000	616.1	61.61	36-79
12 1,2-Dichlorobenzen	500.0	310.5	62.10	44-78
13 2-Methylphenol	500.0	351.2	70.24	47-82
14 2,2'-oxybis(1-Chlo	500.0	330.7	66.14	36-96
15 4-Methylphenol	1000	723.3	72.33	47-86
16 N-Nitroso-di-n-pro	500.0	350.2	70.04	42-84
17 Hexachloroethane	500.0	306.9	61.37	40-77
19 Nitrobenzene	500.0	353.5	70.71	35-94
20 Isophorone	500.0	354.8	70.95	50-86
21 2-Nitrophenol	500.0	397.9	79.58	46-84
22 2,4-Dimethylphenol	500.0	340.6	68.12	30-76
23 Bis(2-Chloroethoxy	500.0	352.6	70.51	48-81
24 Benzoic acid	1500	1336	89.07	39-103
25 2,4-Dichlorophenol	500.0	373.3	74.67	50-85
26 1,2,4-Trichloroben	500.0	332.5	66.49	45-81
28 Naphthalene	500.0	331.8	66.36	46-80
29 4-Chloroaniline	1200	773.6	64.46	15-79
30 Hexachlorobutadien	500.0	346.4	69.29	44-79
31 4-Chloro-3-methylp	500.0	370.1	74.02	50-89
32 2-Methylnaphthalen	500.0	332.6	66.53	49-81
33 Hexachlorocyclopen	1500	1088	72.56	17-98
34 2,4,6-Trichlorophe	500.0	376.5	75.30	48-89
35 2,4,5-Trichlorophe	500.0	368.2	73.63	47-91
37 2-Chloronaphthalen	500.0	337.1	67.43	50-83
38 2-Nitroaniline	500.0	403.3	80.66	45-96
39 Dimethylphthalate	500.0	354.5	70.90	53-87
40 Acenaphthylene	500.0	333.4	66.69	51-84
41 2,6-Dinitrotoluene	500.0	429.1	85.82	49-95

OK

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	864.7	67.55	36-92
44 Acenaphthene	500.0	329.7	65.95	51-83
45 2,4-Dinitrophenol	1500	3772	251.50*	10-191
46 Dibenzofuran	500.0	349.9	69.99	50-86
47 4-Nitrophenol	500.0	371.5	74.31	44-98
48 2,4-Dinitrotoluene	500.0	421.0	84.20	50-98
49 Fluorene	500.0	352.4	70.48	52-86
50 Diethylphthalate	500.0	364.8	72.95	55-89
51 4-Chlorophenyl-phe	500.0	333.1	66.63	51-85
52 4-Nitroaniline	500.0	302.9	60.58	30-87
53 4,6-Dinitro-2-meth	1500	2039	135.90	10-136
54 N-Nitrosodiphenyla	500.0	362.6	72.53	28-158
56 4-Bromophenyl-phen	500.0	362.9	72.58	50-90
57 Hexachlorobenzene	500.0	353.1	70.62	49-91
58 Pentachlorophenol	500.0	367.0	73.40	40-100
60 Phenanthrene	500.0	355.4	71.09	51-91
61 Anthracene	500.0	343.8	68.76	51-86
62 Carbazole	500.0	349.2	69.85	51-89
63 Di-n-butylphthalat	500.0	384.7	76.95	58-95
64 Fluoranthene	500.0	352.7	70.55	54-94
65 Pyrene	500.0	371.6	74.33	46-100
67 Butylbenzylphthala	500.0	394.5	78.89	51-99
68 Benzo(a)anthracene	500.0	357.3	71.46	52-90
70 3,3'-Dichlorobenzi	1280	567.1	44.31	10-86
71 Chrysene	500.0	328.1	65.62	51-93
72 bis(2-Ethylhexyl)p	500.0	380.8	76.16	36-111
73 Di-n-octylphthalat	500.0	377.1	75.43	29-108
74 Benzo(b)fluoranthe	500.0	378.2	75.64	54-102
75 Benzo(k)fluoranthe	500.0	387.8	77.56	45-107
76 Benzo(a)pyrene	500.0	350.7	70.15	52-95
78 Indeno(1,2,3-cd)py	500.0	384.9	76.99	34-105
79 Dibenzo(a,h)anthra	500.0	381.7	76.34	36-112
80 Benzo(g,h,i)peryle	500.0	377.2	75.43	25-116

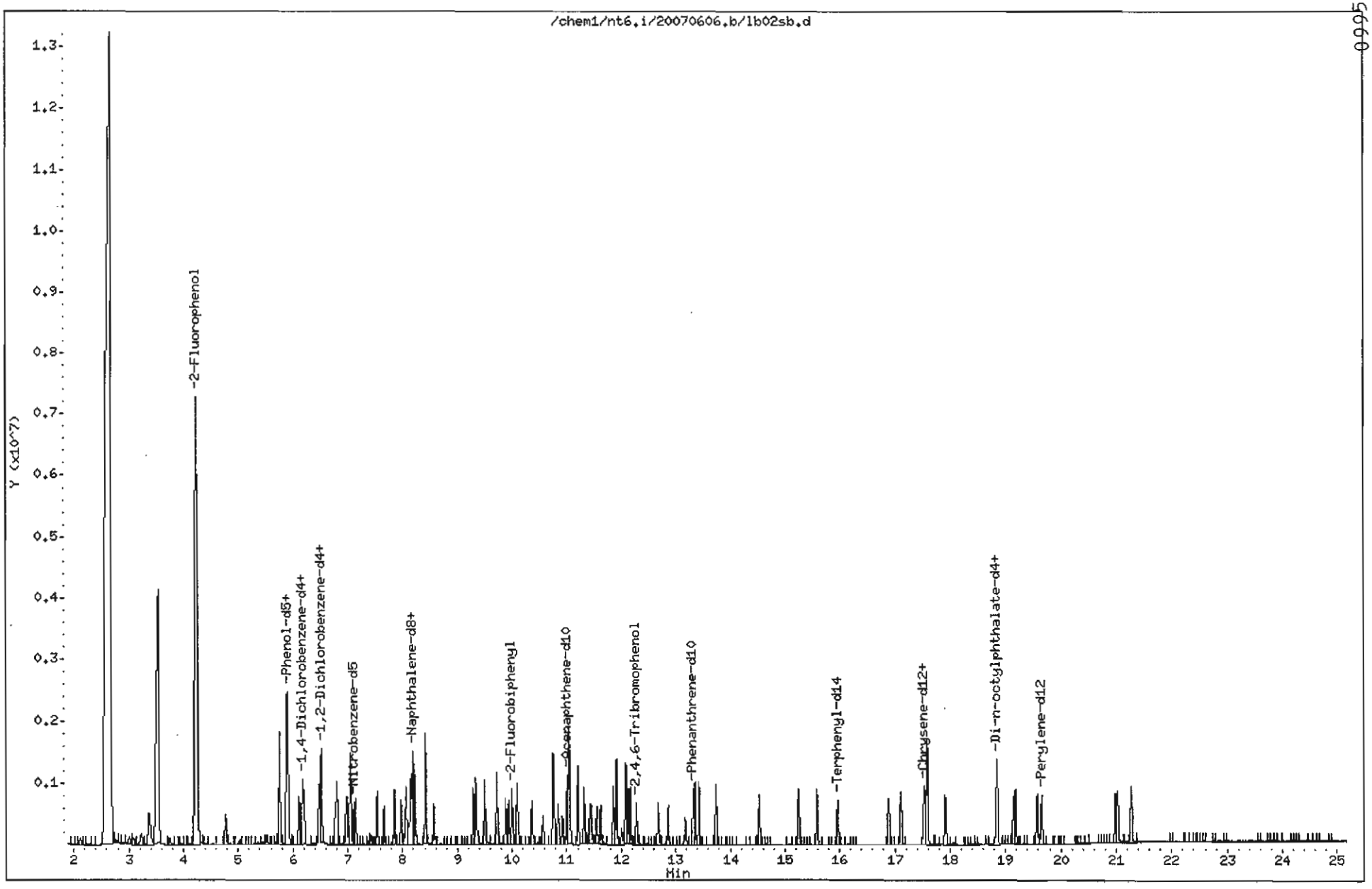
OK

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	432.4	57.66	26-83
$ 2 Phenol-d5	750.0	498.4	66.45	42-82
$ 5 2-Chlorophenol-d4	750.0	485.9	64.79	43-80
$ 10 1,2-Dichlorobenzen	500.0	324.5	64.91	38-79
$ 18 Nitrobenzene-d5	500.0	366.8	73.37	42-79
$ 36 2-Fluorobiphenyl	500.0	337.9	67.59	43-80
$ 55 2,4,6-Tribromophen	750.0	568.6	75.81	41-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	362.0	72.40	39-105

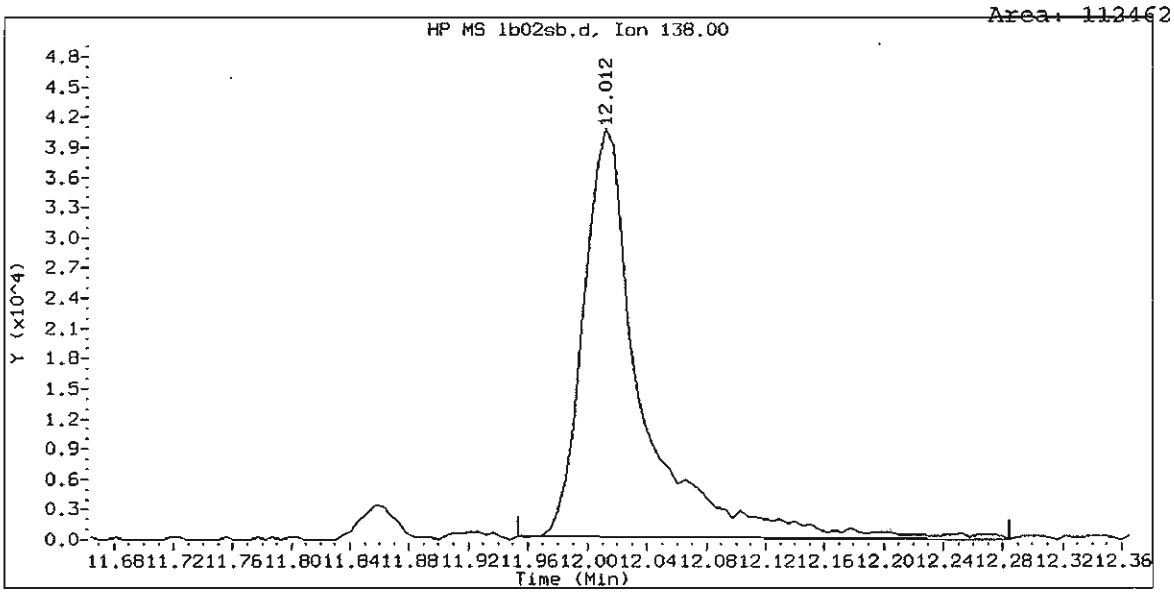
Data File: /chem1/nt6.i/20070606.b/lb02sb.d
Date : 06-JUN-2007 10:24
Client ID: LB02LCSS1
Sample Info: LB02LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

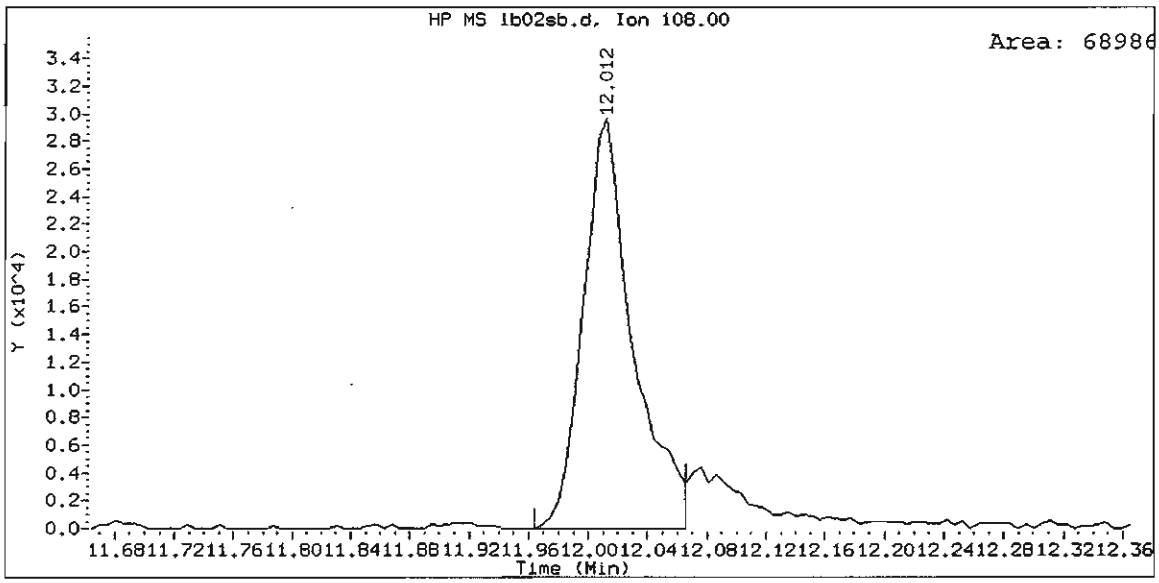
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

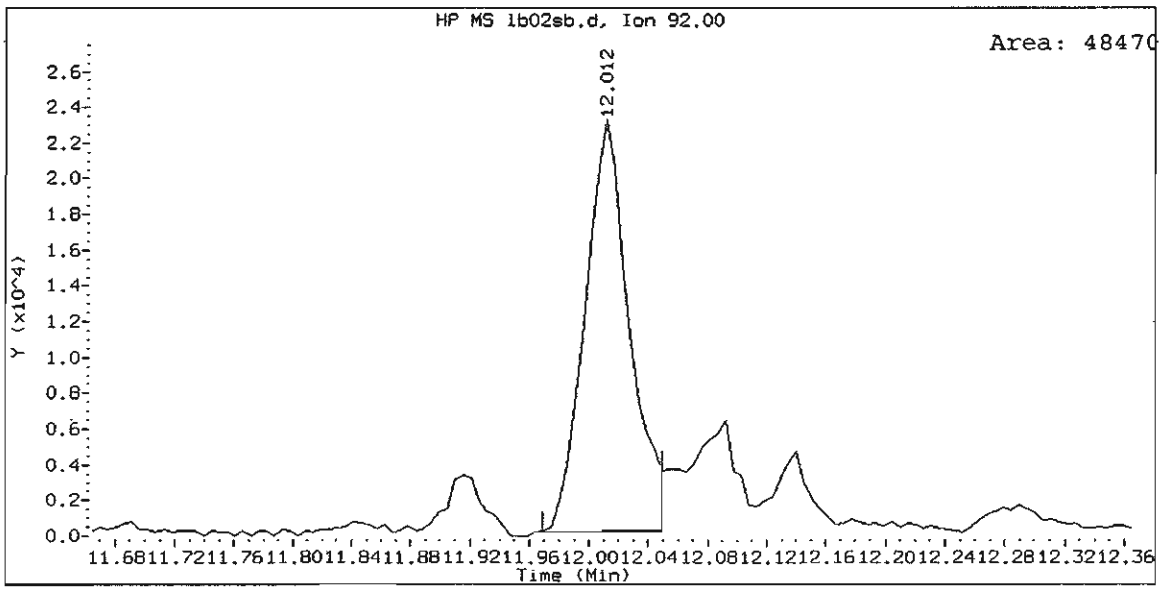


0005

LB02LCSS1, /chem1/nt6.i/20070606.b/lb02sb.d
4-Nitroaniline Amount: 15.15







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
MATRIX SPIKE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 17:43
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	120	**210**
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	---
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	< 120 U
85-01-8	**Phenanthrene**	120	**960**
120-12-7	**Anthracene**	120	**230**
206-44-0	**Fluoranthene**	120	**2,200**
129-00-0	Pyrene	120	---
56-55-3	**Benzo(a)anthracene**	120	**900**
117-81-7	**bis(2-Ethylhexyl)phthalate**	120	**4,700 E**
218-01-9	**Chrysene**	120	**1,300**
205-99-2	**Benzo(b)fluoranthene**	120	**1,400**
207-08-9	**Benzo(k)fluoranthene**	120	**1,400**
50-32-8	**Benzo(a)pyrene**	120	**1,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	120	**550**
53-70-3	**Dibenz(a,h)anthracene**	120	**130**
191-24-2	Benzo(g,h,i)perylene	120	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.8%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	67.7%	d4-1,2-Dichlorobenzene	62.3%
d5-Phenol	66.0%	2-Fluorophenol	53.4%
2,4,6-Tribromophenol	68.7%	d4-2-Chlorophenol	63.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56hms.d
Lab Smp Id: KZ56HMS Client Smp ID: Y3-RC08-S MS
Inj Date : 26-MAY-2007 17:43
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56HMS,3
Misc Info : 07-9554
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 6 QC Sample: MS
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 5/29/07

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.10000	Weight of sample extracted (g)
M	47.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.992	4.981	(0.725)	120179	6.68083	766.3
$ 2 Phenol-d5	99	6.514	6.514	(0.946)	174074	8.24595	946.0
3 Phenol	94	6.530	6.536	(0.949)	169944	7.33409	841.3
$ 5 2-Chlorophenol-d4	132	6.600	6.595	(0.959)	116286	7.96764	914.0
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	6.621	6.621	(0.962)	115637	7.05986	809.9
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.883	6.883	(1.000)	197867	20.0000	
9 1,4-Dichlorobenzene	146	6.909	6.910	(1.004)	72550	4.35501	499.6
$ 10 1,2-Dichlorobenzene-d4	152	7.177	7.177	(1.043)	46285	5.18619	594.9
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.647	7.658	(1.111)	64750	5.40234	619.7
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.802	7.807	(0.876)	97531	5.89833	676.6
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	8.849	8.854	(0.994)	57578	4.83817	555.0
*	27 Naphthalene-d8	136	8.902	8.902	(1.000)	694910	20.0000	
	28 Naphthalene	128	8.929	8.934	(1.003)	74814	1.81759	208.5
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	9.938	9.933	(1.116)	94484	7.67782	880.7
	32 2-Methylnaphthalene	141	10.045	10.046	(1.128)	14524	0.69416 LDL	79.63
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.697	10.703	(0.911)	132857	5.79515	664.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.739	11.734	(1.000)	339685	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.787	11.787	(1.004)	124938	5.82858	668.6
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	12.097	12.086	(1.030)	16451	4.63666	531.9(M)
	48 2,4-Dinitrotoluene	165	12.150	12.156	(1.035)	31819	5.48494	629.2
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.599	12.599	(1.073)	15064	0.66157 LDL	75.89(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.021	13.021	(1.109)	29716	8.59273	985.7
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.924	13.924	(0.988)	27628	8.03778	922.0
*	59 Phenanthrene-d10	188	14.089	14.084	(1.000)	443615	20.0000	
	60 Phenanthrene	178	14.127	14.122	(1.003)	246922	8.34045	956.8
	61 Anthracene	178	14.196	14.196	(1.008)	60770	1.98660	227.9
	62 Carbazole	167	14.495	14.496	(1.029)	45968	1.74633	200.3(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.259	15.249	(1.083)	20320	0.62594 LDL	71.80 (MH)
64 Fluoranthene	202	16.066	16.045	(1.140)	544319	19.3784	2223
65 Pyrene	202	16.402	16.392	(0.892)	719930	22.5489	2587 (R)
$ 66 Terphenyl-d14	244	16.750	16.734	(0.911)	114064	5.64157	647.2
67 Butylbenzylphthalate	149	17.652	17.642	(0.960)	36864	2.45568	281.7 (M)
68 Benzo(a)anthracene	228	18.363	18.342	(0.999)	226128	7.86719	902.5
* 69 Chrysene-d12	240	18.384	18.369	(1.000)	384787	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.427	18.406	(1.002)	332386	11.4314	1311
72 bis(2-Ethylhexyl)phthalate	149	18.673	18.657	(0.952)	843138	41.1791 E'	4724 (M)
* 134 Di-n-octylphthalate-d4	153	19.608	19.587	(1.000)	597782	20.0000	
73 Di-n-octylphthalate	149	19.624	19.592	(1.001)	234412	6.60084	757.2 (M)
74 Benzo(b)fluoranthene	252	20.019	19.987	(0.974)	326730	11.8485	1359 (M)
75 Benzo(k)fluoranthene	252	20.035	20.019	(0.975)	313342	11.8286	1357 (M)
76 Benzo(a)pyrene	252	20.462	20.425	(0.996)	262895	9.52482	1093
* 77 Perylene-d12	264	20.543	20.505	(1.000)	425301	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.899	21.852	(1.066)	156353	4.79143	549.6 (M)
79 Dibenzo(a,h)anthracene	278	21.921	21.884	(1.067)	31157	1.15281	132.2 (M)
80 Benzo(g,h,i)perylene	276	22.231	22.178	(1.082)	237742	7.95301	912.3 (M)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56hms.d
Lab Smp Id: KZ56HMS
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC08-S MS
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	197867	-8.81
27 Naphthalene-d8	799420	399710	1598840	694910	-13.07
42 Acenaphthene-d10	390056	195028	780112	339685	-12.91
59 Phenanthrene-d10	573879	286940	1147758	443615	-22.70
69 Chrysene-d12	366829	183414	733658	384787	4.90
134 Di-n-octylphthala	621709	310854	1243418	597782	-3.85
77 Perylene-d12	428868	214434	857736	425301	-0.83

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	8.90	8.40	9.40	8.90	0.00
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.04
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.04
69 Chrysene-d12	18.37	17.87	18.87	18.38	0.09
134 Di-n-octylphthala	19.59	19.09	20.09	19.61	0.11
77 Perylene-d12	20.51	20.01	21.01	20.54	0.18

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Tetra Tech
Sample Matrix: SOLID
Lab Smp Id: KZ56HMS
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC08-S MS
Operator: LJR/VTS
SampleType: MS
Quant Type: ISTD

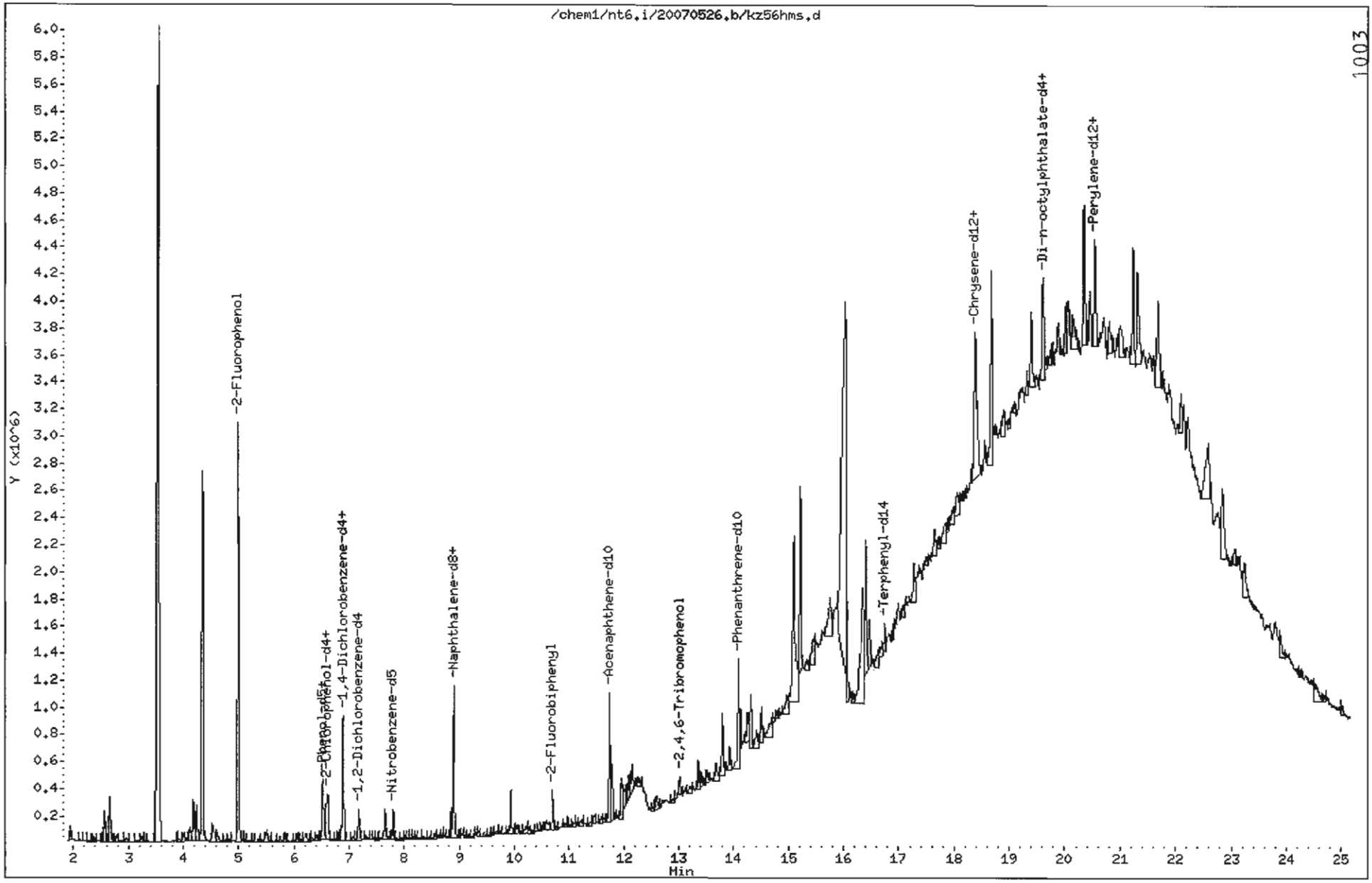
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	1434	841.3	58.67	32-121
6 2-Chlorophenol	1434	809.9	56.48	39-111
9 1,4-Dichlorobenzen	955.9	499.6	52.26	34-88
16 N-Nitroso-di-n-pro	955.9	619.7	64.83	24-100
26 1,2,4-Trichloroben	955.9	555.0	58.06	41-91
31 4-Chloro-3-methylp	1434	880.7	61.42	48-110
44 Acenaphthene	955.9	668.6	69.94	48-108
47 4-Nitrophenol	1434	531.9	37.09	27-155
48 2,4-Dinitrotoluene	955.9	629.2	65.82	30-124
58 Pentachlorophenol	1434	922.0	64.30	28-151
65 Pyrene	955.9	2587	270.59 *	10-153
73 Di-n-octylphthalat	955.9	757.2	79.21	36-108
80 Benzo(g,h,i)peryle	955.9	912.3	95.44	36-108

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1434	766.3	53.44	22-91
$ 2 Phenol-d5	1434	946.0	65.98	26-99
$ 5 2-Chlorophenol-d4	1434	914.0	63.74	29-96
$ 10 1,2-Dichlorobenzen	955.9	594.9	62.23	24-87
$ 18 Nitrobenzene-d5	955.9	676.6	70.78	27-101
$ 36 2-Fluorobiphenyl	955.9	664.8	69.54	30-100
$ 55 2,4,6-Tribromophen	1434	985.7	68.74	20-114
$ 66 Terphenyl-d14	955.9	647.2	67.70	12-120

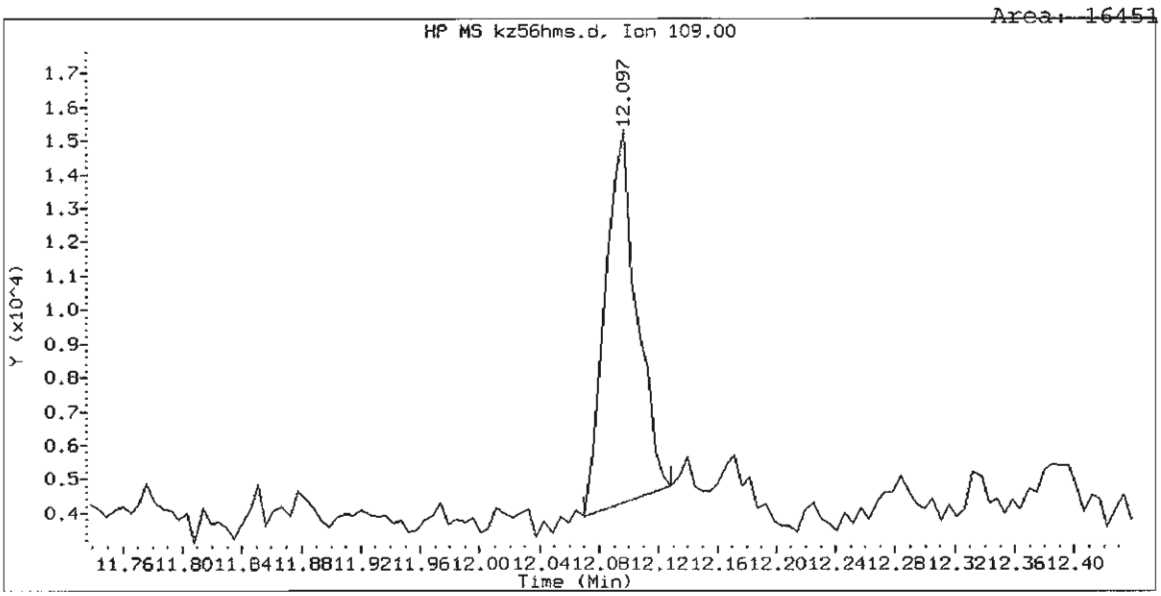
Data File: /chem1/nt6.i/20070526.b/kz56hms.d
Date : 26-MAY-2007 17:43
Client ID: Y3-RC08-S MS
Sample Info: KZ56HMS,3
Volume Injected (uL): 1.0
Column phase: ZB-5

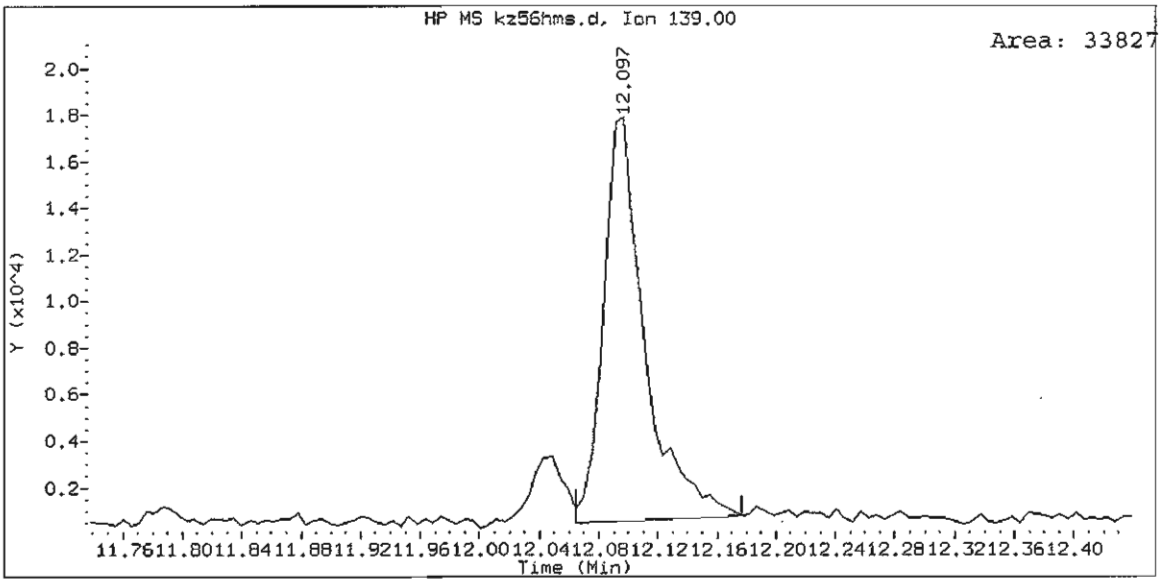
Instrument: nt6.i

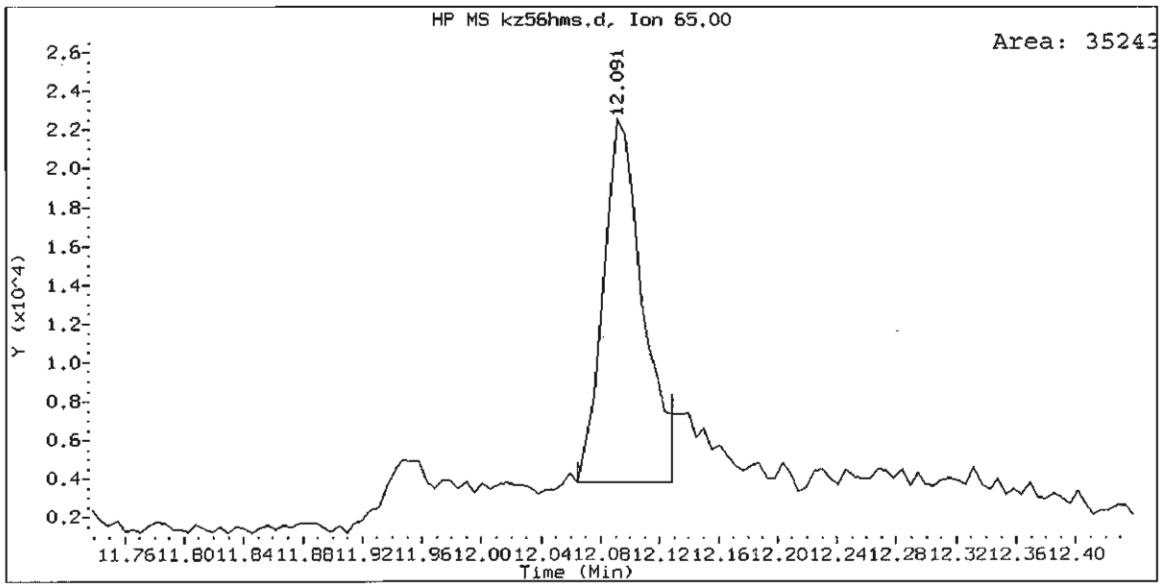
Operator: LJR/VTS
Column diameter: 0.32



KZ56HMS, /chem1/nt6.i/20070526.b/kz56hms.d
4-Nitrophenol Amount: 4.64







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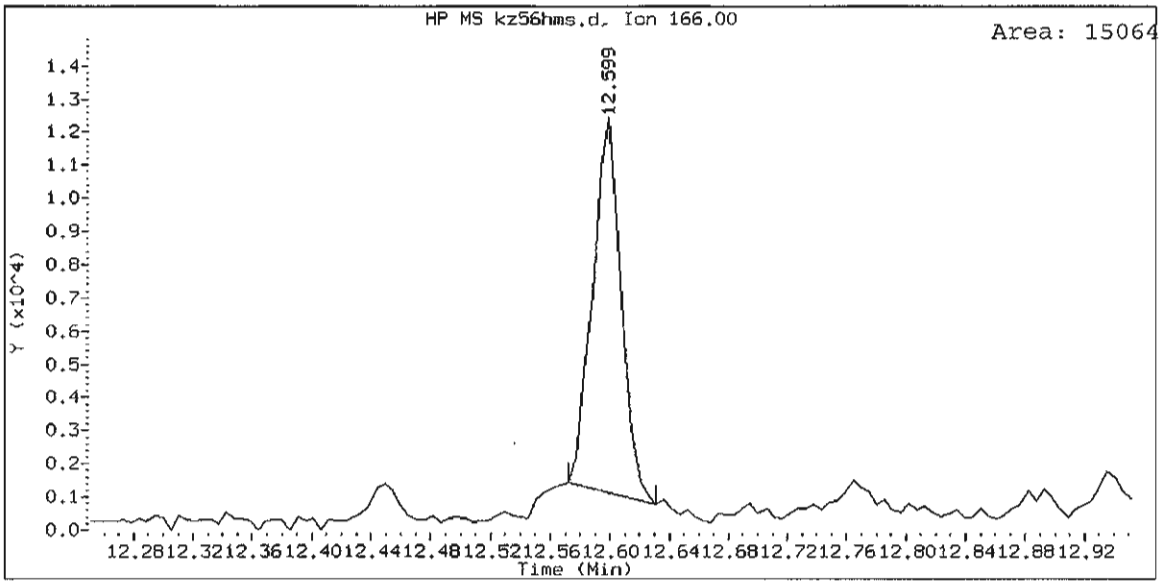
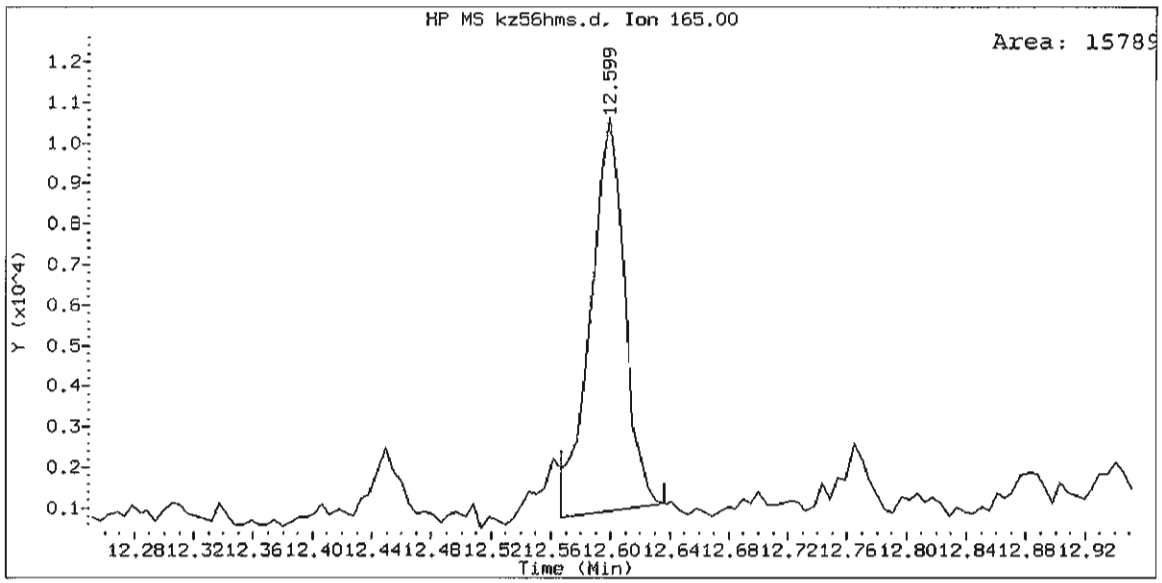
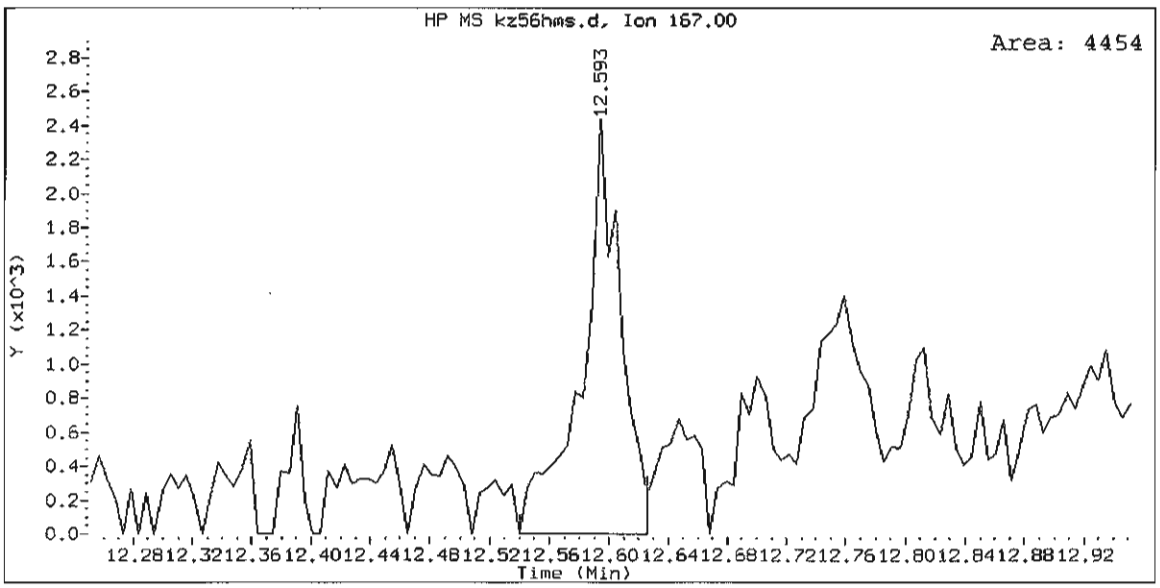
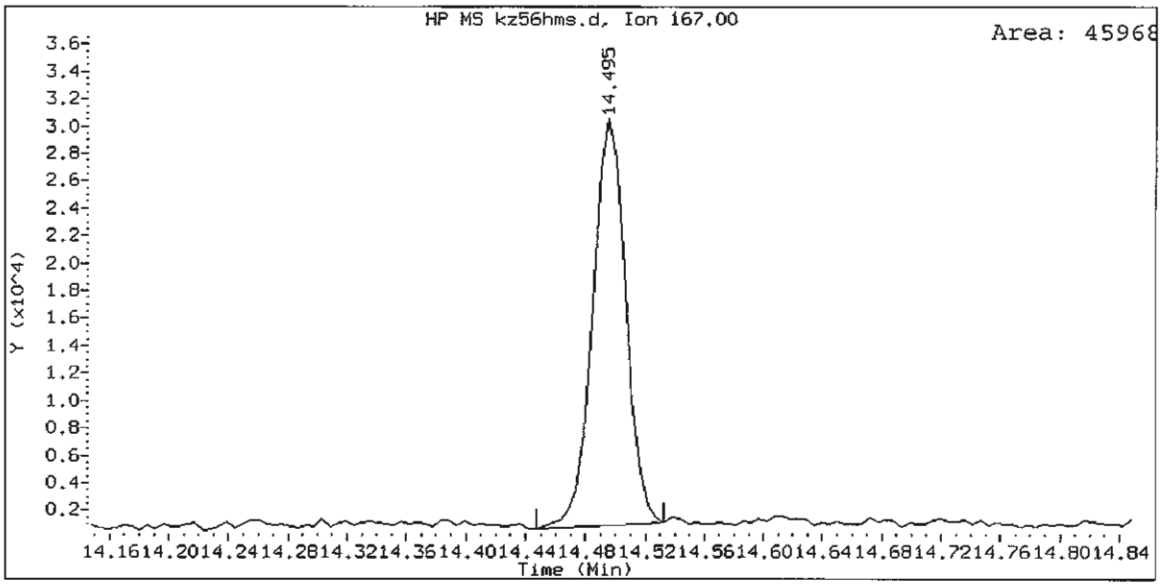
Fluorene Amount: 0.66

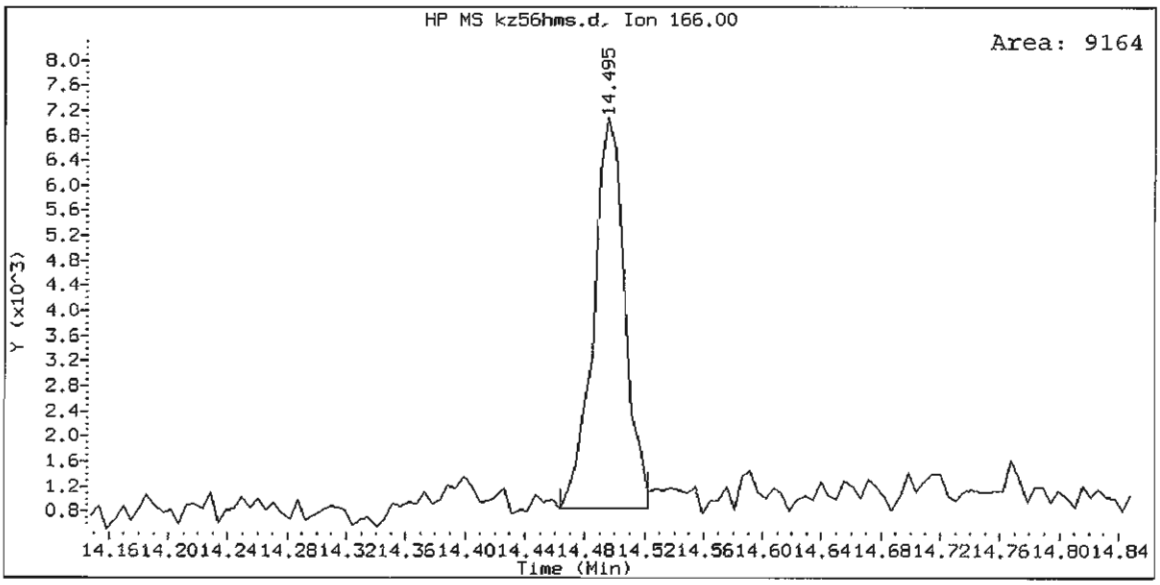


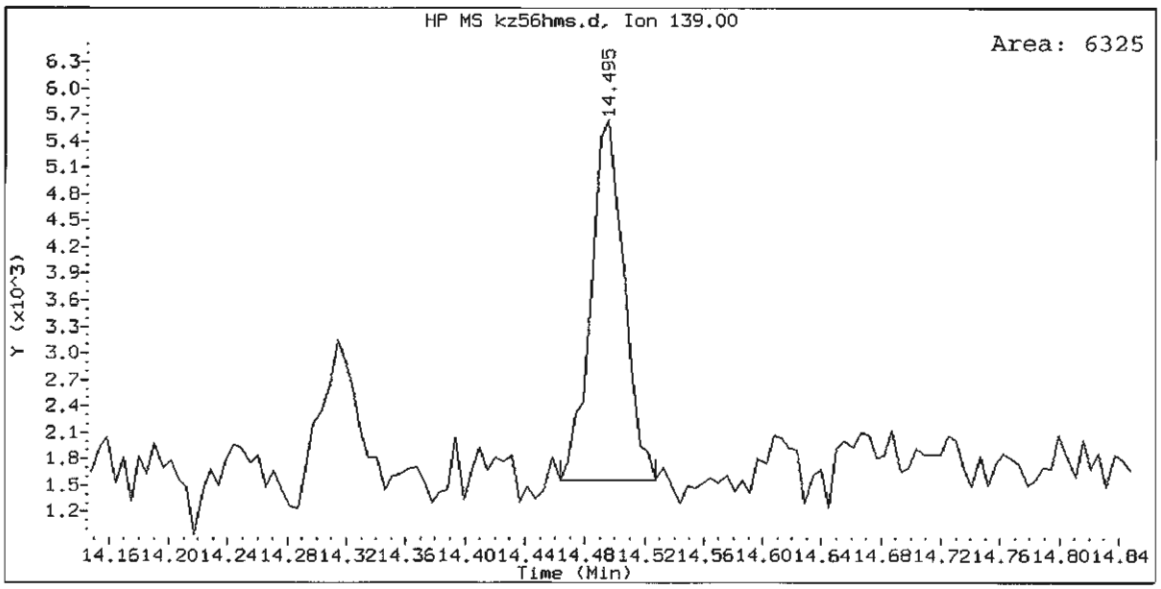




KZ56HMS, /chem1/nt6.i/20070526.b/kz56hms.d
Carbazole Amount: 1.75







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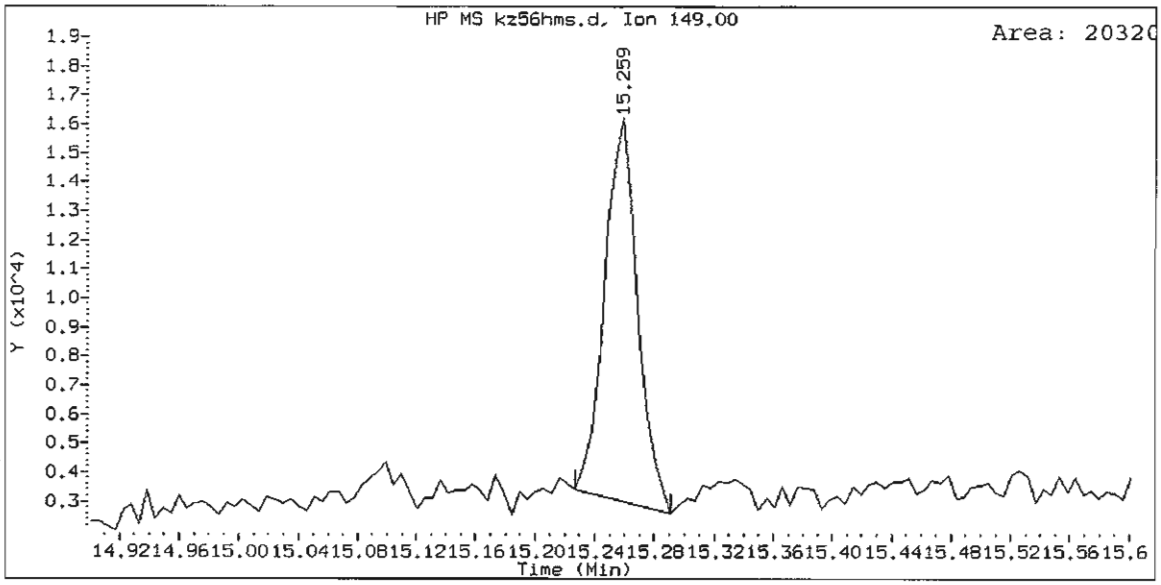
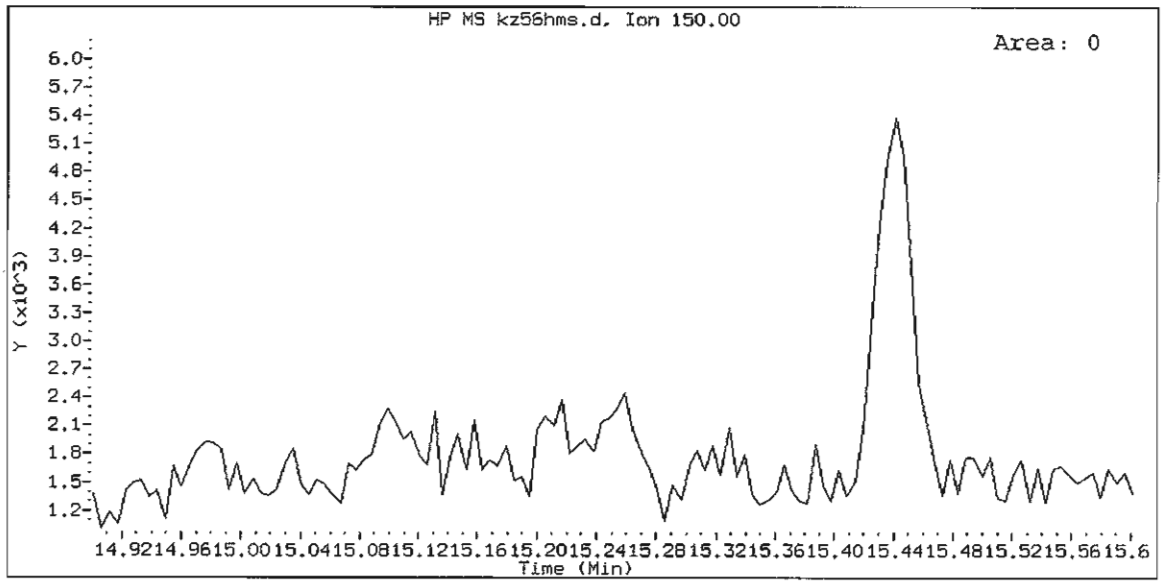
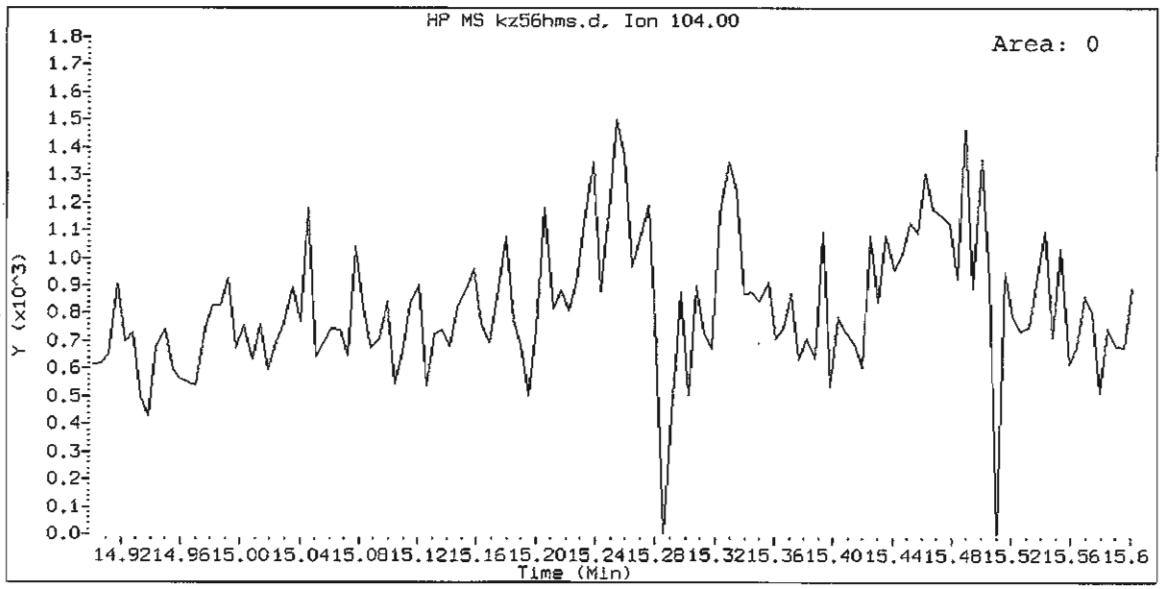
Di-n-butylphthalate Amount: 0.63







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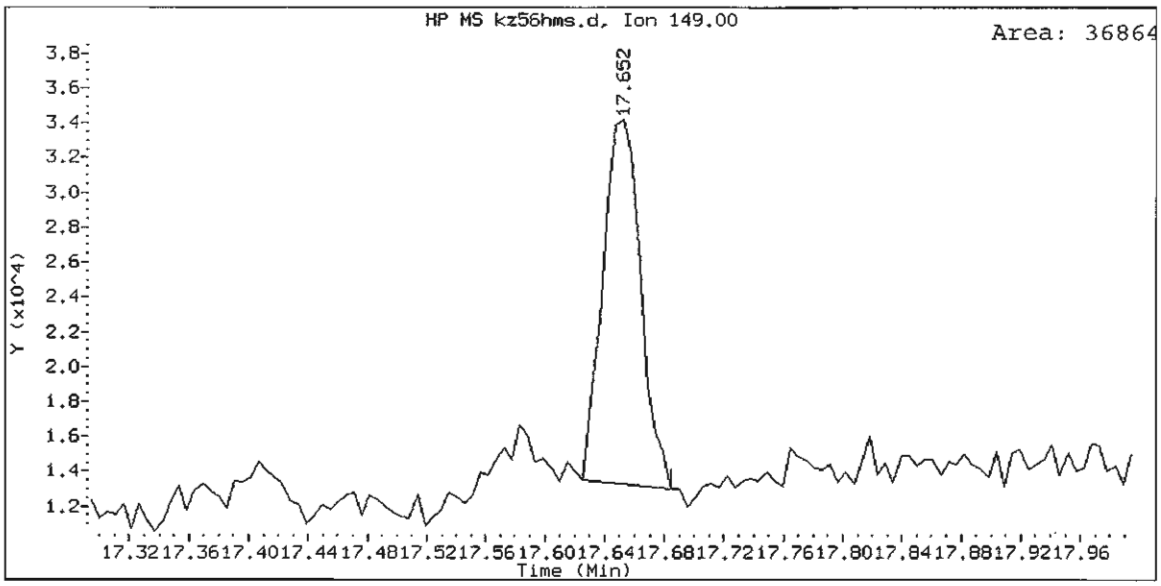
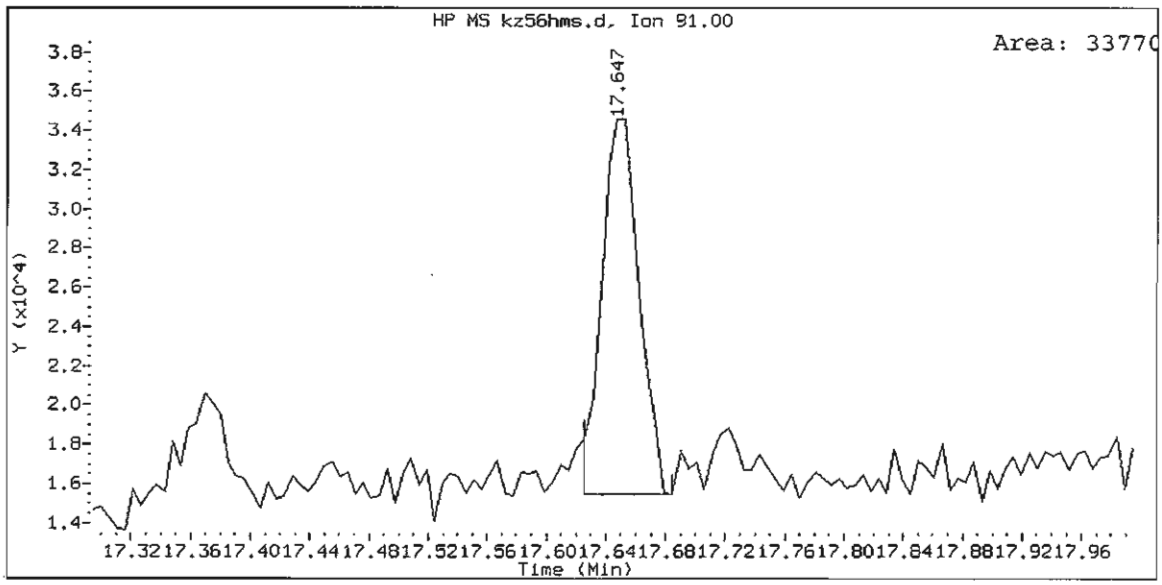
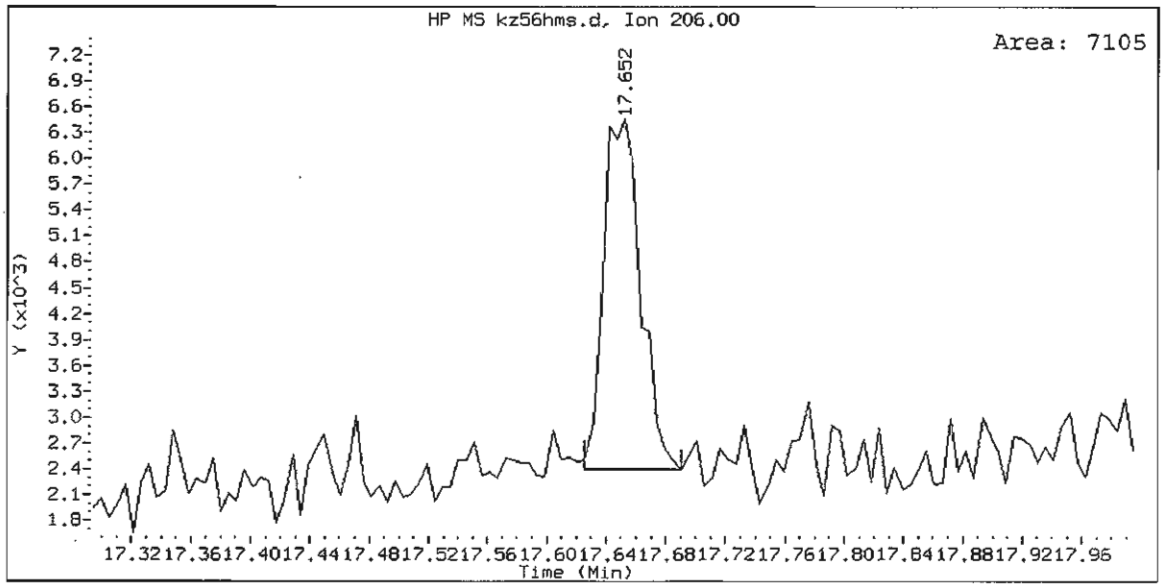
Butylbenzylphthalate Amount: 2.46







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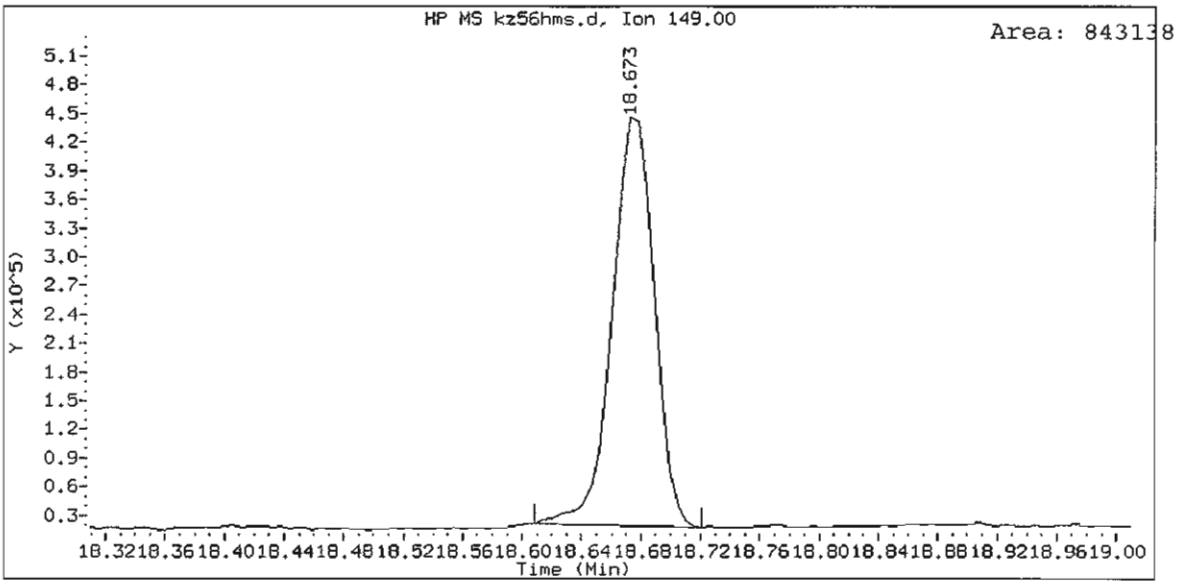
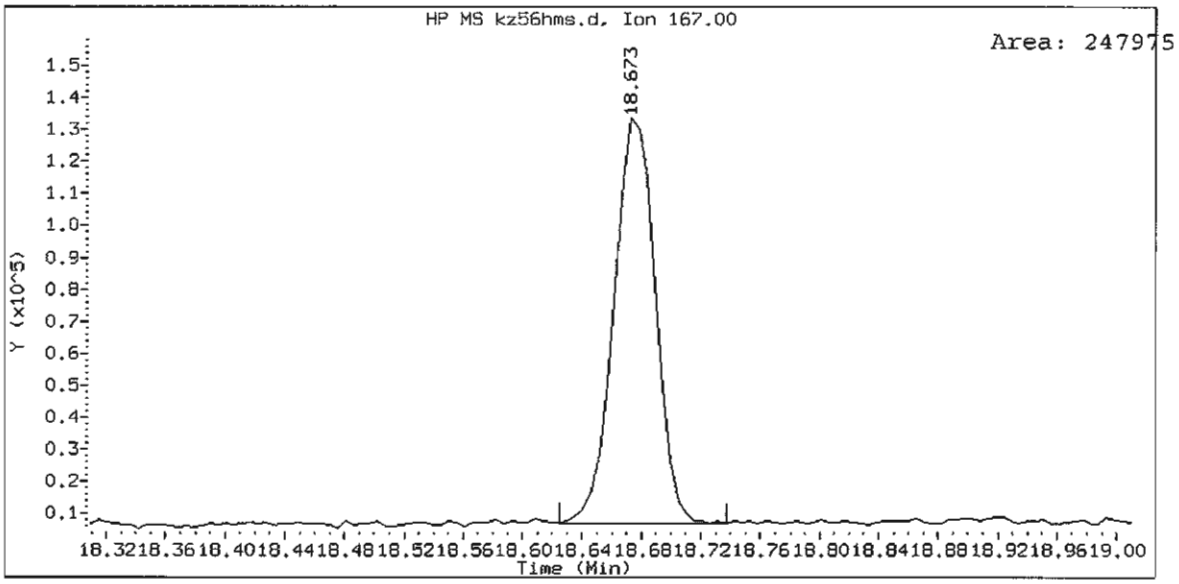
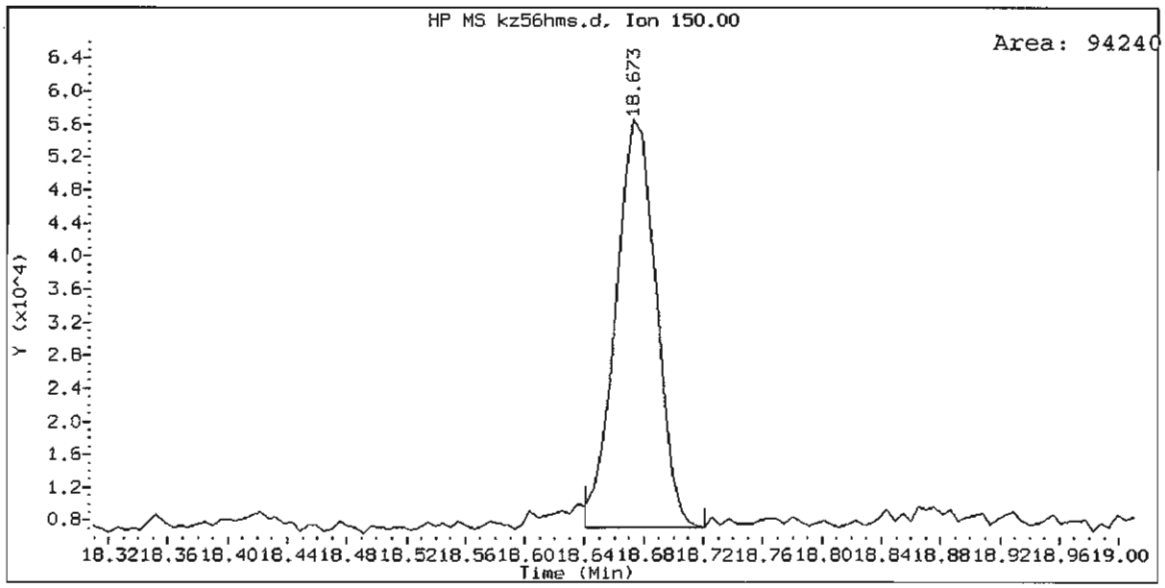
bis(2-Ethylhexyl)phthalate Amount: 41.18







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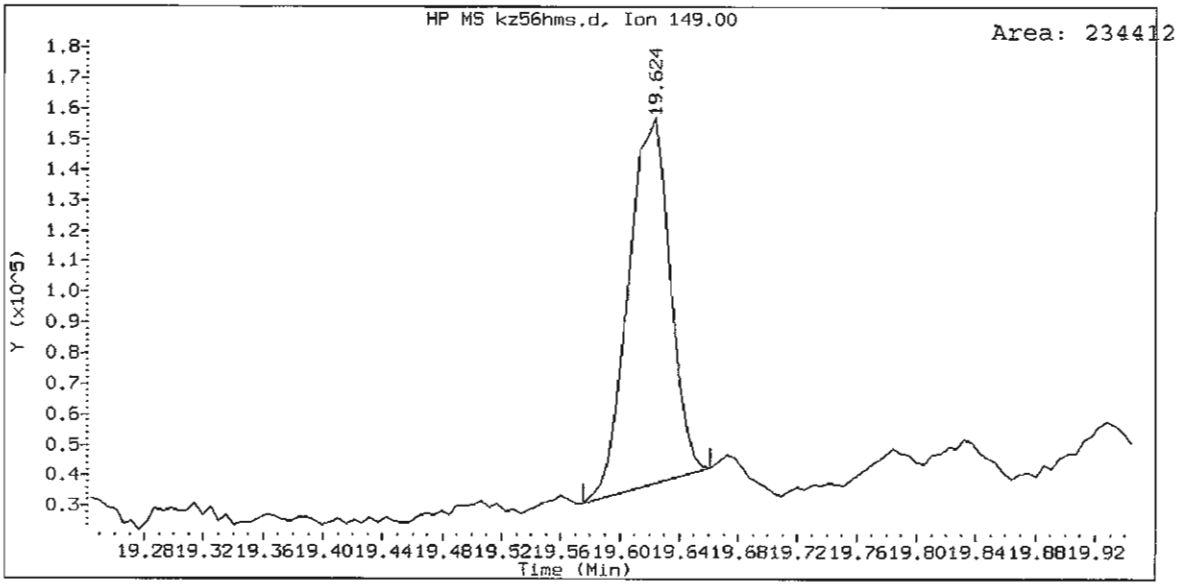
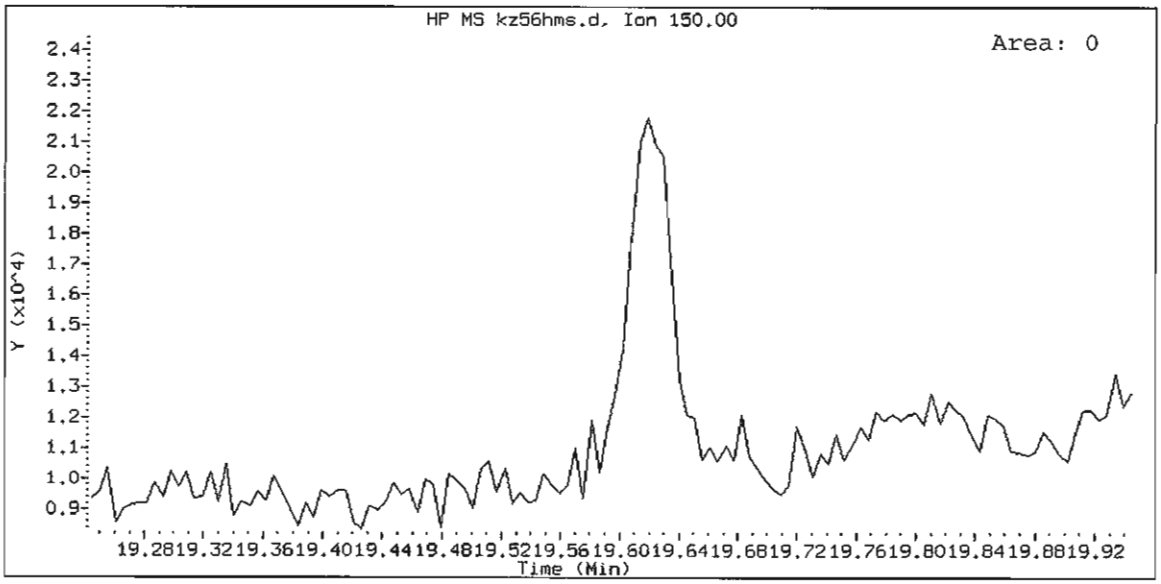
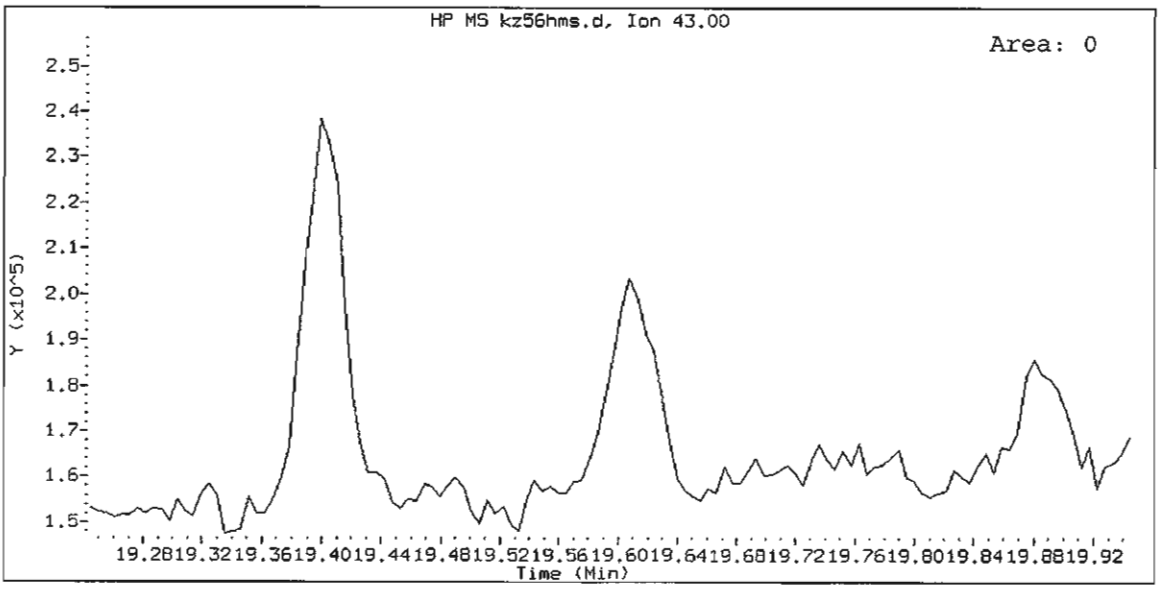
Di-n-octylphthalate Amount: 6.60







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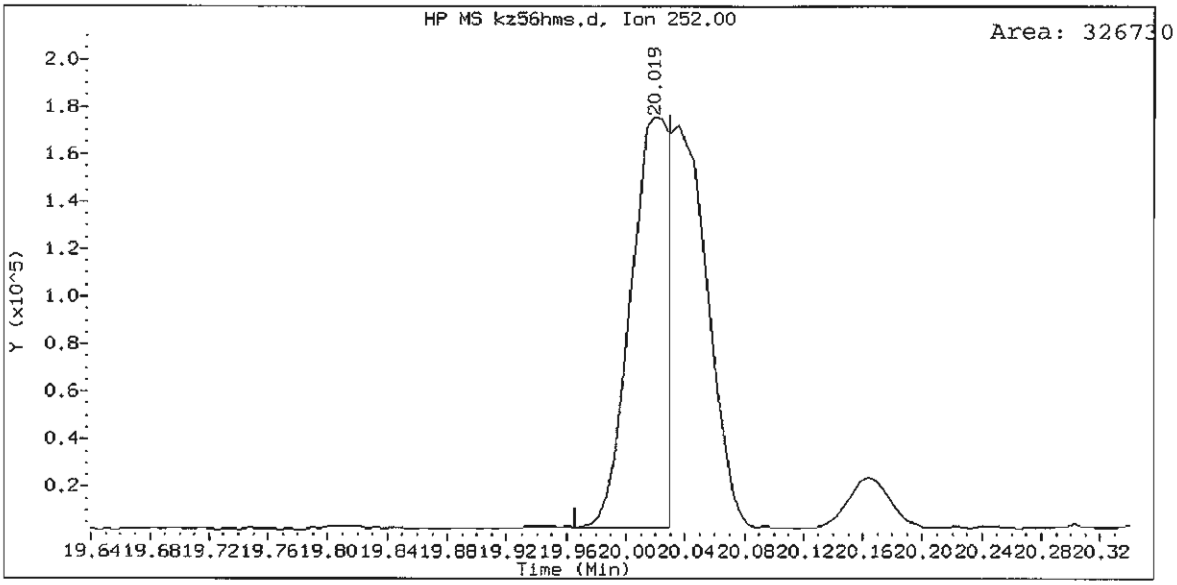
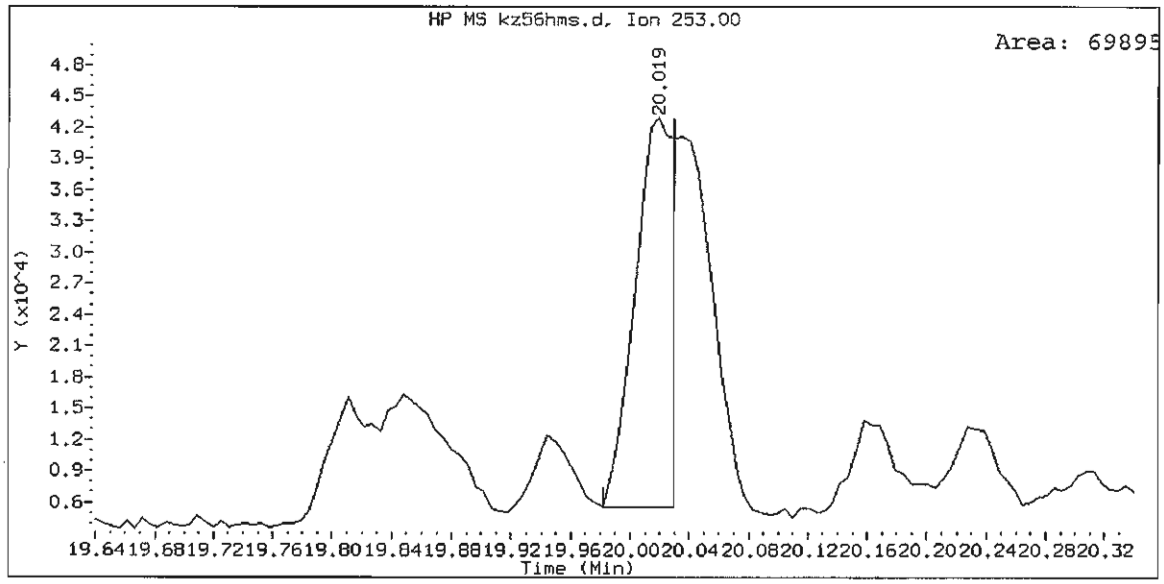
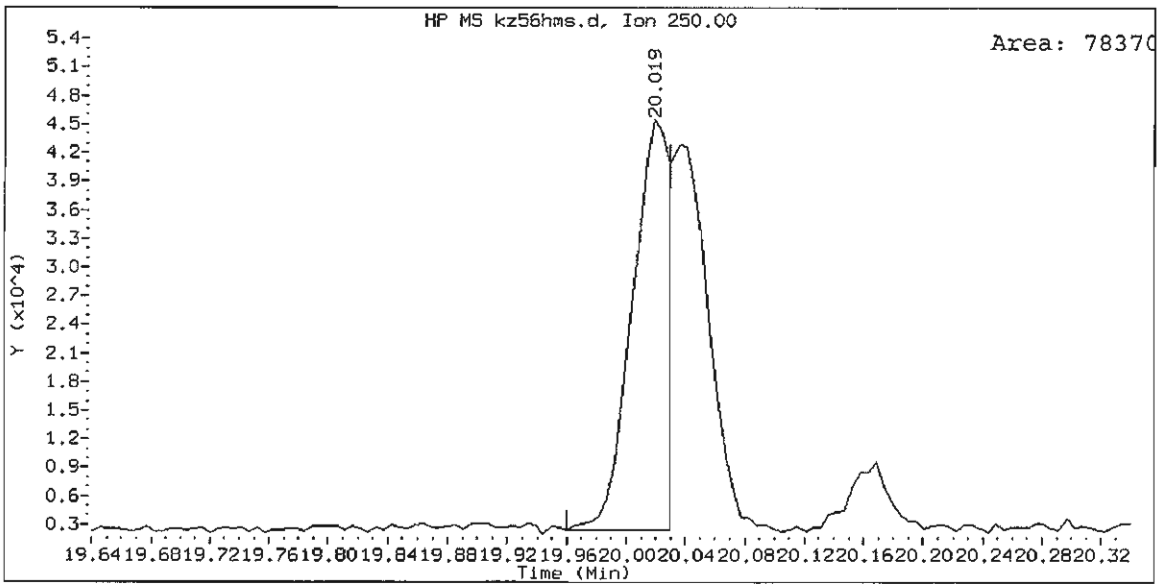
Benzo(b)fluoranthene Amount: 11.85







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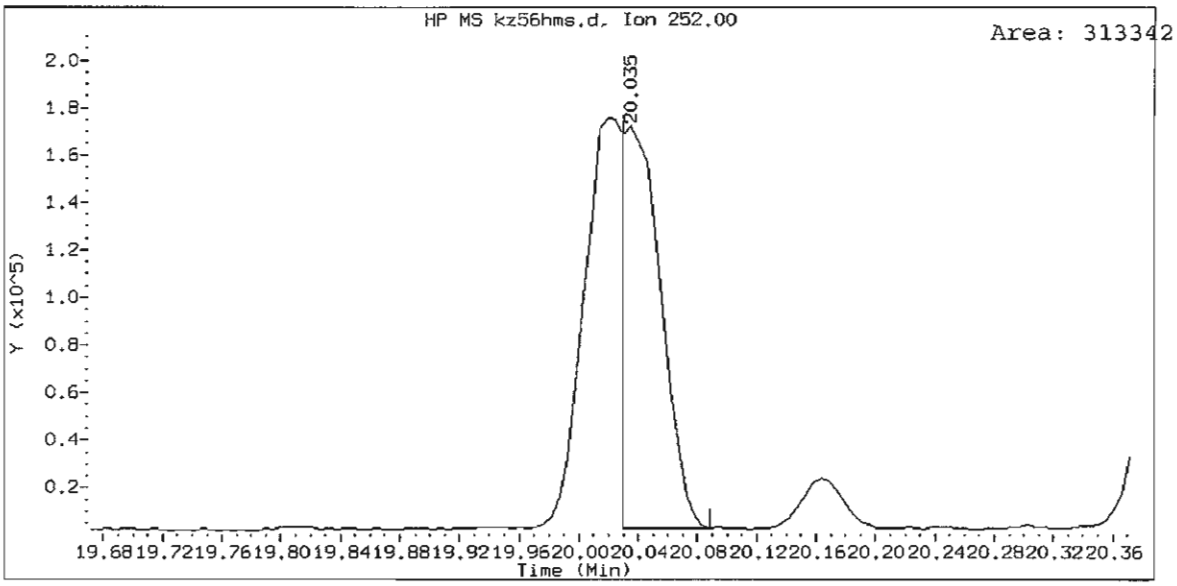
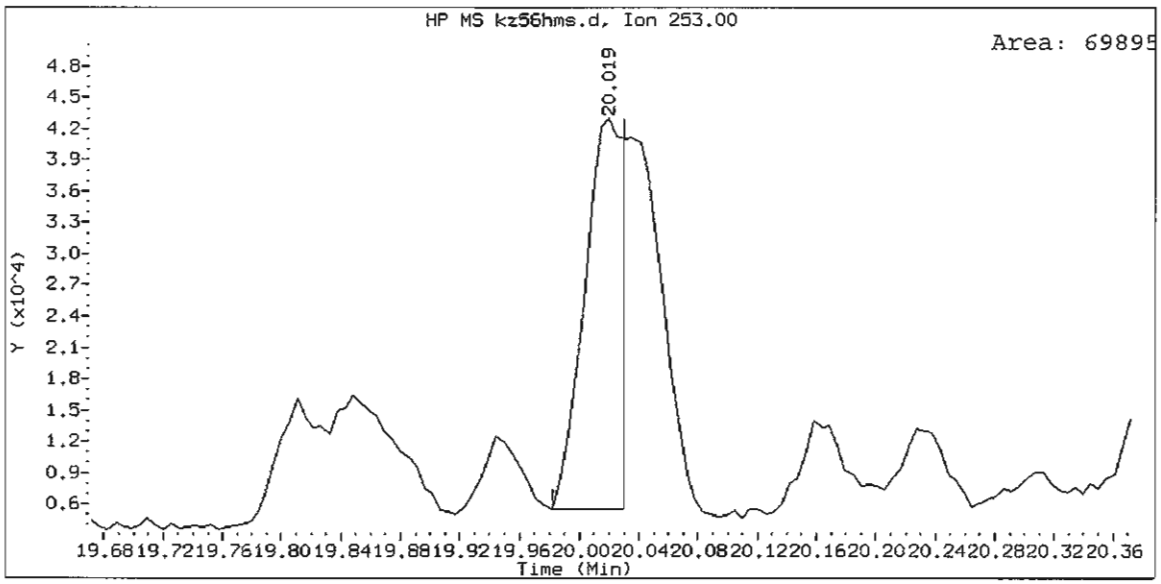
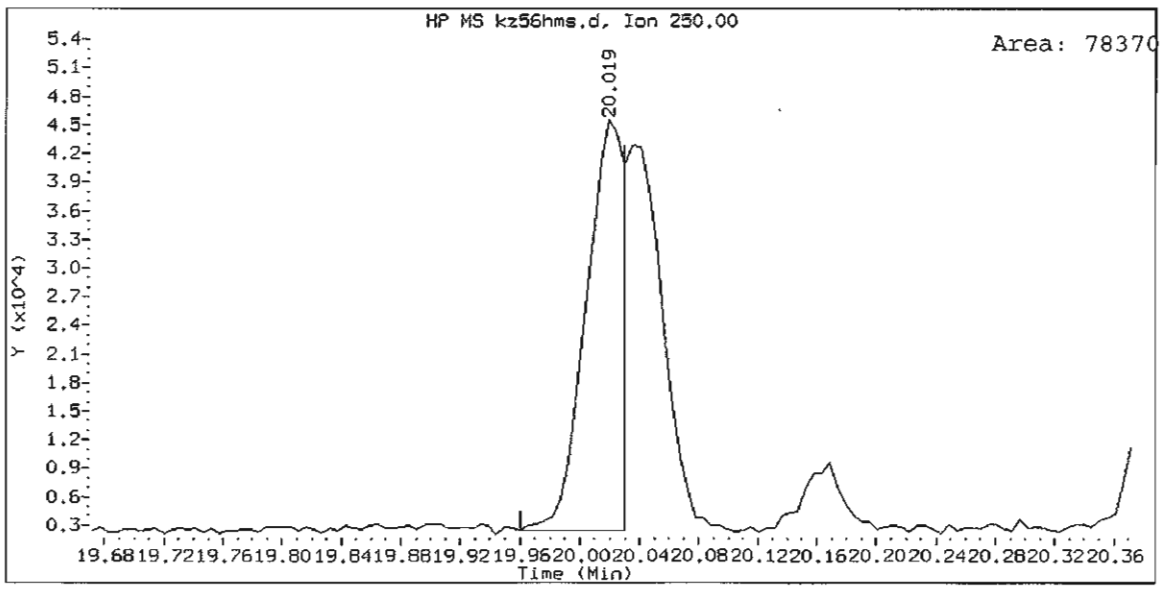
Benzo(k)fluoranthene Amount: 11.83







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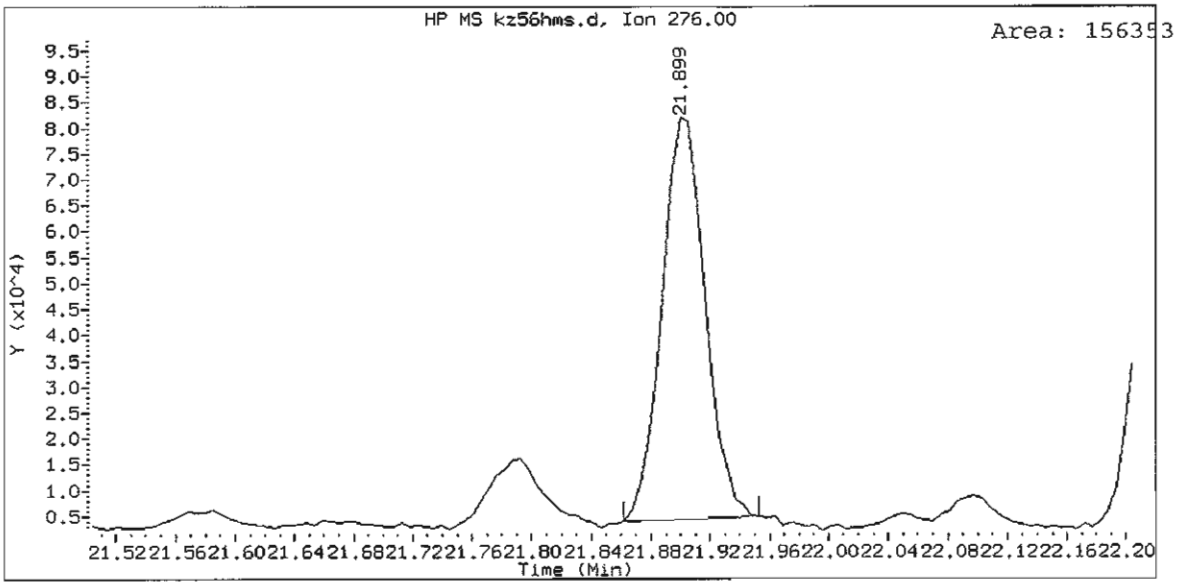
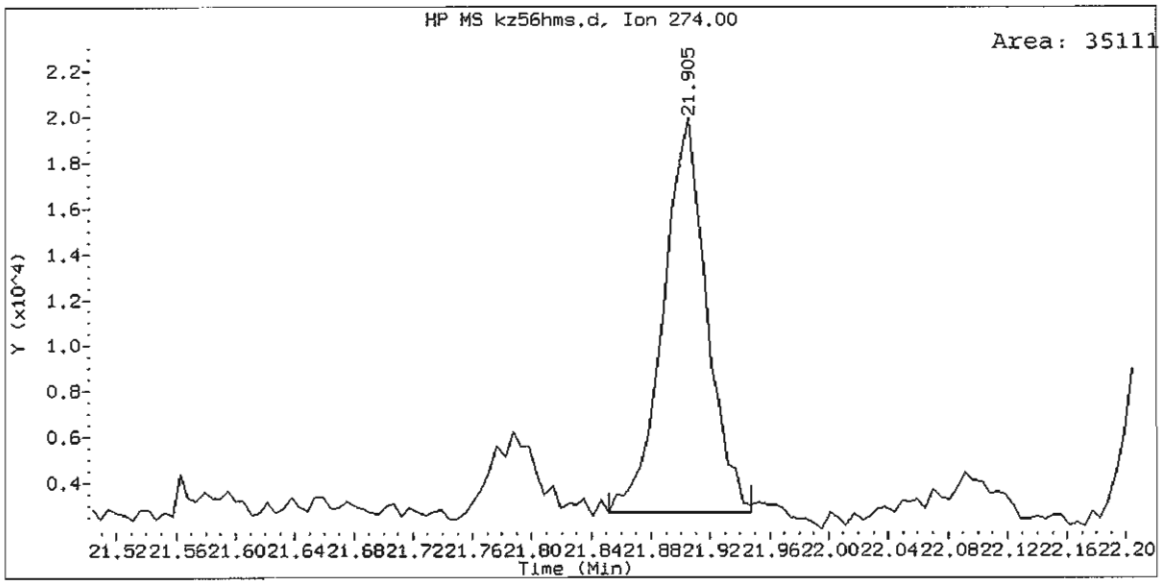
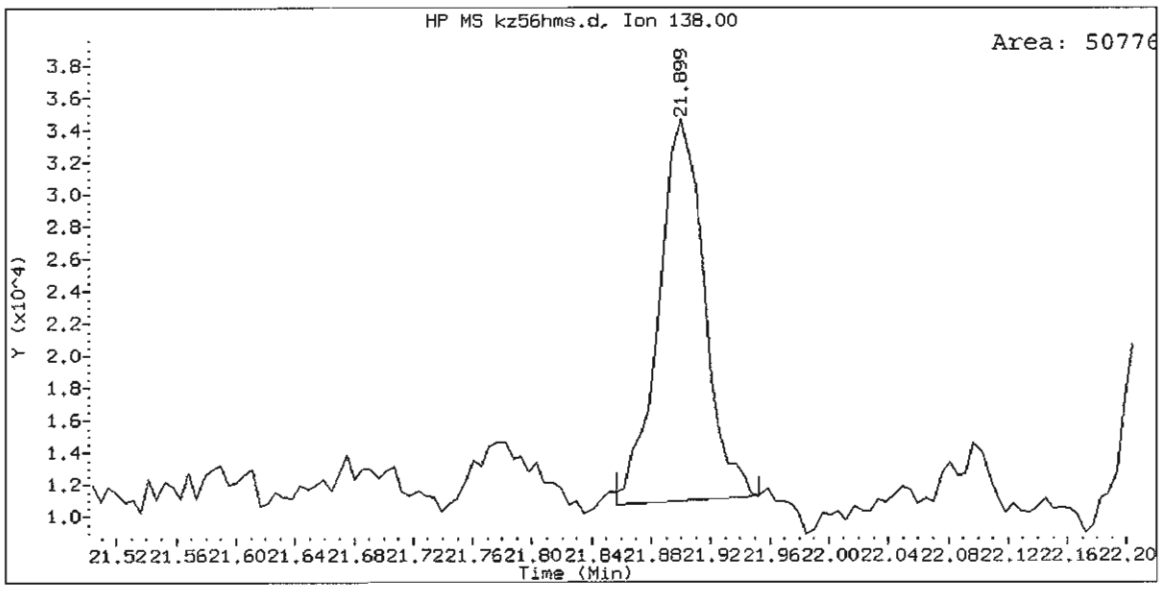
Indeno(1,2,3-cd)pyrene Amount: 4.79







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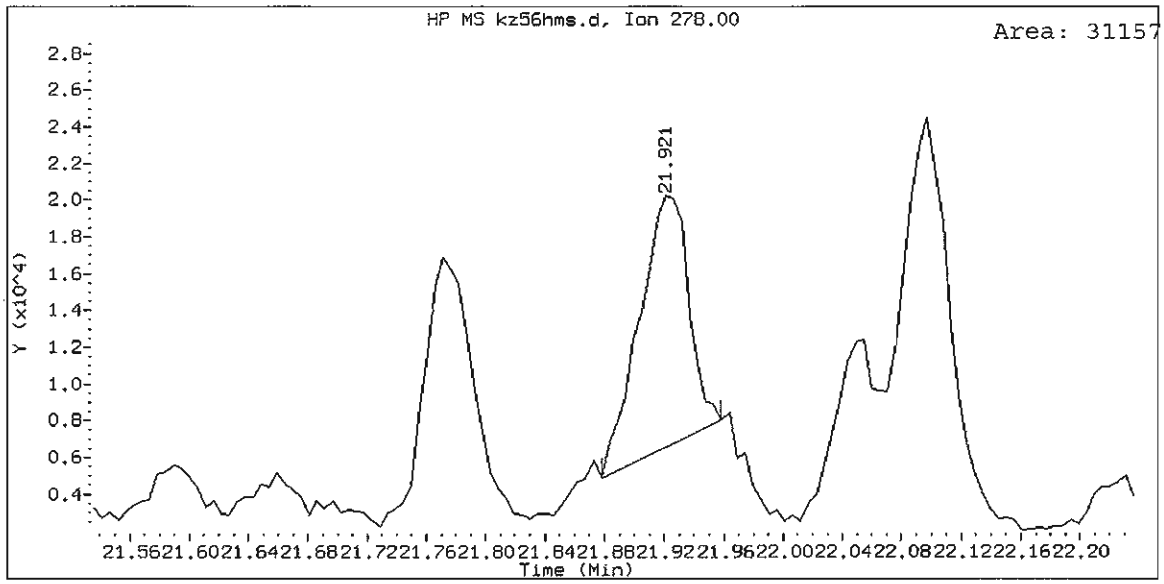
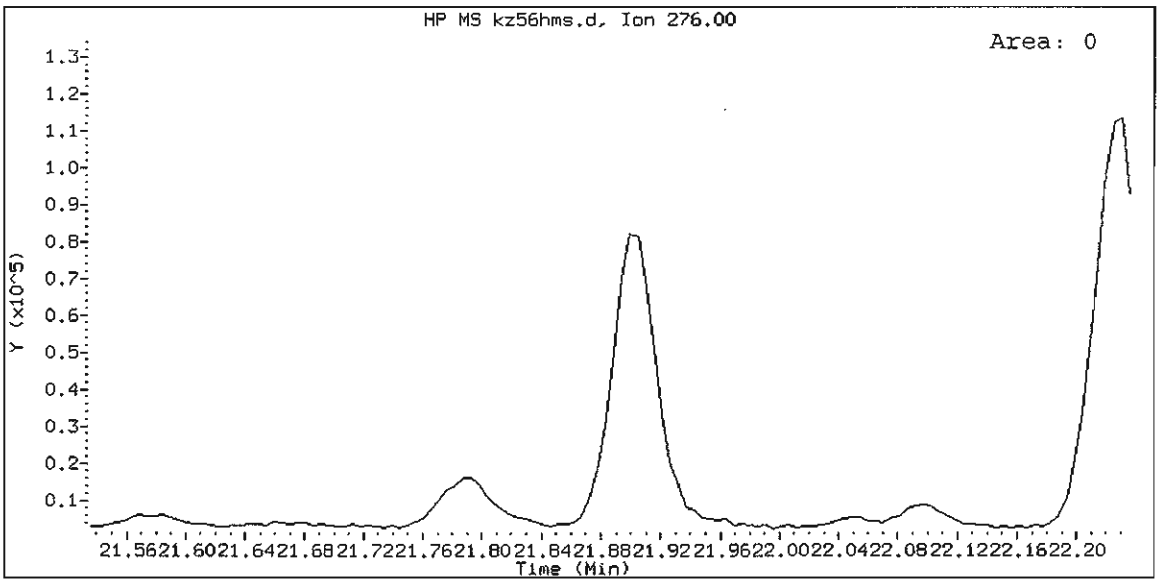
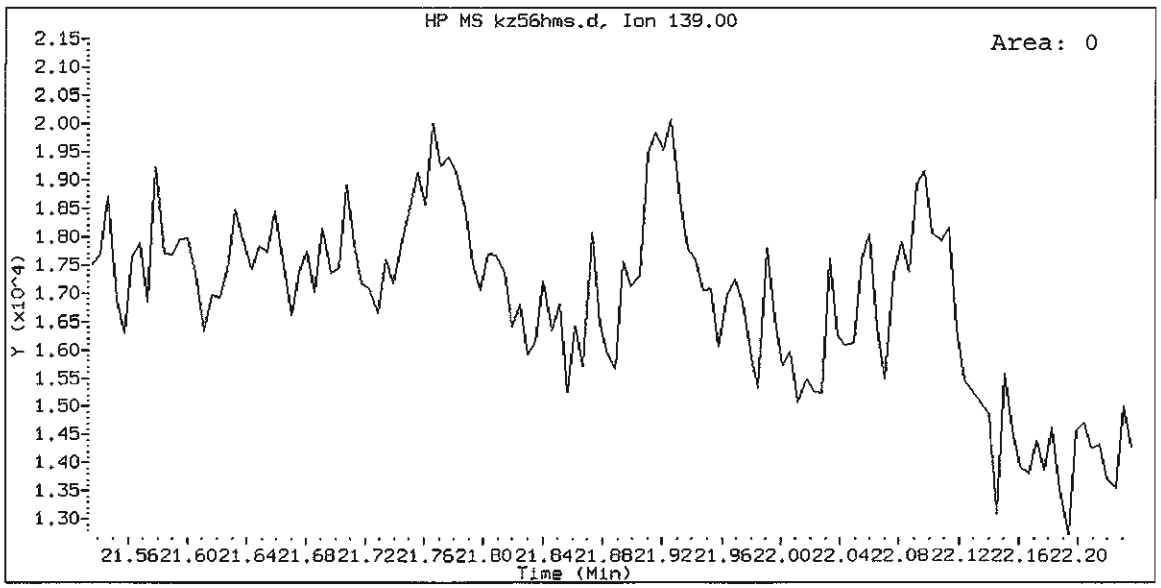
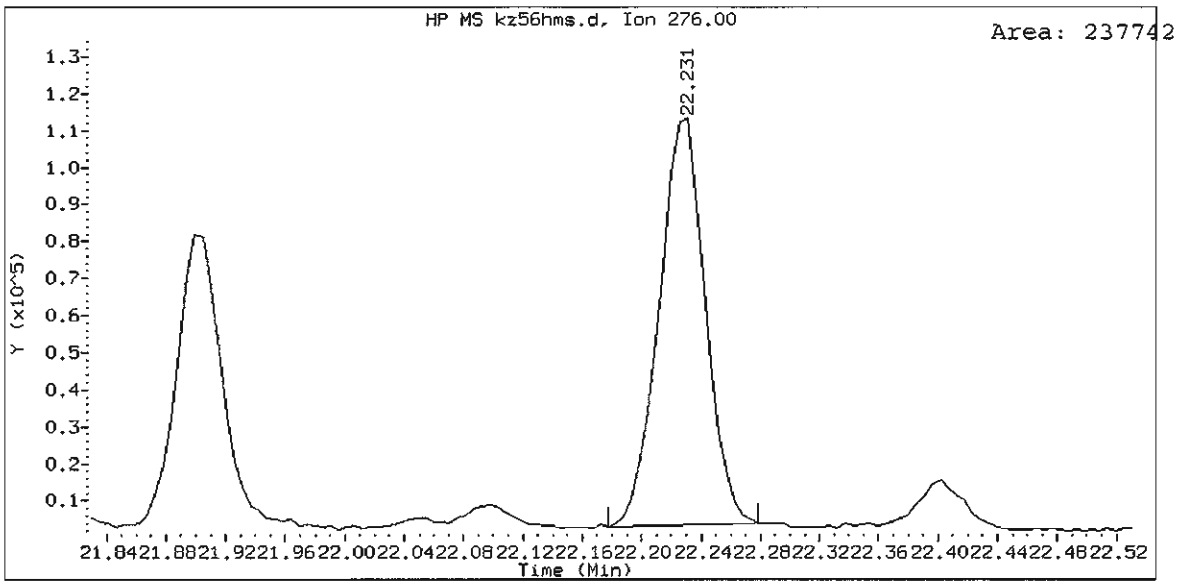
Dibenzo(a,h)anthracene Amount: 1.15

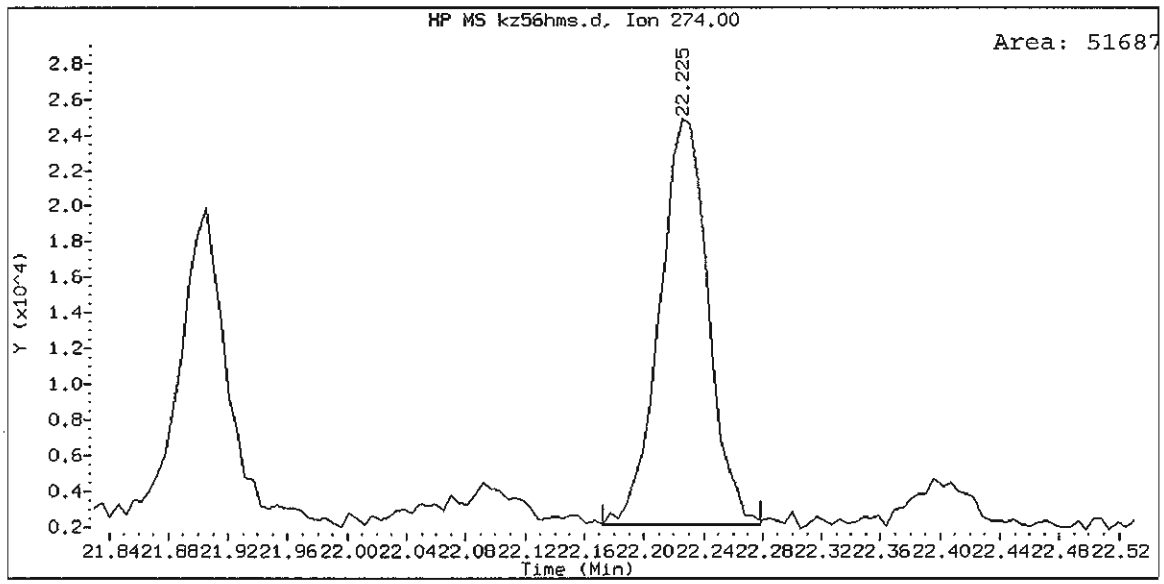


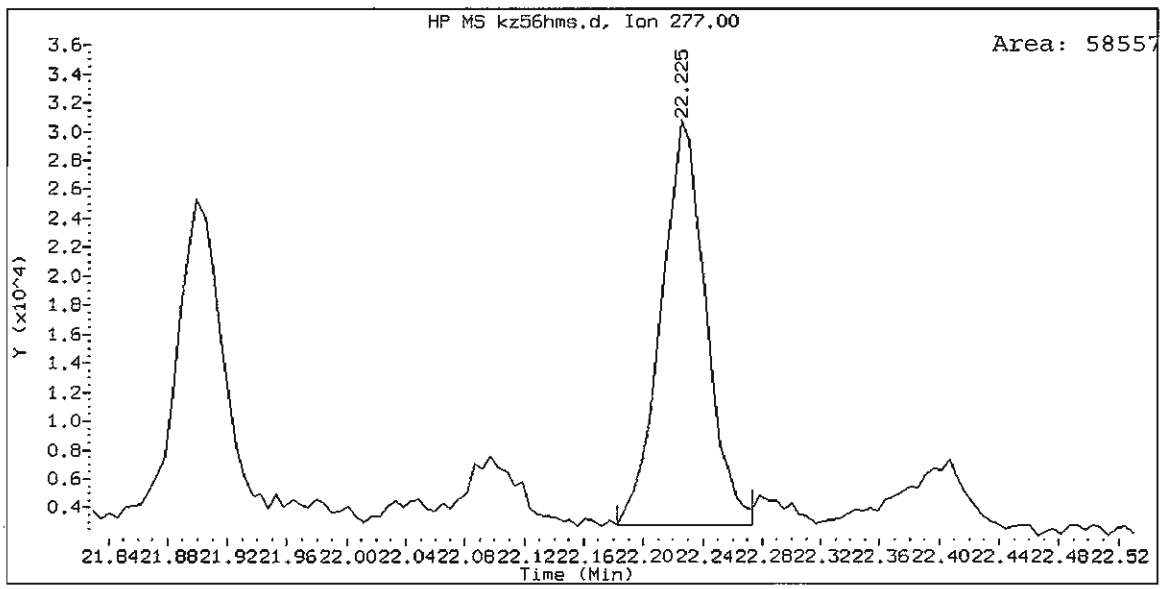




KZ56HMS, /chem1/nt6.i/20070526.b/kz56hms.d
Benzo(g,h,i)perylene Amount: 7.95







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: Y3-RC08-S
MATRIX SPIKE DUPLICATE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 05/31/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/22/07
Date Analyzed: 05/26/07 18:16
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 47.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	120	250
91-57-6	2-Methylnaphthalene	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
83-32-9	Acenaphthene	120	---
132-64-9	Dibenzofuran	120	< 120 U
86-73-7	Fluorene	120	< 120 U
85-01-8	Phenanthrene	120	1,100
120-12-7	Anthracene	120	260
206-44-0	Fluoranthene	120	2,500
129-00-0	Pyrene	120	---
56-55-3	Benzo(a)anthracene	120	1,000
117-81-7	bis(2-Ethylhexyl)phthalate	120	5,500 E
218-01-9	Chrysene	120	1,500
205-99-2	Benzo(b)fluoranthene	120	1,400
207-08-9	Benzo(k)fluoranthene	120	1,700
50-32-8	Benzo(a)pyrene	120	1,200
193-39-5	Indeno(1,2,3-cd)pyrene	120	610
53-70-3	Dibenz(a,h)anthracene	120	150
191-24-2	Benzo(g,h,i)perylene	120	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	82.7%	2-Fluorobiphenyl	81.4%
d14-p-Terphenyl	75.7%	d4-1,2-Dichlorobenzene	74.9%
d5-Phenol	75.6%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	79.0%	d4-2-Chlorophenol	76.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20070526.b/kz56hmsd.d
Lab Smp Id: KZ56HMSD Client Smp ID: Y3-RC08-S MSD
Inj Date : 26-MAY-2007 18:16
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : KZ56HMSD,3
Misc Info : 07-9554
Comment : 1ul Injection
Method : /chem1/nt6.i/20070526.b/SW846.m
Meth Date : 29-May-2007 10:50 jeff Quant Type: ISTD
Cal Date : 03-MAY-2007 11:05 Cal File: 0400503.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LTK 5/29/07

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	47.80000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.995	4.981	(0.725)	140987	7.59530	873.0
$ 2 Phenol-d5	99	6.517	6.514	(0.946)	205859	9.45181	1086
3 Phenol	94	6.533	6.536	(0.949)	219283	9.17126	1054
$ 5 2-Chlorophenol-d4	132	6.597	6.595	(0.958)	143767	9.54651	1097
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	6.619	6.621	(0.961)	147128	8.70519	1001
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.886	6.883	(1.000)	204169	20.0000	
9 1,4-Dichlorobenzene	146	6.913	6.910	(1.004)	92968	5.40841	621.7
$ 10 1,2-Dichlorobenzene-d4	152	7.174	7.177	(1.042)	57476	6.24134	717.4
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.650	7.658	(1.111)	85037	6.87597	790.3
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.805	7.807	(0.877)	117445	6.89263	792.3
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	8.852	8.854	(0.995)	74191	6.04978	695.4
*	27 Naphthalene-d8	136	8.900	8.902	(1.000)	716085	20.0000	
	28 Naphthalene	128	8.932	8.934	(1.004)	92328	2.17676	250.2
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	9.936	9.933	(1.116)	118942	9.37948	1078
	32 2-Methylnaphthalene	141	10.048	10.046	(1.129)	17980	0.83392 LDL	95.85
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.700	10.703	(0.912)	158955	6.78486	779.9
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.736	11.734	(1.000)	347128	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.785	11.787	(1.004)	152375	6.95614	799.6
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	12.094	12.086	(1.030)	24766	6.83055	785.1(M)
	48 2,4-Dinitrotoluene	165	12.153	12.156	(1.036)	39659	6.68981	768.9
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.602	12.599	(1.074)	17694	0.76041 LDL	87.40(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	13.024	13.021	(1.110)	34902	9.87593	1135
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	13.927	13.924	(0.988)	31841	9.23283	1061
*	59 Phenanthrene-d10	188	14.092	14.084	(1.000)	445087	20.0000	
	60 Phenanthrene	178	14.124	14.122	(1.002)	276503	9.30874	1070
	61 Anthracene	178	14.194	14.196	(1.007)	70783	2.30628	265.1
	62 Carbazole	167	14.498	14.496	(1.029)	50536	1.91352	219.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63 Di-n-butylphthalate	149	15.257	15.249	(1.083)	32255	0.99031 LOL	113.8(M)
64 Fluoranthene	202	16.064	16.045	(1.140)	604745	21.4585	2466
65 Pyrene	202	16.406	16.392	(0.892)	803530	25.4949	2930(R)
$ 66 Terphenyl-d14	244	16.747	16.734	(0.911)	126030	6.31455	725.8
67 Butylbenzylphthalate	149	17.656	17.642	(0.960)	41847	2.82391	324.6(M)
68 Benzo(a)anthracene	228	18.366	18.342	(0.999)	246659	8.69320	999.2
* 69 Chrysene-d12	240	18.393	18.369	(1.000)	379842	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	18.425	18.406	(1.002)	382758	13.3352	1533
72 bis(2-Ethylhexyl)phthalate	149	18.681	18.657	(0.953)	935454	47.9646 E	5513
* 134 Di-n-octylphthalate-d4	153	19.611	19.587	(1.000)	569409	20.0000	
73 Di-n-octylphthalate	149	19.621	19.592	(1.001)	250899	7.41714	852.5(M)
74 Benzo(b)fluoranthene	252	20.033	19.987	(0.975)	310772	11.8895	1367(M)
75 Benzo(k)fluoranthene	252	20.033	20.019	(0.975)	380092	15.1372	1740(M)
76 Benzo(a)pyrene	252	20.466	20.425	(0.996)	275587	10.5336	1211
* 77 Perylene-d12	264	20.546	20.505	(1.000)	403137	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.908	21.852	(1.066)	164168	5.30751	610.1
79 Dibenzo(a,h)anthracene	278	21.929	21.884	(1.067)	33594	1.31132	150.7(M)
80 Benzo(g,h,i)perylene	276	22.234	22.178	(1.082)	238919	8.43180	969.2
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	10.214	10.217	(1.148)	11614	0.55973 LOL	64.34
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

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

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: kz56hmsd.d
Lab Smp Id: KZ56HMSD
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

Calibration Date: 26-MAY-2007
Calibration Time: 09:30
Client Smp ID: Y3-RC08-S MSD
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	216988	108494	433976	204169	-5.91
27 Naphthalene-d8	799420	399710	1598840	716085	-10.42
42 Acenaphthene-d10	390056	195028	780112	347128	-11.01
59 Phenanthrene-d10	573879	286940	1147758	445087	-22.44
69 Chrysene-d12	366829	183414	733658	379842	3.55
134 Di-n-octylphthala	621709	310854	1243418	569409	-8.41
77 Perylene-d12	428868	214434	857736	403137	-6.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.89	0.04
27 Naphthalene-d8	8.90	8.40	9.40	8.90	-0.03
42 Acenaphthene-d10	11.73	11.23	12.23	11.74	0.02
59 Phenanthrene-d10	14.08	13.58	14.58	14.09	0.06
69 Chrysene-d12	18.37	17.87	18.87	18.39	0.13
134 Di-n-octylphthala	19.59	19.09	20.09	19.61	0.12
77 Perylene-d12	20.51	20.01	21.01	20.55	0.20

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: Tetra Tech
Sample Matrix: SOLID
Lab Smp Id: KZ56HMSD
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20070526.b/SW846.m
Misc Info: 07-9554

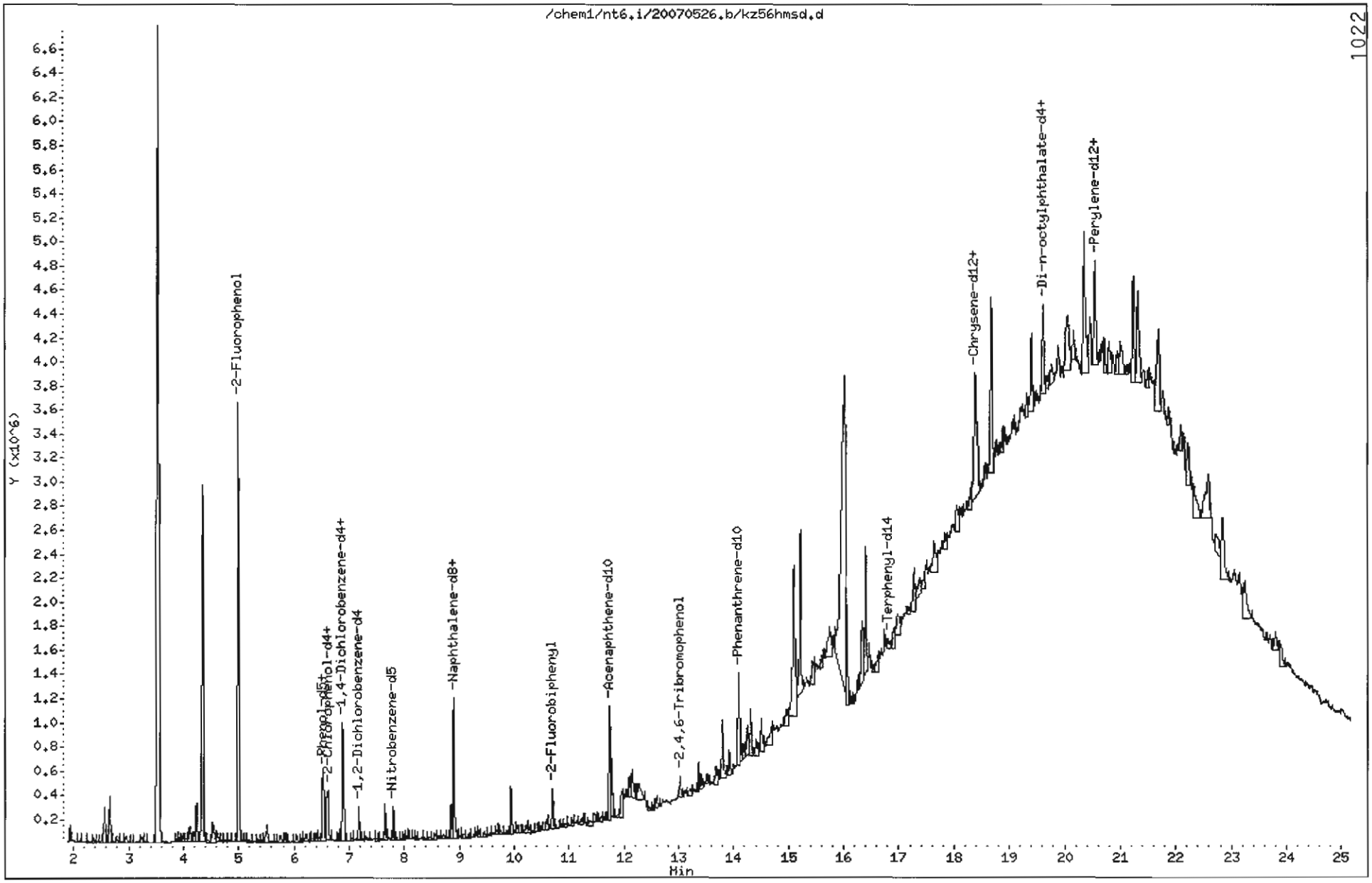
Client SDG: KZ56
Fraction: SV
Client Smp ID: Y3-RC08-S MSD
Operator: LJR/VTS
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	1437	1054	73.37	32-121
6 2-Chlorophenol	1437	1001	69.64	39-111
9 1,4-Dichlorobenzen	957.9	621.7	64.90	34-88
16 N-Nitroso-di-n-pro	957.9	790.3	82.51	24-100
26 1,2,4-Trichloroben	957.9	695.4	72.60	41-91
31 4-Chloro-3-methylp	1437	1078	75.04	48-110
44 Acenaphthene	957.9	799.6	83.47	48-108
47 4-Nitrophenol	1437	785.1	54.64	27-155
48 2,4-Dinitrotoluene	957.9	768.9	80.28	30-124
58 Pentachlorophenol	1437	1061	73.86	28-151
65 Pyrene	957.9	2930	305.94 *	10-153
73 Di-n-octylphthalat	957.9	852.5	89.01	36-108
80 Benzo(g,h,i)peryle	957.9	969.2	101.18	36-108

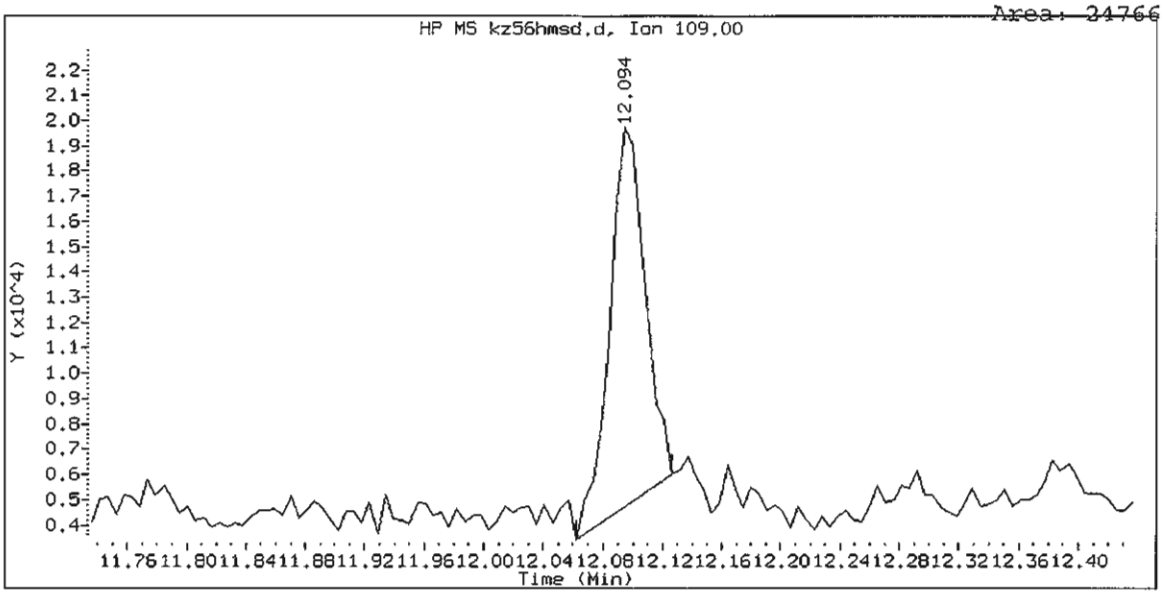
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1437	873.0	60.76	22-91
$ 2 Phenol-d5	1437	1086	75.61	26-99
$ 5 2-Chlorophenol-d4	1437	1097	76.37	29-96
$ 10 1,2-Dichlorobenzen	957.9	717.4	74.90	24-87
$ 18 Nitrobenzene-d5	957.9	792.3	82.71	27-101
$ 36 2-Fluorobiphenyl	957.9	779.9	81.42	30-100
$ 55 2,4,6-Tribromophen	1437	1135	79.01	20-114
$ 66 Terphenyl-d14	957.9	725.8	75.77	12-120

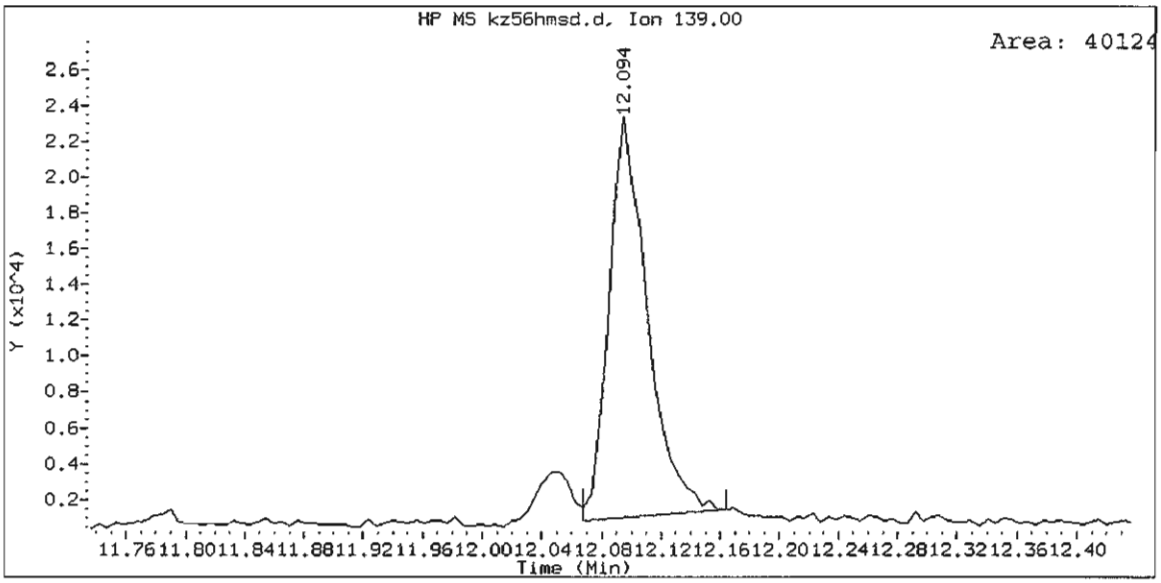
Data File: /chem1/nt6.i/20070526.b/kz56hmsd.d
Date : 26-MAY-2007 18:16
Client ID: Y3-RC08-S MSD
Sample Info: KZ56HMSD,3
Volume Injected (uL): 1.0
Column phase: ZB-5

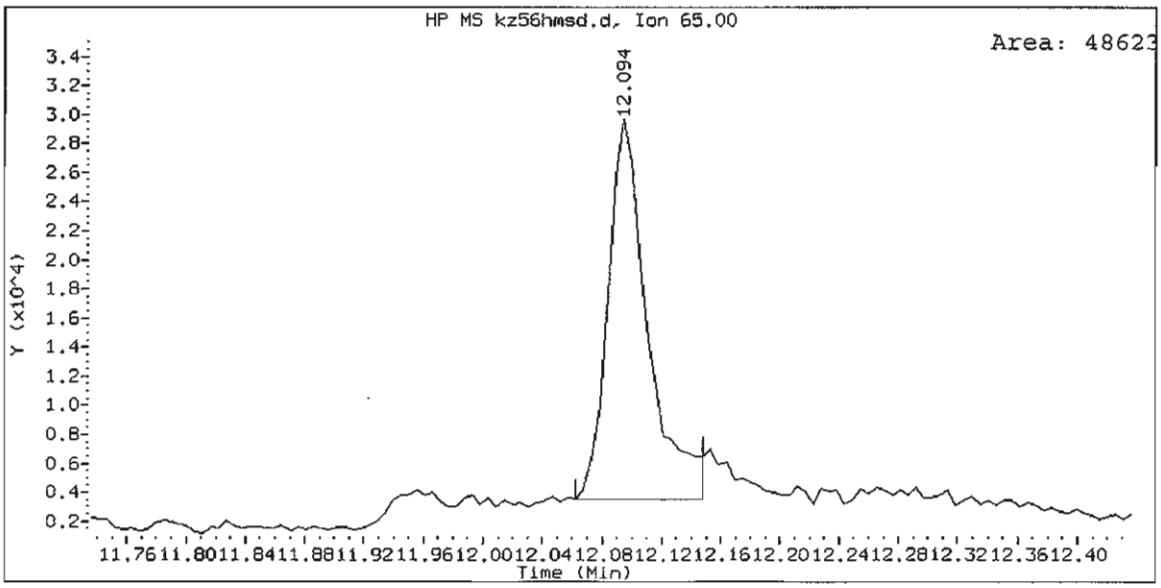
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



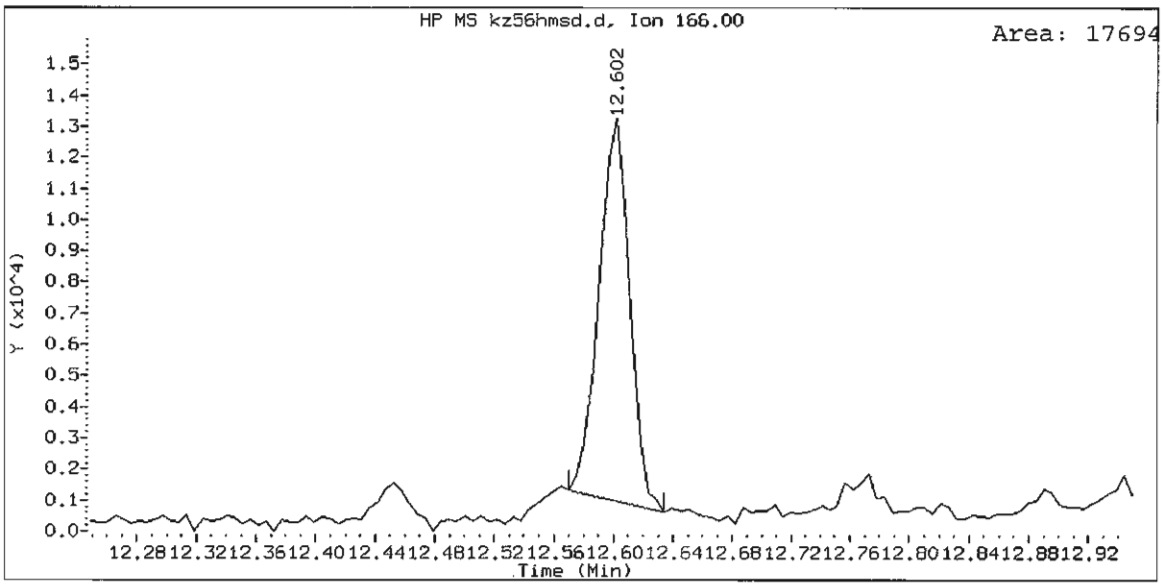
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
4-Nitrophenol Amount: 6.83

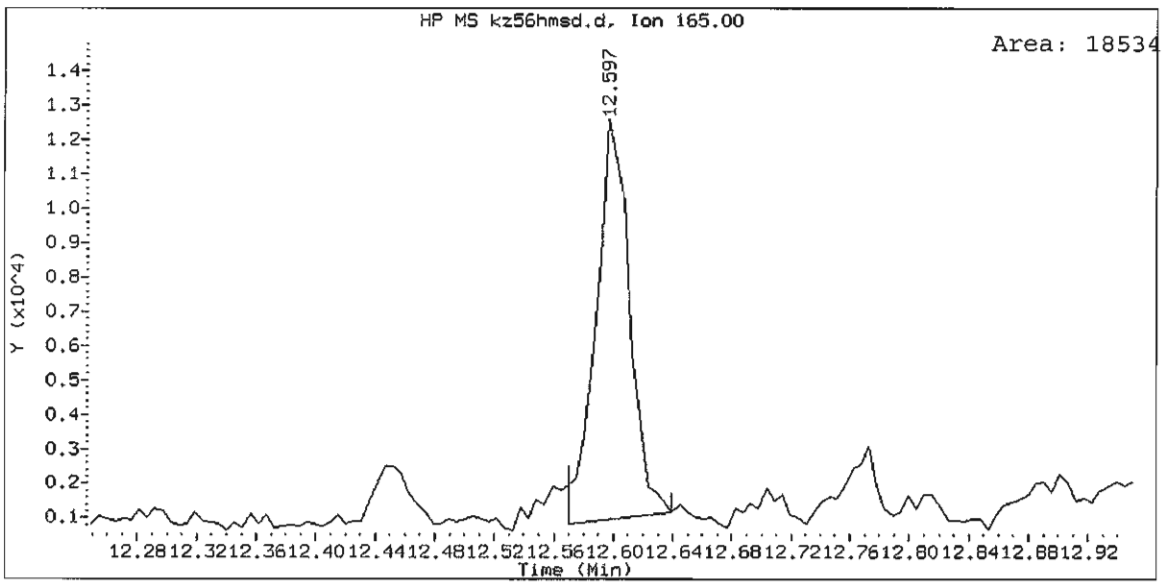


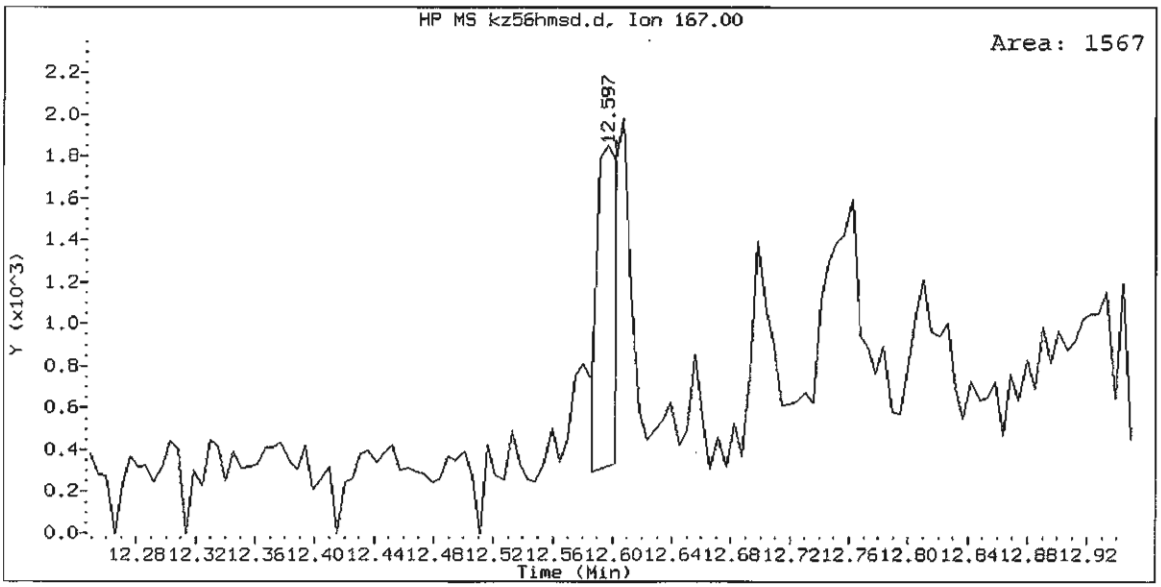




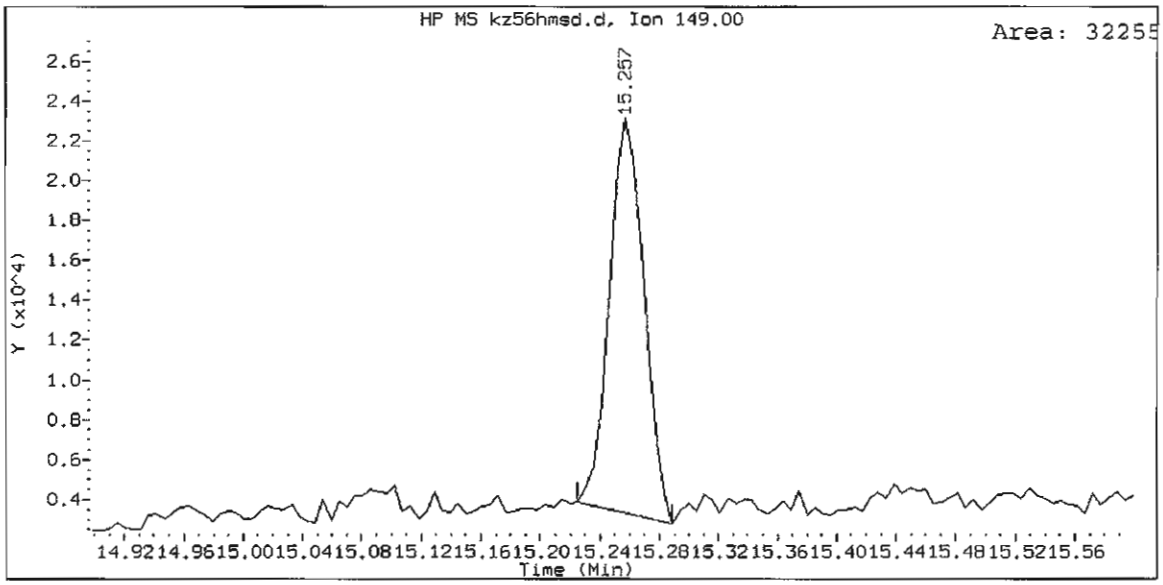
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Fluorene Amount: 0.76

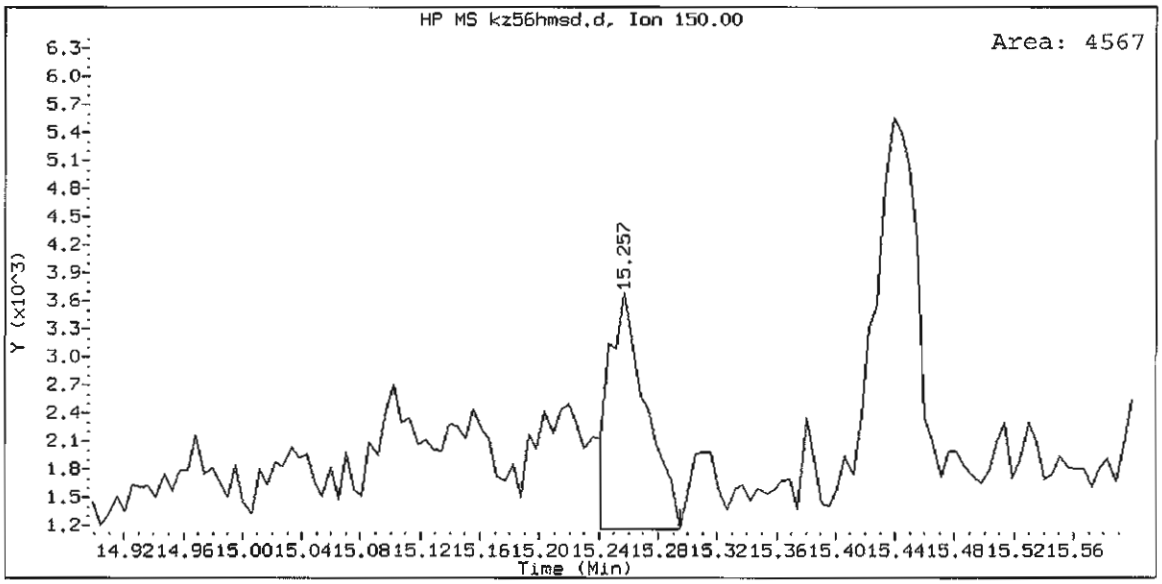


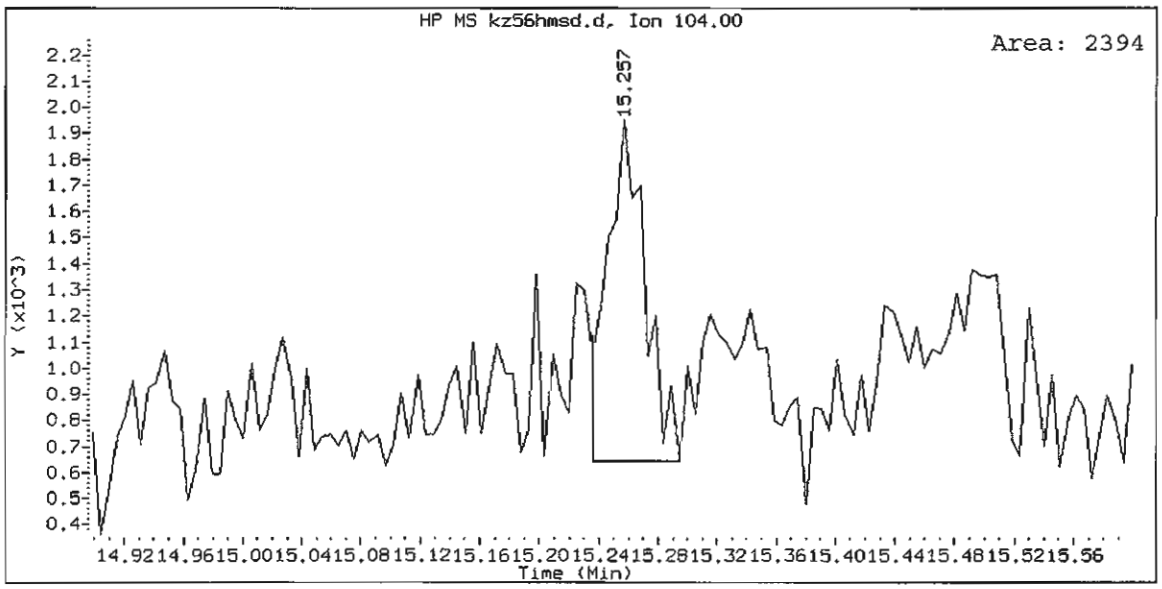




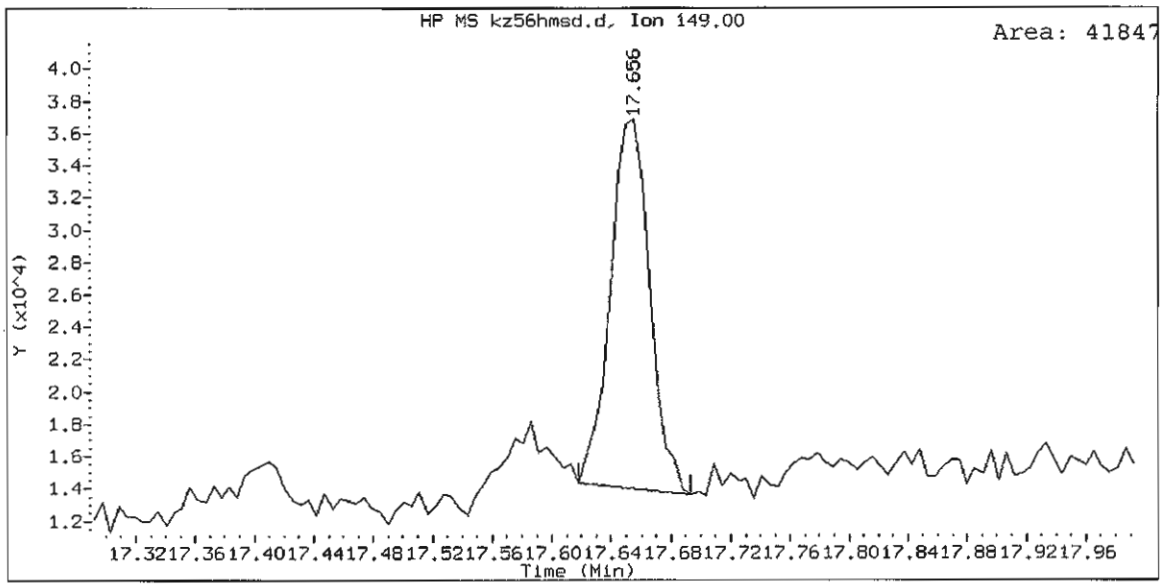
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Di-n-butylphthalate Amount: 0.99

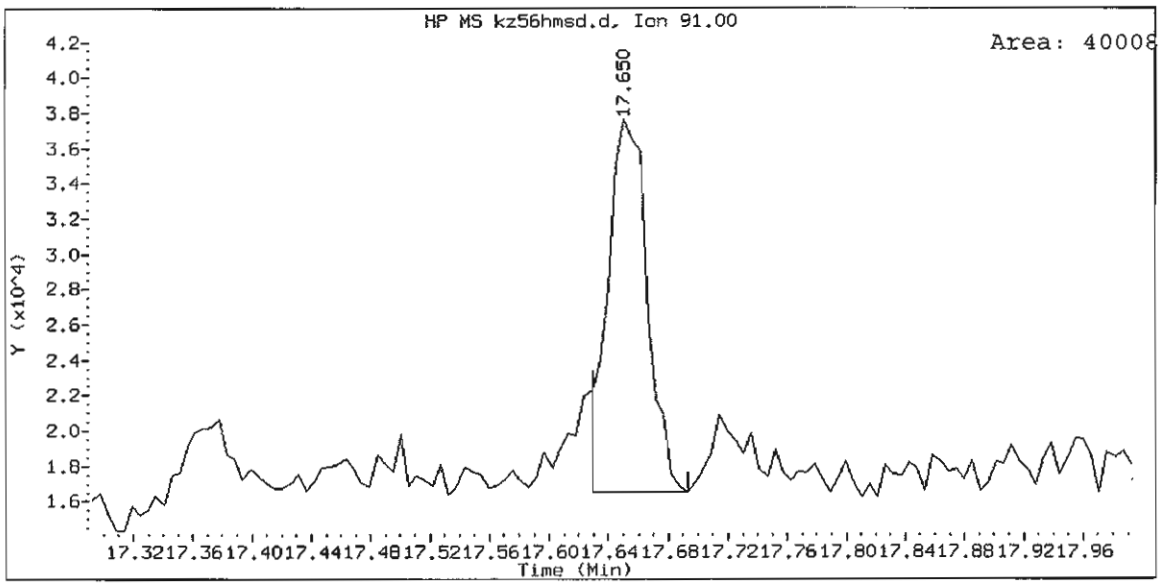


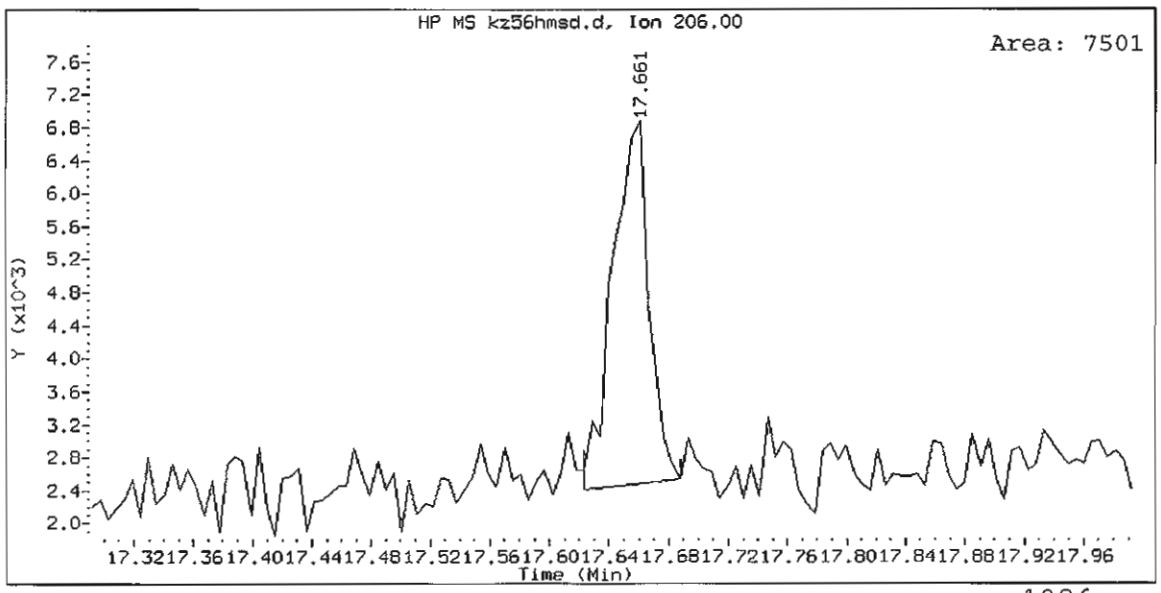




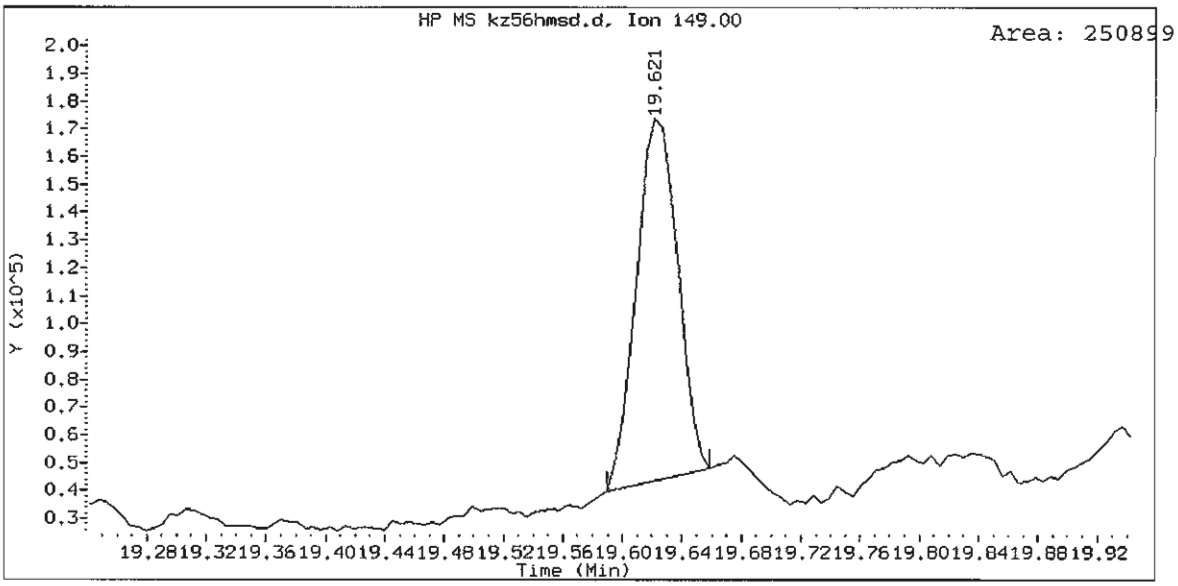
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Butylbenzylphthalate Amount: 2.82

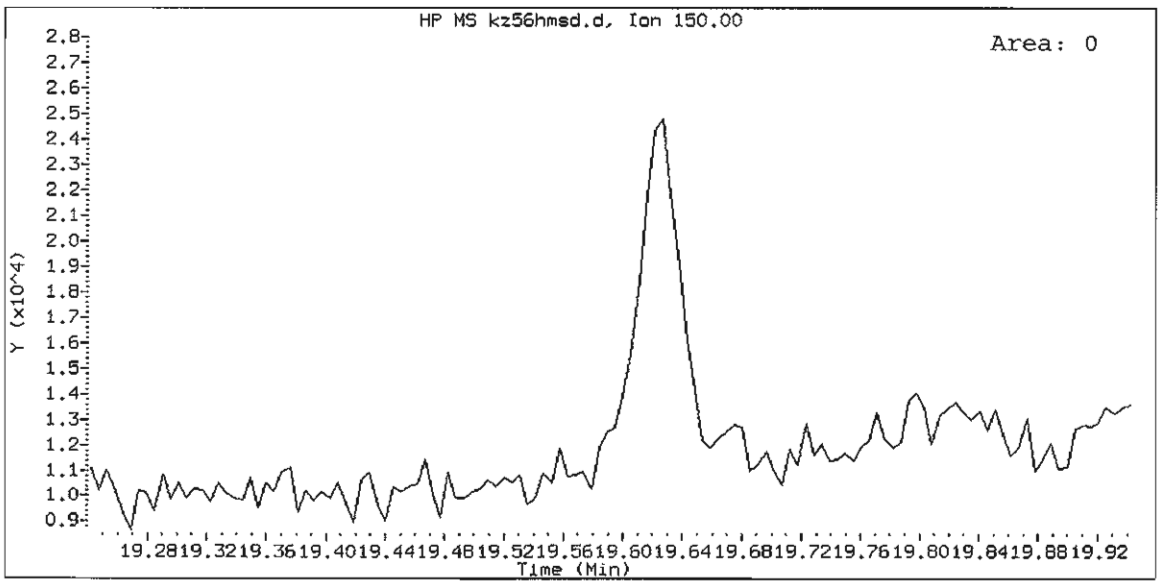


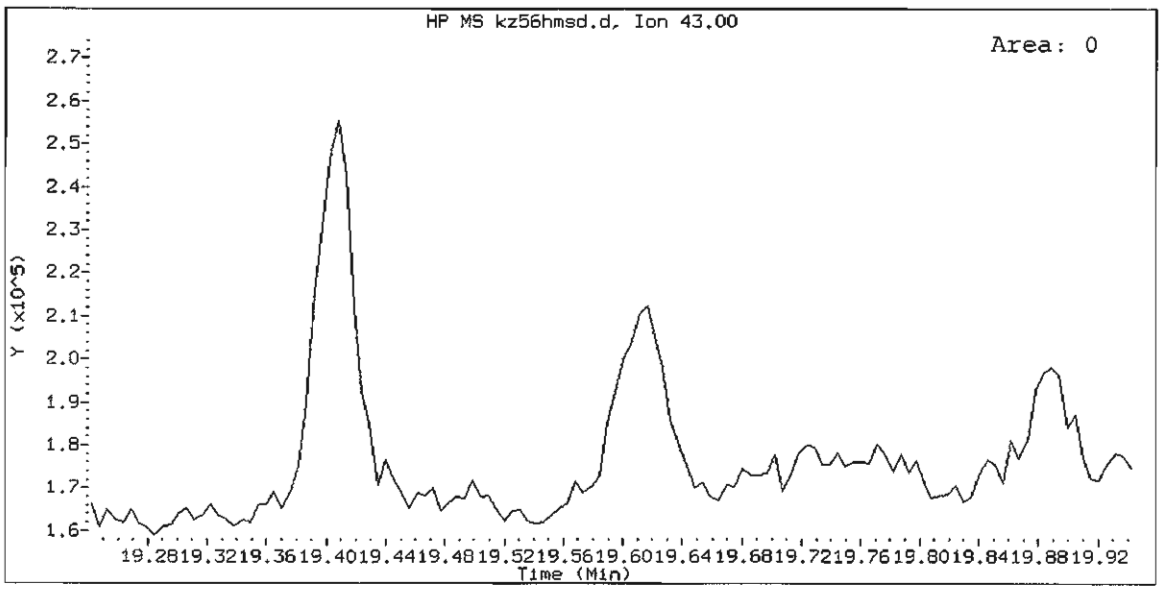




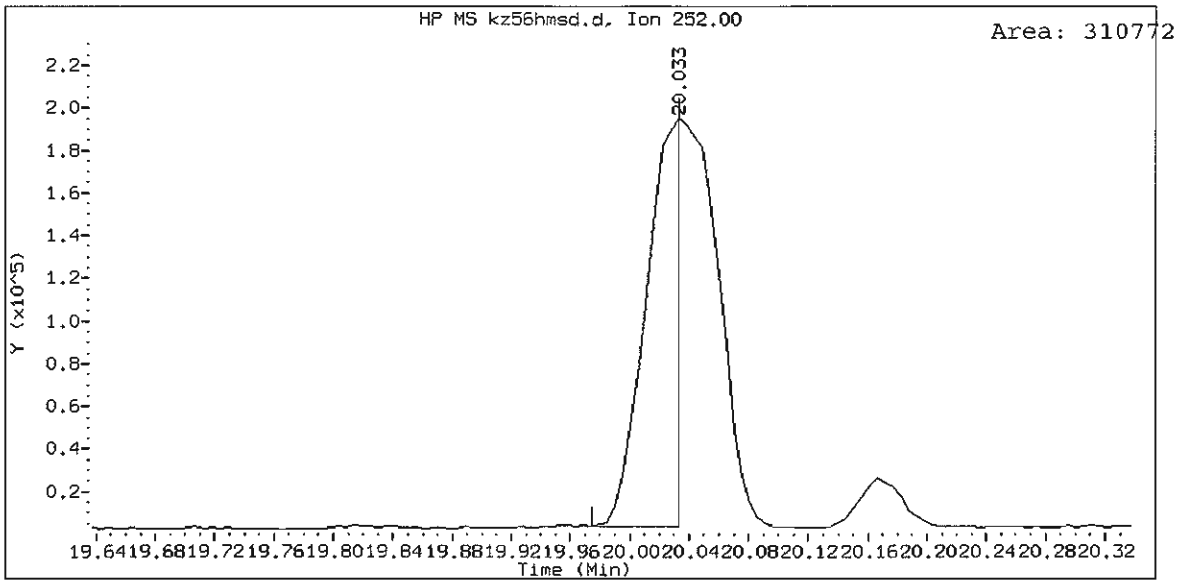
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Di-n-octylphthalate Amount: 7.42

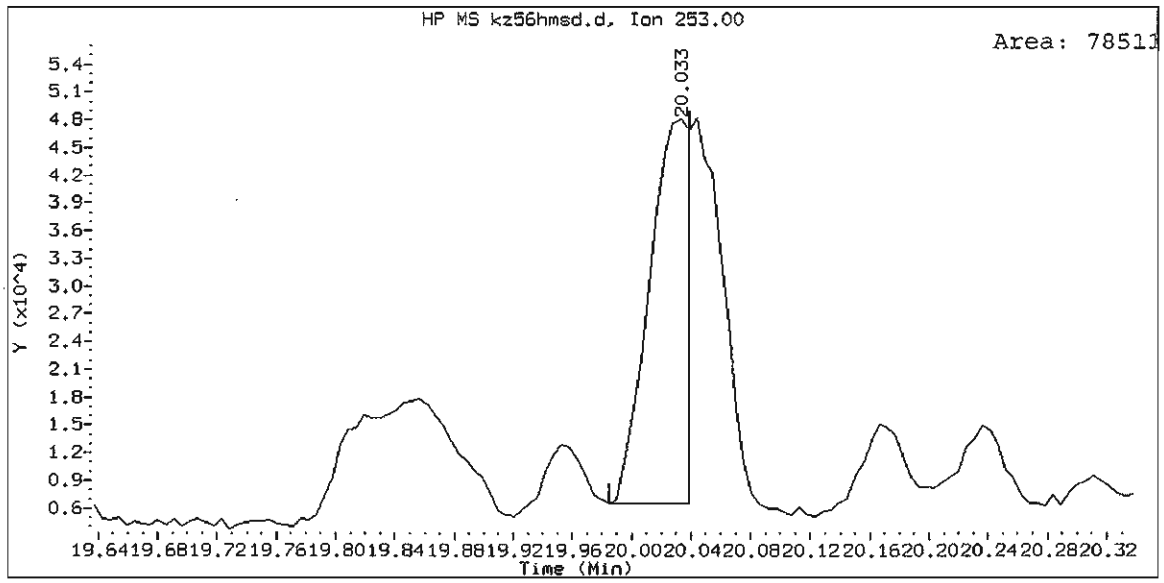


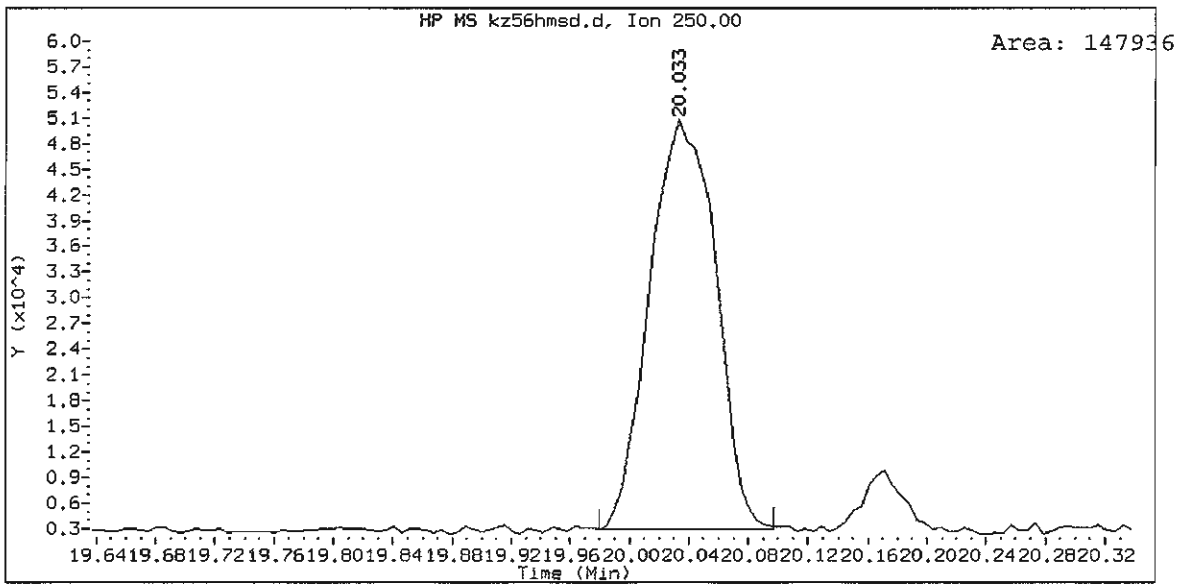




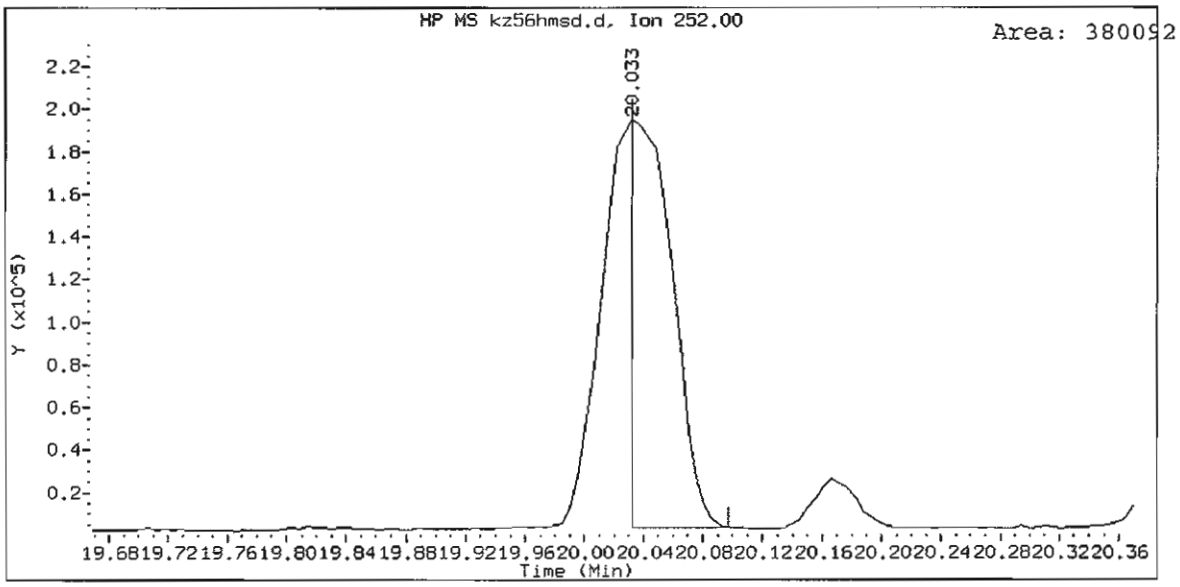
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Benzo(b)fluoranthene Amount: 11.89

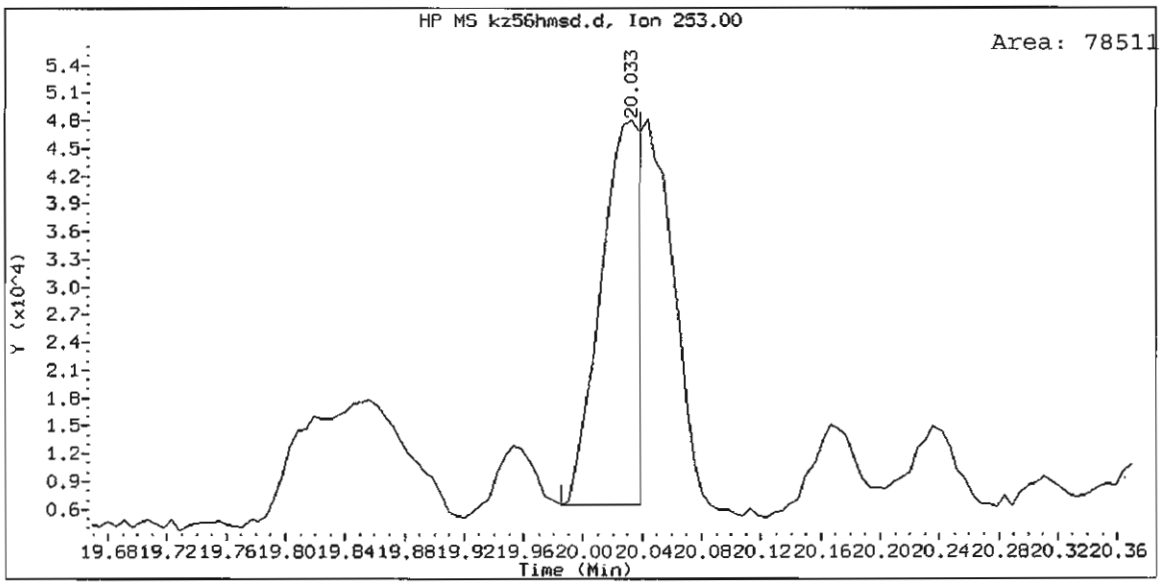


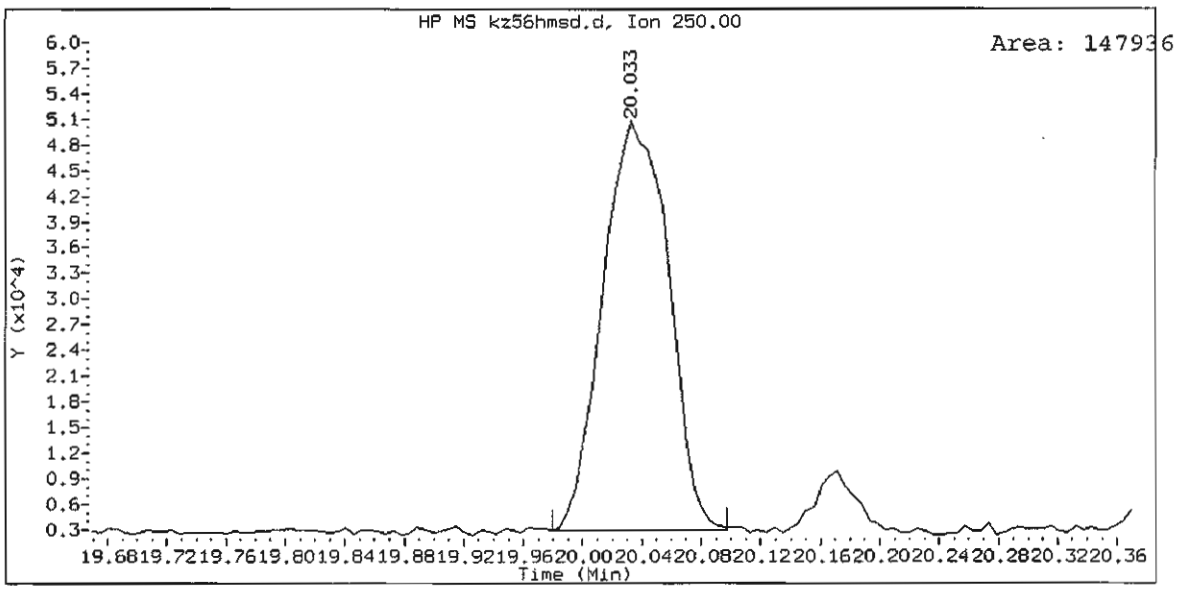




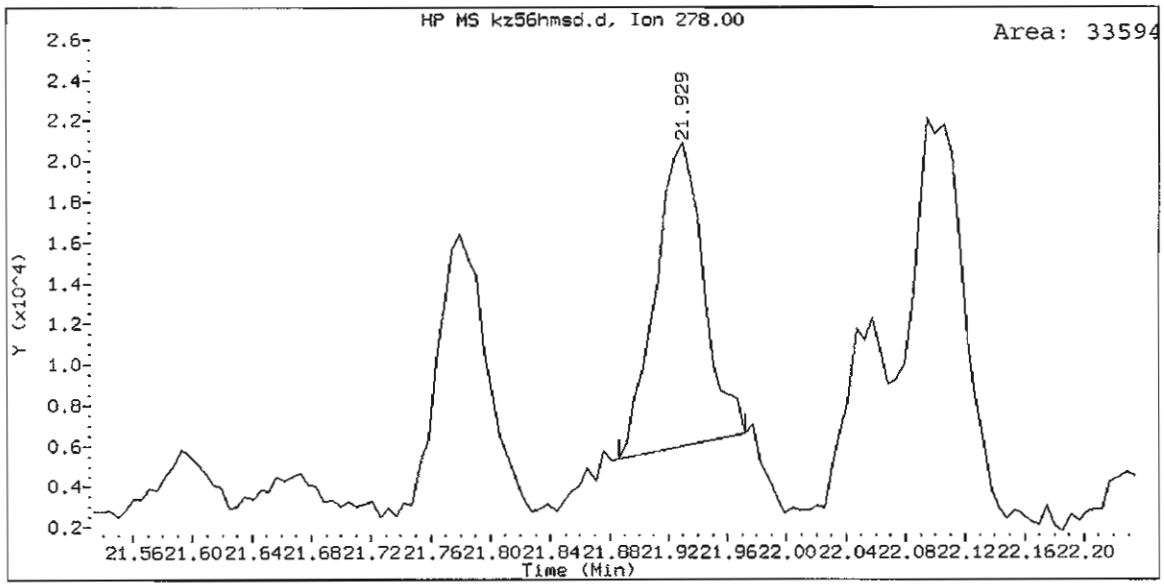
KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Benzo(k)fluoranthene Amount: 15.14

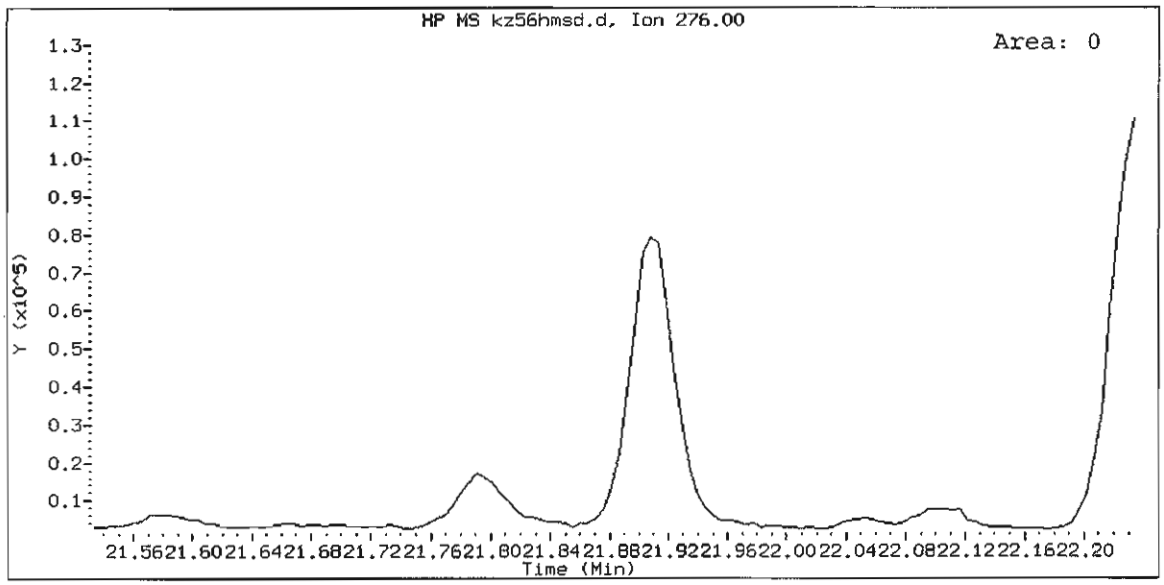


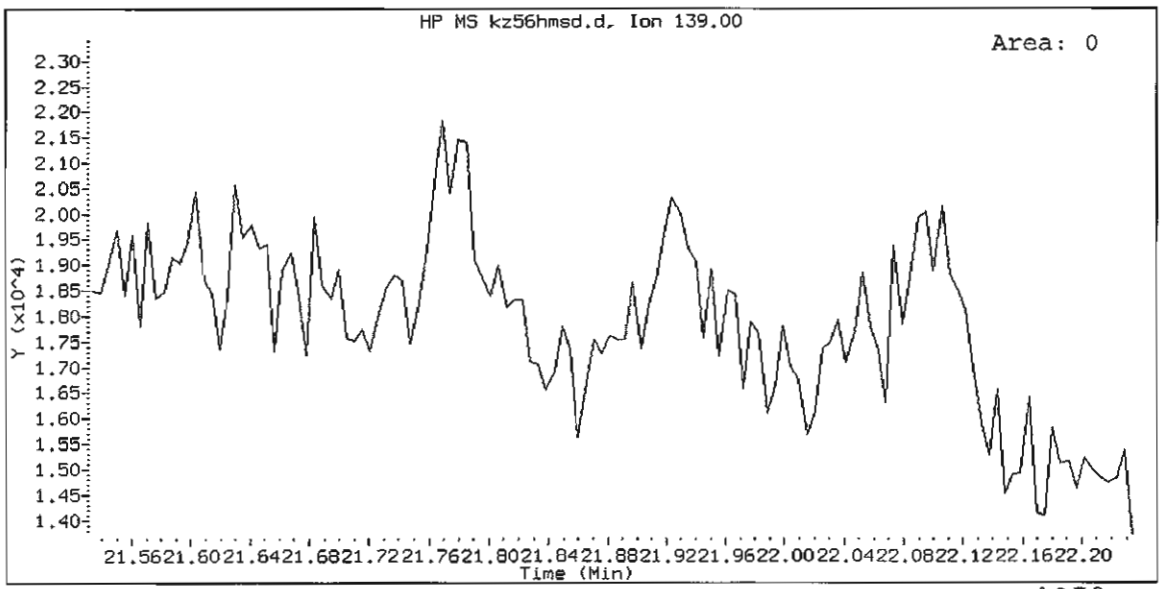




KZ56HMSD, /chem1/nt6.i/20070526.b/kz56hmsd.d
Dibenzo(a,h)anthracene Amount: 1.31







Semivolatile Organics
Extraction Bench Sheets/Run Logs

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8270 BAN / Skydrol/BHT / Phenol – Water / TCLP

		In-House	X	**Low Level**	
QA LIMs #				Sep Funnel	
EXT LIMs #				Liquid/Liquid	X
Bid #	SV05Z1A-01			KD	X
ARI Job No(s)	KZ60/KZ56			TurboVap	X

Client Name / Project ID
Floyd / Snider
Tetra Tech

Extraction Requirements	Verify Client ID	Volume Extracted	KD	Final Effective Volume	Volume to Lab	Comments
MB: KZ60mbw	5/21/07	500 ml		0.5 ml	0.5 ml	
SB: sbw						
sbdup						
T	checked					
KZ56 O						
Analyst/Date:		5/21 PC	CS 5/21	TAH 5/23		

Spike	Spike ID	Volume	Conc	Analyst	Witness	Solvent / Reagent	ID
Surrogate	1443-3B	125 µL	100/150 µg/mL	PC	WW	Na_2SO_4 ID:	
LCS	1456-4A	125 µL	100 µg/mL	PC	WW	(DCM) CH_2Cl_2 ID:	#3759
LCS(extra)	1444-1	125 µL	200 µg/mL	PC	WW	10 N NaOH:	
	1438-7	125 µL	100/200 µg/mL	PC	WW	1:1 H_2SO_4:	F699
MS/MSD		µL	µg/mL				
Extraction Time: 16:45		Liq/Liq Start: 1655	Liq/Liq Stop:				

9585
9561

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: KZ56

Client ID: Tetra Tech

Parameter: BAN

Client Project: Thea Foss QMMP Year 3

SOP Number(s): 3445

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		**Date:**	

3056F

Revision 006
1/12/07

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet
8270 BAN / Skydrol / Phenol – Soil/ Sediment/ Tissue

	In-House		PSDDA	X	Client Name / Project ID
QA LIMs #			Macrotip	X	Tetra Tech
EXT LIMs #			Tissuemizer		
Bid #	SV0521A-01		KD	X	
ARI Job No(s)	KZ56		TurboVap	X	

Extraction Requirements	Verify Client ID	Volume Extracted	GPC (Y/N)	KD	Final Effective Volume	Volume to Lab	Comments
MB: KZ56MB5	5/22/07	50.00g	1:2		1mL	0.5mL	
SB: SB5		50.00g					
SB5d		50.00g					
A	Checked	94.08g					See Notes
B		72.08g					
C		58.06g					
D		46.06g					
E		60.08g					
F		72.04g					
G		55.02g					
H		50.06g					
Hms		50.06g					
Hmsd		50.04g					
I		51.06g					
J		47.04g					
K		44.02g					
L		64.04g					
M		50.02g					
N		59.06g					
P		65.06g					
Analyst/Date WW 5/22/07			RC 5/24	KD 1080 20 L 07		TAH 5/26	

Spike	Spike ID	Volume	Conc		Analyst	Witness	Solvent / Reagent	ID
Surrogate	1443-3B	250 µL	100/150	µg/mL	WW	GAH	Na_2SO_4 ID:	5/8/07
LCS	1456-4A	250 µL	100	µg/mL	WW	GAH	(DCM) CH_2Cl_2 ID:	I 3759
LCS(extra)	1438-2	250 µL	100/200	µg/mL	WW	GAH	1:1 DCM/ACE ID:	F718, F719
LCS	1444-1	250 µL	200	µg/mL	WW	GAH	Hexane:	N/A
MS/MSD	1423-3A	250 µL	100/150	µg/mL	WW	GAH	0.05% HCl/Acetone:	F701
Extraction Time: 15:20							Neutral Glasswool:	2/27 #7

955X

3009F

Revision 9
01/03/2007

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: Kz56

Client ID: Tetra Tech

Parameter: PSSDA SVOA

Client Project: Thea Foss Ommp Year 3

SOP Number(s): 874 S

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Samples A-P have a strong smell of sulfur AR 5/22/07

Samples KZ56A-B, samples split into two Beakers for sonication due to Volume. WW 5/22/07

Analyst Initials:		Date:	

3056F

Revision 006
1/12/07

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet
8270 BAN / Skydrol / Phenol – Soil/ Sediment/ Tissue

In-House		PSDDA	X	Client Name / Project ID
QA LIMs #		Macrotip	X	Seattle Public Utilities (LB02)
EXT LIMs #		Tissuemizer		Tetra Tech (KZ56(N))
Bid #	SV0522A-02	KD	X	
ARI Job No(s)	LB02, KZ56(N)	TurboVap	X	

Extraction Requirements	Verify Client ID	Volume Extracted	GPC (Y) N	KD	Final Effective Volume	Volume to Lab	Comments
MB: LB02MBS	6/1/07	50.00g	1:2		1mL	0.5mL	
SB: SBS		50.00g					
A	Checked	7.00g					
B		30.02g					
KZ56 N_2		59.14g					
Analyst/Date 6/1/07 WW			SP 6/4/07	WW 6/2	SP 6/4/07 KD: SL 6/4/07	TAH 6/4/07	

10591

Spike	Spike ID	Volume	Conc	Analyst	Witness	Solvent / Reagent	ID
Surrogate	1457-4A	250 µL	100/150 µg/mL	WW	SAE	Na_2SO_4 ID:	5/22 #7
LCS	1456-4A	250 µL	100 µg/mL	WW	SAE	(DCM) CH_2Cl_2 ID:	~~F725~~ I3769
LCS(extra)	1444	250 µL	200 µg/mL	WW	SAE	1:1 DCM/ACE ID:	F725
	1438-2	250 µL	100/200 µg/mL	WW	SAE	Hexane:	N/A
MS/MSD		µL	µg/mL			0.05% HCl/Acetone:	F701
Extraction Time: 19:10						Neutral Glasswool:	3/12 #7

3009F

Revision 9
01/03/2007

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: KZ56 (RX)

Client ID: Tetra Tech

Parameter: BAN PSDDA

Client Project: Thea Foss OMMP Year 3

SOP Number(s): 3745

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Following sonication extracts where filtered into 500mL beakers, realized mistake and transferred product to 500mL Erlenmeyer flask, rinsed w/ DCM several times, no apparent loss of product
-SAE 6/1/07

Analyst Initials:		**Date:**	

3056F

Revision 006
1/12/07

Analytical Resources, Incorporated
Analytical Chemists and Consultants

REQUEST FOR RE-EXTRACTION / RE-ANALYSIS
(Organic Analyses)

Todays Date: 5/31/07 **Client Name:** Tetra Tech

ARI Project Number: KZ56 **Client Project:** Thea Foss

Analysis: DANs **Turn Around Time:** ASAP

Project Manager: Sue D. **Date Sampled:** 5/17/07

Criteria Flagged

Unacceptable Blank:		Unacceptable Surrogate:	X
Unacceptable Duplicate:		Instrument Problem:	
Unacceptable Spike:		Other:	
Overwrite LIMS:		Enter as Re-extract:	

Details of Problem / Recommended Corrective Action

Low surrogates in N

Samples Affected

N

Corrective Action Taken

Re-extract

Analyst: Jeff Ubersen **Supervisor:**
Date: 5/31/07 **Date:**

Form 0030F

Revision 4
5/12/05

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GPC 2 Log

Date: 5/24/07 Initial Run Number: 1

Analyst: PC

Loop Number	ARI Lab ID	Aliquot Loaded
1	DCM rinse	1:1 (10mL)
2	KZ56 mbs	1:2 (2mL)
3	A	
4	B	
5	C	
6	D	
7	E	
8	F	
9	G	
10	H	
11	I	
12	J	
13	K	
14	L	
15	M	
16	N	
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 6.8 mL/min
(Average of two measurements)

Method

BAN program		PCB Program
13	Dump	
28	Collect	
31	Wash	

Stop Time: 31.25

Analyst: PC

Lab Temp 73.8 (64 - 77°F)

Collection Line Witness SP 5/25/07 Before Run After Run

Analytical Resources,Incorporated
Analytical Chemists and Consultants

GPC 2 Log

Date: 5-25-07 Initial Run Number: 2

Analyst: SP

Loop Number	ARI Lab ID	Aliquot Loaded
1	DCM Rinse	1:1 (10mL)
2	KZ56 P	1:2 (2mL)
3	DCM Rinse	1:1 (10mL)
4	KZ56 SBS	1:2 (2mL)
5	KZ56 SBS dup	
6	KZ56 HMS	
7	KZ56 HMSD	
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 6.9 mL/min
(Average of two measurements)

Method

BAN program		PCB Program
13	Dump	
28	Collect	
31	Wash	

Stop Time: 31.25

Analyst: SP

Lab Temp 68.9° (64 - 77°F)

Collection Line Witness

Before Run

After Run

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

Project ID: NTG Curve Client ID: Various

SOP: 801S(SIM-PNA) 802S(BTS-HX) 803S(BTS-PW) 804S(8270D) 805S(BTS-ET)

ameter(s): BANs

rument: NT-1 NT-2 NT-4 NT-6

ve Date: 5/3/07 Analysis Start Date: ——

PP Tune Meets Criteria?	YES / NO	Method Blank in Control?	~~YES / NO~~
T Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
k Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	~~YES / NO~~
Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
l Meets RF & %RSD Criteria?	~~YES / NO~~	Special Analysis Criteria Met?	YES / NO / NA
nal Standard Meets Criteria?	YES / NO		

il problems, corrective actions and/or other pertinent information below (use reverse side n necessary): - 2,4-Dinitrophenol's RSD 74%. Wouldn't linear fit. Left as average.

- N-Nitrosodiphenylamine @ 63% in ICV.

- Curve 1-40 / 5-40 on column (acid/acids 10-80)

LJK
5/8/07

tional Details on Reverse: Yes / No

/st Signature: Jeff Robertson **Date:** 5/8/07

ewer's Signature: [illegible] **Date:** 5/31/07

Analytical Resources Inc.: Organics Instrument Log

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

Date: 5/3/07 Analysis: BANS Analyst: LJK

GC Program: ABN Column No: 122191 Column Type: ZB-5

Instrument Tune (.U or .CT.): 070503 EM Voltage: 1624

Calibration File: 0250503 Curve Date: 5/3/07

IS/SS	Ical/Ccal	LCS/ICV
1449-3	1433-2,3	1417-3
	1434-1,2	1418-1,2
	1431-2	

	Time	Filename	LabID	ClientId	DF															
1	1033	0250503.d	ABN 25		1	7.35	136565	9.37	497815	12.23	245165	14.60	363763	18.91	285968	21.07	427729	20.08	466956	
2	1105	0400503.d	ABN 40		1	7.35	158118	9.37	569574	12.23	269736	14.60	404084	18.91	300210	21.07	470160	20.08	478094	
3	1138	0050503.d	ABN 5		1	7.35	166928	9.37	605560	12.23	293580	14.59	416198	18.91	348063	21.06	472766	20.08	533495	
4	1211	0300503.d	ABN 30		1	7.36	164506	9.37	593696	12.23	284708	14.59	416063	18.91	311444	21.07	470085	20.09	495882	
5	1243	0010503.d	ABN 1		1	7.35	170724	9.37	617004	12.23	309435	14.59	440473	18.90	361295	21.06	477869	20.09	543854	
6	1316	0100503.d	ABN 10		1	7.35	163791	9.37	601010	12.22	291316	14.60	422770	18.91	326133	21.07	458872	20.08	513939	
7	1351	0800503.d	ABN 80		1	7.36	159261	9.38	578427	12.23	256929	14.61	400761	18.92	286398	21.07	507290	20.09	451999	
8	1424	icv0503.d	ABN ICV		1	7.35	150884	9.37	557215	12.23	266764	14.60	389090	18.91	295202	21.06	446724	20.08	473389	
9	1508	ku93mb.d	KU93MBW1		1	7.35	161193	9.37	578056	12.22	291758	14.60	429820	18.91	364369	20.09	546864	21.06	470903	
10	1541	ku93sb.d	KU93LCSW1		1	7.35	172992	9.37	643119	12.23	288010	14.59	450955	18.91	290663	20.09	505879	21.06	476322	
11	1614	ku93an.d	KU93AN		1	7.35	170642	9.37	616971	12.23	315006	14.60	482695	18.93	357292	20.08	604586	21.07	543937	
12	1647	ku93ao.d	KU93AO		1	7.35	164429	9.37	616412	12.23	306254	14.59	449214	18.90	312372	20.08	499069	21.07	503707	
13	1721	ku93ap.d	KU93AP		1	7.35	177101	9.37	635364	12.22	260211	14.59	434778	18.90	347556	20.08	494280	21.06	462086	
14	1754	ku93andl.d	KU93AN		10	7.35	168975	9.37	620509	12.22	309346	14.60	454240	18.91	363267	20.08	544256	21.06	486623	
15	1827	ku93aodl.d	KU93AO		10	7.35	176554	9.37	649568	12.22	323332	14.60	475456	18.91	382944	20.08	571119	21.06	515133	
16	1900	ku93apdl.d	KU93AP		10	7.35	167654	9.37	614000	12.22	295103	14.59	451522	18.90	384339	20.08	569009	21.06	499450	

LJK 5/8/07

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal. Cleaned MS source block and lenses.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250503

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

Project ID: KZ56 Client ID: Tetra Tech

SOP: 801S(SIM-PNA) 802S(BTS-HX) 803S(BTS-PW) 804S(8270D) 805S(BTS-ET)

ameter(s): BANs

rument: NT-1 NT-2 NT-4 NT-6

ve Date: 5/3/07 Analysis Start Date: 5/25/07

PP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
k Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
I Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
nal Standard Meets Criteria?	YES / NO		

il problems, corrective actions and/or other pertinent information below (use reverse side n necessary): -All samples started at 3x dil. to extract color and thickness.

-low surrogates in [redacted] sent for re-extraction.

LTC
5/31/07

ional Details on Reverse: Yes / No

rst Signature: Jeff Robertson Date: 5/31/07

wer's Signature: [illegible] Date: 5/31/07

Analytical Resources Inc.: Organics Instrument Log

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

Date: 5·25·2007 Analysis: BANs Analyst: LTK

GC Program: ABNIUL Column No: 122191 Column Type: ZB-5

Instrument Tune (.U or .CT.): 070503 EM Voltage: 1624

Calibration File: cc0525 Curve Date: 5/3/07

IS/SS	Ical/Ccal	LCS/ICV
1449-3	1433-2,3	
	1434-1,2	
	1431-2	

	Time	Filename	LabID	ClientId	DF															
1	1059	cc0525.d	ABN 25		1	6.89	198067	8.91	714729	11.74	346560	14.09	502123	18.37	340564	20.51	376651	19.59	567119	
2	1132	la10sbd2.d	LA10LCSDS1	LA10LCSDS1	1	6.89	200833	8.90	734206	11.74	338131	14.09	513233	18.37	342783	19.59	617191	20.51	396773	
3	1346	la39mb.d	LA39MBS1	LA39MBS1	1	6.89	207337	8.90	753243	11.73	383268	14.08	530862	18.36	385000	19.58	617047	20.50	379038	
4	1419	la39sb.d	LA39LCSS1	LA39LCSS1	1	6.89	211989	8.90	769347	11.74	361344	14.09	542398	18.37	375561	19.59	622679	20.50	403558	
5	1452	la39sbd.d	LA39LCSDS1	LA39LCSDS1	1	6.89	209410	8.90	768425	11.74	366945	14.09	527787	18.37	377071	19.59	615432	20.51	425122	
6	1631	la39b.d	LA39B	PL2CS-2-64-10-0040-	1	6.89	217702	8.90	778602	11.73	398857	14.08	564767	18.36	418076	19.58	682142	20.50	414432	
7	1704	la39c.d	LA39C	PL2CS-2-64-11-0060-	1	6.89	211771	8.90	742436	11.73	373172	14.08	522497	18.37	422750	19.59	691508	20.51	447209	
8	1737	la39d.d	LA39D	PL2CS-2-64-12-0040-	1	6.89	197530	8.90	700902	11.73	350101	14.08	489273	18.36	401506	19.58	659666	20.50	446134	
9	1810	la39e.d	LA39E	PL2CS-2-64-13-0060-	1	6.89	214629	8.90	762781	11.73	379202	14.08	533681	18.37	426593	19.59	700633	20.50	469562	
10	1843	la39f.d	LA39F	PL2CS-2-64-14-0105-	1	6.89	208400	8.90	751792	11.74	366999	14.09	506406	18.37	401062	19.58	645849	20.50	293795	
11	1916	la39g.d	LA39G	PL2CS-2-64-15-0040-	1	6.88	212557	8.90	766324	11.74	379615	14.09	527061	18.37	406703	19.58	656550	20.50	446852	
12	1949	la39gms.d	LA39GMS	PL2CS-2-64-15-0 MS	1	6.88	212152	8.90	756532	11.73	372479	14.08	513680	18.36	403236	19.58	639580	20.50	456960	
13	2022	la39gmd.d	LA39GMSD	PL2CS-2-64-15-0 MSD	1	6.88	208074	8.90	749592	11.74	377860	14.09	519752	18.37	398769	19.58	628724	20.50	434562	

LTK 5/25/07

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0525

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

Analytical Resources Inc.: Organics Instrument Log

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

Date: 5·26·2007 Analysis: BANS Analyst: LJK

GC Program: ABNIVL Column No: 122191 Column Type: ZB-5

Instrument Tune (.U or .CT.): 070503 EM Voltage: 1624

Calibration File: CC0526 Curve Date: 5/3/07

IS/SS	Ical/Ccal	LCS/ICV
1449-3	1433-2,3	
	1434-1,2	
	1431-2	

	Time	Filename	LabID	ClientId	DF																		
1	0930	cc0526.d	CC0526		1	6.88	216988	8.90	799420	11.73	390056	14.08	573879	18.37	366829	19.59	621709	20.51	428868				
2	1009	kz44mb.d	KZ44MBS1	KZ44MBS1	1	6.89	229038	8.90	819748	11.74	415922	14.09	572868	18.37	432862	19.58	669605	20.50	439765				
3	1042	kz44sb.d	KZ44LCSS1	KZ44LCSS1	1	6.89	213010	8.90	775425	11.73	362681	14.08	530238	18.36	383987	19.59	629318	20.51	469965				
4	1115	kz44sbd.d	KZ44LCSDS1	KZ44LCSDS1	1	6.89	211772	8.90	783041	11.74	369880	14.09	553894	18.36	392714	19.59	652244	20.50	469763				
5	1148	la39e.d	LA39E	PL2CS-2-64-13-0060-	1	6.89	207987	8.90	741657	11.73	367843	14.08	515691	18.36	419090	19.58	623332	20.50	425232				
6	1222	gpcrinse.d	GPC#2 RINSE		1	6.88	216852	8.90	781399	11.74	387441	14.08	534451	18.36	409153	19.58	637104	20.50	466643				
7	1255	kz56mb.d	KZ56MBS1	KZ56MBS1	1	6.89	225962	8.90	819966	11.73	415980	14.08	579171	18.36	432110	19.58	680250	20.50	445653				
8	1329	kz56sb.d	KZ56LCSS1	KZ56LCSS1	1	6.88	212514	8.90	760621	11.73	349536	14.09	510914	18.36	369429	19.58	604119	20.50	473002				
9	1402	kz56sbd.d	KZ56LCSDS1	KZ56LCSDS1	1	6.88	214734	8.90	780731	11.73	362202	14.09	530520	18.36	378626	19.58	625062	20.50	453661				
10	1459	kz44a.d	KZ44A	SED1	1	6.88	230888	8.90	833363	11.74	413217	14.09	580271	18.37	423171	19.58	659418	20.50	429271				
11	1532	kz44b.d	KZ44B	SED2	1	6.89	221313	8.90	811220	11.73	407603	14.08	559091	18.36	405972	19.58	645604	20.50	390478				
12	1605	kz44c.d	KZ44C	SED3	1	6.88	213773	8.90	782100	11.73	385518	14.08	523579	18.36	408691	19.58	632097	20.50	428252				
13	1637	kz44d.d	KZ44D	SED4	1	6.89	226007	8.90	824871	11.73	415998	14.08	580350	18.36	423075	19.58	667964	20.50	414848				
14	1710	kz56h.d	KZ56H	Y3-RC08-S	3	6.89	216197	8.90	761566	11.74	364274	14.09	446314	18.38	367647	19.61	571803	20.54	414746				
15	1743	kz56hms.d	KZ56HMS	Y3-RC08-S MS	3	6.88	197867	8.90	694910	11.74	339685	14.09	443615	18.38	384787	19.61	597782	20.54	425301				
16	1816	kz56hmsd.d	KZ56HMSD	Y3-RC08-S MSD	3	6.89	204169	8.90	716085	11.74	347128	14.09	445087	18.39	378842	19.61	569409	20.55	403137				
17	1848	kz56a.d	KZ56A	Y3-RC11-S	3	6.89	203194	8.90	699128	11.74	328146	14.09	425001	18.41	355576	19.63	513441	20.57	324770				
18	1921	kz56b.d	KZ56B	Y3-RC01-S	3	6.89	184496	8.90	660753	11.74	318828	14.10	427653	18.40	337449	19.63	540662	20.57	311862				
19	1953	kz56c.d	KZ56C	Y3-RC13-S	3	6.89	207712	8.91	753784	11.74	365908	14.10	454227	18.40	347940	19.62	524962	20.56	296315				
20	2026	kz56d.d	KZ56D	Y3-RC14-S	3	6.89	206315	8.91	723564	11.75	356612	14.10	472546	18.40	405590	19.62	613256	20.55	341159				
21	2059	kz56e.d	KZ56E	Y3-RC10-S	3	6.89	222676	8.91	797530	11.74	399979	14.10	504734	18.39	389996	19.60	589992	20.54	360128				
22	2132	kz56f.d	KZ56F	Y3-RC05-S	3	6.89	218661	8.91	760689	11.74	373792	14.10	463435	18.40	385977	19.62	584381	20.56	322379				
23	2205	kz56g.d	KZ56G	Y3-RC07-S	3	6.89	215727	8.90	747344	11.75	360795	14.10	464987	18.40	391871	19.62	577591	20.55	313063				

Maintenance / Comments None

LJK 5/26/07

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0526

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

Analytical Resources Inc.: Organics Instrument Log

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

Date: 5/29/07 Analysis: BANs Analyst: LJK

GC Program: ABN 1UL Column No: 122191 Column Type: 5B-5

Instrument Tune (.U or .CT.): 070503 EM Voltage: 1624

Calibration File: cc0529 Curve Date: 5/3/07

IS/SS	Ical/Ccal	LCS/ICV
1449-3	1433-2,3	
	1434-1,2	
	1431-2	

	Time	Filename	LabID	ClientId	DF																
1	0847	cc0529.d	ABN 25		1	6.80	217686	8.82	775413	11.66	371068	14.00	554165	18.28	436021	20.42	622369	19.50	773344		
2	0920	kz56adl.d	KZ56A	Y3-RC11-S	10	6.80	228052	8.82	813350	11.65	402936	14.00	566329	18.29	505698	19.52	798012	20.44	556424		
3	0953	kz56bdl.d	KZ56B	Y3-RC01-S	10	6.80	233229	8.82	844285	11.65	424887	14.00	604498	18.28	499499	19.52	853358	20.43	586227		
4	1026	kz56cdl.d	KZ56C	Y3-RC13-S	5	6.81	235542	8.82	854264	11.65	441049	14.00	612303	18.30	480501	19.52	743570	20.45	511332		
5	1059	kz56fdl.d	KZ56F	Y3-RC05-S	5	6.81	227086	8.82	799898	11.66	403977	14.00	572997	18.30	520383	19.52	809872	20.45	565687		
6	1132	kz56g2.d	KZ56G	Y3-RC07-S	3	6.81	221303	8.82	785564	11.66	396898	14.01	522706	18.30	432415	19.52	654477	20.45	452737		
7	1205	kz56i.d	KZ56I	Y3-RC15-S	3	6.81	199772	8.82	724544	11.66	374362	14.01	566367	18.30	469342	19.53	702278	20.46	438267		
8	1239	kz56j.d	KZ56J	Y3-RC09-S	3	6.81	217767	8.82	768461	11.66	396918	14.01	543292	18.30	473573	19.53	710011	20.46	448600		
9	1312	kz56k.d	KZ56K	Y3-RC02-S	3	6.81	212801	8.83	759046	11.66	387774	14.01	541157	18.31	445636	19.54	684317	20.47	358842		
10	1346	kz56l.d	KZ56L	Y3-RC12-S	3	6.81	219630	8.83	786763	11.66	398320	14.01	539571	18.30	495938	19.53	748632	20.45	429920		
11	1420	kz56m.d	KZ56M	Y3-RC06-S	3	6.81	224294	8.82	804967	11.66	409950	14.01	550429	18.31	460852	19.53	684311	20.47	379907		
12	1453	kz56n.d	KZ56N	Y3-RC04-S	1	6.81	197078	8.82	699733	11.66	353654	14.01	504341	18.30	448647	19.53	671567	20.46	336929		
13	1526	kz56p.d	KZ56P	Y3-RC03-S	3	6.81	226968	8.82	806448	11.66	409074	14.01	538221	18.31	464564	19.53	692886	20.46	381451		
14	1600	kz56idl.d	KZ56I	Y3-RC15-S	5	6.81	219869	8.82	777145	11.66	400570	14.01	571036	18.30	497812	19.53	740616	20.45	391852		
15	1632	kz56jdl.d	KZ56J	Y3-RC09-S	5	6.81	222149	8.82	802352	11.66	412967	14.01	562443	18.30	481925	19.52	720057	20.45	388553		
16	1706	kz56kdl.d	KZ56K	Y3-RC02-S	5	6.81	217465	8.82	770336	11.66	399100	14.01	562745	18.30	476405	19.53	747808	20.45	353715		
17	1738	kz56mdl.d	KZ56M	Y3-RC06-S	5	6.81	198747	8.82	708240	11.66	375010	14.01	589653	18.30	488512	19.52	766718	20.45	347587		

LJK 6/28/07

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet 8091.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0529

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

Analytical Resources Inc.: Organics Instrument Log

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

Date: 6/6/07 Analysis: BANS Analyst: LJK

GC Program: ABN Column No: 122191 Column Type: ZB-5

Instrument Tune (U or .CT.): 070515 EM Voltage: 1624

Calibration File: CC0606 Curve Date: 5/3/07

IS/SS	Ical/Ccal	LCS/ICV
1449-3	1433-2,3	
	1434-1,2	
	1431-2	

	Time	Filename	LabID	ClientId	DF															
1	0814	cc0606.d	ABN 25		1	6.18	210566	8.20	738477	11.01	362869	13.33	499867	17.55	387597	19.66	508340	18.84	653887	
2	0847	lb77mb.d	LB77MBS1	LB77MBS1	1	8.19	778858	11.00	402240	13.32	590925	17.55	474192	19.65	527111					
3	0919	lb77sb.d	LB77LCSS1	LB77LCSS1	1	8.19	821703	11.00	417626	13.32	587542	17.55	453355	19.66	528761					
4	0951	lb02mb.d	LB02MBS1	LB02MBS1	1	6.18	214996	8.20	781327	11.00	406280	13.32	576710	17.54	427641	18.84	692827	19.66	463547	
5	1024	lb02sb.d	LB02LCSS1	LB02LCSS1	1	6.18	220632	8.20	778536	11.01	396782	13.32	559692	17.55	417339	18.84	680031	19.66	503076	
6	1057	lb77c.d	LB77C	C3-S3	1	8.20	793632	11.00	400820	13.32	563206	17.55	427223	19.66	505018					
7	1129	lb77d.d	LB77D	C3-S4	1	8.19	771997	11.00	400707	13.32	571141	17.55	469864	19.66	523036					
8	1202	lb77e.d	LB77E	C3-B1	1	8.19	797391	11.00	407689	13.32	562686	17.55	439464	19.66	501797					
9	1235	lb77ems.d	LB77EMS	C3-B1 MS	1	8.19	802549	11.00	408261	13.32	576672	17.55	454091	19.65	524465					
10	1308	lb77emd.d	LB77EMSD	C3-B1 MSD	1	8.19	807005	11.00	409740	13.32	575694	17.55	450158	19.66	524905					
11	1341	lb77f.d	LB77F	C3-B2	1	8.19	746457	11.00	364539	13.32	506301	17.54	452686	19.66	563518					
12	1415	lb77a.d	LB77A	C3-S1	1	8.19	782967	11.00	376468	13.32	531520	17.55	491780	19.66	591912					
13	1448	lb77b.d	LB77B	C3-S2	1	8.19	726812	11.00	350839	13.32	511575	17.55	527115	19.66	614179					
14	1521	lb02a.d	LB02A	RCB109-052507	3	6.18	203380	8.20	735886	11.01	405710	13.33	641039	17.58	622570	18.88	906512	19.72	699438	
15	1554	lb02b.d	LB02B	RCB110-052507	3	6.18	222493	8.20	822131	11.01	449525	13.33	696669	17.57	604477	18.87	926944	19.71	584219	
16	1626	kz56nre.d	KZ56NRE	Y3-RC04-S	3	6.18	231167	8.20	847946	11.01	455913	13.33	676586	17.58	597557	18.88	911146	19.72	577364	
17	1659	lb02adl.d	LB02A	RCB109-052507	10	6.18	188250	8.20	653504	11.01	348049	13.33	563686	17.56	560891	18.86	880137	19.68	587619	
18	1732	lb02bdl.d	LB02B	RCB110-052507	10	6.18	203058	8.20	733560	11.01	388408	13.32	628084	17.56	606793	18.85	970242	19.68	596958	
19	1805	kz56nrdl.d	KZ56NRE	Y3-RC04-S	10	6.18	212523	8.20	760604	11.01	409588	13.33	639395	17.56	596562	18.86	960112	19.68	601188	

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal and body.

LJK 6/7/07

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0606

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

PCB Analysis
QC Summary Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-052307	57.2%	48-103	78.2%	55-111	0
LCS-052307	74.2%	48-103	82.0%	55-111	0
LCSD-052307	80.8%	48-103	86.5%	55-111	0
Y3-RB-01	65.5%	33-126	65.8%	55-106	0

Prep Method: SW3510C
Log Number Range: 07-9561 to 07-9561

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-052307
LCS/LCSD

Lab Sample ID: LCS-052307
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/23/07

Date Analyzed LCS: 05/29/07 15:16
LCSD: 05/29/07 15:33
Instrument/Analyst LCS: ECD5/LJR
LCSD: ECD5/LJR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	3.72	5.00	74.4%	3.98	5.00	79.6%	6.8%
Aroclor 1260	4.32	5.00	86.4%	4.59	5.00	91.8%	6.1%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	74.2%	80.8%
Tetrachlorometaxylene	82.0%	86.5%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBW1

Lab File ID: 0529B013

Date Extracted: 05/23/07

Matrix: LIQUID

Date Analyzed: 05/29/07

Instrument ID: ECD5

Time Analyzed: 1458

GC Columns: ZB5/ZB35

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ56LCSW1	KZ56LCSW1	05/29/07
02	KZ56LCSDW1	KZ56LCSDW1	05/29/07
03	Y3-RB-01	KZ56O	05/29/07

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ENTRIX

ARI Job No.: KZ56 Project: DARIGOLD

GC Column: ZB5 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	32252907	2.402	5108210	11.461
UPPER LIMIT	64505814	2.502	10216420	11.561
LOWER LIMIT	16126454	2.302	2554105	11.361

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01	ZZZZZ	ZZZZZ	05/29/07	1002	40627082	2.408	5332625	11.464
02		AR1660 .25	05/29/07	1150	32252907	2.402	5108210	11.461
03		AR1660 .02	05/29/07	1207	31336892	2.393	5290530	11.456
04		AR1660 1.0	05/29/07	1224	30281473	2.394	4926404	11.456
05		AR1660 0.1	05/29/07	1241	31803064	2.395	5561298	11.455
06		AR1660 0.5	05/29/07	1258	32420273	2.394	5265072	11.456
07	ZZZZZ	ZZZZZ	05/29/07	1315	31519111	2.394	5371449	11.455
08		AR1242	05/29/07	1333	31335303	2.395	4847274	11.455
09		AR1248	05/29/07	1350	30953038	2.396	4809426	11.456
10		AR1254	05/29/07	1407	29694625	2.398	4861666	11.456
11		AR1262	05/29/07	1424	30395334	2.395	4864436	11.455
12		AR3268	05/29/07	1441	32450627	2.394	5232239	11.454
13	KZ56MBW1	KZ56MBW1	05/29/07	1458	46662298	2.397	7610453	11.456
14	KZ56LCSW1	KZ56LCSW1	05/29/07	1516	43669589	2.399	7420891	11.457
15	KZ56LCSDW1	KZ56LCSDW1	05/29/07	1533	39976061	2.402	6996487	11.457
16	Y3-RB-01	KZ56O	05/29/07	1550	42587869	2.397	6890583	11.456
17		AR12422	05/29/07	2042	31755024	2.398	4914464	11.457
18		AR16602	05/29/07	2059	32026549	2.396	4968281	11.457

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ENTRIX

ARI Job No.: KZ56 Project: DARIGOLD

GC Column: ZB35 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	20316673	3.103	3608946	12.256
UPPER LIMIT	40633346	3.203	7217892	12.356
LOWER LIMIT	10158336	3.003	1804473	12.156

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01	ZZZZZ	ZZZZZ	05/29/07	1002	25624909	3.101	4378204	12.258
02		AR1660 .25	05/29/07	1150	20316673	3.103	3608946	12.256
03		AR1660 .02	05/29/07	1207	19136425	3.108	3866992	12.255
04		AR1660 1.0	05/29/07	1224	18540271	3.110	3477459	12.254
05		AR1660 0.1	05/29/07	1241	19807529	3.111	4062455	12.253
06		AR1660 0.5	05/29/07	1258	20123786	3.109	3737521	12.253
07	ZZZZZ	ZZZZZ	05/29/07	1315	19584789	3.109	3789126	12.253
08		AR1242	05/29/07	1333	19425653	3.109	3494062	12.253
09		AR1248	05/29/07	1350	19042649	3.112	3767186	12.254
10		AR1254	05/29/07	1407	18406828	3.109	3585581	12.254
11		AR1262	05/29/07	1424	18714250	3.110	3591322	12.253
12		AR3268	05/29/07	1441	19984811	3.109	3731053	12.253
13	KZ56MBW1	KZ56MBW1	05/29/07	1458	29883506	3.111	5599420	12.254
14	KZ56LCSW1	KZ56LCSW1	05/29/07	1516	28021950	3.111	5455394	12.254
15	KZ56LCSDW1	KZ56LCSDW1	05/29/07	1533	25699528	3.114	5004339	12.255
16	Y3-RB-01	KZ56O	05/29/07	1550	27506899	3.110	5065594	12.254
17		AR12422	05/29/07	2042	19513981	3.110	3722082	12.254
18		AR16602	05/29/07	2059	19740757	3.112	3744869	12.255

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOLIDS SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
Y3-RC11-S	134%	30-160	113%	30-160	0
Y3-RC11-S DL	130%	30-160	91.5%	30-160	0
Y3-RC01-S	100%	30-160	144%	30-160	0
Y3-RC01-S DL	84.0%	30-160	114%	30-160	0
Y3-RC13-S	95.2%	30-160	126%	30-160	0
Y3-RC13-S DL	101%	30-160	116%	30-160	0
Y3-RC14-S	95.2%	30-160	118%	30-160	0
Y3-RC14-S DL	115%	30-160	109%	30-160	0
Y3-RC10-S	107%	30-160	91.8%	30-160	0
Y3-RC10-S DL	138%	30-160	87.0%	30-160	0
Y3-RC05-S	99.5%	30-160	95.0%	30-160	0
Y3-RC05-S DL	135%	30-160	80.2%	30-160	0
Y3-RC07-S	113%	30-160	88.0%	30-160	0
Y3-RC07-S DL	101%	30-160	87.0%	30-160	0
Y3-RC08-S	96.0%	30-160	95.2%	30-160	0
Y3-RC08-S DL	118%	30-160	89.2%	30-160	0
Y3-RC15-S	92.8%	30-160	73.0%	30-160	0
Y3-RC15-S DL	101%	30-160	71.1%	30-160	0
Y3-RC09-S	78.0%	30-160	102%	30-160	0
Y3-RC09-S DL	95.2%	30-160	84.0%	30-160	0
Y3-RC02-S	49.8%	30-160	103%	30-160	0
Y3-RC02-S DL	93.8%	30-160	106%	30-160	0
MB-052407	100%	30-160	87.0%	30-160	0
LCS-052407	100%	30-160	90.2%	30-160	0
Y3-RC12-S	93.8%	30-160	88.8%	30-160	0
Y3-RC12-S DL	93.0%	30-160	82.5%	30-160	0
Y3-RC12-S MS	85.5%	30-160	89.2%	30-160	0
Y3-RC12-S MSD	106%	30-160	89.2%	30-160	0
Y3-RC06-S	116%	30-160	83.5%	30-160	0
Y3-RC06-S DL	92.2%	30-160	82.5%	30-160	0
Y3-RC04-S	93.0%	30-160	91.5%	30-160	0
Y3-RC04-S DL	85.5%	30-160	94.5%	30-160	0
Y3-RC03-S	82.5%	30-160	78.0%	30-160	0
Y3-RC03-S DL	87.8%	30-160	87.0%	30-160	0

Prep Method: SW3550B
Log Number Range: 07-9547 to 07-9562

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: Y3-RC12-S
MS/MSD

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted MS/MSD: 05/24/07

Date Analyzed MS: 05/30/07 21:01
MSD: 05/30/07 21:18
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 25.7 g-dry-wt
MSD: 25.5 g-dry-wt
Final Extract Volume MS: 2.5 mL
MSD: 2.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 9.8 U	50.5	49.0	103%	44.6	49.4	90.3%	12.4%
Aroclor 1260	37.6	72.8	49.0	71.8%	73.5	49.4	72.7%	1.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-052407
LAB CONTROL

Lab Sample ID: LCS-052407
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: NA
Date Received: NA

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 16:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	40.2	50.4	79.8%
Aroclor 1260	47.6	50.4	94.4%

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	90.2%

Results reported in µg/kg (ppb)

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBS1

Lab File ID: 0530B011

Date Extracted: 05/24/07

Matrix: SOLID

Date Analyzed: 05/30/07

Instrument ID: ECD5

Time Analyzed: 1626

GC Columns: ZB5/ZB35

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	KZ56LCSS1	KZ56LCSS1	05/30/07
02	Y3-RC11-S	KZ56A	05/30/07
03	Y3-RC01-S	KZ56B	05/30/07
04	Y3-RC13-S	KZ56C	05/30/07
05	Y3-RC14-S	KZ56D	05/30/07
06	Y3-RC10-S	KZ56E	05/30/07
07	Y3-RC05-S	KZ56F	05/30/07
08	Y3-RC07-S	KZ56G	05/30/07
09	Y3-RC08-S	KZ56H	05/30/07
10	Y3-RC15-S	KZ56I	05/30/07
11	Y3-RC09-S	KZ56J	05/30/07
12	Y3-RC02-S	KZ56K	05/30/07
13	Y3-RC12-S	KZ56L	05/30/07
14	Y3-RC12-S MS	KZ56LMS	05/30/07
15	Y3-RC12-S MSD	KZ56LMSD	05/30/07
16	Y3-RC06-S	KZ56M	05/30/07
17	Y3-RC04-S	KZ56N	05/30/07
18	Y3-RC03-S	KZ56P	05/30/07
19	Y3-RC11-S	KZ56A	05/31/07
20	Y3-RC01-S	KZ56B	05/31/07
21	Y3-RC13-S	KZ56C	05/31/07
22	Y3-RC14-S	KZ56D	05/31/07
23	Y3-RC10-S	KZ56E	05/31/07
24	Y3-RC05-S	KZ56F	05/31/07
25	Y3-RC07-S	KZ56G	05/31/07
26	Y3-RC08-S	KZ56H	05/31/07
27	Y3-RC15-S	KZ56I	05/31/07
28	Y3-RC09-S	KZ56J	05/31/07
29	Y3-RC02-S	KZ56K	05/31/07
30	Y3-RC12-S	KZ56L	05/31/07

FORM IV PCB

4

PCB METHOD BLANK SUMMARY

BLANK NO.

KZ56MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: TETRA TECH, INC.

ARI Job No.: KZ56

Project: THEA FOSS OMMP YEAR

Lab Sample ID: KZ56MBS1

Lab File ID: 0530B011

Date Extracted: 05/24/07

Matrix: SOLID

Date Analyzed: 05/30/07

Instrument ID: ECD5

Time Analyzed: 1626

GC Columns: ZB5/ZB35

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	Y3-RC06-S	KZ56M	05/31/07
02	Y3-RC04-S	KZ56N	05/31/07
03	Y3-RC03-S	KZ56P	05/31/07

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

ARI Job No.: KZ56 Project: THEA FOSS OMMP

GC Column: ZB5 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	32252907	2.402	5108210	11.461
UPPER LIMIT	64505814	2.502	10216420	11.561
LOWER LIMIT	16126454	2.302	2554105	11.361

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01	ZZZZZ	ZZZZZ	05/29/07	1002	40627082	2.408	5332625	11.464
02		AR1660 .25	05/29/07	1150	32252907	2.402	5108210	11.461
03		AR1660 .02	05/29/07	1207	31336892	2.393	5290530	11.456
04		AR1660 1.0	05/29/07	1224	30281473	2.394	4926404	11.456
05		AR1660 0.1	05/29/07	1241	31803064	2.395	5561298	11.455
06		AR1660 0.5	05/29/07	1258	32420273	2.394	5265072	11.456
07	ZZZZZ	ZZZZZ	05/29/07	1315	31519111	2.394	5371449	11.455
08		AR1242	05/29/07	1333	31335303	2.395	4847274	11.455
09		AR1248	05/29/07	1350	30953038	2.396	4809426	11.456
10		AR1254	05/29/07	1407	29694625	2.398	4861666	11.456
11		AR1262	05/29/07	1424	30395334	2.395	4864436	11.455
12		AR3268	05/29/07	1441	32450627	2.394	5232239	11.454
13		AR12423	05/30/07	1212	31907896	2.397	5372651	11.458
14		AR16605	05/30/07	1229	32548307	2.392	5374203	11.455
15	KZ56MBS1	KZ56MBS1	05/30/07	1626	33157458	2.413	5549220	11.468
16	KZ56LCSS1	KZ56LCSS1	05/30/07	1643	31556793	2.398	5548395	11.459
17	Y3-RC11-S	KZ56A	05/30/07	1700	26978143	2.398	5190044	11.468
18	Y3-RC01-S	KZ56B	05/30/07	1717	28493582	2.391	5160941	11.464
19	Y3-RC13-S	KZ56C	05/30/07	1735	25885950	2.398	4709170	11.467
20	Y3-RC14-S	KZ56D	05/30/07	1752	26550692	2.395	4246201	11.464
21	Y3-RC10-S	KZ56E	05/30/07	1809	28066666	2.395	3959925	11.459
22	Y3-RC05-S	KZ56F	05/30/07	1826	30700043	2.395	4002258	11.467
23	Y3-RC07-S	KZ56G	05/30/07	1843	30382285	2.392	3657749	11.462
24	Y3-RC08-S	KZ56H	05/30/07	1901	28087288	2.396	3860769	11.462
25	Y3-RC15-S	KZ56I	05/30/07	1918	33930324	2.400	3870109	11.461
26	Y3-RC09-S	KZ56J	05/30/07	1935	25599888	2.399	3828472	11.466
27	Y3-RC02-S	KZ56K	05/30/07	2026	28017049	2.398	9373039	11.473
28	Y3-RC12-S	KZ56L	05/30/07	2043	28916581	2.399	3740108	11.460
29	Y3-RC12-S MS	KZ56LMS	05/30/07	2101	28589396	2.398	3401833	11.463
30	Y3-RC12-S MS	KZ56LMSD	05/30/07	2118	29652124	2.402	3194454	11.462
31	Y3-RC06-S	KZ56M	05/30/07	2135	33011062	2.399	3318671	11.465
32	Y3-RC04-S	KZ56N	05/30/07	2152	27340287	2.396	3809534	11.466

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

ARI Job No.: KZ56 Project: THEA FOSS OMMP

GC Column: ZB5 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	32252907	2.402	5108210	11.461
UPPER LIMIT	64505814	2.502	10216420	11.561
LOWER LIMIT	16126454	2.302	2554105	11.361

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
33	Y3-RC03-S	KZ56P	05/30/07	2209	29583882	2.398	3317143	11.461
34		AR12483	05/30/07	2352	30365292	2.399	2548364*	11.457
35		AR16606	05/31/07	0009	31306835	2.396	2585115	11.458
36		AR12424	05/31/07	1449	32159867	2.413	2836803	11.464
37		AR16607	05/31/07	1506	31240132	2.402	2974265	11.459
38	Y3-RC11-S	KZ56A	05/31/07	1558	33177744	2.398	3319353	11.459
39	Y3-RC01-S	KZ56B	05/31/07	1615	29605793	2.393	3795254	11.459
40	Y3-RC13-S	KZ56C	05/31/07	1632	28303638	2.399	3386346	11.460
41	Y3-RC14-S	KZ56D	05/31/07	1649	31048608	2.395	3289970	11.458
42	Y3-RC10-S	KZ56E	05/31/07	1706	30465260	2.399	3621673	11.457
43	Y3-RC05-S	KZ56F	05/31/07	1723	29308784	2.397	3465808	11.459
44	Y3-RC07-S	KZ56G	05/31/07	1741	30479048	2.399	3655773	11.458
45	Y3-RC08-S	KZ56H	05/31/07	1758	32247742	2.403	4088582	11.460
46	Y3-RC15-S	KZ56I	05/31/07	1815	31149141	2.401	3662265	11.459
47	Y3-RC09-S	KZ56J	05/31/07	1832	29847641	2.400	3755466	11.460
48	Y3-RC02-S	KZ56K	05/31/07	1849	28520826	2.398	5145506	11.463
49	Y3-RC12-S	KZ56L	05/31/07	1906	29189730	2.396	3349674	11.460
50	Y3-RC06-S	KZ56M	05/31/07	1958	31073143	2.400	3623034	11.461
51	Y3-RC04-S	KZ56N	05/31/07	2015	29709412	2.397	3959983	11.460
52	Y3-RC03-S	KZ56P	05/31/07	2032	28366998	2.400	3287093	11.461
53		AR12544	05/31/07	2232	30048235	2.401	2890131	11.459
54		AR16608	05/31/07	2249	30621914	2.403	2772994	11.458

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

ARI Job No.: KZ56 Project: THEA FOSS OMMP

GC Column: ZB35 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	20316673	3.103	3608946	12.256
UPPER LIMIT	40633346	3.203	7217892	12.356
LOWER LIMIT	10158336	3.003	1804473	12.156

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01	ZZZZZ	ZZZZZ	05/29/07	1002	25624909	3.101	4378204	12.258
02		AR1660 .25	05/29/07	1150	20316673	3.103	3608946	12.256
03		AR1660 .02	05/29/07	1207	19136425	3.108	3866992	12.255
04		AR1660 1.0	05/29/07	1224	18540271	3.110	3477459	12.254
05		AR1660 0.1	05/29/07	1241	19807529	3.111	4062455	12.253
06		AR1660 0.5	05/29/07	1258	20123786	3.109	3737521	12.253
07	ZZZZZ	ZZZZZ	05/29/07	1315	19584789	3.109	3789126	12.253
08		AR1242	05/29/07	1333	19425653	3.109	3494062	12.253
09		AR1248	05/29/07	1350	19042649	3.112	3767186	12.254
10		AR1254	05/29/07	1407	18406828	3.109	3585581	12.254
11		AR1262	05/29/07	1424	18714250	3.110	3591322	12.253
12		AR3268	05/29/07	1441	19984811	3.109	3731053	12.253
13		AR12423	05/30/07	1212	20182932	3.108	4114650	12.253
14		AR16605	05/30/07	1229	20449149	3.108	4052733	12.251
15	KZ56MBS1	KZ56MBS1	05/30/07	1626	22532469	3.107	4235178	12.259
16	KZ56LCSS1	KZ56LCSS1	05/30/07	1643	20234001	3.109	3993173	12.254
17	Y3-RC11-S	KZ56A	05/30/07	1700	19357904	3.109	3997784	12.261
18	Y3-RC01-S	KZ56B	05/30/07	1717	18746995	3.106	4992240	12.260
19	Y3-RC13-S	KZ56C	05/30/07	1735	18757133	3.108	4087768	12.258
20	Y3-RC14-S	KZ56D	05/30/07	1752	18652010	3.108	4096826	12.259
21	Y3-RC10-S	KZ56E	05/30/07	1809	19033050	3.107	3984920	12.257
22	Y3-RC05-S	KZ56F	05/30/07	1826	19283824	3.109	4050763	12.260
23	Y3-RC07-S	KZ56G	05/30/07	1843	19101472	3.107	3035283	12.256
24	Y3-RC08-S	KZ56H	05/30/07	1901	18853154	3.110	3369488	12.262
25	Y3-RC15-S	KZ56I	05/30/07	1918	18994777	3.113	3077011	12.255
26	Y3-RC09-S	KZ56J	05/30/07	1935	18870707	3.112	3317023	12.261
27	Y3-RC02-S	KZ56K	05/30/07	2026	21056221	3.112	6750726	12.261
28	Y3-RC12-S	KZ56L	05/30/07	2043	18747616	3.111	3576342	12.256
29	Y3-RC12-S MS	KZ56LMS	05/30/07	2101	19810074	3.109	3211772	12.255
30	Y3-RC12-S MS	KZ56LMSD	05/30/07	2118	18834141	3.112	2746462	12.256
31	Y3-RC06-S	KZ56M	05/30/07	2135	19582182	3.113	2682021	12.258
32	Y3-RC04-S	KZ56N	05/30/07	2152	18834523	3.110	2985519	12.261

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: TETRA TECH, INC.

ARI Job No.: KZ56 Project: THEA FOSS OMMP

GC Column: ZB35 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 05/29/07

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

	IS1 AREA	RT	IS2 AREA	RT
ICAL MIDPT	20316673	3.103	3608946	12.256
UPPER LIMIT	40633346	3.203	7217892	12.356
LOWER LIMIT	10158336	3.003	1804473	12.156

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
33	Y3-RC03-S	KZ56P	05/30/07	2209	19400733	3.112	3364894	12.256
34		AR12483	05/30/07	2352	19862015	3.112	2691608	12.252
35		AR16606	05/31/07	0009	20113860	3.110	2284579	12.253
36		AR12424	05/31/07	1449	20780319	3.105	2424112	12.255
37		AR16607	05/31/07	1506	19857643	3.112	2338822	12.252
38	Y3-RC11-S	KZ56A	05/31/07	1558	19988994	3.109	2535454	12.252
39	Y3-RC01-S	KZ56B	05/31/07	1615	18949670	3.109	2551693	12.253
40	Y3-RC13-S	KZ56C	05/31/07	1632	19427372	3.110	2840246	12.254
41	Y3-RC14-S	KZ56D	05/31/07	1649	20677932	3.109	3140621	12.253
42	Y3-RC10-S	KZ56E	05/31/07	1706	20152554	3.112	2531998	12.252
43	Y3-RC05-S	KZ56F	05/31/07	1723	20553533	3.109	2458832	12.252
44	Y3-RC07-S	KZ56G	05/31/07	1741	20248766	3.110	2446225	12.251
45	Y3-RC08-S	KZ56H	05/31/07	1758	20205720	3.111	2546880	12.254
46	Y3-RC15-S	KZ56I	05/31/07	1815	19798750	3.111	2505416	12.251
47	Y3-RC09-S	KZ56J	05/31/07	1832	19037220	3.111	2788946	12.255
48	Y3-RC02-S	KZ56K	05/31/07	1849	19111112	3.112	3560168	12.256
49	Y3-RC12-S	KZ56L	05/31/07	1906	20740075	3.111	2711509	12.252
50	Y3-RC06-S	KZ56M	05/31/07	1958	19506902	3.114	2673234	12.253
51	Y3-RC04-S	KZ56N	05/31/07	2015	19439384	3.111	2868157	12.254
52	Y3-RC03-S	KZ56P	05/31/07	2032	17931624	3.113	2144805	12.253
53		AR12544	05/31/07	2232	19195505	3.113	2234257	12.252
54		AR16608	05/31/07	2249	20478703	3.114	2230162	12.253

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- .1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB Analysis
Sample Data

prepared
for

TETRA TECH

Project: Thea Foss OMMP Year 3

ARI JOB NO: KZ56

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC11-S
SAMPLE

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:00
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 46.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	**Aroclor 1254**	**9.9**	**57**
11096-82-5	**Aroclor 1260**	**9.9**	**65**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	134%
Tetrachlorometaxylene	113%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B013.d
Data file 2: 20070529.b/0530-2.b/0530B013.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56A
Client ID: Y3-RC11-S
Injection Date: 30-MAY-2007 17:00
Report Date: 06/04/2007 14:16
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.577	0.003	10914047	4.671	0.000	9881547	34.1	45.1	27.6	Tetrachloro-m-xylene
11.162	0.013	7924648	11.548	0.006	6569201	38.2	53.4	33.1	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	85.3	112.6
Decachlorobiphenyl	95.6	133.5

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	26978143	-16.4
Hexabromobiphenyl	5108210	5190044	1.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19357904	-4.7
Hexabromobiphenyl	3608946	3997784	10.8

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.730	-0.003	1365000	162.9	1	---			0.0
Aroclor-1016	2	6.027	0.004	2838752	105.0	2	6.345	0.000	1664791	90.2
Aroclor-1016	3	6.140	0.004	3602520	339.3	3	6.523	0.017	2133097	291.7
Aroclor-1016	4	6.394	0.002	2639158	387.9	4	7.046	0.003	1327407	223.3
Total Col1Ave (4 peaks):				248.8		Total Col2Ave (3 peaks):			201.7	RPD = 21
Corrected Ave (4 peaks):				248.8		Corrected Ave (3 peaks):			201.7	RPD = 21
Aroclor-1221	1	4.778	-0.047	241209	49.9	1	5.125	-0.001	715515	227.8
Aroclor-1221	2	4.954	0.000	315975	107.9	2	5.294	-0.005	47812	25.8
Aroclor-1221	3	5.049	0.023	488727	52.6	3	5.353	-0.028	9748008	1679.1
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				70.1		Total Col2Ave (3 peaks):			644.2	RPD = 161*
Corrected Ave (3 peaks):				70.1		Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.049	0.023	488727	63.9	1	5.353	-0.028	9748008	2061.0
Aroclor-1232	2	5.730	-0.004	1365000	364.8	2	---			0.0
Aroclor-1232	3	6.027	0.003	2838752	235.4	3	6.345	0.000	1664791	205.3
Aroclor-1232	4	6.140	0.003	3602520	759.1	4	7.402	0.002	2202069	707.5
Total Col1Ave (4 peaks):				355.8		Total Col2Ave (3 peaks):			991.3	RPD = 94*
Corrected Ave (3 peaks):				221.4		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.730	-0.005	1365000	181.1	1	5.353	-0.028	9748008	2342.3
Aroclor-1242	2	6.027	0.001	2838752	116.4	2	---			0.0
Aroclor-1242	3	6.140	0.003	3602520	372.6	3	6.345	0.000	1664791	101.8
Aroclor-1242	4	6.773	0.006	1753714	196.6	4	6.523	0.017	2133097	322.0
Aroclor-1242	NS	---			----	5	7.402	0.002	2202069	351.8
Total Col1Ave (4 peaks):				216.7		Total Col2Ave (4 peaks):			779.5	RPD = 113*
Corrected Ave (3 peaks):				164.7		Corrected Ave (3 peaks):			258.5	RPD = 44*
Aroclor-1248	1	6.027	0.007	2838752	163.5	1	6.345	0.002	1664791	139.9
Aroclor-1248	2	6.140	0.001	3602520	645.2	2	6.710	0.001	1412235	220.6
Aroclor-1248	3	6.394	0.002	2639158	284.4	3	7.046	0.002	1327407	163.6
Aroclor-1248	4	6.773	0.008	1753714	133.2	4	7.402	0.003	2202069	207.2
Aroclor-1248	5	7.111	0.011	6432013	378.7	NS	---			----
Total Col1Ave (5 peaks):				321.0		Total Col2Ave (4 peaks):			182.8	RPD = 55*
Corrected Ave (4 peaks):				240.0		Corrected Ave (4 peaks):			182.8	RPD = 27
Aroclor-1254	1	7.360	0.008	10354721	553.0	1	7.641	-0.007	11242588	1005.6
Aroclor-1254	2	7.667	0.009	12737168	1046.7	2	8.088	0.003	3254430	419.1
Aroclor-1254	3	7.775	0.006	106413763	4807.2	3	8.214	0.003	7230668	439.1
Aroclor-1254	4	8.054	0.002	13817172	591.0	4	8.872	0.012	6612414	689.8
Aroclor-1254	5	8.365	0.007	8281426	575.0	NS	---			----
Total Col1Ave (5 peaks):				1514.6		Total Col2Ave (4 peaks):			638.4	RPD = 81*
Corrected Ave (4 peaks):				691.4		Corrected Ave (4 peaks):			638.4	RPD = 8
Aroclor-1260	1	8.813	0.010	6701650	465.4	1	9.127	0.006	4983772	634.0
Aroclor-1260	2	9.083	0.011	5679282	443.7	2	9.196	0.007	4175770	865.3
Aroclor-1260	3	9.384	0.015	16004750	494.9	3	9.508	0.006	9113210	965.7
Aroclor-1260	4	9.721	0.013	7349398	469.7	4	9.718	0.009	13703163	640.2
Aroclor-1260	5	9.873	0.014	5094821	658.8	5	10.206	0.008	8388802	701.5
Total Col1Ave (5 peaks):				506.5		Total Col2Ave (5 peaks):			761.3	RPD = 40*
Corrected Ave (5 peaks):				506.5		Corrected Ave (5 peaks):			761.3	RPD = 40*
Aroclor-1262	1	9.083	0.012	5679282	283.8	1	9.127	0.006	4983772	327.0
Aroclor-1262	2	9.384	0.015	16004750	328.9	2	9.508	0.006	9113210	651.6
Aroclor-1262	3	9.721	0.013	7349398	496.9	3	9.718	0.008	13703163	480.5
Aroclor-1262	4	9.873	0.014	5094821	257.9	4	10.126	-0.021	19700606	1714.3
Aroclor-1262	5	10.415	0.016	10824850	765.6	5	10.797	0.009	5178394	652.3
Total Col1Ave (5 peaks):				426.6		Total Col2Ave (5 peaks):			765.2	RPD = 57*
Corrected Ave (4 peaks):				341.9		Corrected Ave (4 peaks):			527.9	RPD = 43*
Aroclor-1268	1	9.810	0.013	4420573	86.5	1	10.126	-0.020	19700606	701.0
Aroclor-1268	2	9.873	0.016	5094821	111.0	2	10.206	0.002	8388802	327.0
Aroclor-1268	3	10.207	0.028	2329578	59.4	3	10.549	0.009	2381643	114.4

250 ✓

573 576 659

Aroclor-1268	4	10.829	0.015	2767617	30.1	4	11.203	0.008	1834661	33.6

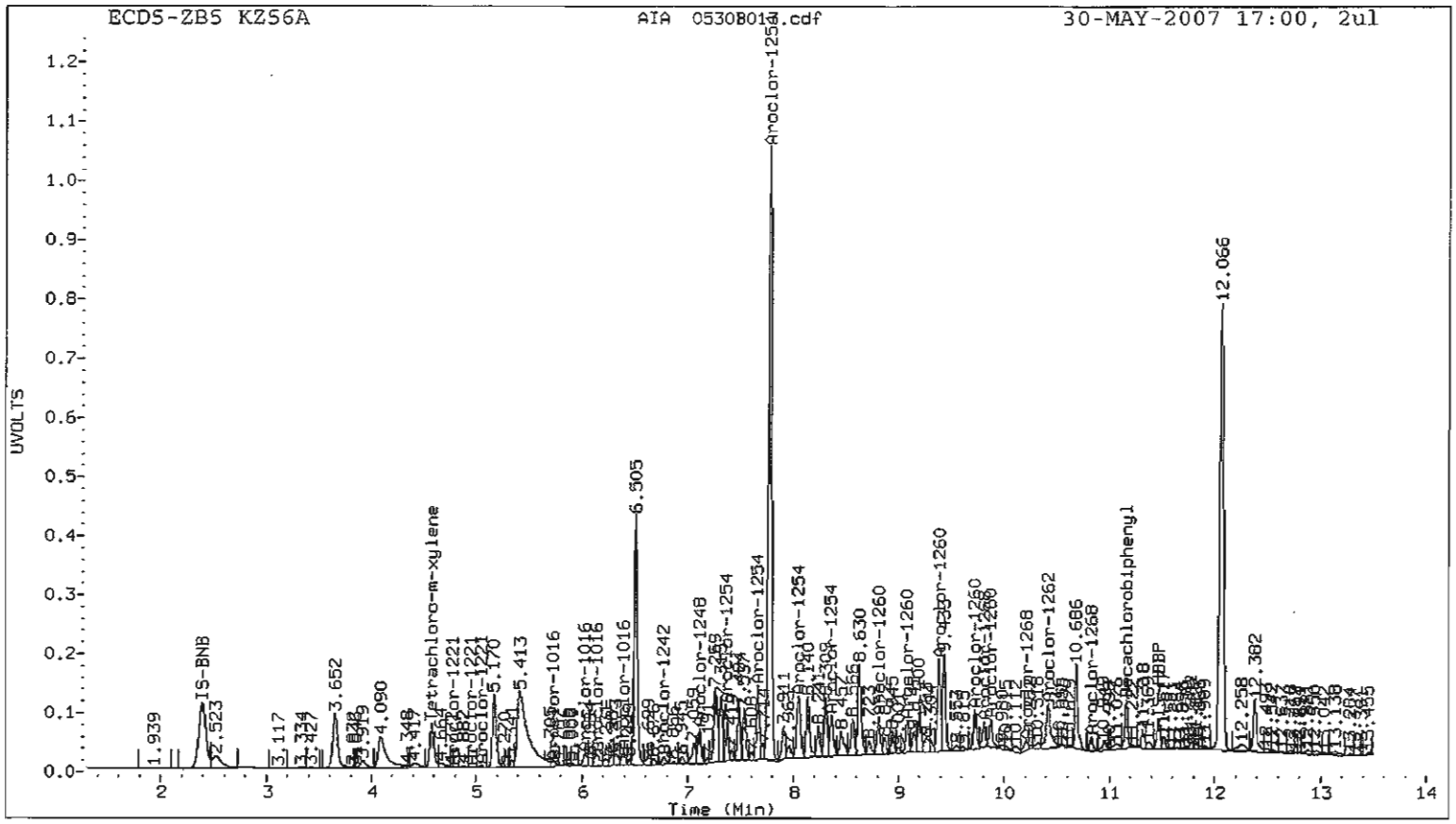
Total Col1Ave (4 peaks): 71.8 Total Col2Ave (4 peaks): 294.0 RPD = 122*
Corrected Ave (4 peaks): 71.8 Corrected Ave (3 peaks): 158.3 RPD = 75*

Total PCB Area Col1 (4.673 - 11.049) = 549344872 Col1 Total PCB = 2.6 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 446996268 Col2 Total PCB = 3.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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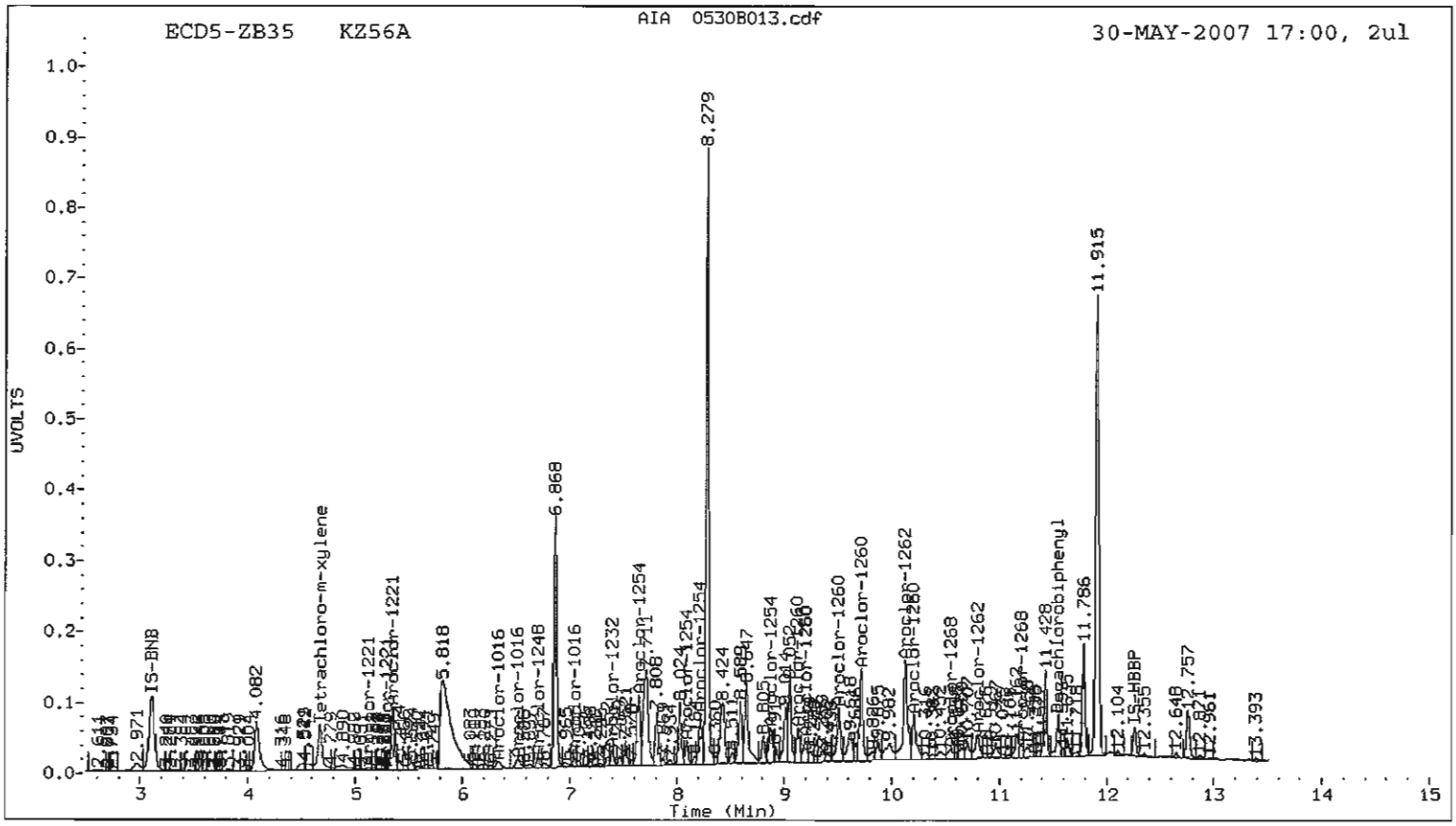
30-MAY-2007 17:00, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Aroclor-1260
Aroclor-1262
Decachlorobiphenyl
12.066
6.505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30-MAY-2007 17:00, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Aroclor-1260
Aroclor-1262
Decachlorobiphenyl
11.915
11.786
6.868
8.279

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC11-S
DILUTION

Lab Sample ID: KZ56A
LIMS ID: 07-9547
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 15:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 46.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**60**
11096-82-5	**Aroclor 1260**	**30**	**78**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	130%
Tetrachlorometaxylene	91.5%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B005.d
Data file 2: 20070529.b/0531-2.b/0531B005.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56A
Client ID:
Injection Date: 31-MAY-2007 15:58
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	4147987	4.671	0.000	2769708	10.5	12.2	14.8	Tetrachloro-m-xylene
11.152	0.002	2305061	11.540	-0.002	1205485	17.4	15.4	11.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	79.1	91.7
Decachlorobiphenyl	130.4	115.9

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	33177744	2.9
Hexabromobiphenyl	5108210	3319353	-35.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19988994	-1.6
Hexabromobiphenyl	3608946	2535454	-29.7

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.730	-0.003	613410	59.5	1	---			0.0
Aroclor-1016	2	6.029	0.006	996135	30.0	2	6.345	0.001	637978	33.5
Aroclor-1016	3	6.141	0.004	1128643	86.4	3	6.523	0.017	453567	60.1
Aroclor-1016	4	6.392	0.001	873380	104.4	4	7.046	0.002	416734	67.9
Total Col1Ave (4 peaks):				70.1		Total Col2Ave (3 peaks):			53.8	RPD = 26
Corrected Ave (4 peaks):				70.1		Corrected Ave (3 peaks):			53.8	RPD = 26
Aroclor-1221	1	4.813	-0.013	705377	118.7	1	5.124	-0.002	92946	28.7
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	5.049	0.023	129034	11.3	3	5.354	-0.027	2979861	497.1
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.049	0.022	129034	13.7	1	5.354	-0.027	2979861	610.1
Aroclor-1232	2	5.730	-0.004	613410	133.3	2	---			0.0
Aroclor-1232	3	6.029	0.006	996135	67.2	3	6.345	0.001	637978	76.2
Aroclor-1232	4	6.141	0.003	1128643	193.4	4	7.399	0.000	737584	229.5
Total Col1Ave (4 peaks):				101.9		Total Col2Ave (3 peaks):			305.3	RPD = 100*
Corrected Ave (3 peaks):				71.4		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.730	-0.005	613410	66.2	1	5.354	-0.027	2979861	693.4
Aroclor-1242	2	6.029	0.003	996135	33.2	2	---			0.0
Aroclor-1242	3	6.141	0.003	1128643	94.9	3	6.345	0.000	637978	37.8
Aroclor-1242	4	6.773	0.007	572581	52.2	4	6.523	0.017	453567	66.3
Aroclor-1242	NS	---			----	5	7.399	0.000	737584	114.1
Total Col1Ave (4 peaks):				61.6		Total Col2Ave (4 peaks):			227.9	RPD = 115*
Corrected Ave (4 peaks):				61.6		Corrected Ave (3 peaks):			72.7	RPD = 17
Aroclor-1248	1	6.029	0.009	996135	46.6	1	6.345	0.002	637978	51.9
Aroclor-1248	2	6.141	0.002	1128643	164.4	2	6.709	0.001	451496	68.3
Aroclor-1248	3	6.392	0.001	873380	76.5	3	7.046	0.002	416734	49.7
Aroclor-1248	4	6.773	0.008	572581	35.4	4	7.399	0.000	737584	67.2
Aroclor-1248	5	7.111	0.011	2681184	128.4	NS	---			----
Total Col1Ave (5 peaks):				90.3		Total Col2Ave (4 peaks):			59.3	RPD = 41*
Corrected Ave (4 peaks):				71.7		Corrected Ave (4 peaks):			59.3	RPD = 19
Aroclor-1254	1	7.357	0.006	3863401	167.8	1	7.640	-0.008	3240945	280.7
Aroclor-1254	2	7.664	0.007	4857706	324.6	2	8.085	0.000	972673	121.3
Aroclor-1254	3	7.772	0.004	33024951	1213.1	3	8.212	0.001	2070636	121.8
Aroclor-1254	4	8.051	-0.001	4671500	162.5	4	8.868	0.008	1765514	178.4
Aroclor-1254	5	8.361	0.004	2767534	156.3	NS	---			----
Total Col1Ave (5 peaks):				404.8		Total Col2Ave (4 peaks):			175.5	RPD = 79*
Corrected Ave (4 peaks):				202.8		Corrected Ave (4 peaks):			175.5	RPD = 14
Aroclor-1260	1	8.808	0.005	2203799	239.3	1	9.122	0.001	1198487	240.4
Aroclor-1260	2	9.076	0.005	1937731	236.7	2	9.188	-0.001	926439	302.7
Aroclor-1260	3	9.374	0.005	4204393	203.3	3	9.501	-0.001	2013051	336.4
Aroclor-1260	4	9.712	0.004	2272878	227.1	4	9.711	0.001	3038945	223.9
Aroclor-1260	5	9.864	0.005	1861503	376.3	5	10.199	0.000	1586417	209.2
Total Col1Ave (5 peaks):				256.6		Total Col2Ave (5 peaks):			262.5	RPD = 2
Corrected Ave (5 peaks):				256.6		Corrected Ave (5 peaks):			262.5	RPD = 2
Aroclor-1262	1	9.076	0.005	1937731	151.4	1	9.122	0.001	1198487	124.0
Aroclor-1262	2	9.374	0.006	4204393	135.1	2	9.501	-0.001	2013051	227.0
Aroclor-1262	3	9.712	0.004	2272878	240.3	3	9.711	0.000	3038945	168.0
Aroclor-1262	4	9.864	0.005	1861503	147.3	4	10.119	-0.029	4025786	552.4
Aroclor-1262	5	10.406	0.007	3401541	376.1	5	10.787	0.000	875336	173.9
Total Col1Ave (5 peaks):				210.0		Total Col2Ave (5 peaks):			249.0	RPD = 17
Corrected Ave (4 peaks):				168.5		Corrected Ave (4 peaks):			173.2	RPD = 3
Aroclor-1268	1	9.801	0.003	1609647	49.2	1	10.119	-0.027	4025786	225.9
Aroclor-1268	2	9.864	0.006	1861503	63.4	2	10.199	-0.005	1586417	97.5
Aroclor-1268	3	10.200	0.021	552793	22.0	3	10.543	0.004	256992	19.5
Aroclor-1268	4	10.822	0.008	677556	11.5	4	11.194	-0.001	302227	8.7

140

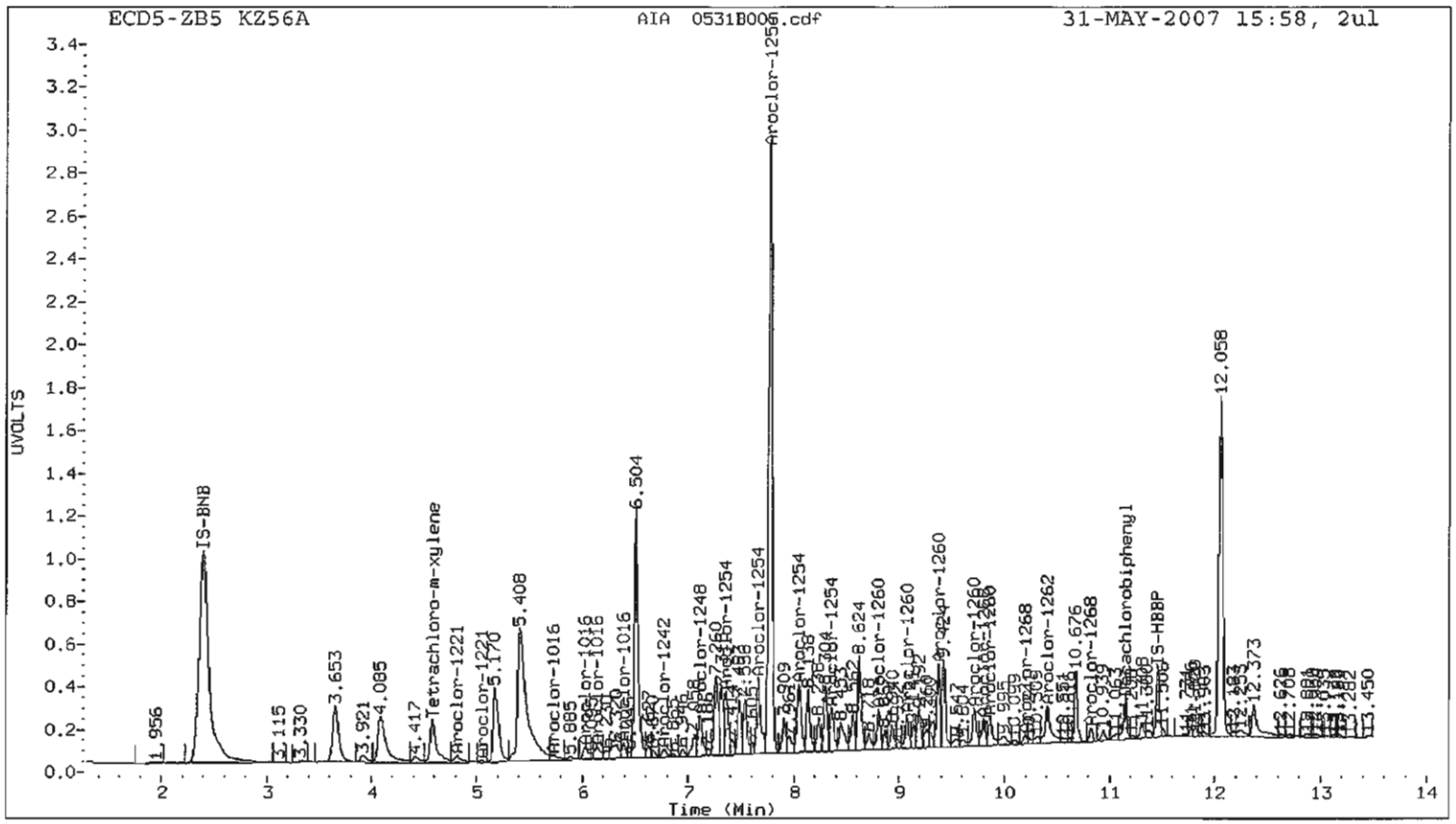
Total Col1Ave (4 peaks):	36.6	Total Col2Ave (4 peaks):	87.9	RPD = 82*
Corrected Ave (3 peaks):	27.6	Corrected Ave (3 peaks):	41.9	RPD = 41*

Total PCB Area Col1 (4.673 - 11.049) = 182056130 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 117471784 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
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8.624
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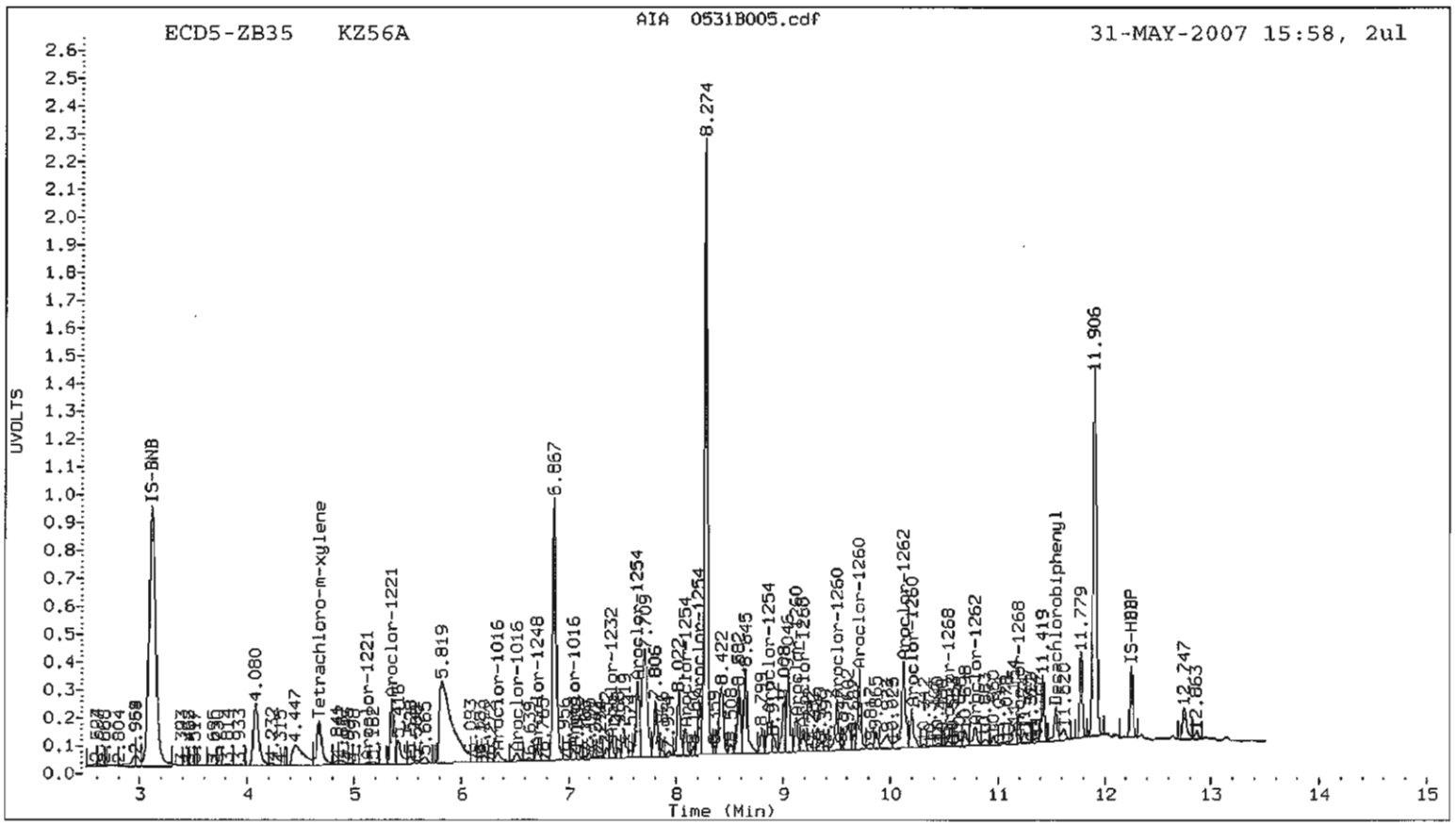
12.373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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
4.080
5.819
6.867
8.274
11.906

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC01-S
SAMPLE

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:17
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 72.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	50	< 50 Y
11097-69-1	**Aroclor 1254**	**9.9**	**120 E**
11096-82-5	**Aroclor 1260**	**9.9**	**62**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	144%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B014.d
Data file 2: 20070529.b/0530-2.b/0530B014.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56B
Client ID: Y3-RC01-S
Injection Date: 30-MAY-2007 17:17
Report Date: 06/04/2007 14:16
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.576	0.003	19511121	4.671	0.000	10524840	57.8	49.5	15.3	Tetrachloro-m-xylene
11.159	0.010	6976340	11.546	0.004	6177523	33.8	40.2	17.2	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	144.4	123.9
Decachlorobiphenyl	84.6	100.5

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28493582	-11.7
Hexabromobiphenyl	5108210	5160941	1.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18746995	-7.7
Hexabromobiphenyl	3608946	4992240	38.3

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.706	-0.027	5687644	642.5	1	---			0.0
Aroclor-1016	2	6.060	0.037	9433676	330.5	2	6.343	-0.001	1981074	110.9
Aroclor-1016	3	6.141	0.005	4011112	357.7	3	6.507	0.000	2563074	361.9
Aroclor-1016	4	6.394	0.002	4396092	611.7	4	7.045	0.002	2828325	491.3
Total Col1Ave (4 peaks):				485.6		Total Col2Ave (3 peaks):			321.4	RPD = 41*
Corrected Ave (4 peaks):				485.6		Corrected Ave (3 peaks):			321.4	RPD = 41*
Aroclor-1221	1	---			0.0	1	5.125	-0.001	1598903	525.7
Aroclor-1221	2	4.948	-0.006	384393	124.3	2	5.282	-0.017	49559	27.6
Aroclor-1221	3	5.048	0.022	714583	72.8	3	5.354	-0.027	6277225	1116.5
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 556.6				
Aroclor-1232	1	5.048	0.021	714583	88.5	1	5.354	-0.027	6277225	1370.4
Aroclor-1232	2	5.706	-0.028	5687644	1439.2	2	---			0.0
Aroclor-1232	3	6.060	0.036	9433676	740.7	3	6.343	-0.001	1981074	252.3
Aroclor-1232	4	6.141	0.004	4011112	800.2	4	7.402	0.002	4269191	1416.4
Total Col1Ave (4 peaks):				767.2		Total Col2Ave (3 peaks):			1013.0	RPD = 28
Corrected Ave (3 peaks):				543.2		Corrected Ave (3 peaks):			1013.0	RPD = 60*
Aroclor-1242	1	5.706	-0.029	5687644	714.5	1	5.354	-0.027	6277225	1557.5
Aroclor-1242	2	6.060	0.034	9433676	366.3	2	---			0.0
Aroclor-1242	3	6.141	0.004	4011112	392.8	3	6.343	-0.002	1981074	125.1
Aroclor-1242	4	6.771	0.004	3419038	362.9	4	6.507	0.001	2563074	399.5
Aroclor-1242	NS	---			----	5	7.402	0.002	4269191	704.2
Total Col1Ave (4 peaks):				459.1		Total Col2Ave (4 peaks):			696.6	RPD = 41*
Corrected Ave (4 peaks):				459.1		Corrected Ave (3 peaks):			409.6	RPD = 11
Aroclor-1248	1	6.060	0.040	9433676	514.3	1	6.343	0.000	1981074	172.0
Aroclor-1248	2	6.141	0.002	4011112	680.2	2	6.710	0.002	3232964	521.4
Aroclor-1248	3	6.394	0.002	4396092	448.6	3	7.045	0.002	2828325	359.9
Aroclor-1248	4	6.771	0.006	3419038	245.9	4	7.402	0.003	4269191	414.7
Aroclor-1248	5	7.111	0.012	11237853	626.5	NS	---			----
Total Col1Ave (5 peaks):				503.1		Total Col2Ave (4 peaks):			367.0	RPD = 31
Corrected Ave (5 peaks):				503.1		Corrected Ave (4 peaks):			367.0	RPD = 31
Aroclor-1254	1	7.359	0.007	17520353	885.9	1	7.645	-0.003	14483538	1337.8
Aroclor-1254	2	7.665	0.008	13641179	1061.4	2	8.089	0.004	7302993	971.1
Aroclor-1254	3	7.775	0.006	20183304	863.3	3	8.215	0.005	18560165	1163.9
Aroclor-1254	4	8.054	0.002	21090634	854.1	4	8.871	0.011	16036741	1727.5
Aroclor-1254	5	8.366	0.008	13078643	859.8	NS	---			----
Total Col1Ave (5 peaks):				904.9		Total Col2Ave (4 peaks):			1300.1	RPD = 36
Corrected Ave (5 peaks):				904.9		Corrected Ave (4 peaks):			1300.1	RPD = 36
Aroclor-1260	1	8.809	0.006	6644383	464.0	1	9.126	0.005	5848869	595.8
Aroclor-1260	2	9.078	0.007	6178969	485.5	2	9.195	0.006	5538996	919.2
Aroclor-1260	3	9.379	0.011	15863896	493.4	3	9.507	0.005	15195069	1289.5
Aroclor-1260	4	9.719	0.011	9213874	592.2	4	9.716	0.007	14838383	555.1
Aroclor-1260	5	9.868	0.010	3588487	466.6	5	10.203	0.005	10796966	723.0
Total Col1Ave (5 peaks):				500.3		Total Col2Ave (5 peaks):			816.5	RPD = 48*
Corrected Ave (5 peaks):				500.3		Corrected Ave (5 peaks):			816.5	RPD = 48*
Aroclor-1262	1	9.078	0.007	6178969	310.5	1	9.126	0.005	5848869	307.3
Aroclor-1262	2	9.379	0.011	15863896	327.9	2	9.507	0.005	15195069	870.1
Aroclor-1262	3	9.719	0.011	9213874	626.4	3	9.716	0.006	14838383	416.6
Aroclor-1262	4	9.868	0.009	3588487	182.7	4	10.125	-0.022	28856429	2010.9
Aroclor-1262	5	10.416	0.017	12076021	858.9	5	10.795	0.008	7522440	758.9
Total Col1Ave (5 peaks):				461.3		Total Col2Ave (5 peaks):			872.7	RPD = 62*
Corrected Ave (4 peaks):				361.9		Corrected Ave (4 peaks):			588.2	RPD = 48*
Aroclor-1268	1	9.807	0.010	3304950	65.0	1	10.125	-0.021	28856429	822.2
Aroclor-1268	2	9.868	0.011	3588487	78.6	2	10.203	-0.001	10796966	337.0
Aroclor-1268	3	10.205	0.026	1548428	39.7	3	10.543	0.004	2406303	92.6
Aroclor-1268	4	10.825	0.011	3260382	35.7	4	11.195	0.000	2105024	30.9

307

1158

624

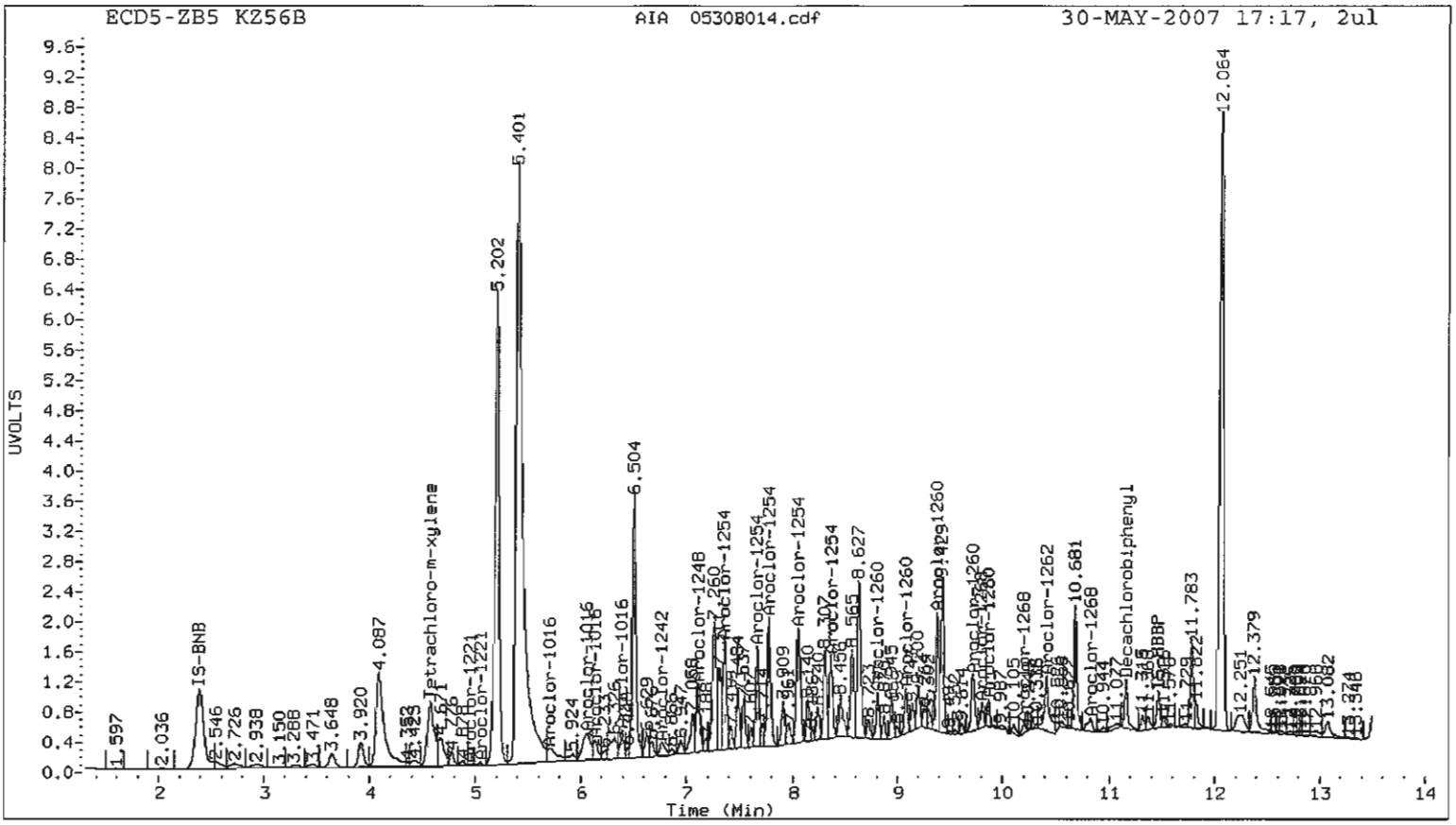
Total Col1Ave (4 peaks):	54.8	Total Col2Ave (4 peaks):	320.7	RPD = 142*
Corrected Ave (4 peaks):	54.8	Corrected Ave (3 peaks):	153.5	RPD = 95*

Total PCB Area Col1 (4.673 - 11.049) = 746315143 Col1 Total PCB = 3.6 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 685678185 Col2 Total PCB = 6.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
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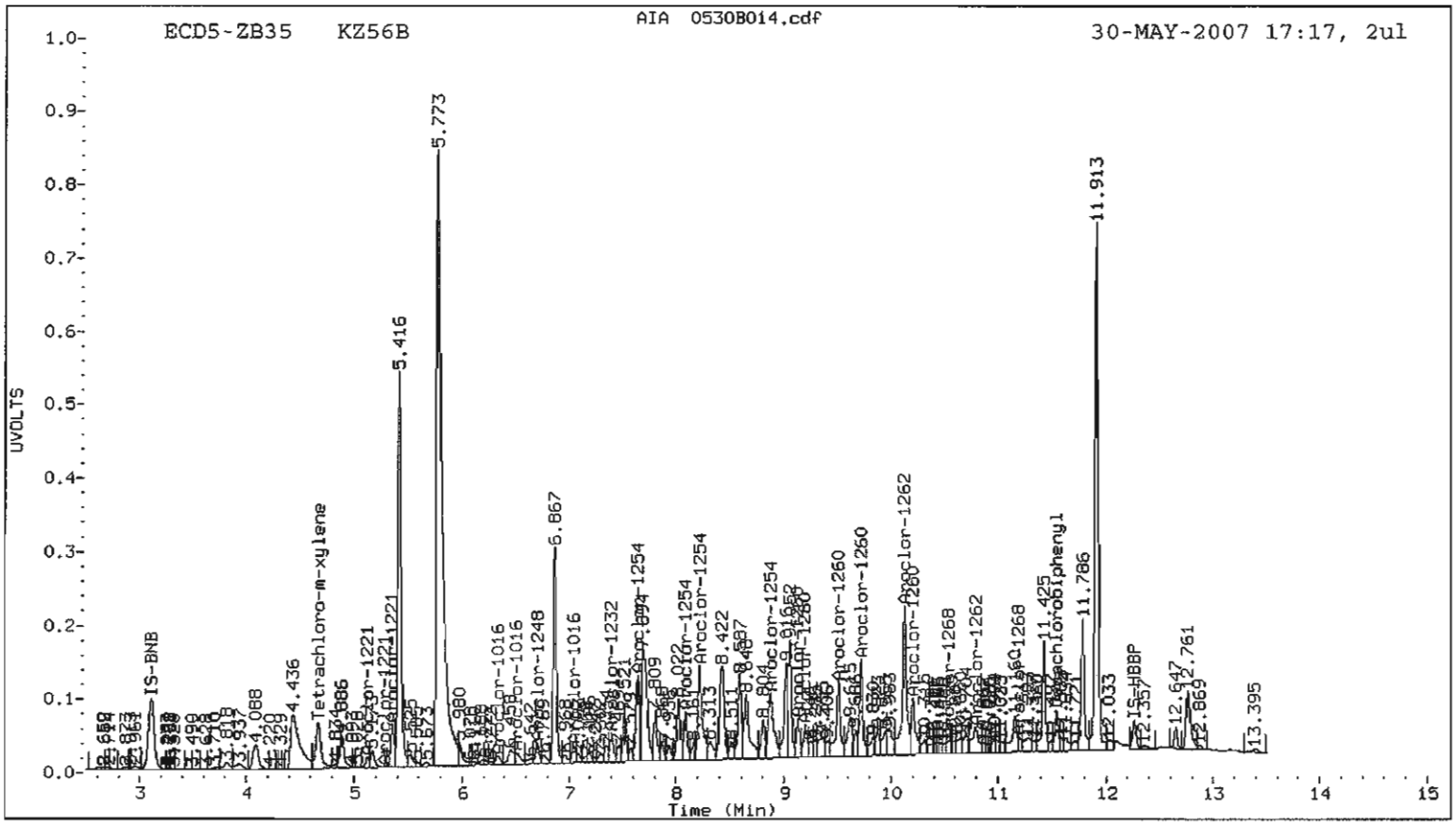
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC01-S
DILUTION

Lab Sample ID: KZ56B
LIMS ID: 07-9548
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 72.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	30	**100**
11096-82-5	**Aroclor 1260**	30	**72**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.0%
Tetrachlorometaxylene	114%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B006.d
Data file 2: 20070529.b/0531-2.b/0531B006.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56B
Client ID:
Injection Date: 31-MAY-2007 16:15
Report Date: 06/04/2007 12:13
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.574	0.001	5337940	4.669	-0.002	3025687	15.2	14.1	7.6	Tetrachloro-m-xylene M
11.154	0.004	1701165	11.540	-0.002	835792	11.2	10.6	5.3	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	114.1	105.7
Decachlorobiphenyl	84.2	79.8

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29605793	-8.2
Hexabromobiphenyl	5108210	3795254	-25.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18949670	-6.7
Hexabromobiphenyl	3608946	2551693	-29.3

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT (ZB5 Col)	Shift	Area	Amount	Peak#	RT (ZB35 Col)	Shift	Area	Amount
Aroclor-1016	1	5.707	-0.026	1708665	185.8	1	---			0.0
Aroclor-1016	2	6.067	0.044	2309027	77.9	2	6.343	-0.001	301998	16.7
Aroclor-1016	3	6.139	0.003	926332	79.5	3	6.514	0.008	558638	78.0
Aroclor-1016	4	6.393	0.001	1015301	136.0	4	7.046	0.002	781115	134.2
Total Col1Ave (4 peaks):				119.8		Total Col2Ave (3 peaks):			76.3	RPD = 44*
Corrected Ave (4 peaks):				119.8		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.779	-0.047	786136	148.3	1	5.128	0.002	450618	146.6
Aroclor-1221	2	---			0.0	2	5.282	-0.017	11822	6.5
Aroclor-1221	3	5.048	0.022	226927	22.2	3	5.355	-0.027	1964477	345.7
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 166.3				
Aroclor-1232	1	5.048	0.021	226927	27.1	1	5.355	-0.026	1964477	424.3
Aroclor-1232	2	5.707	-0.027	1708665	416.1	2	---			0.0
Aroclor-1232	3	6.067	0.043	2309027	174.5	3	6.343	-0.001	301998	38.0
Aroclor-1232	4	6.139	0.002	926332	177.9	4	7.399	0.000	1169965	384.0
Total Col1Ave (4 peaks):				198.9		Total Col2Ave (3 peaks):			282.1	RPD = 35
Corrected Ave (3 peaks):				126.5		Corrected Ave (3 peaks):			282.1	RPD = 76*
Aroclor-1242	1	5.707	-0.028	1708665	206.6	1	5.355	-0.026	1964477	482.2
Aroclor-1242	2	6.067	0.041	2309027	86.3	2	---			0.0
Aroclor-1242	3	6.139	0.002	926332	87.3	3	6.343	-0.001	301998	18.9
Aroclor-1242	4	6.777	0.011	931119	95.1	4	6.514	0.008	558638	86.1
Aroclor-1242	NS	---			----	5	7.399	0.000	1169965	190.9
Total Col1Ave (4 peaks):				118.8		Total Col2Ave (4 peaks):			194.5	RPD = 48*
Corrected Ave (3 peaks):				89.6		Corrected Ave (3 peaks):			98.6	RPD = 10
Aroclor-1248	1	6.067	0.047	2309027	121.2	1	6.343	0.001	301998	25.9
Aroclor-1248	2	6.139	0.000	926332	151.2	2	6.710	0.001	943549	150.5
Aroclor-1248	3	6.393	0.001	1015301	99.7	3	7.046	0.002	781115	98.3
Aroclor-1248	4	6.777	0.013	931119	64.4	4	7.399	0.000	1169965	112.4
Aroclor-1248	5	7.110	0.010	3600646	193.2	NS	---			----
Total Col1Ave (5 peaks):				125.9		Total Col2Ave (4 peaks):			96.8	RPD = 26
Corrected Ave (5 peaks):				125.9		Corrected Ave (4 peaks):			96.8	RPD = 26
Aroclor-1254	1	7.357	0.006	5491215	267.2	1	7.641	-0.007	4184398	382.4
Aroclor-1254	2	7.663	0.005	4659125	348.9	2	8.086	0.001	1937860	254.9
Aroclor-1254	3	7.772	0.004	6157521	253.5	3	8.211	0.001	4700928	291.6
Aroclor-1254	4	8.051	0.000	6904700	269.1	4	8.867	0.007	3881423	413.6
Aroclor-1254	5	8.360	0.003	4469192	282.8	NS	---			----
Total Col1Ave (5 peaks):				284.3		Total Col2Ave (4 peaks):			335.6	RPD = 17
Corrected Ave (5 peaks):				284.3		Corrected Ave (4 peaks):			335.6	RPD = 17
Aroclor-1260	1	8.807	0.004	2091183	198.6	1	9.121	0.000	1308269	260.7
Aroclor-1260	2	9.075	0.003	2216303	236.8	2	9.188	0.000	616138	200.0
Aroclor-1260	3	9.374	0.005	4872001	206.0	3	9.501	-0.002	2784832	462.4
Aroclor-1260	4	9.714	0.006	2557298	223.5	4	9.710	0.000	3369423	246.6
Aroclor-1260	5	9.865	0.007	1004247	177.6	5	10.198	-0.001	1994049	261.2
Total Col1Ave (5 peaks):				208.5		Total Col2Ave (5 peaks):			286.2	RPD = 31
Corrected Ave (5 peaks):				208.5		Corrected Ave (5 peaks):			286.2	RPD = 31
Aroclor-1262	1	9.075	0.004	2216303	151.5	1	9.121	0.001	1308269	134.5
Aroclor-1262	2	9.374	0.005	4872001	136.9	2	9.501	-0.001	2784832	312.0
Aroclor-1262	3	9.714	0.006	2557298	236.4	3	9.710	-0.001	3369423	185.1
Aroclor-1262	4	9.865	0.006	1004247	69.5	4	10.118	-0.030	6334850	863.7
Aroclor-1262	5	10.407	0.008	2781871	269.0	5	10.788	0.001	917123	181.0
Total Col1Ave (5 peaks):				172.7		Total Col2Ave (5 peaks):			335.2	RPD = 64*
Corrected Ave (5 peaks):				172.7		Corrected Ave (4 peaks):			203.1	RPD = 16
Aroclor-1268	1	9.802	0.005	1034598	27.7	1	10.118	-0.028	6334850	353.1
Aroclor-1268	2	9.865	0.008	1004247	29.9	2	10.198	-0.006	1994049	121.8
Aroclor-1268	3	10.198	0.019	408474	14.2	3	10.539	0.000	243758	18.3
Aroclor-1268	4	10.824	0.010	617820	9.2	4	11.188	-0.007	144210	4.1

2/2

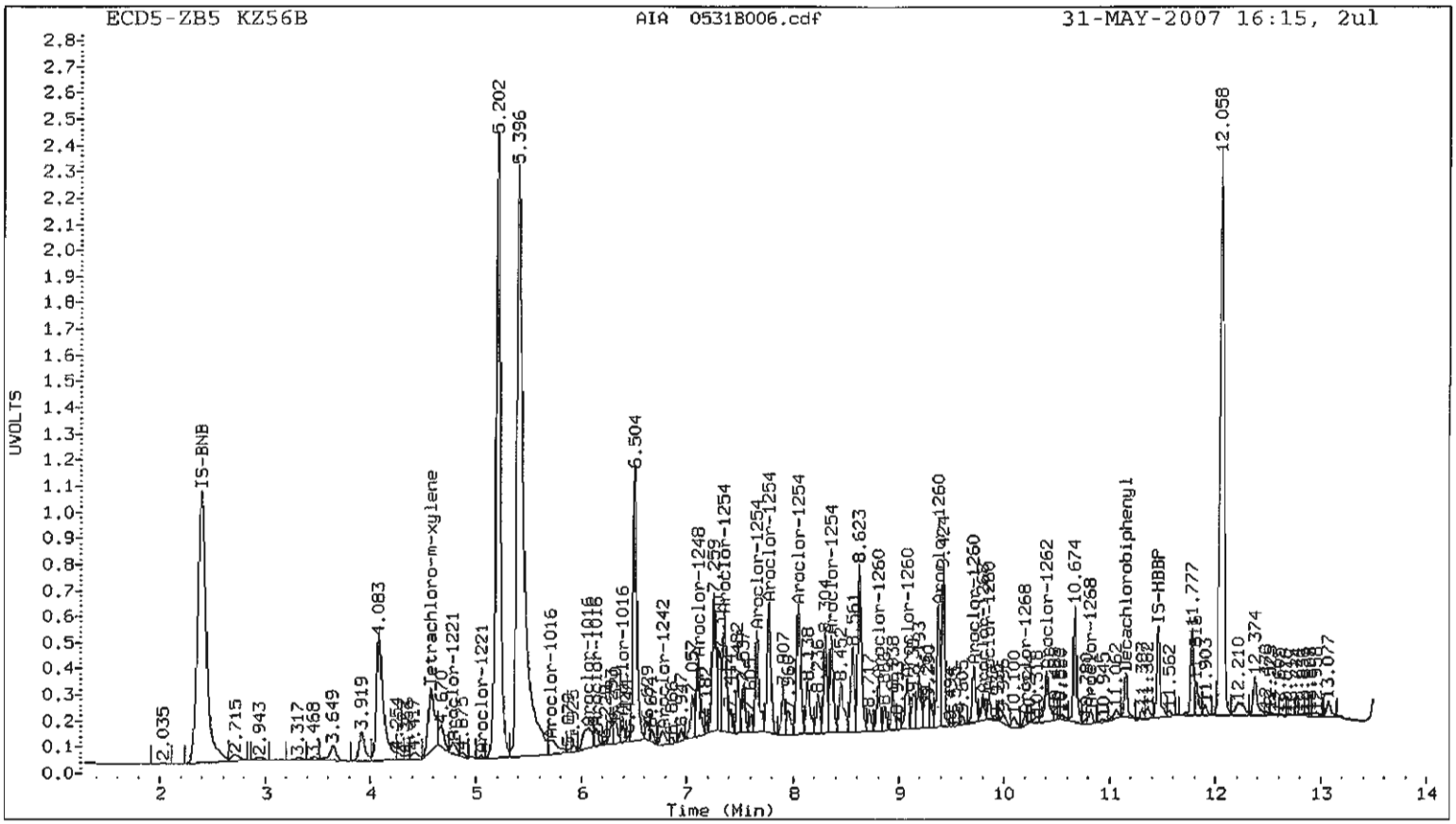
Total Col1Ave (4 peaks):	20.3	Total Col2Ave (4 peaks):	124.4	RPD = 144*
Corrected Ave (4 peaks):	20.3	Corrected Ave (3 peaks):	48.1	RPD = 81*

Total PCB Area Col1 (4.673 - 11.049) = 232016491 Col1 Total PCB = 1.1 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 74914116 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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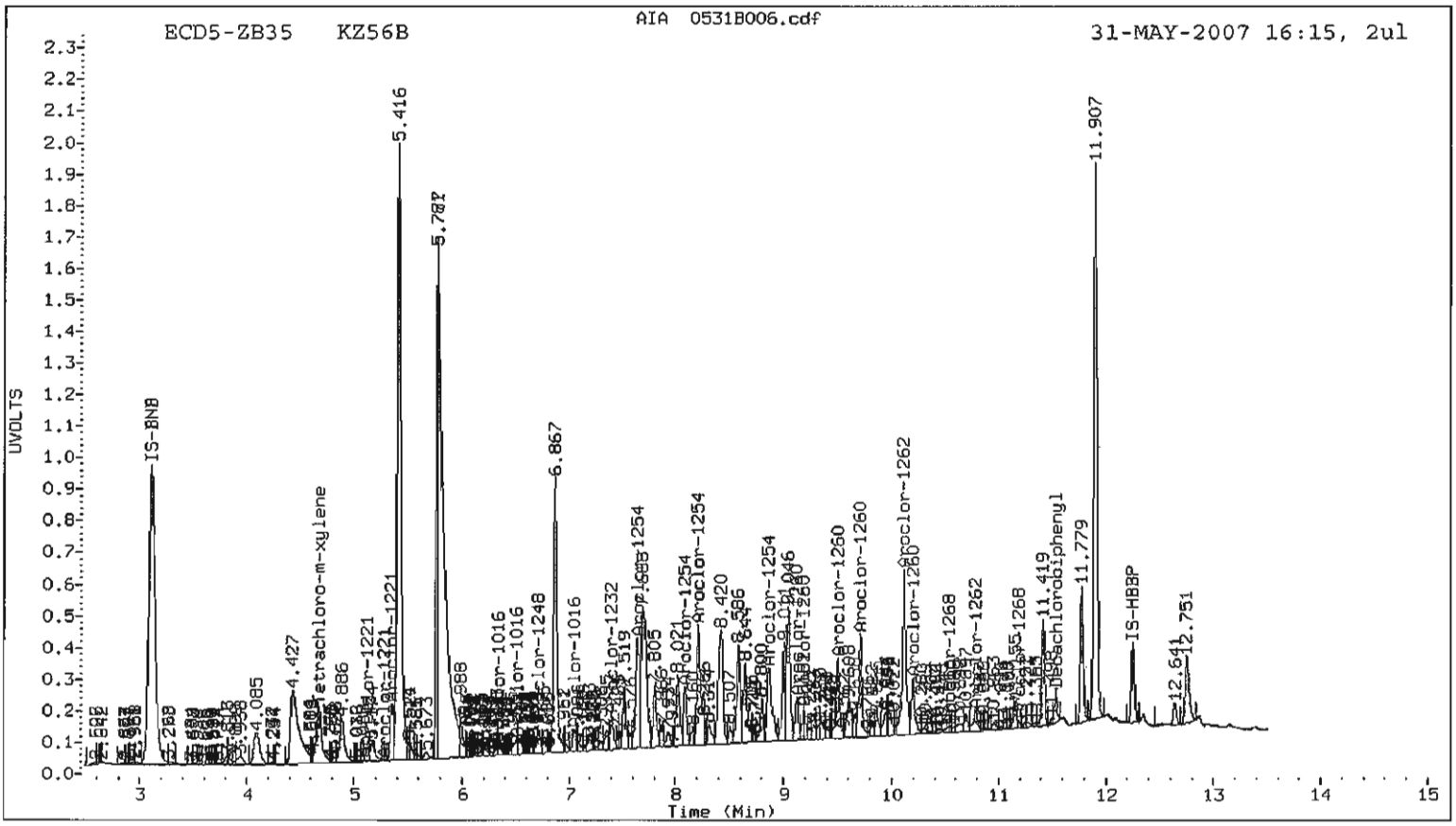
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
2.035
2.715
2.943
3.317
3.649
3.919
4.083
5.202
5.396
6.504
8.623
10.674
11.777
11.903
12.058
12.210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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
4.085
4.427
5.416
5.787
6.867
8.420
11.907
11.779
12.641
12.751

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC13-S
SAMPLE

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 58.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	30	< 30 Y
11097-69-1	**Aroclor 1254**	**9.8**	**87**
11096-82-5	**Aroclor 1260**	**9.8**	**82**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	126%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B015.d
Data file 2: 20070529.b/0530-2.b/0530B015.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56C
Client ID: Y3-RC13-S
Injection Date: 30-MAY-2007 17:35
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.576	0.003	13477595	4.671	0.000	10723937	43.9	50.5	13.8	Tetrachloro-m-xylene
11.161	0.011	6094949	11.544	0.002	4797605	32.4	38.1	16.2	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	109.8	126.1
Decachlorobiphenyl	81.0	95.3

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	25885950	-19.7
Hexabromobiphenyl	5108210	4709170	-7.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18757133	-7.7
Hexabromobiphenyl	3608946	4087768	13.3

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.729	-0.004	1806377	224.6	1	---			0.0
Aroclor-1016	2	6.058	0.035	9327497	359.7	2	6.347	0.002	1413884	79.1
Aroclor-1016	3	6.136	0.000	3337338	327.6	3	6.521	0.014	2625939	370.6
Aroclor-1016	4	6.393	0.002	3363274	515.2	4	7.047	0.004	1728785	300.1
Total Col1Ave (4 peaks):				356.8		Total Col2Ave (3 peaks):			249.9	RPD = 35
Corrected Ave (4 peaks):				356.8		Corrected Ave (3 peaks):			249.9	RPD = 35
Aroclor-1221	1	---			0.0	1	5.126	0.001	762246	250.5
Aroclor-1221	2	4.961	0.007	287921	102.5	2	---			0.0
Aroclor-1221	3	5.048	0.022	619339	69.4	3	5.353	-0.028	13072003	2323.8
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.048	0.022	619339	84.4	1	5.353	-0.028	13072003	2852.3
Aroclor-1232	2	5.729	-0.005	1806377	503.1	2	---			0.0
Aroclor-1232	3	6.058	0.034	9327497	806.2	3	6.347	0.002	1413884	180.0
Aroclor-1232	4	6.136	-0.001	3337338	732.9	4	7.401	0.002	2898965	961.3
Total Col1Ave (4 peaks):				531.7		Total Col2Ave (3 peaks):			1331.2	RPD = 86*
Corrected Ave (4 peaks):				531.7		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.729	-0.006	1806377	249.8	1	5.353	-0.027	13072003	3241.6
Aroclor-1242	2	6.058	0.032	9327497	398.7	2	---			0.0
Aroclor-1242	3	6.136	-0.001	3337338	359.8	3	6.347	0.002	1413884	89.3
Aroclor-1242	4	6.772	0.006	2303557	269.1	4	6.521	0.015	2625939	409.0
Aroclor-1242	NS	---			----	5	7.401	0.002	2898965	477.9
Total Col1Ave (4 peaks):				319.3		Total Col2Ave (4 peaks):			1054.5	RPD = 107*
Corrected Ave (4 peaks):				319.3		Corrected Ave (3 peaks):			325.4	RPD = 2
Aroclor-1248	1	6.058	0.038	9327497	559.7	1	6.347	0.004	1413884	122.7
Aroclor-1248	2	6.136	-0.003	3337338	623.0	2	6.711	0.002	1714661	276.4
Aroclor-1248	3	6.393	0.002	3363274	377.8	3	7.047	0.003	1728785	219.9
Aroclor-1248	4	6.772	0.007	2303557	182.3	4	7.401	0.002	2898965	281.5
Aroclor-1248	5	7.114	0.014	9154692	561.8	NS	---			----
Total Col1Ave (5 peaks):				460.9		Total Col2Ave (4 peaks):			225.1	RPD = 69*
Corrected Ave (5 peaks):				460.9		Corrected Ave (4 peaks):			225.1	RPD = 69*
Aroclor-1254	1	7.358	0.006	16340066	909.4	1	7.645	-0.003	14413942	1330.6
Aroclor-1254	2	7.667	0.009	13580517	1163.1	2	8.090	0.005	5424095	720.9
Aroclor-1254	3	7.778	0.009	18415090	867.0	3	8.214	0.003	15988598	1002.1
Aroclor-1254	4	8.055	0.003	20024058	892.6	4	8.871	0.011	8555656	921.1
Aroclor-1254	5	8.366	0.008	10816779	782.7	NS	---			----
Total Col1Ave (5 peaks):				923.0		Total Col2Ave (4 peaks):			993.7	RPD = 7
Corrected Ave (5 peaks):				923.0		Corrected Ave (4 peaks):			993.7	RPD = 7
Aroclor-1260	1	8.814	0.011	8292785	634.7	1	9.129	0.008	7190066	894.5
Aroclor-1260	2	9.081	0.010	7220065	621.7	2	9.197	0.008	6729620	1363.9
Aroclor-1260	3	9.381	0.013	18464314	629.3	3	9.507	0.004	9271692	960.9
Aroclor-1260	4	9.720	0.012	9271979	653.1	4	9.717	0.007	14016444	640.4
Aroclor-1260	5	9.871	0.012	4971486	708.4	5	10.206	0.007	18893937	1545.1
Total Col1Ave (5 peaks):				649.4		Total Col2Ave (5 peaks):			1081.0	RPD = 50*
Corrected Ave (5 peaks):				649.4		Corrected Ave (5 peaks):			1081.0	RPD = 50*
Aroclor-1262	1	9.081	0.011	7220065	397.6	1	9.129	0.008	7190066	461.4
Aroclor-1262	2	9.381	0.013	18464314	418.2	2	9.507	0.004	9271692	648.4
Aroclor-1262	3	9.720	0.012	9271979	690.9	3	9.717	0.006	14016444	480.6
Aroclor-1262	4	9.871	0.012	4971486	277.3	4	10.126	-0.021	23383099	1990.0
Aroclor-1262	5	10.414	0.015	10389766	809.8	5	10.797	0.009	4275008	526.7
Total Col1Ave (5 peaks):				518.8		Total Col2Ave (5 peaks):			821.4	RPD = 45*
Corrected Ave (5 peaks):				518.8		Corrected Ave (4 peaks):			529.3	RPD = 2
Aroclor-1268	1	9.807	0.010	4545272	98.0	1	10.126	-0.020	23383099	813.7
Aroclor-1268	2	9.871	0.014	4971486	119.4	2	10.206	0.002	18893937	720.3
Aroclor-1268	3	10.208	0.029	2207983	62.0	3	10.551	0.012	1784029	83.8
Aroclor-1268	4	10.827	0.012	2738790	32.9	4	11.198	0.003	1252317	22.4

3004

863

881

832

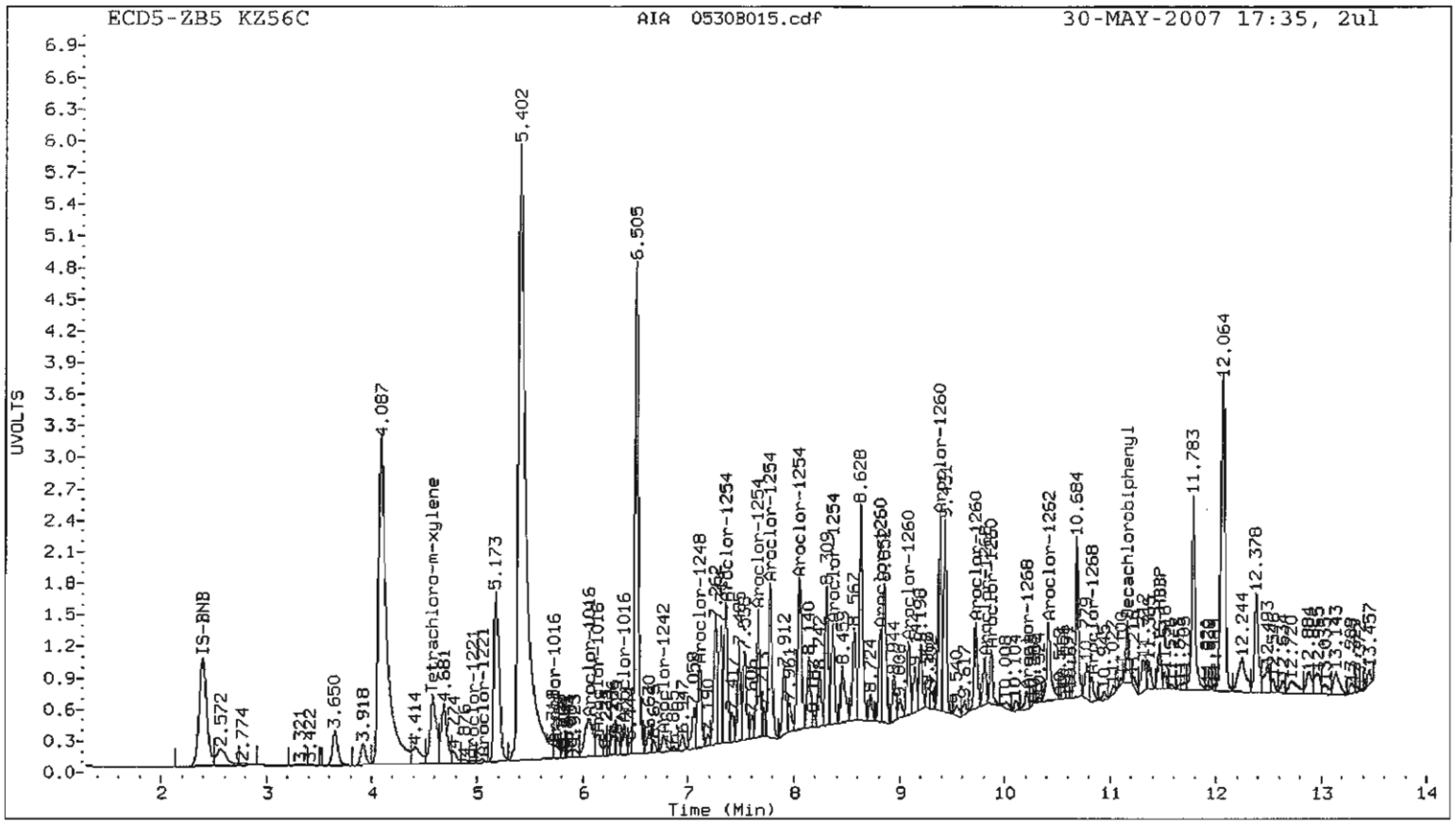
Total Col1Ave (4 peaks): 78.1 Total Col2Ave (4 peaks): 410.1 RPD = 136*
Corrected Ave (4 peaks): 78.1 Corrected Ave: < 3 Peaks

Total PCB Area Col1 (4.673 - 11.049) = 671598682 Col1 Total PCB = 3.2 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 549613686 Col2 Total PCB = 4.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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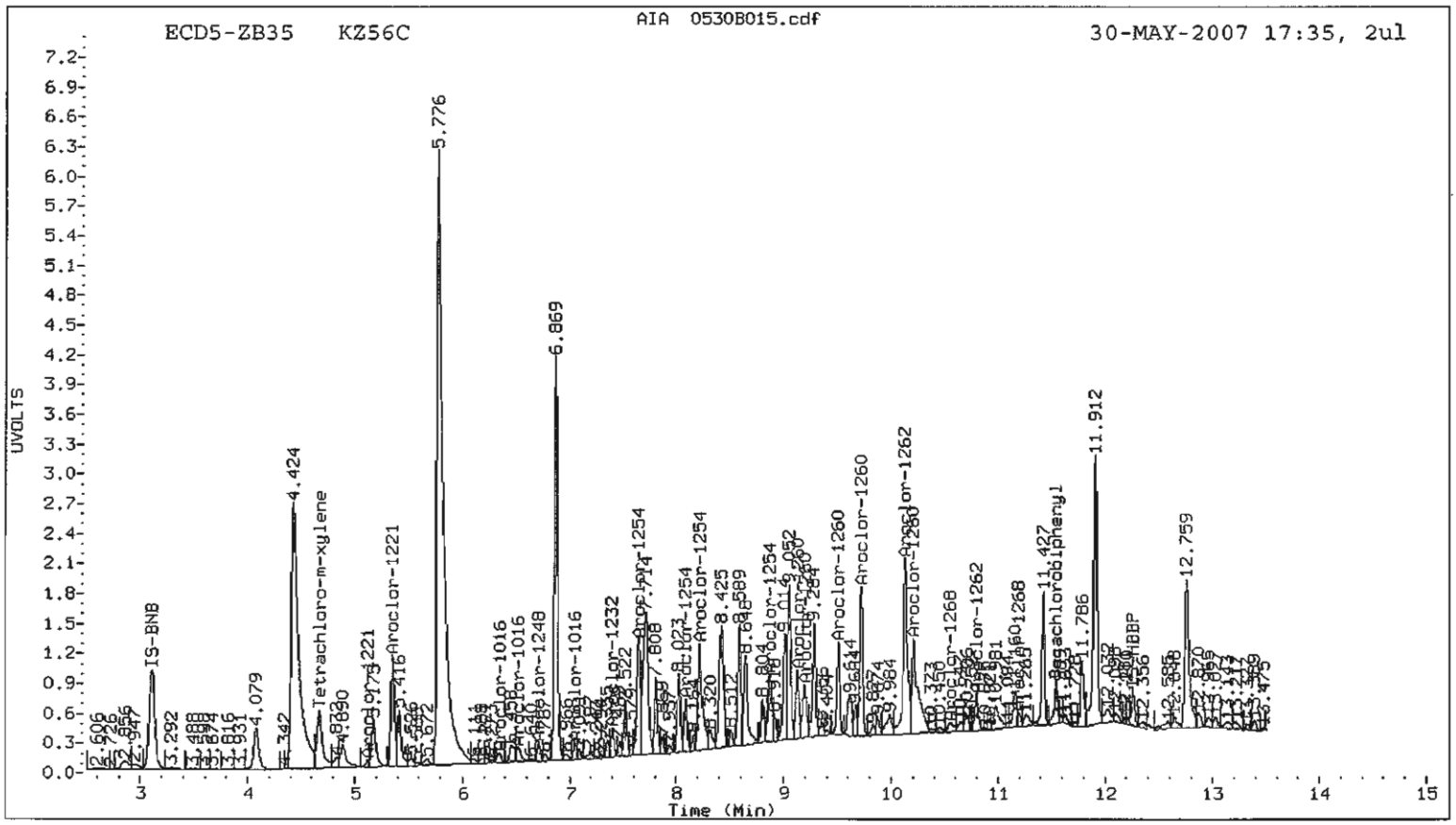
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC13-S
DILUTION

Lab Sample ID: KZ56C
LIMS ID: 07-9549
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 58.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**82**
11096-82-5	**Aroclor 1260**	**30**	**110**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	101%
Tetrachlorometaxylene	116%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B007.d
Data file 2: 20070529.b/0531-2.b/0531B007.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56C
Client ID:
Injection Date: 31-MAY-2007 16:32
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	4481045	4.672	0.001	3386110	13.4	15.4	14.1	Tetrachloro-m-xylene
11.153	0.004	1785205	11.540	-0.002	1181161	13.2	13.5	2.3	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	100.2	115.4
Decachlorobiphenyl	99.0	101.3

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28303638	-12.2
Hexabromobiphenyl	5108210	3386346	-33.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19427372	-4.4
Hexabromobiphenyl	3608946	2840246	-21.3

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	5.727	-0.007	921426	104.8	1	---			0.0
Aroclor-1016	2	6.061	0.038	2653331	93.6	2	6.345	0.001	541743	29.3
Aroclor-1016	3	6.138	0.001	1276512	114.6	3	6.525	0.018	1114964	151.9
Aroclor-1016	4	6.394	0.003	1140056	159.7	4	7.047	0.004	535056	89.7
Total Col1Ave (4 peaks):				118.2		Total Col2Ave (3 peaks):			90.3	RPD = 27
Corrected Ave (4 peaks):				118.2		Corrected Ave (3 peaks):			90.3	RPD = 27
Aroclor-1221	1	4.811	-0.015	1294937	255.5	1	5.130	0.004	224709	71.3
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	5.051	0.025	206230	21.1	3	5.355	-0.027	3866384	663.6
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.051	0.024	206230	25.7	1	5.355	-0.026	3866384	814.5
Aroclor-1232	2	5.727	-0.008	921426	234.7	2	---			0.0
Aroclor-1232	3	6.061	0.038	2653331	209.7	3	6.345	0.001	541743	66.6
Aroclor-1232	4	6.138	0.000	1276512	256.4	4	7.400	0.001	907245	290.5
Total Col1Ave (4 peaks):				181.6		Total Col2Ave (3 peaks):			390.5	RPD = 73*
Corrected Ave (4 peaks):				181.6		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.727	-0.008	921426	116.5	1	5.355	-0.026	3866384	925.7
Aroclor-1242	2	6.061	0.035	2653331	103.7	2	---			0.0
Aroclor-1242	3	6.138	0.000	1276512	125.9	3	6.345	0.000	541743	33.0
Aroclor-1242	4	6.772	0.005	756922	80.9	4	6.525	0.019	1114964	167.7
Aroclor-1242	NS	---			----	5	7.400	0.001	907245	144.4
Total Col1Ave (4 peaks):				106.7		Total Col2Ave (4 peaks):			317.7	RPD = 99*
Corrected Ave (4 peaks):				106.7		Corrected Ave (3 peaks):			115.0	RPD = 7
Aroclor-1248	1	6.061	0.041	2653331	145.6	1	6.345	0.002	541743	45.4
Aroclor-1248	2	6.138	-0.001	1276512	217.9	2	6.710	0.001	565390	88.0
Aroclor-1248	3	6.394	0.003	1140056	117.1	3	7.047	0.003	535056	65.7
Aroclor-1248	4	6.772	0.007	756922	54.8	4	7.400	0.001	907245	85.0
Aroclor-1248	5	7.112	0.013	3186391	178.8	NS	---			----
Total Col1Ave (5 peaks):				142.9		Total Col2Ave (4 peaks):			71.0	RPD = 67*
Corrected Ave (5 peaks):				142.9		Corrected Ave (4 peaks):			71.0	RPD = 67*
Aroclor-1254	1	7.357	0.005	5790001	294.7	1	7.642	-0.007	4281554	381.6
Aroclor-1254	2	7.663	0.006	5295496	414.8	2	8.086	0.001	1620979	208.0
Aroclor-1254	3	7.773	0.005	6253183	269.3	3	8.213	0.003	4870583	294.7
Aroclor-1254	4	8.050	-0.002	6992029	285.0 278	4	8.870	0.010	2594224	269.7 258
Aroclor-1254	5	8.361	0.004	3959896	262.1	NS	---			---
Total Col1Ave (5 peaks):				305.2		Total Col2Ave (4 peaks):			288.5	RPD = 6
Corrected Ave (5 peaks):				305.2		Corrected Ave (4 peaks):			288.5	RPD = 6
Aroclor-1260	1	8.812	0.009	2814298	299.5	1	9.121	0.000	2154873	385.8
Aroclor-1260	2	9.076	0.005	2729270	326.8	2	9.190	0.001	1842413	537.4
Aroclor-1260	3	9.374	0.005	5730112	271.6	3	9.503	0.000	2915973	434.9
Aroclor-1260	4	9.714	0.006	3268909	320.2	4	9.711	0.001	3881344	255.2 359
Aroclor-1260	5	9.863	0.005	2246988	445.3	5	10.200	0.001	4528426	533.1
Total Col1Ave (5 peaks):				332.7		Total Col2Ave (5 peaks):			429.3	RPD = 25
Corrected Ave (5 peaks):				332.7		Corrected Ave (5 peaks):			429.3	RPD = 25
Aroclor-1262	1	9.076	0.005	2729270	209.0	1	9.121	0.000	2154873	199.0
Aroclor-1262	2	9.374	0.006	5730112	180.5	2	9.503	0.001	2915973	293.5
Aroclor-1262	3	9.714	0.006	3268909	338.7	3	9.711	0.000	3881344	191.6
Aroclor-1262	4	9.863	0.004	2246988	174.3	4	10.119	-0.028	6186497	757.7
Aroclor-1262	5	10.407	0.008	3212938	348.3	5	10.787	0.000	1133975	201.1
Total Col1Ave (5 peaks):				250.2		Total Col2Ave (5 peaks):			328.6	RPD = 27
Corrected Ave (5 peaks):				250.2		Corrected Ave (4 peaks):			221.3	RPD = 12
Aroclor-1268	1	9.801	0.004	1832878	55.0	1	10.119	-0.027	6186497	309.8
Aroclor-1268	2	9.863	0.006	2246988	75.1	2	10.200	-0.004	4528426	248.5
Aroclor-1268	3	10.202	0.023	478481	18.7	3	10.546	0.007	495516	33.5
Aroclor-1268	4	10.821	0.007	796709	13.3	4	11.196	0.001	502172	13.0

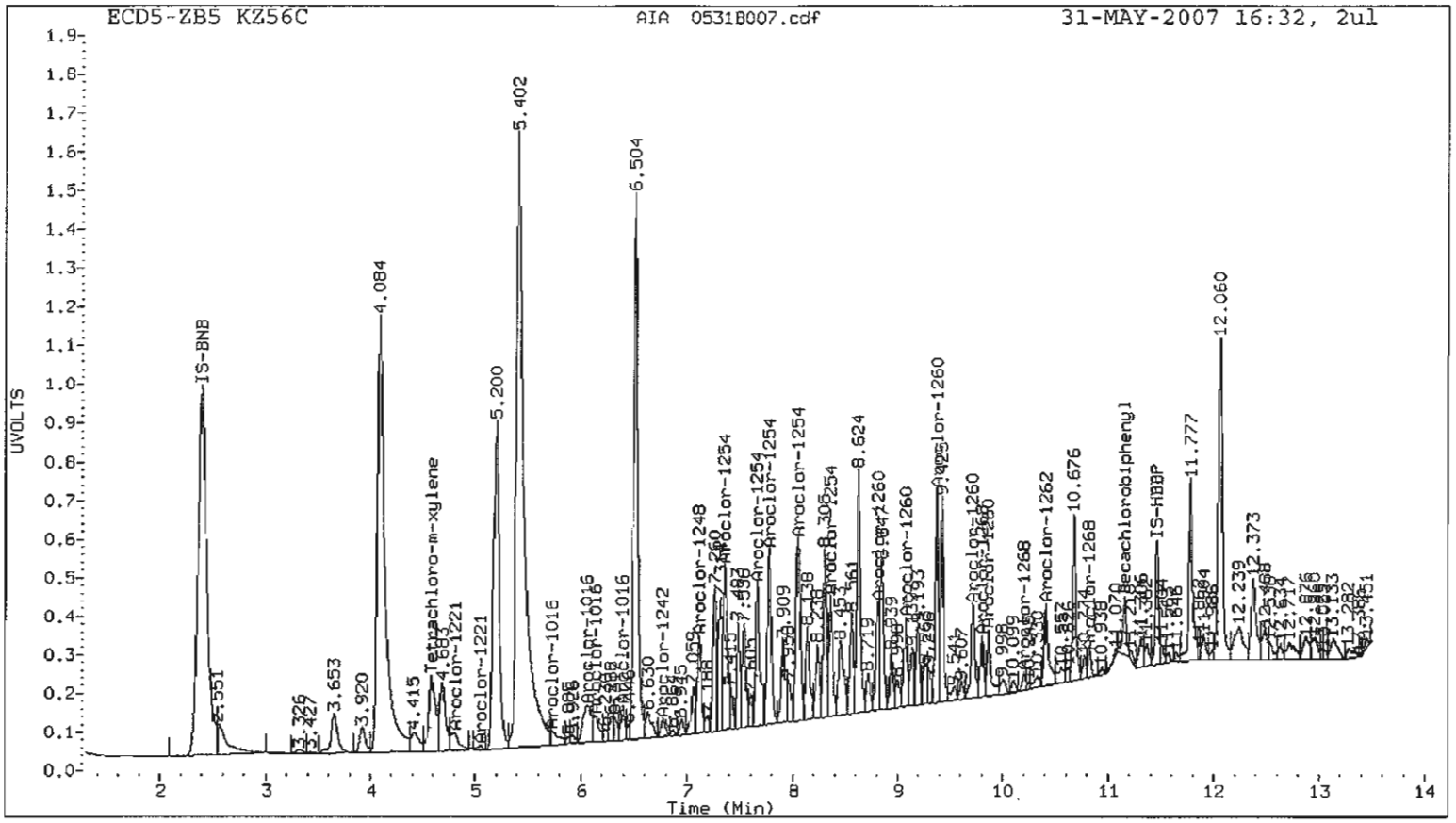
Total Col1Ave (4 peaks):	40.5	Total Col2Ave (4 peaks):	151.2	RPD = 115*
Corrected Ave (3 peaks):	29.0	Corrected Ave (3 peaks):	98.3	RPD = 109*

Total PCB Area Col1 (4.673 - 11.049) = 228302929 Col1 Total PCB = 1.1 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 161790907 Col2 Total PCB = 1.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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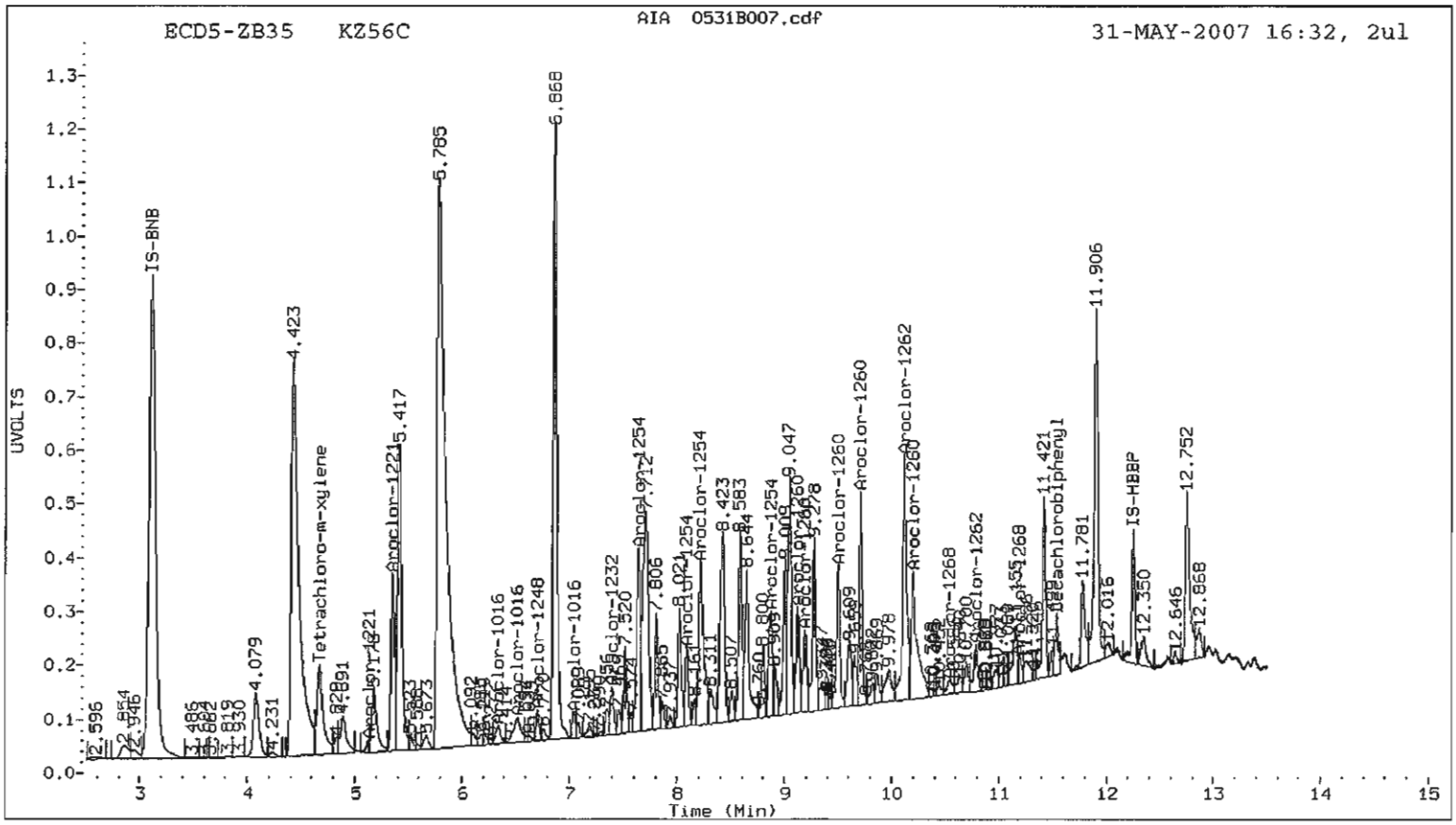
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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IS-BNB
Tetrachloro-m-xylene
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Aroclor-1016
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC14-S
SAMPLE

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 17:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.9
Percent Moisture: 46.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	20	< 20 Y
11097-69-1	**Aroclor 1254**	10	**66**
11096-82-5	**Aroclor 1260**	10	**44**
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	118%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B016.d
Data file 2: 20070529.b/0530-2.b/0530B016.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56D
Client ID: Y3-RC14-S
Injection Date: 30-MAY-2007 17:52
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.577	0.004	13759169	4.671	0.000	10016712	43.7	47.4	8.1	Tetrachloro-m-xylene
11.158	0.009	6463247	11.546	0.004	4644823	38.1	36.8	3.4	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	109.3	118.5
Decachlorobiphenyl	95.3	92.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	26550692	-17.7
Hexabromobiphenyl	5108210	4246201	-16.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18652010	-8.2
Hexabromobiphenyl	3608946	4096826	13.5

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	6.055	0.032	6881552	258.7	2	6.345	0.000	1460211	82.1
Aroclor-1016	3	6.137	0.001	2222912	212.8	3	6.521	0.015	1911241	271.3
Aroclor-1016	4	6.394	0.002	2396459	357.9	4	7.046	0.002	1064122	185.8
Total Col1Ave (3 peaks):				276.5		Total Col2Ave (3 peaks):			179.7	RPD = 42*
Corrected Ave (3 peaks):				276.5		Corrected Ave (3 peaks):			179.7	RPD = 42*
Aroclor-1221	1	4.780	-0.046	1473665	310.0	1	5.127	0.001	613635	202.8
Aroclor-1221	2	4.967	0.013	194699	67.6	2	---			0.0
Aroclor-1221	3	5.052	0.026	622183	68.0	3	5.355	-0.026	9061378	1619.9
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				148.5		Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.052	0.025	622183	82.7	1	5.355	-0.026	9061378	1988.3
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	6.055	0.032	6881552	579.9	3	6.345	0.000	1460211	186.9
Aroclor-1232	4	6.137	0.000	2222912	475.9	4	7.402	0.003	2120132	707.0
Total Col1Ave (3 peaks):				379.5		Total Col2Ave (3 peaks):			960.7	RPD = 87*
Corrected Ave (3 peaks):				379.5		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	---			0.0	1	5.355	-0.026	9061378	2259.7
Aroclor-1242	2	6.055	0.029	6881552	286.8	2	---			0.0
Aroclor-1242	3	6.137	0.000	2222912	233.6	3	6.345	0.000	1460211	92.7
Aroclor-1242	4	6.777	0.010	1309049	149.1	4	6.521	0.015	1911241	299.4
Aroclor-1242	NS	---			----	5	7.402	0.003	2120132	351.5
Total Col1Ave (3 peaks):				223.2		Total Col2Ave (4 peaks):			750.8	RPD = 108*
Corrected Ave (3 peaks):				223.2		Corrected Ave (3 peaks):			247.9	RPD = 10
Aroclor-1248	1	6.055	0.035	6881552	402.6	1	6.345	0.002	1460211	127.4
Aroclor-1248	2	6.137	-0.002	2222912	404.6	2	6.709	0.001	1153555	187.0
Aroclor-1248	3	6.394	0.003	2396459	262.4	3	7.046	0.002	1064122	136.1
Aroclor-1248	4	6.777	0.012	1309049	101.0	4	7.402	0.003	2120132	207.0
Aroclor-1248	5	7.114	0.015	6043427	361.6	NS	---			----
Total Col1Ave (5 peaks):				306.4		Total Col2Ave (4 peaks):			164.4	RPD = 60*
Corrected Ave (5 peaks):				306.4		Corrected Ave (4 peaks):			164.4	RPD = 60*
Aroclor-1254	1	7.359	0.007	11627035	630.9	1	7.643	-0.005	10797462	1002.4
Aroclor-1254	2	7.664	0.007	12594660	1051.7	2	8.091	0.006	3486291	465.9
Aroclor-1254	3	7.776	0.008	11167745	512.6	3	8.216	0.005	10570913	666.2
Aroclor-1254	4	8.050	-0.002	12829272	557.5	4	8.871	0.011	7792705	843.7
Aroclor-1254	5	8.364	0.007	7983778	563.3	NS	---			----
Total Col1Ave (5 peaks):				663.2		Total Col2Ave (4 peaks):			744.6	RPD = 12
Corrected Ave (5 peaks):				663.2		Corrected Ave (4 peaks):			744.6	RPD = 12
Aroclor-1260	1	8.811	0.008	4359021	370.0	1	9.126	0.005	3403557	422.5
Aroclor-1260	2	9.081	0.010	4831383	461.4	2	9.191	0.002	2502417	506.0
Aroclor-1260	3	9.378	0.010	10698468	404.4	3	9.507	0.004	6567511	679.1
Aroclor-1260	4	9.718	0.010	6168150	481.8	4	9.714	0.005	8646010	394.2
Aroclor-1260	5	9.869	0.011	3023104	477.8	5	10.203	0.004	4692077	382.9
Total Col1Ave (5 peaks):				439.1		Total Col2Ave (5 peaks):			476.9	RPD = 8
Corrected Ave (5 peaks):				439.1		Corrected Ave (5 peaks):			476.9	RPD = 8
Aroclor-1262	1	9.081	0.011	4831383	295.1	1	9.126	0.005	3403557	217.9
Aroclor-1262	2	9.378	0.010	10698468	268.7	2	9.507	0.004	6567511	458.3
Aroclor-1262	3	9.718	0.010	6168150	509.7	3	9.714	0.004	8646010	295.8
Aroclor-1262	4	9.869	0.010	3023104	187.0	4	10.124	-0.023	16356428	1388.9
Aroclor-1262	5	10.414	0.015	8253597	713.5	5	10.795	0.008	2419492	297.4
Total Col1Ave (5 peaks):				394.8		Total Col2Ave (5 peaks):			531.7	RPD = 30
Corrected Ave (4 peaks):				315.1		Corrected Ave (4 peaks):			317.4	RPD = 1
Aroclor-1268	1	9.801	0.004	2621581	62.7	1	10.124	-0.022	16356428	567.9
Aroclor-1268	2	9.869	0.012	3023104	80.5	2	10.203	-0.001	4692077	178.5
Aroclor-1268	3	10.209	0.030	761413	23.7	3	10.559	0.020	1043984	48.9
Aroclor-1268	4	10.822	0.008	1571769	20.9	4	11.160	-0.035	3610678	64.6

566 659 2001 426

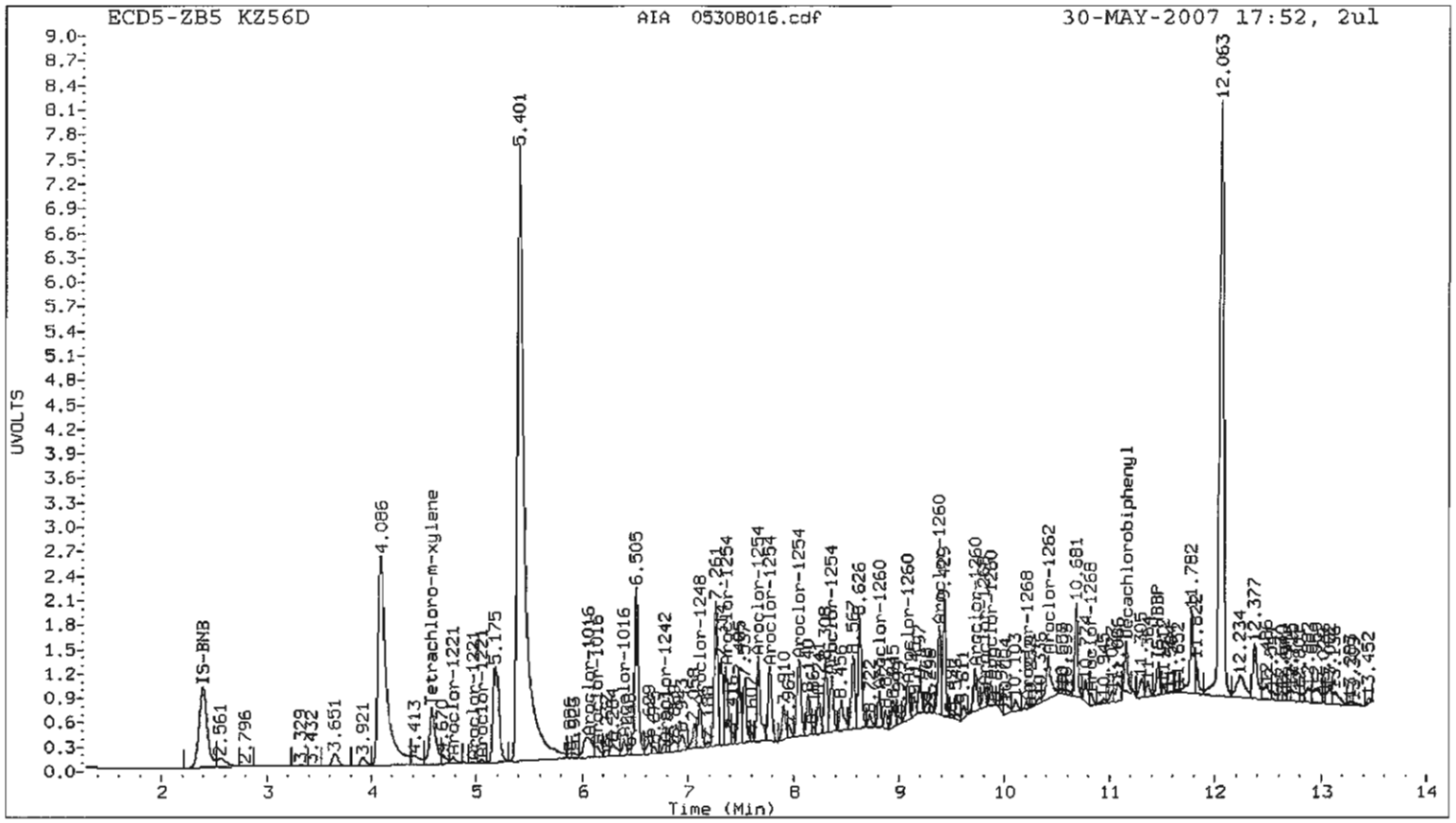
Total Col1Ave (4 peaks):	47.0	Total Col2Ave (4 peaks):	215.0	RPD = 128*
Corrected Ave (3 peaks):	35.8	Corrected Ave (3 peaks):	97.3	RPD = 92*

Total PCB Area Col1 (4.673 - 11.049) = 543322783 Col1 Total PCB = 2.6 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 441685502 Col2 Total PCB = 3.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
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Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Aroclor-1248
Aroclor-1242
Aroclor-1016
Decachlorobiphenyl
5.401
12.063
4.086
6.505
5.175
11.782
12.234
12.377
2.561
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3.651
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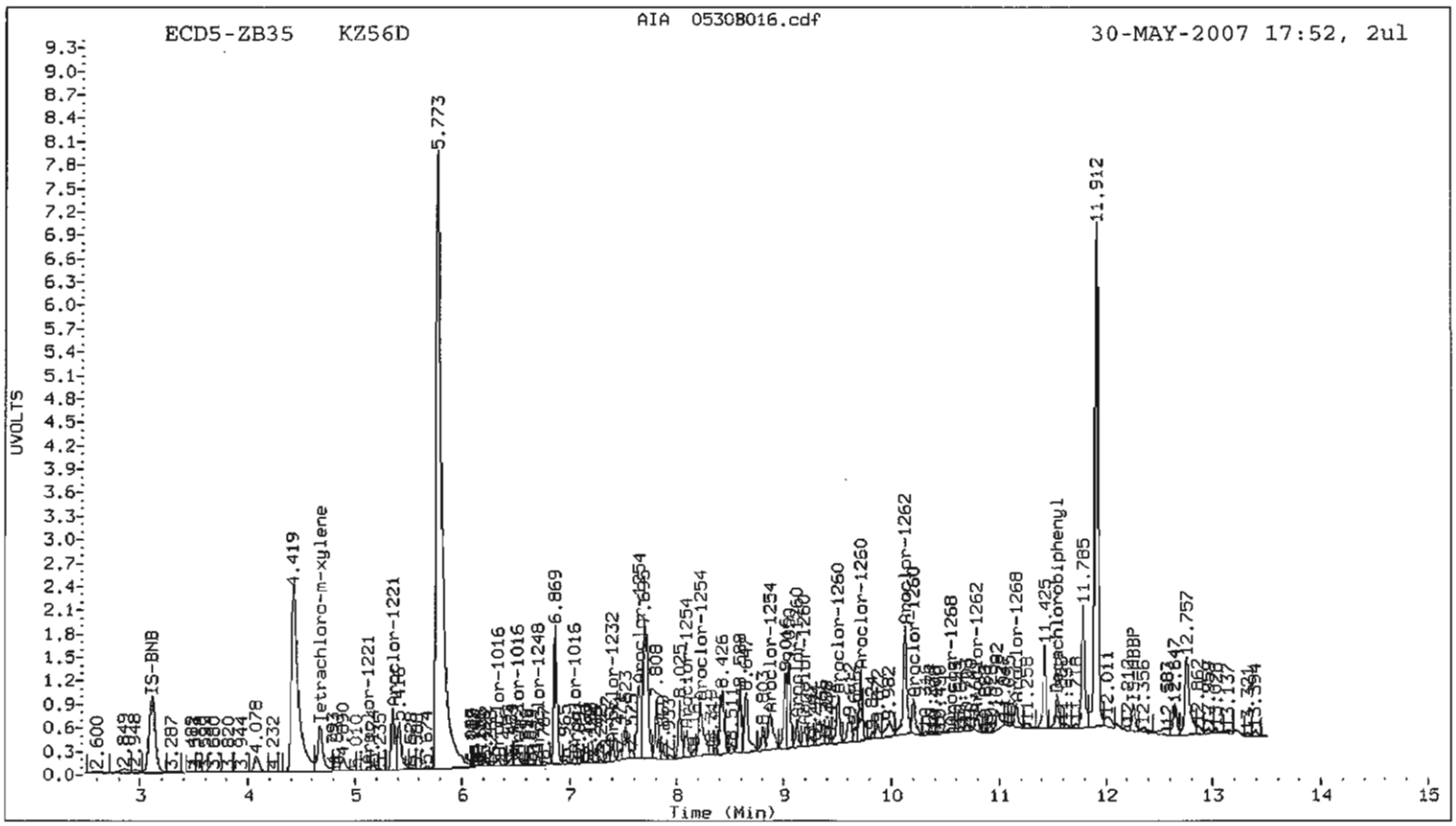
10.681
13.452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IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Aroclor-1248
Aroclor-1232
Aroclor-1016
Decachlorobiphenyl
5.773
11.912
4.419
6.869
11.785
12.011
12.757
2.600
2.848
3.287
4.078
4.232
11.425
12.011

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC14-S
DILUTION

Lab Sample ID: KZ56D
LIMS ID: 07-9550
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 16:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 6.9
Percent Moisture: 46.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	Aroclor 1254	30	60
11096-82-5	Aroclor 1260	30	62
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	115%
Tetrachlorometaxylene	109%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B008.d
Data file 2: 20070529.b/0531-2.b/0531B008.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56D
Client ID:
Injection Date: 31-MAY-2007 16:49
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.005	5271413	4.671	0.000	3390345	14.3	14.5	1.0	Tetrachloro-m-xylene
11.152	0.003	2014920	11.540	-0.002	1323767	15.3	13.7	11.3	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	107.4	108.5
Decachlorobiphenyl	115.0	102.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	31048608	-3.7
Hexabromobiphenyl	5108210	3289970	-35.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20677932	1.8
Hexabromobiphenyl	3608946	3140621	-13.0

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	6.031	0.007	769064	24.7	2	6.342	-0.003	584046	29.6
Aroclor-1016	3	6.137	0.001	749925	61.4	3	6.521	0.015	897482	114.9
Aroclor-1016	4	6.394	0.002	787449	100.6	4	7.045	0.002	319490	50.3
Total Col1Ave (3 peaks):				62.2		Total Col2Ave (3 peaks):			64.9	RPD = 4
Corrected Ave (3 peaks):				62.2		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.809	-0.017	1188454	213.8	1	5.125	0.000	183190	54.6
Aroclor-1221	2	---			0.0	2	5.266	-0.032	14907	7.5
Aroclor-1221	3	5.049	0.023	199624	18.7	3	5.353	-0.028	2856995	460.7
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 174.3				
Aroclor-1232	1	5.049	0.022	199624	22.7	1	5.353	-0.028	2856995	565.5
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	6.031	0.007	769064	55.4	3	6.342	-0.003	584046	67.4
Aroclor-1232	4	6.137	0.000	749925	137.3	4	7.400	0.000	748718	225.2
Total Col1Ave (3 peaks):				71.8		Total Col2Ave (3 peaks):			286.0	RPD = 120*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	---			0.0	1	5.353	-0.028	2856995	642.7
Aroclor-1242	2	6.031	0.005	769064	27.4	2	---			0.0
Aroclor-1242	3	6.137	0.000	749925	67.4	3	6.342	-0.003	584046	33.4
Aroclor-1242	4	6.772	0.006	705977	68.8	4	6.521	0.015	897482	126.8
Aroclor-1242	NS	---			----	5	7.400	0.000	748718	112.0
Total Col1Ave (3 peaks):				54.5		Total Col2Ave (4 peaks):			228.7	RPD = 123*
Corrected Ave (3 peaks):				54.5		Corrected Ave (3 peaks):			90.7	RPD = 50*
Aroclor-1248	1	6.031	0.011	769064	38.5	1	6.342	-0.001	584046	46.0
Aroclor-1248	2	6.137	-0.002	749925	116.7	2	6.708	0.000	384569	56.2
Aroclor-1248	3	6.394	0.002	787449	73.7	3	7.045	0.001	319490	36.9
Aroclor-1248	4	6.772	0.007	705977	46.6	4	7.400	0.001	748718	65.9
Aroclor-1248	5	7.110	0.010	2217305	113.4	NS	---			----
Total Col1Ave (5 peaks):				77.8		Total Col2Ave (4 peaks):			51.2	RPD = 41*
Corrected Ave (5 peaks):				77.8		Corrected Ave (4 peaks):			51.2	RPD = 41*
Aroclor-1254	1	7.358	0.006	4169642	193.5	1	7.640	-0.009	3409355	285.5
Aroclor-1254	2	7.663	0.005	4279638	305.6	2	8.084	-0.001	1063999	128.3
Aroclor-1254	3	7.773	0.005	3866493	151.8	3	8.209	-0.002	3189818	181.3
Aroclor-1254	4	8.050	-0.002	4524882	168.2	4	8.868	0.008	2154007	210.4
Aroclor-1254	5	8.360	0.003	2819560	170.1	NS	---			----
Total Col1Ave (5 peaks):				197.8		Total Col2Ave (4 peaks):			201.4	RPD = 2
Corrected Ave (5 peaks):				197.8		Corrected Ave (4 peaks):			201.4	RPD = 2
Aroclor-1260	1	8.807	0.004	1570001	172.0	1	9.119	-0.002	933296	151.1
Aroclor-1260	2	9.075	0.004	1923092	237.0	2	9.189	0.000	692197	182.6
Aroclor-1260	3	9.374	0.005	3791099	184.9	3	9.502	0.000	1831085	247.0
Aroclor-1260	4	9.713	0.005	2364694	238.4	4	9.707	-0.003	2512428	149.4
Aroclor-1260	5	9.862	0.004	2005833	409.1	5	10.195	-0.004	1635547	174.1
Total Col1Ave (5 peaks):				248.3		Total Col2Ave (5 peaks):			180.8	RPD = 31
Corrected Ave (5 peaks):				248.3		Corrected Ave (5 peaks):			180.8	RPD = 31
Aroclor-1262	1	9.075	0.005	1923092	151.6	1	9.119	-0.002	933296	77.9
Aroclor-1262	2	9.374	0.006	3791099	122.9	2	9.502	0.000	1831085	166.7
Aroclor-1262	3	9.713	0.005	2364694	252.2	3	9.707	-0.004	2512428	112.1
Aroclor-1262	4	9.862	0.004	2005833	160.2	4	10.118	-0.030	5043278	558.6
Aroclor-1262	5	10.440	0.041	6969393	777.6	5	10.786	-0.002	763696	122.5
Total Col1Ave (5 peaks):				292.9		Total Col2Ave (5 peaks):			207.6	RPD = 34
Corrected Ave (4 peaks):				171.7		Corrected Ave (4 peaks):			119.8	RPD = 36
Aroclor-1268	1	9.800	0.003	1357075	41.9	1	10.118	-0.028	5043278	228.4
Aroclor-1268	2	9.862	0.005	2005833	69.0	2	10.195	-0.009	1635547	81.2
Aroclor-1268	3	10.202	0.023	254534	10.2	3	10.536	-0.003	188411	11.5
Aroclor-1268	4	10.821	0.007	680420	11.7	4	11.152	-0.043	2126796	49.6

171

208

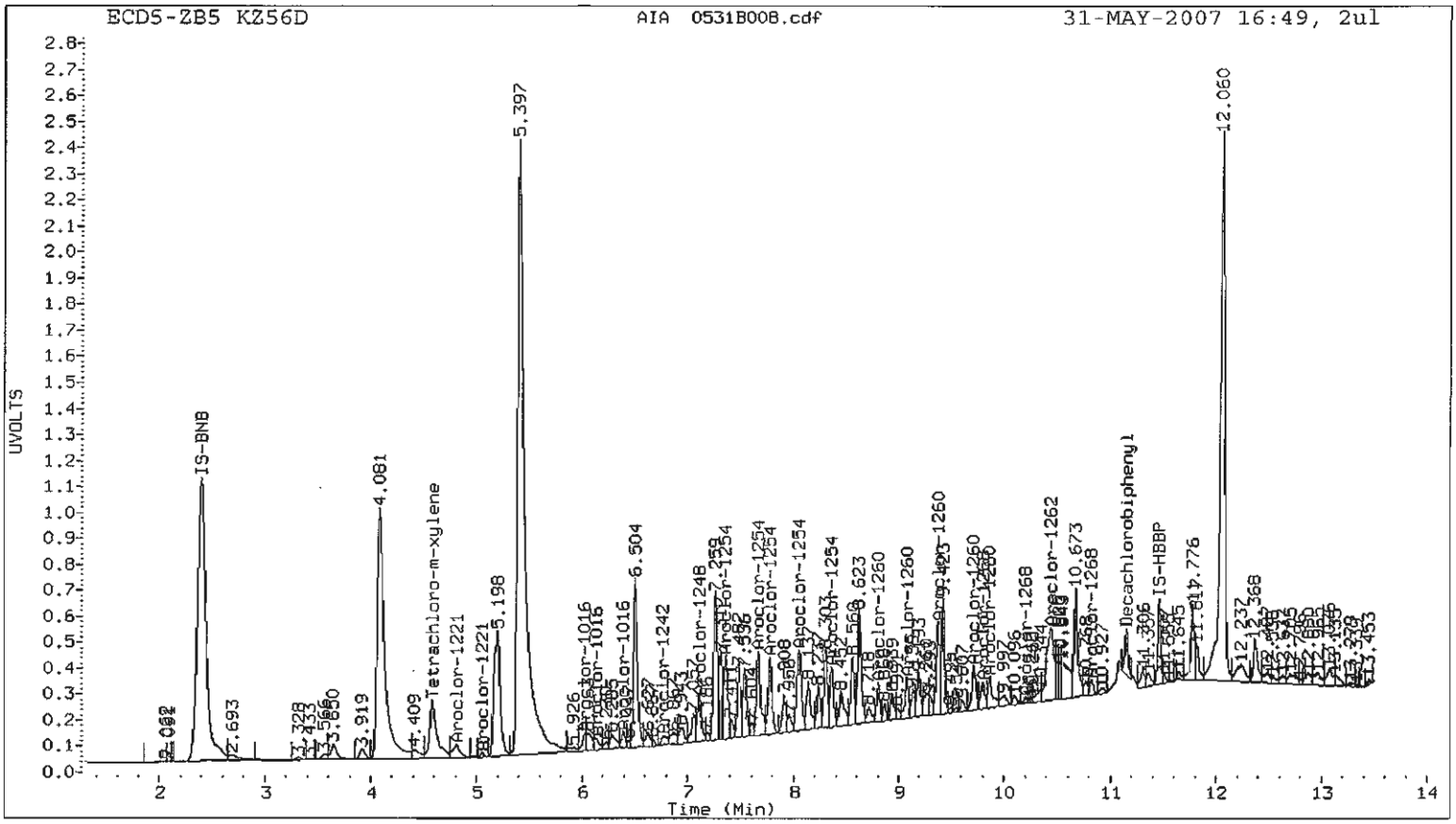
Total Col1Ave (4 peaks):	33.2	Total Col2Ave (4 peaks):	92.7	RPD = 95*
Corrected Ave (3 peaks):	21.3	Corrected Ave (3 peaks):	47.4	RPD = 76*

Total PCB Area Col1 (4.673 - 11.049) = 198325381 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 137175531 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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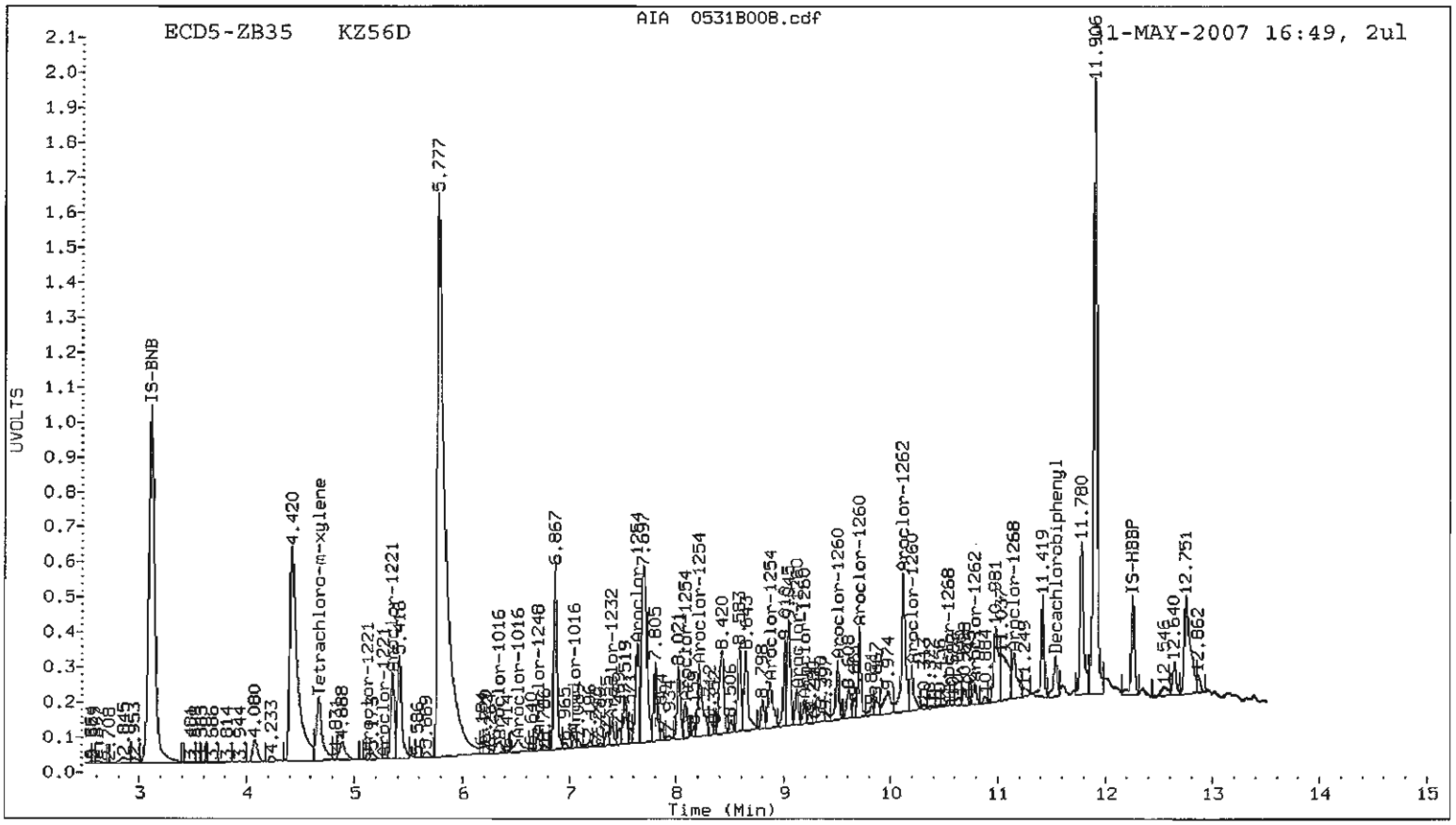
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1242
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Aroclor-1016
Aroclor-1248
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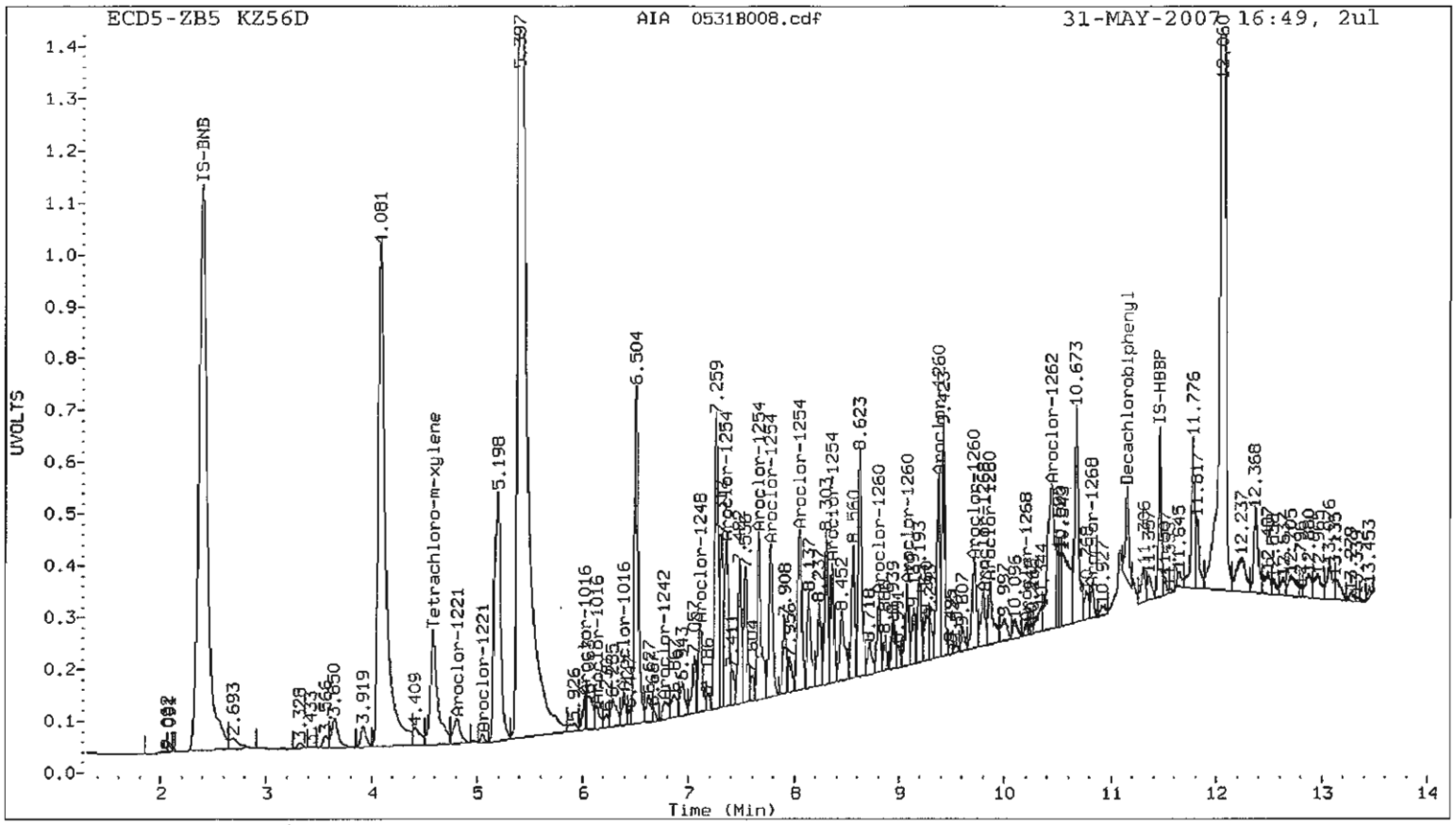
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
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Aroclor-1242
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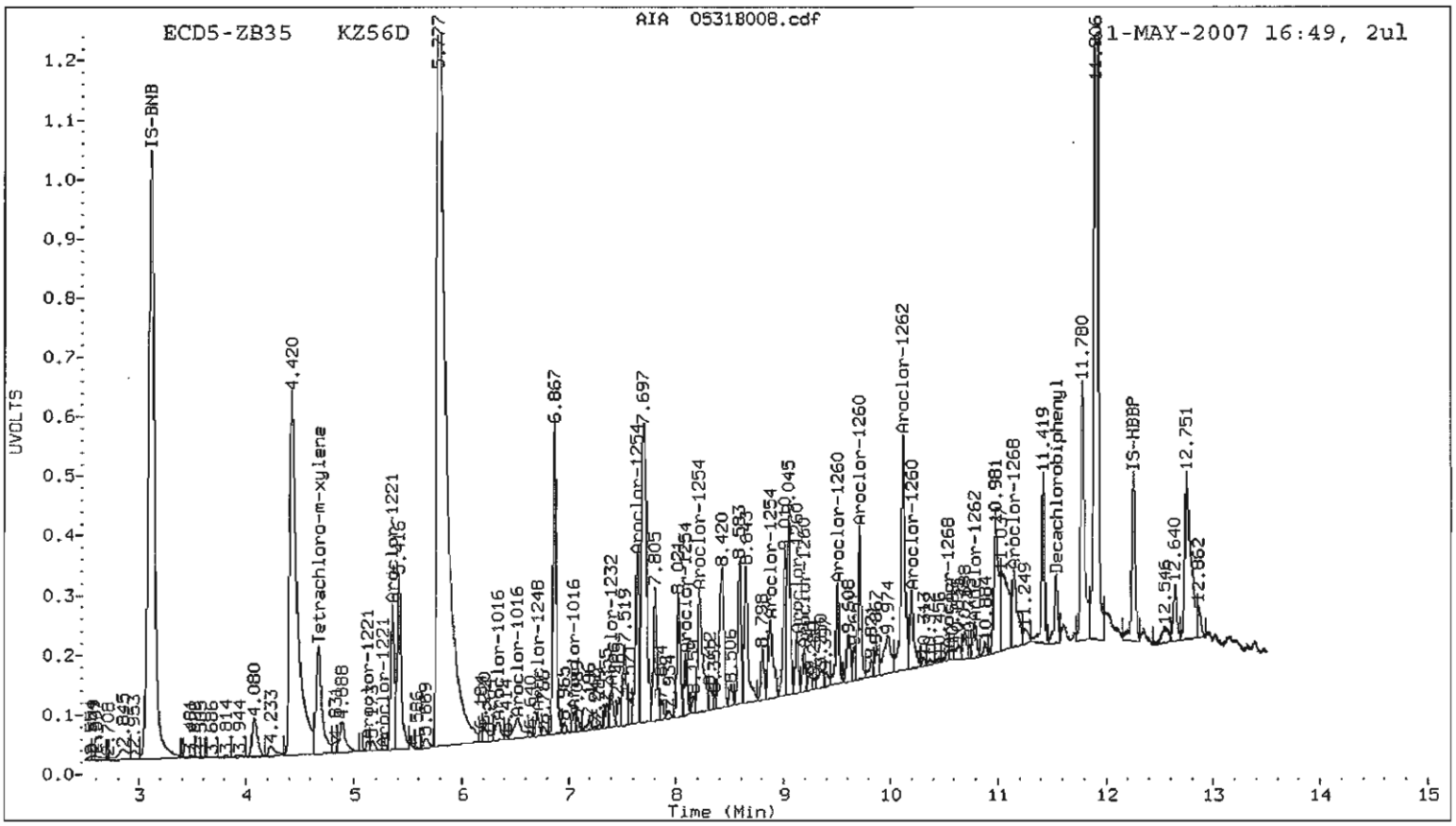
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC10-S
SAMPLE

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	9.8	< 9.8 U
11097-69-1	**Aroclor 1254**	**9.8**	**20**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	107%
Tetrachlorometaxylene	91.8%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B017.d
Data file 2: 20070529.b/0530-2.b/0530B017.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56E
Client ID: Y3-RC10-S
Injection Date: 30-MAY-2007 18:09
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.576	0.003	10940096	4.672	0.001	7903948	32.9	36.7	10.8	Tetrachloro-m-xylene
11.154	0.005	6780316	11.541	-0.001	4473486	42.9	36.5	16.1	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	82.2	91.6
Decachlorobiphenyl	107.2	91.2

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28066666	-13.0
Hexabromobiphenyl	5108210	3959925	-22.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19033050	-6.3
Hexabromobiphenyl	3608946	3984920	10.4

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.710	-0.023	1588507	182.2	1	---			0.0
Aroclor-1016	2	6.062	0.038	3265521	116.1	2	6.343	-0.002	499879	27.6
Aroclor-1016	3	6.138	0.001	1271583	115.1	3	6.518	0.012	1366291	190.0
Aroclor-1016	4	6.389	-0.003	1760108	248.7	4	7.046	0.002	426161	72.9
Total Col1Ave (4 peaks):				165.5		Total Col2Ave (3 peaks):			96.8	RPD = 52*
Corrected Ave (4 peaks):				165.5		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	---			0.0	1	5.129	0.004	79474	25.7
Aroclor-1221	2	4.959	0.005	180961	59.4	2	5.299	0.001	13026	7.1
Aroclor-1221	3	5.049	0.023	159586	16.5	3	5.352	-0.029	3033005	531.4
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 188.1				
Aroclor-1232	1	5.049	0.022	159586	20.1	1	5.352	-0.029	3033005	652.2
Aroclor-1232	2	5.710	-0.024	1588507	408.1	2	---			0.0
Aroclor-1232	3	6.062	0.038	3265521	260.3	3	6.343	-0.002	499879	62.7
Aroclor-1232	4	6.138	0.000	1271583	257.5	4	7.401	0.001	724021	236.6
Total Col1Ave (4 peaks):				236.5		Total Col2Ave (3 peaks):			317.2	RPD = 29
Corrected Ave (3 peaks):				179.3		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.710	-0.025	1588507	202.6	1	5.352	-0.029	3033005	741.2
Aroclor-1242	2	6.062	0.036	3265521	128.7	2	---			0.0
Aroclor-1242	3	6.138	0.000	1271583	126.4	3	6.343	-0.002	499879	31.1
Aroclor-1242	4	6.773	0.006	553479	59.6	4	6.518	0.012	1366291	209.7
Aroclor-1242	NS	---			----	5	7.401	0.001	724021	117.6
Total Col1Ave (4 peaks):				129.4		Total Col2Ave (4 peaks):			274.9	RPD = 72*
Corrected Ave (4 peaks):				129.4		Corrected Ave (3 peaks):			119.5	RPD = 8
Aroclor-1248	1	6.062	0.042	3265521	180.7	1	6.343	0.000	499879	42.7
Aroclor-1248	2	6.138	-0.001	1271583	218.9	2	6.710	0.001	319388	50.7
Aroclor-1248	3	6.389	-0.003	1760108	182.3	3	7.046	0.002	426161	53.4
Aroclor-1248	4	6.773	0.008	553479	40.4	4	7.401	0.002	724021	69.3
Aroclor-1248	5	7.111	0.011	2164834	122.5	NS	---			----
Total Col1Ave (5 peaks):				149.0		Total Col2Ave (4 peaks):			54.0	RPD = 94*
Corrected Ave (5 peaks):				149.0		Corrected Ave (4 peaks):			54.0	RPD = 94*
Aroclor-1254	1	7.358	0.007	3931574	201.8	1	7.642	-0.007	3231560	294.0
Aroclor-1254	2	7.664	0.006	3685604	291.1	2	8.088	0.003	1015448	133.0
Aroclor-1254	3	7.774	0.006	4027041	174.9	3	8.213	0.002	2674780	165.2
Aroclor-1254	4	8.048	-0.003	4461333	183.4	4	8.870	0.010	1737676	184.4
Aroclor-1254	5	8.361	0.003	2558874	170.8	NS	---			----
Total Col1Ave (5 peaks):				204.4		Total Col2Ave (4 peaks):			194.1	RPD = 5
Corrected Ave (5 peaks):				204.4		Corrected Ave (4 peaks):			194.1	RPD = 5
Aroclor-1260	1	8.808	0.005	2061966	187.7	1	9.125	0.004	2204380	281.3
Aroclor-1260	2	9.075	0.004	1668946	170.9	2	9.190	0.001	4183995	869.8
Aroclor-1260	3	9.375	0.006	4299559	174.3	3	9.503	0.001	2088940	222.1
Aroclor-1260	4	9.712	0.004	2235984	187.3	4	9.712	0.002	3352530	157.1
Aroclor-1260	5	9.865	0.006	1304406	221.1	5	10.202	0.003	1962747	164.7
Total Col1Ave (5 peaks):				188.2		Total Col2Ave (5 peaks):			339.0	RPD = 57*
Corrected Ave (5 peaks):				188.2		Corrected Ave (4 peaks):			206.3	RPD = 9
Aroclor-1262	1	9.075	0.004	1668946	109.3	1	9.125	0.004	2204380	145.1
Aroclor-1262	2	9.375	0.007	4299559	115.8	2	9.503	0.001	2088940	149.9
Aroclor-1262	3	9.712	0.004	2235984	198.1	3	9.712	0.001	3352530	117.9
Aroclor-1262	4	9.865	0.006	1304406	86.5	4	10.121	-0.026	4857343	424.0
Aroclor-1262	5	10.409	0.010	11004803	1020.1	5	10.790	0.003	1042508	131.8
Total Col1Ave (5 peaks):				306.0		Total Col2Ave (5 peaks):			193.7	RPD = 45*
Corrected Ave (4 peaks):				127.4		Corrected Ave (4 peaks):			136.2	RPD = 7
Aroclor-1268	1	9.800	0.003	1256989	32.2	1	10.121	-0.025	4857343	173.4
Aroclor-1268	2	9.865	0.008	1304406	37.3	2	10.202	-0.002	1962747	76.8
Aroclor-1268	3	10.201	0.022	890656	29.7	3	10.545	0.006	331340	16.0
Aroclor-1268	4	10.825	0.010	1074537	15.3	4	11.154	-0.041	1488117	27.4

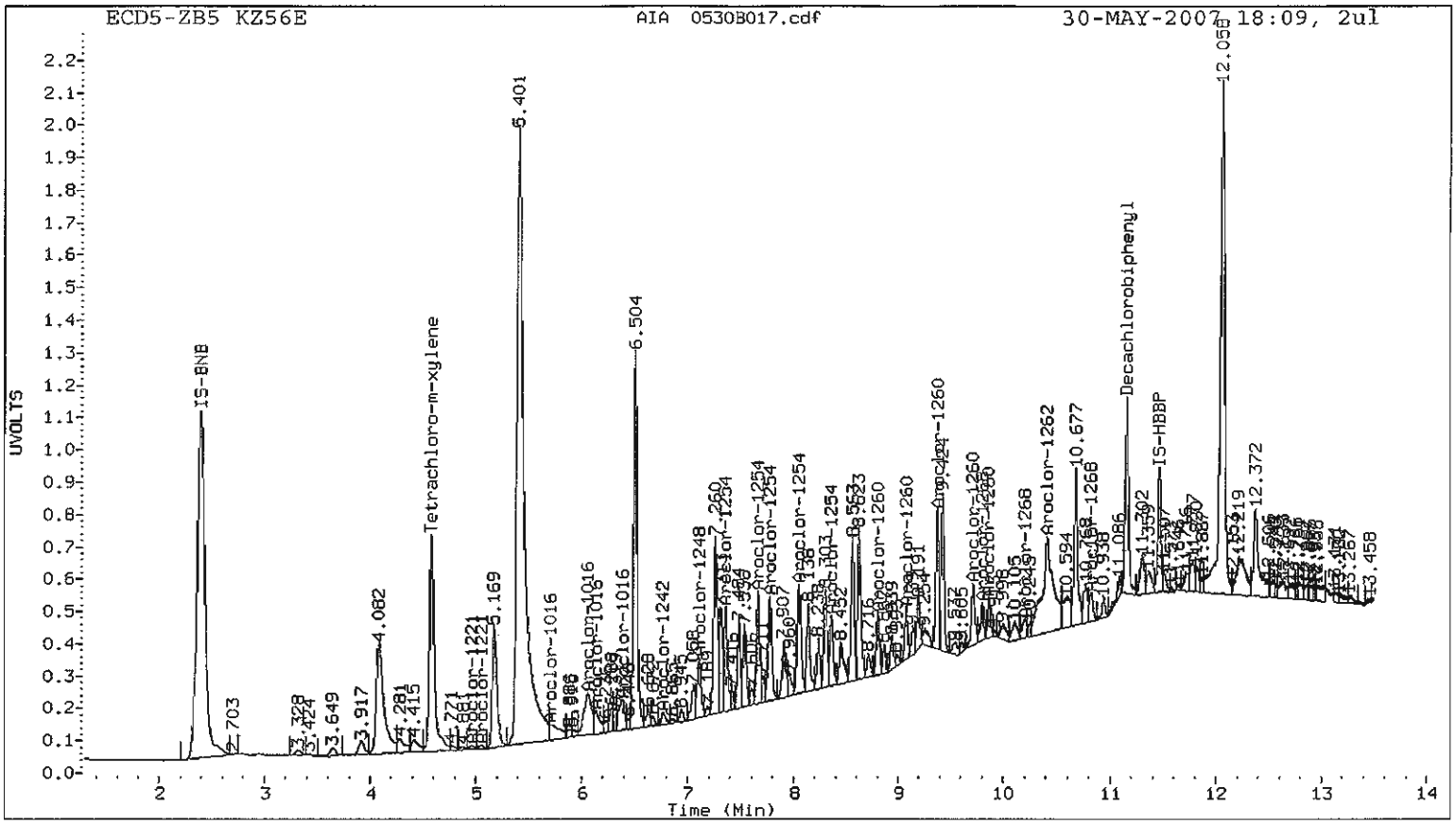
Total Col1Ave (4 peaks):	28.6	Total Col2Ave (4 peaks):	73.4	RPD = 88*
Corrected Ave (4 peaks):	28.6	Corrected Ave (3 peaks):	40.0	RPD = 33

Total PCB Area Col1 (4.673 - 11.049) = 193795830 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 142423881 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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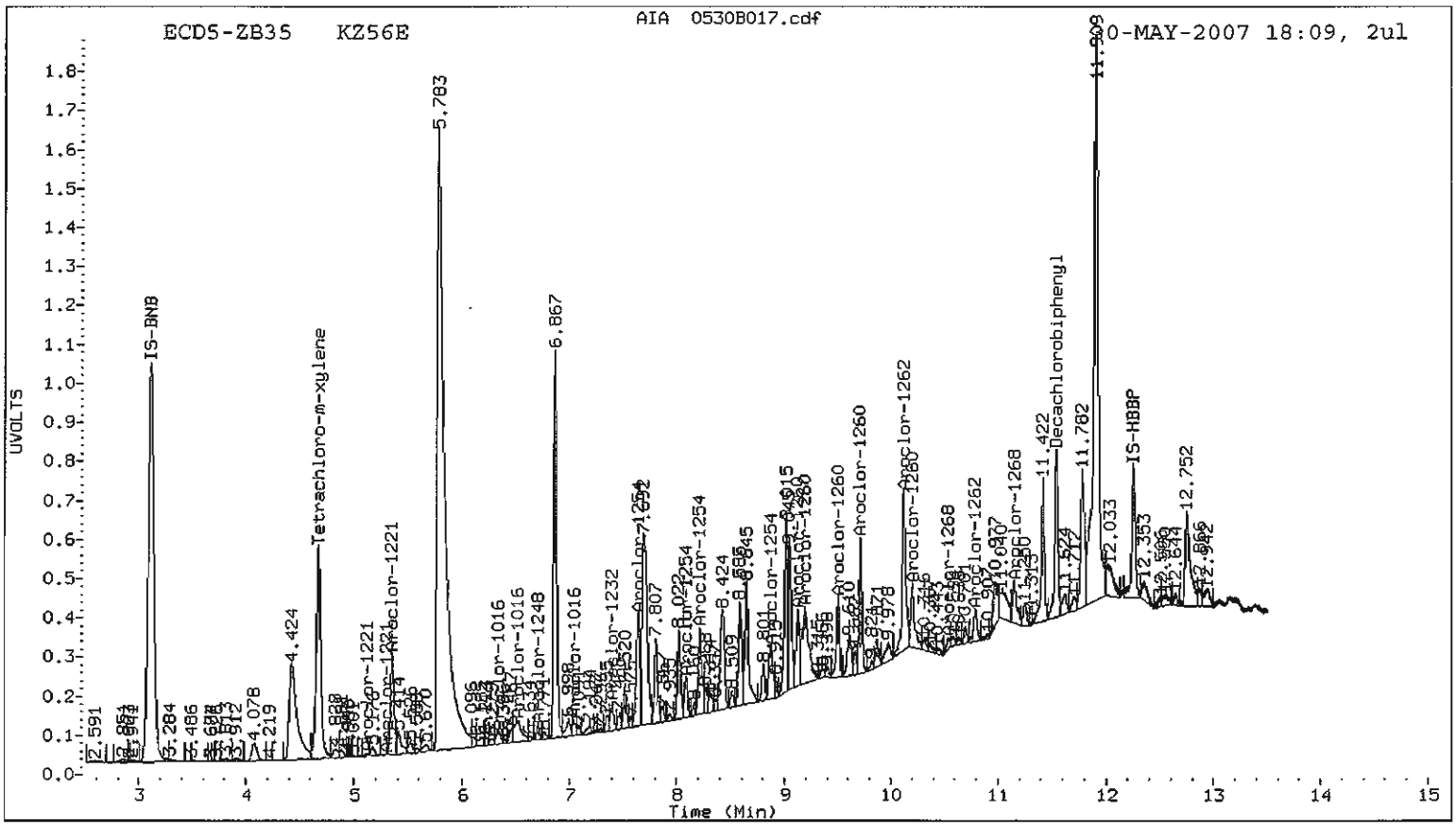
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP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30-MAY-2007 18:09, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC10-S
DILUTION

Lab Sample ID: KZ56E
LIMS ID: 07-9551
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 25.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	Aroclor 1254	29	< 29 U
11096-82-5	Aroclor 1260	29	< 29 U
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	138%
Tetrachlorometaxylene	87.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B009.d
Data file 2: 20070529.b/0531-2.b/0531B009.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56E
Client ID:
Injection Date: 31-MAY-2007 17:06
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	3573752	4.671	0.000	2658540	9.9	11.6	16.2	Tetrachloro-m-xylene
11.152	0.003	2661336	11.539	-0.003	1115225	18.4	14.3	25.0	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.2	87.3
Decachlorobiphenyl	138.0	107.3

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	30465260	-5.5
Hexabromobiphenyl	5108210	3621673	-29.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20152554	-0.8
Hexabromobiphenyl	3608946	2531998	-29.8

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.716	-0.017	101886	10.8	1	---			0.0
Aroclor-1016	2	6.072	0.049	738401	24.2	2	6.346	0.001	283298	14.8
Aroclor-1016	3	6.136	0.000	380165	31.7	3	6.523	0.017	401725	52.8
Aroclor-1016	4	6.388	-0.003	574139	74.7	4	7.046	0.002	129582	20.9
Total Col1Ave (4 peaks):				35.3		Total Col2Ave (3 peaks):			29.5	RPD = 18
Corrected Ave (3 peaks):				22.2		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.815	-0.011	645984	118.4	1	5.125	-0.001	29097	8.9
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	5.354	-0.028	1122899	185.8
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	5.354	-0.027	1122899	228.1
Aroclor-1232	2	5.716	-0.018	101886	24.1	2	---			0.0
Aroclor-1232	3	6.072	0.048	738401	54.2	3	6.346	0.002	283298	33.6
Aroclor-1232	4	6.136	-0.001	380165	70.9	4	7.400	0.000	263616	81.4
Total Col1Ave (3 peaks):				49.8		Total Col2Ave (3 peaks):			114.3	RPD = 79*
Corrected Ave (3 peaks):				49.8		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.716	-0.019	101886	12.0	1	5.354	-0.027	1122899	259.2
Aroclor-1242	2	6.072	0.046	738401	26.8	2	---			0.0
Aroclor-1242	3	6.136	-0.001	380165	34.8	3	6.346	0.001	283298	16.6
Aroclor-1242	4	6.775	0.009	185855	18.4	4	6.523	0.017	401725	58.2
Aroclor-1242	NS	---			----	5	7.400	0.000	263616	40.5
Total Col1Ave (4 peaks):				23.0		Total Col2Ave (4 peaks):			93.6	RPD = 121*
Corrected Ave (4 peaks):				23.0		Corrected Ave (3 peaks):			38.4	RPD = 50*
Aroclor-1248	1	---			0.0	1	6.346	0.003	283298	22.9
Aroclor-1248	2	6.136	-0.003	380165	60.3	2	6.710	0.001	126787	19.0
Aroclor-1248	3	6.388	-0.003	574139	54.8	3	7.046	0.002	129582	15.3
Aroclor-1248	4	6.775	0.011	185855	12.5	4	7.400	0.001	263616	23.8
Aroclor-1248	5	7.109	0.009	756896	39.5	NS	---			----
Total Col1Ave (4 peaks):				41.8		Total Col2Ave (4 peaks):			20.3	RPD = 69*
Corrected Ave (4 peaks):				41.8		Corrected Ave (4 peaks):			20.3	RPD = 69*
Aroclor-1254	1	7.358	0.006	1555716	73.6	1	7.641	-0.007	978984	84.1
Aroclor-1254	2	7.663	0.005	1380876	100.5	2	8.086	0.000	317191	39.2
Aroclor-1254	3	7.774	0.005	1378977	55.2	3	8.211	0.000	983337	57.4
Aroclor-1254	4	8.051	-0.001	1470375	55.7	4	8.868	0.008	491540	49.3
Aroclor-1254	5	8.360	0.002	806797	49.6	NS	---			----
Total Col1Ave (5 peaks):				66.9		Total Col2Ave (4 peaks):			57.5	RPD = 15
Corrected Ave (5 peaks):				66.9		Corrected Ave (4 peaks):			57.5	RPD = 15
Aroclor-1260	1	8.806	0.003	617876	61.5	1	9.121	0.000	709654	142.5
Aroclor-1260	2	9.075	0.004	657338	73.6	2	9.188	-0.001	1182222	386.8
Aroclor-1260	3	9.371	0.003	1374649	60.9	3	9.502	-0.001	628774	105.2
Aroclor-1260	4	9.711	0.003	678060	62.1	4	9.710	0.000	1072234	79.1
Aroclor-1260	5	9.861	0.002	601334	111.4	5	10.198	-0.001	807944	106.7
Total Col1Ave (5 peaks):				73.9		Total Col2Ave (5 peaks):			164.1	RPD = 76*
Corrected Ave (5 peaks):				73.9		Corrected Ave (4 peaks):			108.4	RPD = 38
Aroclor-1262	1	9.075	0.004	657338	47.1	1	9.121	0.000	709654	73.5
Aroclor-1262	2	9.371	0.003	1374649	40.5	2	9.502	-0.001	628774	71.0
Aroclor-1262	3	9.711	0.003	678060	65.7	3	9.710	-0.001	1072234	59.4
Aroclor-1262	4	9.861	0.002	601334	43.6	4	10.118	-0.030	1637434	225.0
Aroclor-1262	5	10.439	0.040	5093181	516.2	5	10.788	0.001	240458	47.8
Total Col1Ave (5 peaks):				142.6		Total Col2Ave (5 peaks):			95.3	RPD = 40
Corrected Ave (4 peaks):				49.2		Corrected Ave (4 peaks):			62.9	RPD = 24
Aroclor-1268	1	9.798	0.001	460330	12.9	1	10.118	-0.028	1637434	92.0
Aroclor-1268	2	9.861	0.004	601334	18.8	2	10.198	-0.006	807944	49.7
Aroclor-1268	3	10.199	0.020	200495	7.3	3	10.554	0.014	298548	22.6
Aroclor-1268	4	10.826	0.011	439955	6.9	4	11.152	-0.043	669493	19.4

96

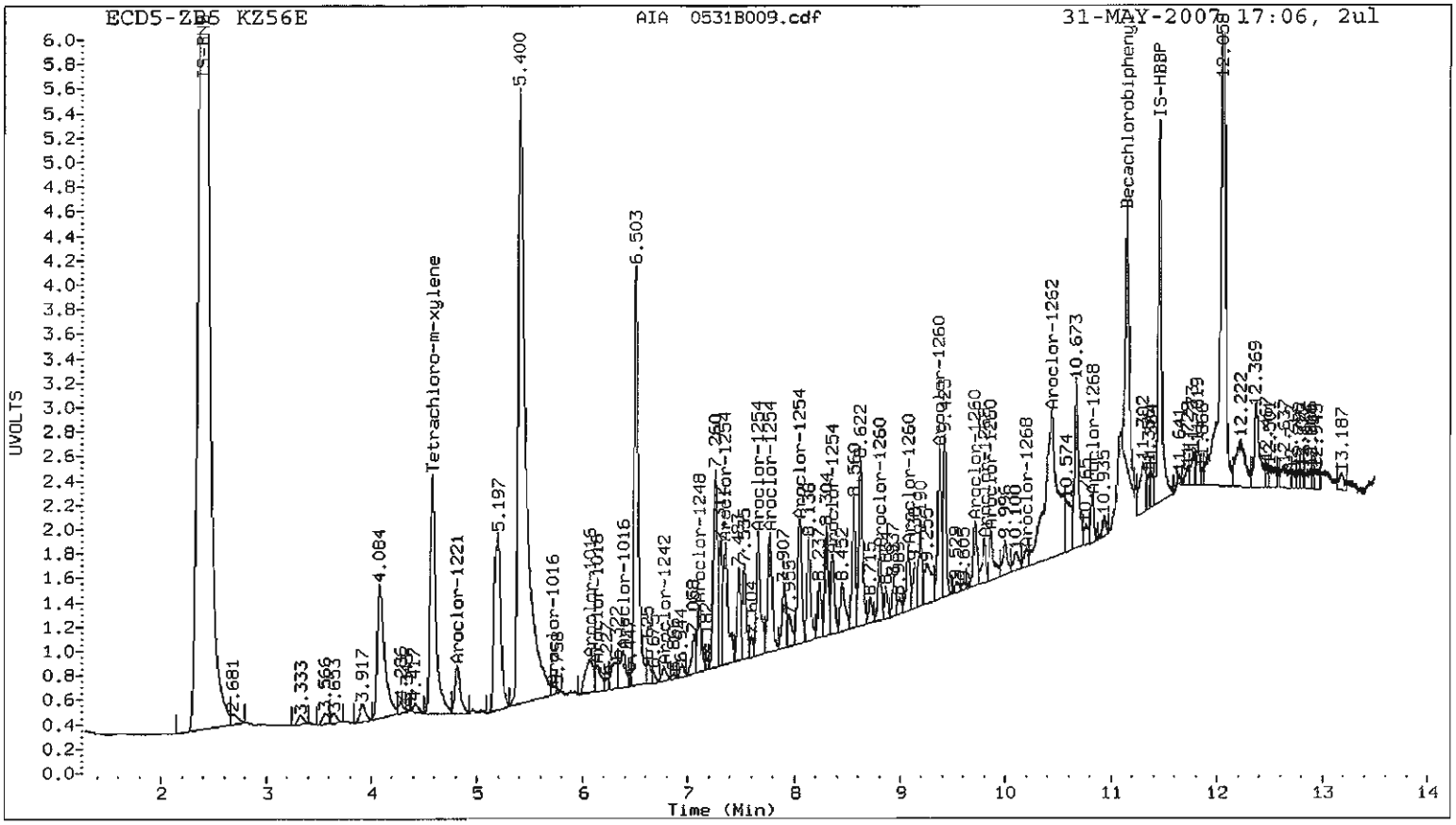
Total Col1Ave (4 peaks):	11.5	Total Col2Ave (4 peaks):	45.9	RPD = 120*
Corrected Ave (4 peaks):	11.5	Corrected Ave (3 peaks):	30.6	RPD = 91*

Total PCB Area Col1 (4.673 - 11.049) = 63098510 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 44669367 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
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Aroclor-1260
Aroclor-1262
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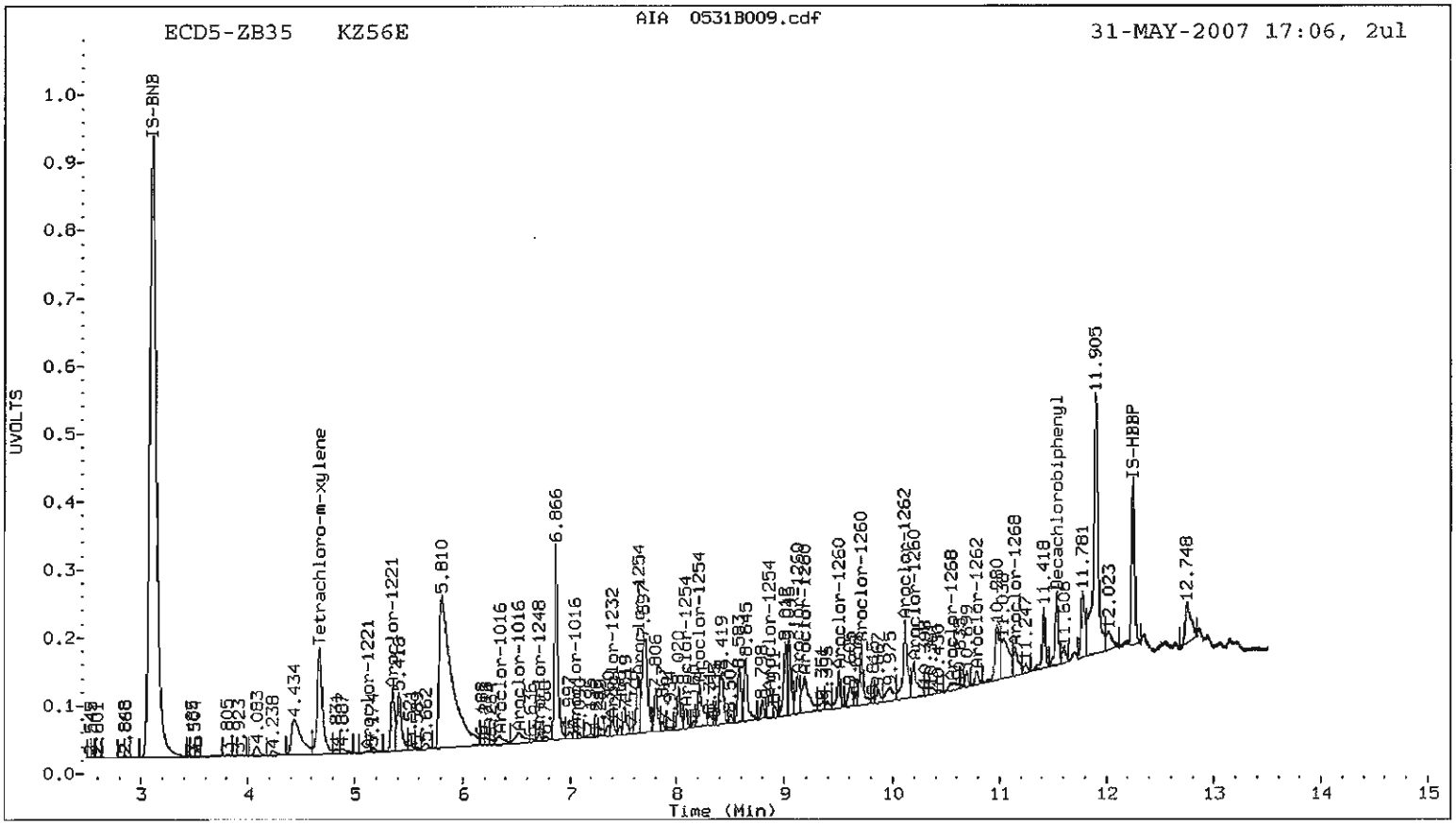
Decachlorobiphenyl
IS-HBBP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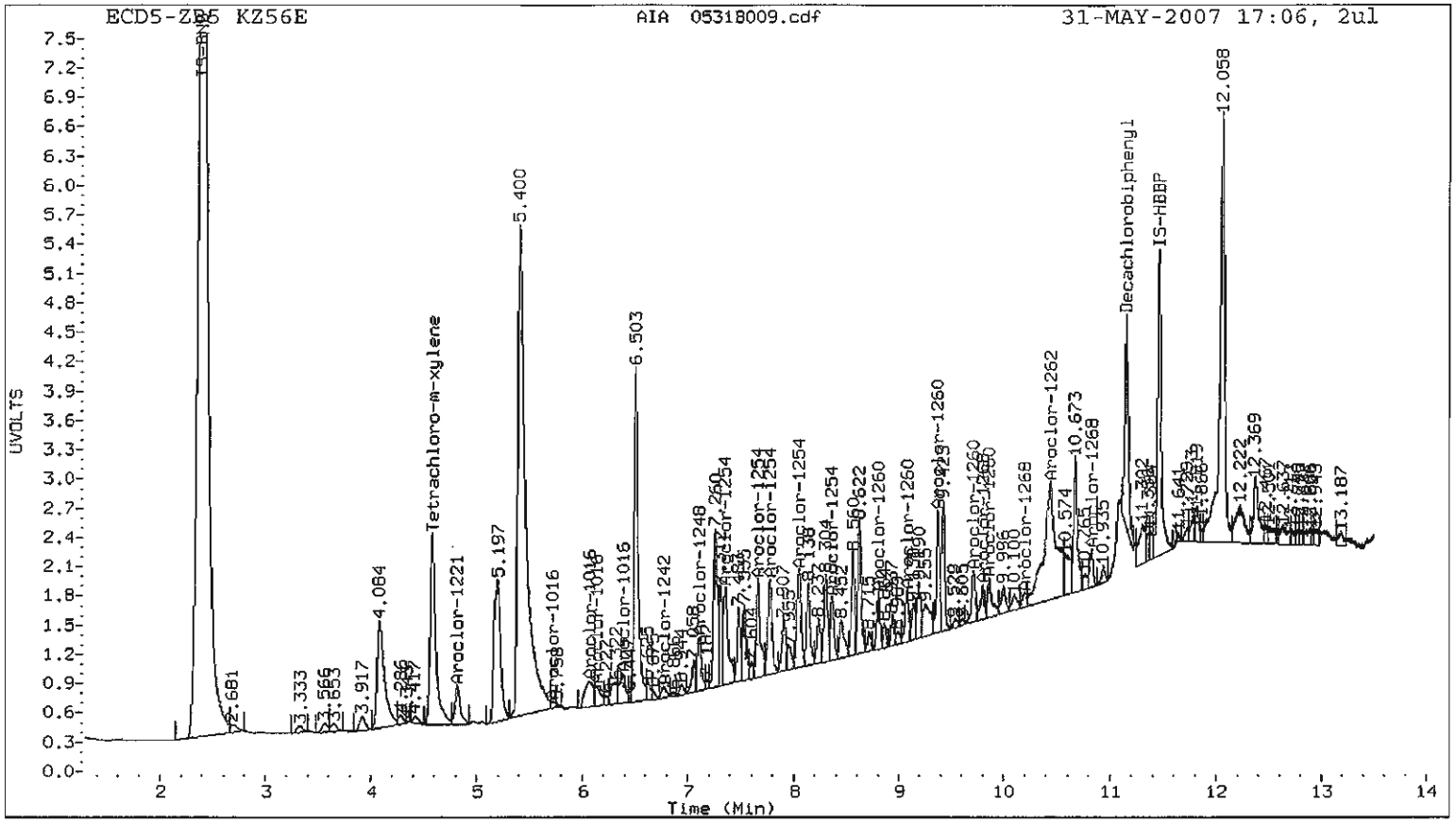
Decachlorobiphenyl
IS-HBBP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Aroclor-1221
Aroclor-1016
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Aroclor-1260
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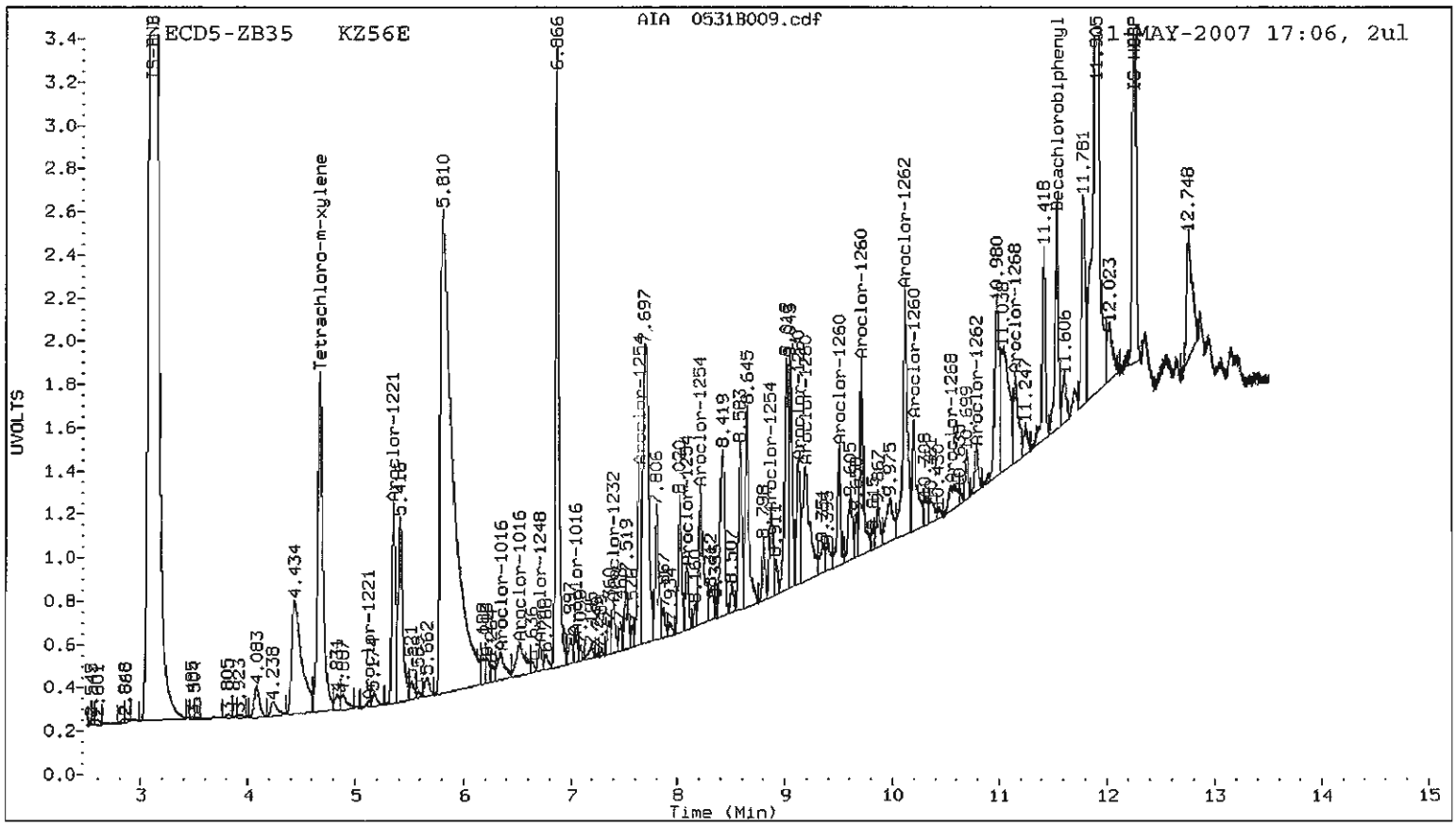
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UVOLTS
Time (Min)
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IS-HBBP
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC05-S
SAMPLE

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 53.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.7	< 9.7 U
53469-21-9	Aroclor 1242	9.7	< 9.7 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	Aroclor 1254	9.7	63
11096-82-5	Aroclor 1260	9.7	66
11104-28-2	Aroclor 1221	9.7	< 9.7 U
11141-16-5	Aroclor 1232	9.7	< 9.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	99.5%
Tetrachlorometaxylene	95.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B018.d
Data file 2: 20070529.b/0530-2.b/0530B018.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56F
Client ID: Y3-RC05-S
Injection Date: 30-MAY-2007 18:26
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.580	0.007	13837400	4.672	0.001	7916417	38.0	36.2	4.8	Tetrachloro-m-xylene
11.159	0.009	6363692	11.546	0.004	4485867	39.8	36.0	10.1	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.1	90.6
Decachlorobiphenyl	99.5	90.0

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	30700043	-4.8
Hexabromobiphenyl	5108210	4002258	-21.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19283824	-5.1
Hexabromobiphenyl	3608946	4050763	12.2

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	5.722	-0.012	2483920	260.4	1	---			0.0
Aroclor-1016	2	6.046	0.023	8173111	265.8	2	6.346	0.001	1717360	93.4
Aroclor-1016	3	6.140	0.003	2791806	231.1	3	6.517	0.010	2206533	302.9
Aroclor-1016	4	6.394	0.002	2779916	359.0	4	7.046	0.003	1557141	263.0
Total Col1Ave (4 peaks):				279.1		Total Col2Ave (3 peaks):			219.8	RPD = 24
Corrected Ave (4 peaks):				279.1		Corrected Ave (3 peaks):			219.8	RPD = 24
Aroclor-1221	1	---			0.0	1	5.128	0.002	247810	79.2
Aroclor-1221	2	4.949	-0.005	209146	62.8	2	5.298	-0.001	23816	12.9
Aroclor-1221	3	5.050	0.024	594894	56.2	3	5.357	-0.024	6864796	1187.0
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 426.4				
Aroclor-1232	1	5.050	0.024	594894	68.4	1	5.357	-0.024	6864796	1457.0
Aroclor-1232	2	5.722	-0.013	2483920	583.4	2	---			0.0
Aroclor-1232	3	6.046	0.023	8173111	595.6	3	6.346	0.001	1717360	212.6
Aroclor-1232	4	6.140	0.002	2791806	516.9	4	7.405	0.005	2539380	819.0
Total Col1Ave (4 peaks):				441.1		Total Col2Ave (3 peaks):			829.5	RPD = 61*
Corrected Ave (4 peaks):				441.1		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.722	-0.013	2483920	289.6	1	5.357	-0.023	6864796	1655.8
Aroclor-1242	2	6.046	0.020	8173111	294.6	2	---			0.0
Aroclor-1242	3	6.140	0.002	2791806	253.8	3	6.346	0.001	1717360	105.5
Aroclor-1242	4	6.773	0.007	1944987	191.6	4	6.517	0.010	2206533	334.3
Aroclor-1242	NS	---			----	5	7.405	0.005	2539380	407.2
Total Col1Ave (4 peaks):				257.4		Total Col2Ave (4 peaks):			625.7	RPD = 83*
Corrected Ave (4 peaks):				257.4		Corrected Ave (3 peaks):			282.3	RPD = 9
Aroclor-1248	1	6.046	0.026	8173111	413.6	1	6.346	0.003	1717360	144.9
Aroclor-1248	2	6.140	0.000	2791806	439.4	2	6.711	0.003	1998808	313.4
Aroclor-1248	3	6.394	0.002	2779916	263.3	3	7.046	0.002	1557141	192.6 400 Y
Aroclor-1248	4	6.773	0.008	1944987	129.8	4	7.405	0.006	2539380	239.8
Aroclor-1248	5	7.114	0.014	8055580	416.8	NS	---			----
Total Col1Ave (5 peaks):				332.6		Total Col2Ave (4 peaks):			222.7	RPD = 40
Corrected Ave (5 peaks):				332.6		Corrected Ave (4 peaks):			222.7	RPD = 40
Aroclor-1254	1	7.360	0.008	13469917	632.1	1	7.645	-0.003	11971528	~~1075.0~~
Aroclor-1254	2	7.668	0.011	15570865	~~1124.5~~	2	8.091	0.006	3650695	471.9
Aroclor-1254	3	7.778	0.010	15012868	596.0 616	3	8.217	0.006	9659091	588.8
Aroclor-1254	4	8.055	0.003	16437832	617.8	4	8.875	0.015	8481699	888.2 649
Aroclor-1254	5	8.368	0.010	10141811	618.8	NS	---			----
Total Col1Ave (5 peaks):				717.8		Total Col2Ave (4 peaks):			756.0	RPD = 5
Corrected Ave (5 peaks):				717.8		Corrected Ave (4 peaks):			756.0	RPD = 5
Aroclor-1260	1	8.813	0.010	8016942	721.9	1	9.128	0.007	4282067	537.6
Aroclor-1260	2	9.084	0.013	6731970	682.1	2	9.196	0.008	3165150	647.3
Aroclor-1260	3	9.383	0.015	16136516	647.1	3	9.509	0.006	7088402	741.3
Aroclor-1260	4	9.722	0.014	7142767	592.0	4	9.720	0.010	11925975	549.9
Aroclor-1260	5	9.872	0.014	4404278	738.5	5	10.208	0.009	6530502	538.9
Total Col1Ave (5 peaks):				676.3		Total Col2Ave (5 peaks):			603.0	RPD = 11
Corrected Ave (5 peaks):				676.3		Corrected Ave (5 peaks):			603.0	RPD = 11
Aroclor-1262	1	9.084	0.013	6731970	436.2	1	9.128	0.007	4282067	277.3
Aroclor-1262	2	9.383	0.015	16136516	430.0	2	9.509	0.007	7088402	500.2
Aroclor-1262	3	9.722	0.014	7142767	626.2	3	9.720	0.009	11925975	412.7
Aroclor-1262	4	9.872	0.013	4404278	289.1	4	10.126	-0.022	15345402	1317.9
Aroclor-1262	5	10.414	0.015	11276140	1034.1	5	10.796	0.009	3405002	423.3
Total Col1Ave (5 peaks):				563.1		Total Col2Ave (5 peaks):			586.3	RPD = 4
Corrected Ave (4 peaks):				445.4		Corrected Ave (4 peaks):			403.4	RPD = 10
Aroclor-1268	1	9.808	0.011	3675390	93.2	1	10.126	-0.020	15345402	538.9
Aroclor-1268	2	9.872	0.015	4404278	124.5	2	10.208	0.004	6530502	251.2
Aroclor-1268	3	10.210	0.031	1547488	51.1	3	10.545	0.006	1102803	52.3
Aroclor-1268	4	10.825	0.011	2008455	28.4	4	11.200	0.005	878323	15.9

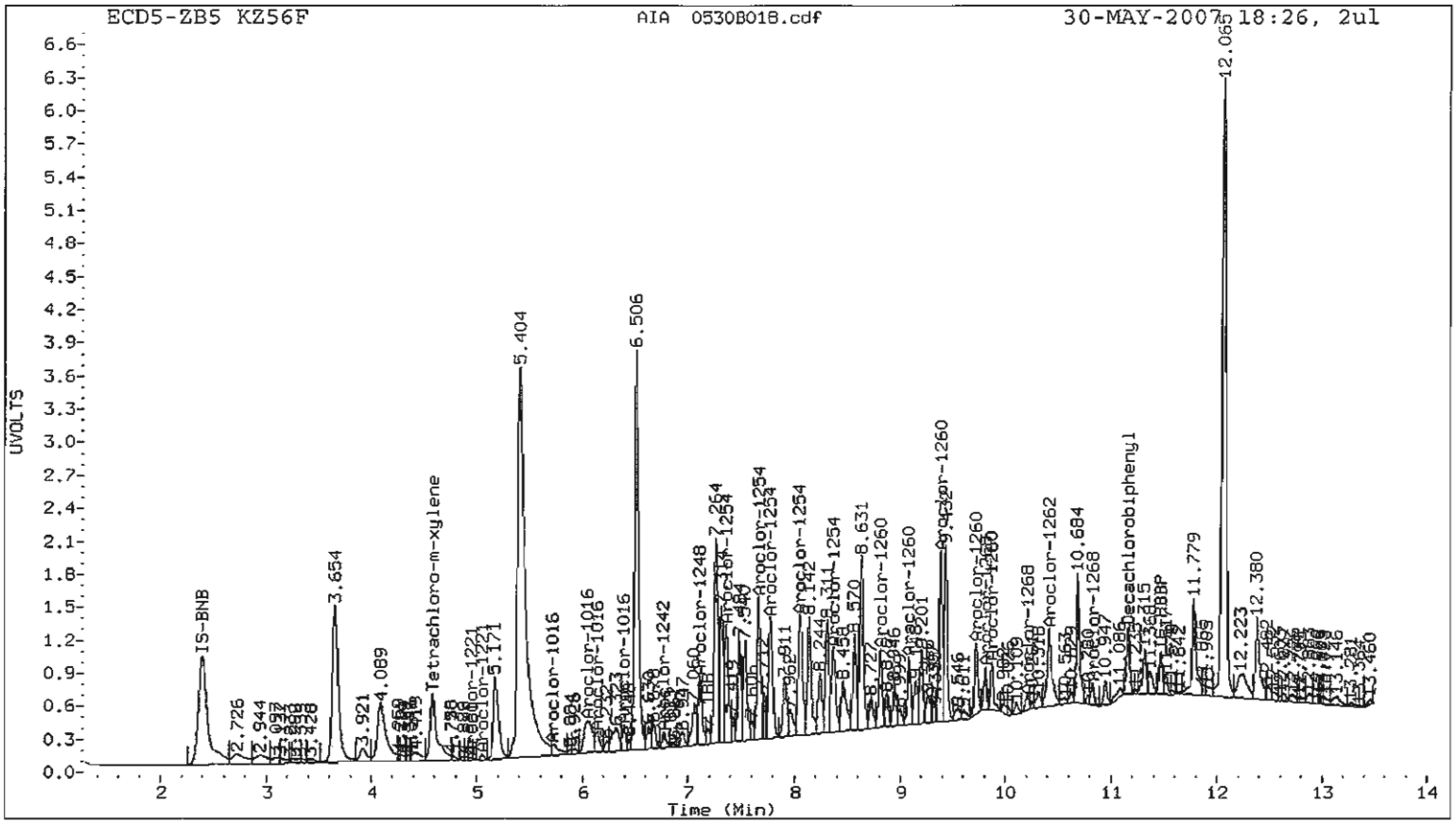
Total Col1Ave (4 peaks):	74.3	Total Col2Ave (4 peaks):	214.6	RPD = 97*
Corrected Ave (4 peaks):	74.3	Corrected Ave (3 peaks):	106.5	RPD = 36

Total PCB Area Col1 (4.673 - 11.049) = 559754220 Col1 Total PCB = 2.7 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 404319456 Col2 Total PCB = 3.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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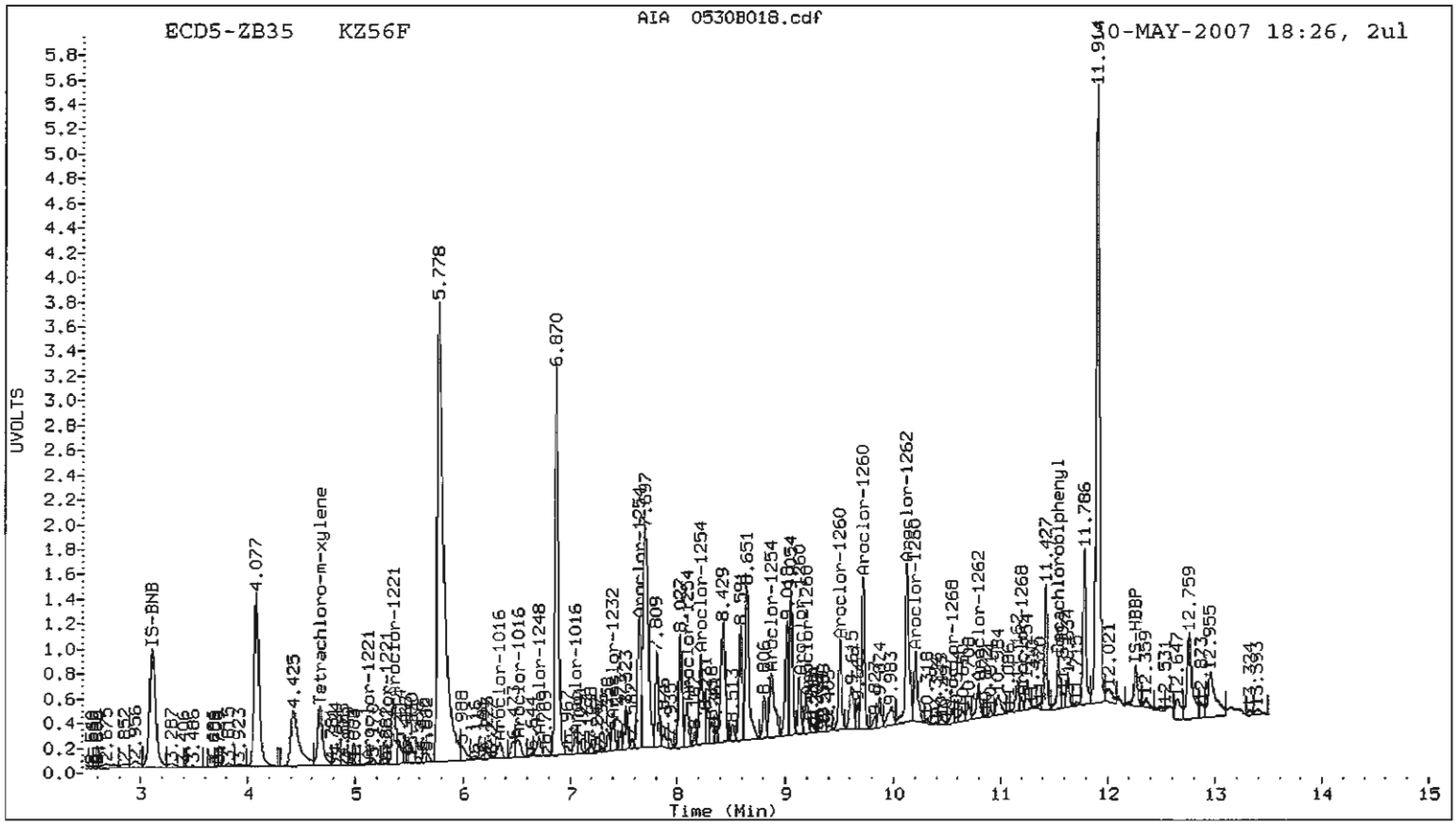
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC05-S
DILUTION

Lab Sample ID: KZ56F
LIMS ID: 07-9552
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:23
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 53.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**61**
11096-82-5	**Aroclor 1260**	**29**	**82**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	135%
Tetrachlorometaxylene	80.2%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B010.d
Data file 2: 20070529.b/0531-2.b/0531B010.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56F
Client ID:
Injection Date: 31-MAY-2007 17:23
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.577	0.004	3123804	4.671	0.000	2488593	9.0	10.7	17.2	Tetrachloro-m-xylene
11.151	0.001	2489016	11.540	-0.002	1238218	18.0	16.4	9.4	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	67.4	80.1
Decachlorobiphenyl	134.9	122.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29308784	-9.1
Hexabromobiphenyl	5108210	3465808	-32.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20553533	1.2
Hexabromobiphenyl	3608946	2458832	-31.9

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT (ZB5 Col)	Shift	Area	Amount	Peak#	RT (ZB35 Col)	Shift	Area	Amount
Aroclor-1016	1	5.735	0.002	295395	32.4	1	---			0.0
Aroclor-1016	2	6.038	0.015	990554	33.7	2	6.343	-0.001	663590	33.9
Aroclor-1016	3	6.141	0.004	1001801	86.9	3	6.518	0.011	1365666	175.9
Aroclor-1016	4	6.393	0.002	982721	132.9	4	7.044	0.000	478351	75.8
Total Col1Ave (4 peaks):				71.5		Total Col2Ave (3 peaks):			95.2	RPD = 28
Corrected Ave (3 peaks):				51.0		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.811	-0.015	1589021	302.8	1	5.125	-0.001	72687	21.8
Aroclor-1221	2	---			0.0	2	5.285	-0.014	76511	38.9
Aroclor-1221	3	5.053	0.027	216549	21.4	3	5.353	-0.028	2252424	365.4
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 142.0				
Aroclor-1232	1	5.053	0.027	216549	26.1	1	5.353	-0.028	2252424	448.5
Aroclor-1232	2	5.735	0.001	295395	72.7	2	---			0.0
Aroclor-1232	3	6.038	0.015	990554	75.6	3	6.343	-0.001	663590	77.1
Aroclor-1232	4	6.141	0.003	1001801	194.3	4	7.400	0.001	882195	267.0
Total Col1Ave (4 peaks):				92.2		Total Col2Ave (3 peaks):			264.2	RPD = 97*
Corrected Ave (3 peaks):				58.1		Corrected Ave (3 peaks):			264.2	RPD = 128*
Aroclor-1242	1	5.735	0.000	295395	36.1	1	5.353	-0.028	2252424	509.7
Aroclor-1242	2	6.038	0.012	990554	37.4	2	---			0.0
Aroclor-1242	3	6.141	0.003	1001801	95.4	3	6.343	-0.002	663590	38.2
Aroclor-1242	4	6.772	0.006	682406	70.4	4	6.518	0.011	1365666	194.1
Aroclor-1242	NS	---			----	5	7.400	0.001	882195	132.7
Total Col1Ave (4 peaks):				59.8		Total Col2Ave (4 peaks):			218.7	RPD = 114*
Corrected Ave (4 peaks):				59.8		Corrected Ave (3 peaks):			121.7	RPD = 68*
Aroclor-1248	1	6.038	0.018	990554	52.5	1	6.343	0.000	663590	52.5
Aroclor-1248	2	6.141	0.002	1001801	165.2	2	6.708	-0.001	451082	66.4
Aroclor-1248	3	6.393	0.002	982721	97.5	3	7.044	0.000	478351	55.5
Aroclor-1248	4	6.772	0.008	682406	47.7	4	7.400	0.001	882195	78.2
Aroclor-1248	5	7.110	0.010	2917734	158.1	NS	---			----
Total Col1Ave (5 peaks):				104.2		Total Col2Ave (4 peaks):			63.1	RPD = 49*
Corrected Ave (5 peaks):				104.2		Corrected Ave (4 peaks):			63.1	RPD = 49*
Aroclor-1254	1	7.358	0.006	4536771	223.0	1	7.640	-0.009	3747348	315.7
Aroclor-1254	2	7.664	0.007	5632304	426.1	2	8.085	0.000	1100904	133.5
Aroclor-1254	3	7.774	0.006	4854897	201.9	3	8.212	0.001	3077151	176.0
Aroclor-1254	4	8.050	-0.001	5206938	205.0	4	8.869	0.009	2124862	208.8
Aroclor-1254	5	8.362	0.005	3118636	199.3	NS	---			----
Total Col1Ave (5 peaks):				251.1		Total Col2Ave (4 peaks):			208.5	RPD = 19
Corrected Ave (5 peaks):				251.1		Corrected Ave (4 peaks):			208.5	RPD = 19
Aroclor-1260	1	8.807	0.005	2469967	256.9	1	9.121	0.000	1379109	285.2
Aroclor-1260	2	9.076	0.005	1981321	231.8	2	9.188	-0.001	1051690	354.3
Aroclor-1260	3	9.375	0.006	5019957	232.5	3	9.502	-0.001	2276612	392.3
Aroclor-1260	4	9.714	0.006	2382817	228.0	4	9.711	0.001	3634712	276.1
Aroclor-1260	5	9.863	0.005	1583487	306.6	5	10.199	0.000	2078249	282.6
Total Col1Ave (5 peaks):				251.2		Total Col2Ave (5 peaks):			318.1	RPD = 24
Corrected Ave (5 peaks):				251.2		Corrected Ave (5 peaks):			318.1	RPD = 24
Aroclor-1262	1	9.076	0.005	1981321	148.3	1	9.121	0.000	1379109	147.1
Aroclor-1262	2	9.375	0.006	5019957	154.5	2	9.502	-0.001	2276612	264.7
Aroclor-1262	3	9.714	0.006	2382817	241.2	3	9.711	0.000	3634712	207.2
Aroclor-1262	4	9.863	0.004	1583487	120.0	4	10.118	-0.030	4968600	703.0
Aroclor-1262	5	10.406	0.007	4398143	465.8	5	10.789	0.001	1184989	242.7
Total Col1Ave (5 peaks):				226.0		Total Col2Ave (5 peaks):			312.9	RPD = 32
Corrected Ave (4 peaks):				166.0		Corrected Ave (4 peaks):			215.4	RPD = 26
Aroclor-1268	1	9.801	0.004	1522566	44.6	1	10.118	-0.028	4968600	287.4
Aroclor-1268	2	9.863	0.006	1583487	51.7	2	10.199	-0.005	2078249	131.7
Aroclor-1268	3	10.201	0.022	530561	20.2	3	10.538	-0.002	297394	23.2
Aroclor-1268	4	10.821	0.007	817112	13.3	4	11.193	-0.002	356973	10.6

207

281

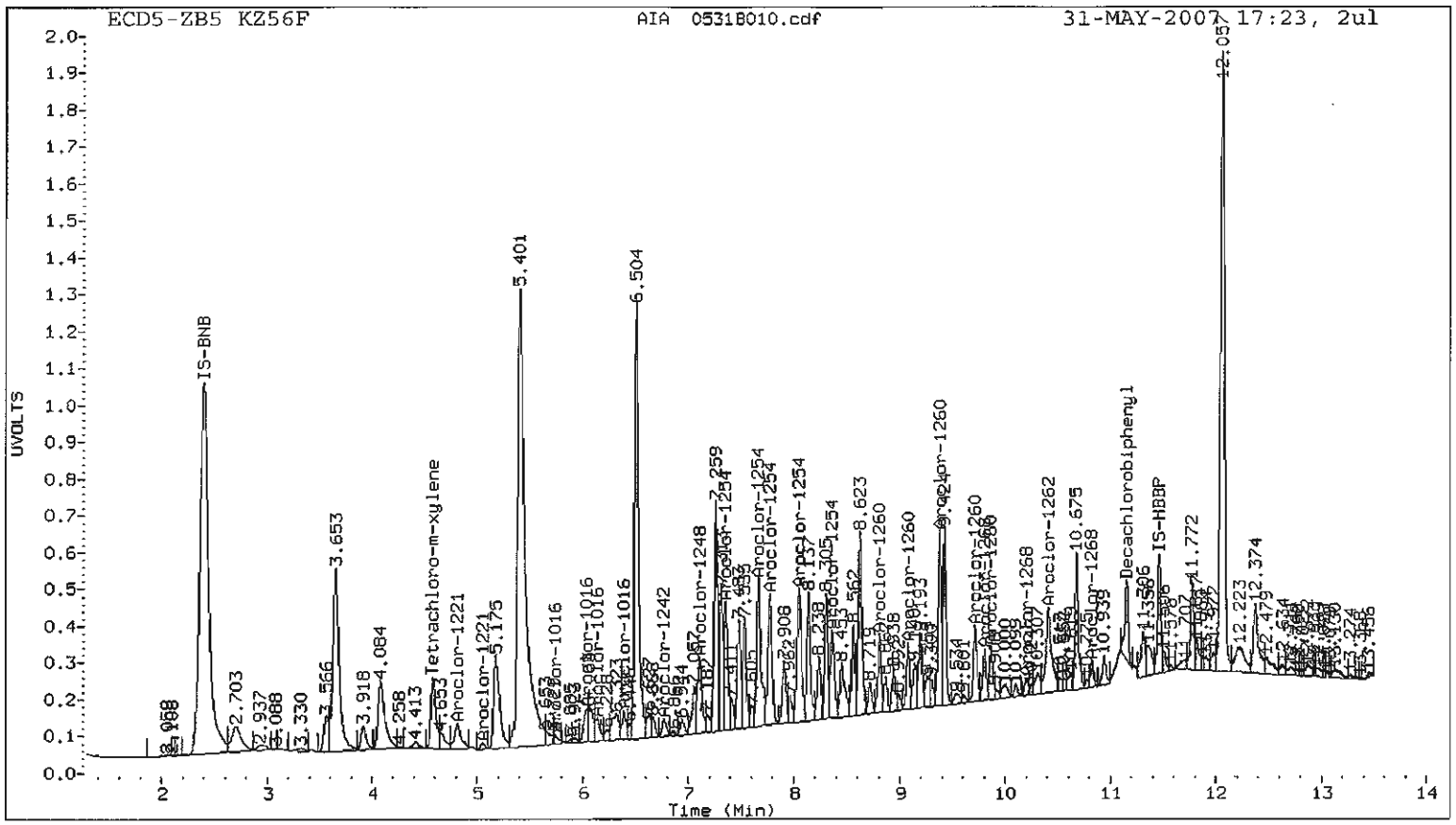
Total Col1Ave (4 peaks):	32.5	Total Col2Ave (4 peaks):	113.3	RPD = 111*
Corrected Ave (4 peaks):	32.5	Corrected Ave (3 peaks):	55.2	RPD = 52*

Total PCB Area Col1 (4.673 - 11.049) = 183934184 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 127198926 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1016
Aroclor-1248
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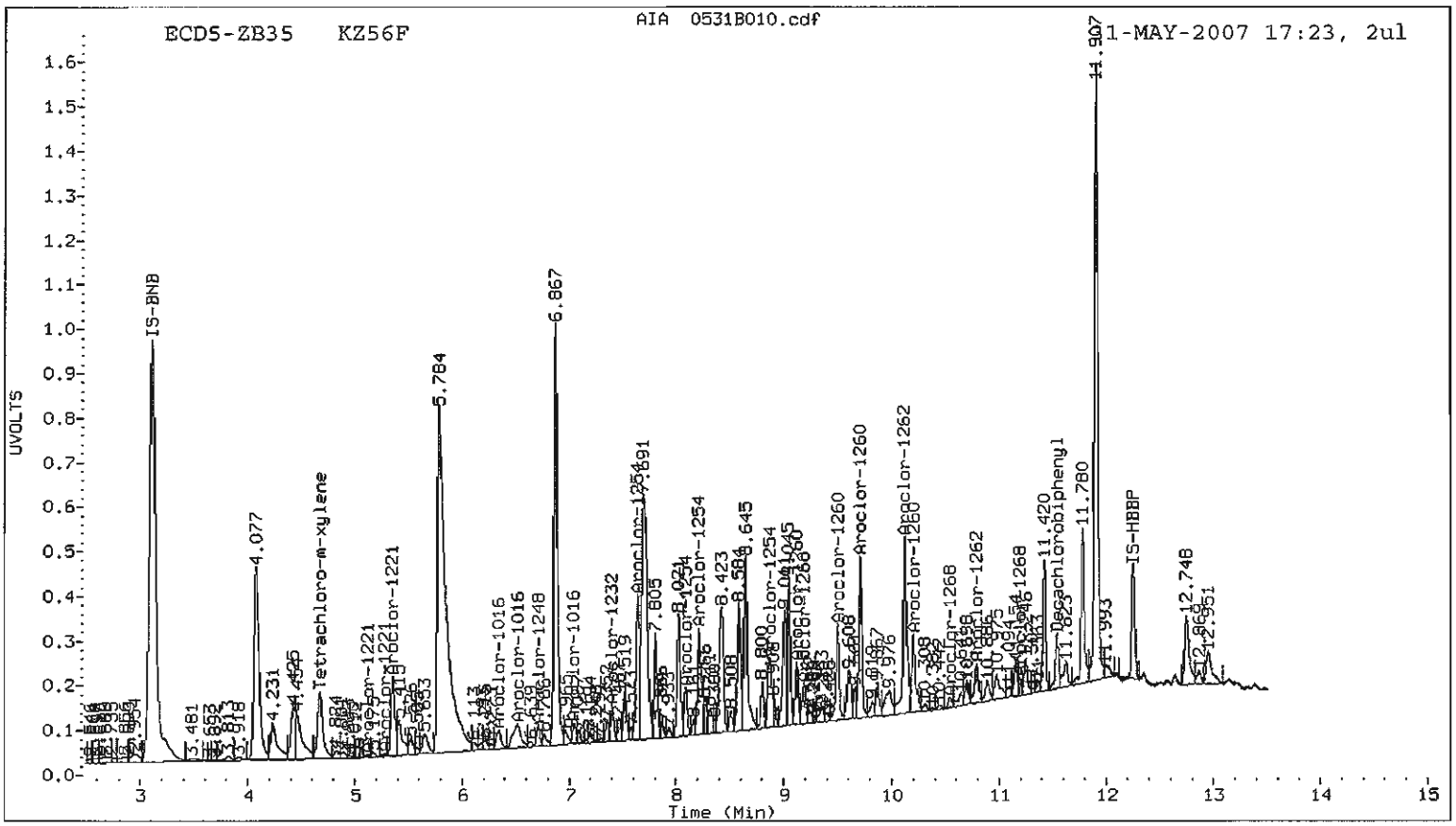
Decachlorobiphenyl
IS-HBBP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Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC07-S
SAMPLE

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 18:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 42.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	**Aroclor 1254**	**9.9**	**49**
11096-82-5	**Aroclor 1260**	**9.9**	**50**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	88.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B019.d
Data file 2: 20070529.b/0530-2.b/0530B019.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56G
Client ID: Y3-RC07-S
Injection Date: 30-MAY-2007 18:43
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.577	0.004	10932394	4.671	0.000	7624565	30.4	35.2	14.8	Tetrachloro-m-xylene
11.157	0.007	6248037	11.545	0.003	4223382	42.8	45.2	5.5	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	75.9	88.1
Decachlorobiphenyl	106.9	113.0

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	30382285	-5.8
Hexabromobiphenyl	5108210	3657749	-28.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19101472	-6.0
Hexabromobiphenyl	3608946	3035283	-15.9

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.732	-0.001	1924456	203.9	1	---			0.0
Aroclor-1016	2	6.054	0.030	6275596	206.2	2	6.347	0.003	1217974	66.9
Aroclor-1016	3	6.140	0.004	2227312	186.3	3	6.516	0.010	1531999	212.3
Aroclor-1016	4	6.394	0.003	2361151	308.1	4	7.048	0.004	1267658	216.1
Total Col1Ave (4 peaks):				226.1		Total Col2Ave (3 peaks):			165.1	RPD = 31
Corrected Ave (4 peaks):				226.1		Corrected Ave (3 peaks):			165.1	RPD = 31
Aroclor-1221	1	---			0.0	1	5.123	-0.002	131116	42.3
Aroclor-1221	2	4.955	0.001	204380	62.0	2	5.294	-0.005	30699	16.8
Aroclor-1221	3	5.053	0.027	339519	32.4	3	5.354	-0.027	11977860	2090.9
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 716.7				
Aroclor-1232	1	5.053	0.026	339519	39.4	1	5.354	-0.026	11977860	2566.5
Aroclor-1232	2	5.732	-0.002	1924456	456.7	2	---			0.0
Aroclor-1232	3	6.054	0.030	6275596	462.1	3	6.347	0.003	1217974	152.2
Aroclor-1232	4	6.140	0.003	2227312	416.7	4	7.403	0.003	2037350	663.4
Total Col1Ave (4 peaks):				343.7		Total Col2Ave (3 peaks):			1127.4	RPD = 107*
Corrected Ave (4 peaks):				343.7		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.732	-0.003	1924456	226.7	1	5.354	-0.026	11977860	2916.7
Aroclor-1242	2	6.054	0.028	6275596	228.6	2	---			0.0
Aroclor-1242	3	6.140	0.003	2227312	204.6	3	6.347	0.002	1217974	75.5
Aroclor-1242	4	6.771	0.005	1456862	145.0	4	6.516	0.010	1531999	234.3
Aroclor-1242	NS	---			----	5	7.403	0.003	2037350	329.8
Total Col1Ave (4 peaks):				201.2		Total Col2Ave (4 peaks):			889.1	RPD = 126*
Corrected Ave (4 peaks):				201.2		Corrected Ave (3 peaks):			213.2	RPD = 6
Aroclor-1248	1	6.054	0.033	6275596	320.9	1	6.347	0.004	1217974	103.8
Aroclor-1248	2	6.140	0.001	2227312	354.2	2	6.711	0.002	1180503	186.8
Aroclor-1248	3	6.394	0.003	2361151	226.0	3	7.048	0.004	1267658	158.3
Aroclor-1248	4	6.771	0.007	1456862	98.3	4	7.403	0.004	2037350	194.2
Aroclor-1248	5	7.112	0.012	6390543	334.1	NS	---			----
Total Col1Ave (5 peaks):				266.7		Total Col2Ave (4 peaks):			160.8	RPD = 50*
Corrected Ave (5 peaks):				266.7		Corrected Ave (4 peaks):			160.8	RPD = 50*
Aroclor-1254	1	7.359	0.007	10287939	487.8	1	7.642	-0.007	8526836	~~773.0~~
Aroclor-1254	2	7.664	0.007	11937211	~~871.1~~	2	8.089	0.004	3102998	405.0
Aroclor-1254	3	7.776	0.007	11922864	478.3	3	8.214	0.004	8006309	492.7
Aroclor-1254	4	8.053	0.001	12359532	469.4	4	8.872	0.012	5489080	580.3
Aroclor-1254	5	8.366	0.008	7448794	459.3	NS	---			----
Total Col1Ave (5 peaks):				553.2		Total Col2Ave (4 peaks):			562.7	RPD = 2
Corrected Ave (5 peaks):				553.2		Corrected Ave (4 peaks):			562.7	RPD = 2
Aroclor-1260	1	8.810	0.007	5204521	512.8	1	9.124	0.003	2753857	461.4
Aroclor-1260	2	9.079	0.008	4581339	507.9	2	9.194	0.005	2147581	586.2
Aroclor-1260	3	9.378	0.009	11708406	513.8	3	9.506	0.003	5563095	~~776.5~~
Aroclor-1260	4	9.716	0.009	4453957	403.9	4	9.715	0.005	7737814	476.1
Aroclor-1260	5	9.864	0.005	3240697	594.6	5	10.202	0.003	4668041	514.1
Total Col1Ave (5 peaks):				506.6		Total Col2Ave (5 peaks):			562.9	RPD = 11
Corrected Ave (5 peaks):				506.6		Corrected Ave (5 peaks):			562.9	RPD = 11
Aroclor-1262	1	9.079	0.009	4581339	324.8	1	9.124	0.003	2753857	238.0
Aroclor-1262	2	9.378	0.010	11708406	341.4	2	9.506	0.004	5563095	523.9
Aroclor-1262	3	9.716	0.008	4453957	427.3	3	9.715	0.004	7737814	357.4
Aroclor-1262	4	9.864	0.005	3240697	232.7	4	10.122	-0.026	11719172	1343.2
Aroclor-1262	5	10.409	0.010	11023345	1106.2	5	10.792	0.004	1885496	312.8
Total Col1Ave (5 peaks):				486.5		Total Col2Ave (5 peaks):			555.1	RPD = 13
Corrected Ave (4 peaks):				331.6		Corrected Ave (4 peaks):			358.0	RPD = 8
Aroclor-1268	1	9.805	0.007	2361862	65.6	1	10.122	-0.024	11719172	549.2
Aroclor-1268	2	9.864	0.007	3240697	100.2	2	10.202	-0.002	4668041	239.7
Aroclor-1268	3	10.203	0.024	1026351	37.1	3	10.544	0.004	516339	32.7
Aroclor-1268	4	10.824	0.010	1470784	22.7	4	11.199	0.004	771541	18.6

250Y

444

493

509

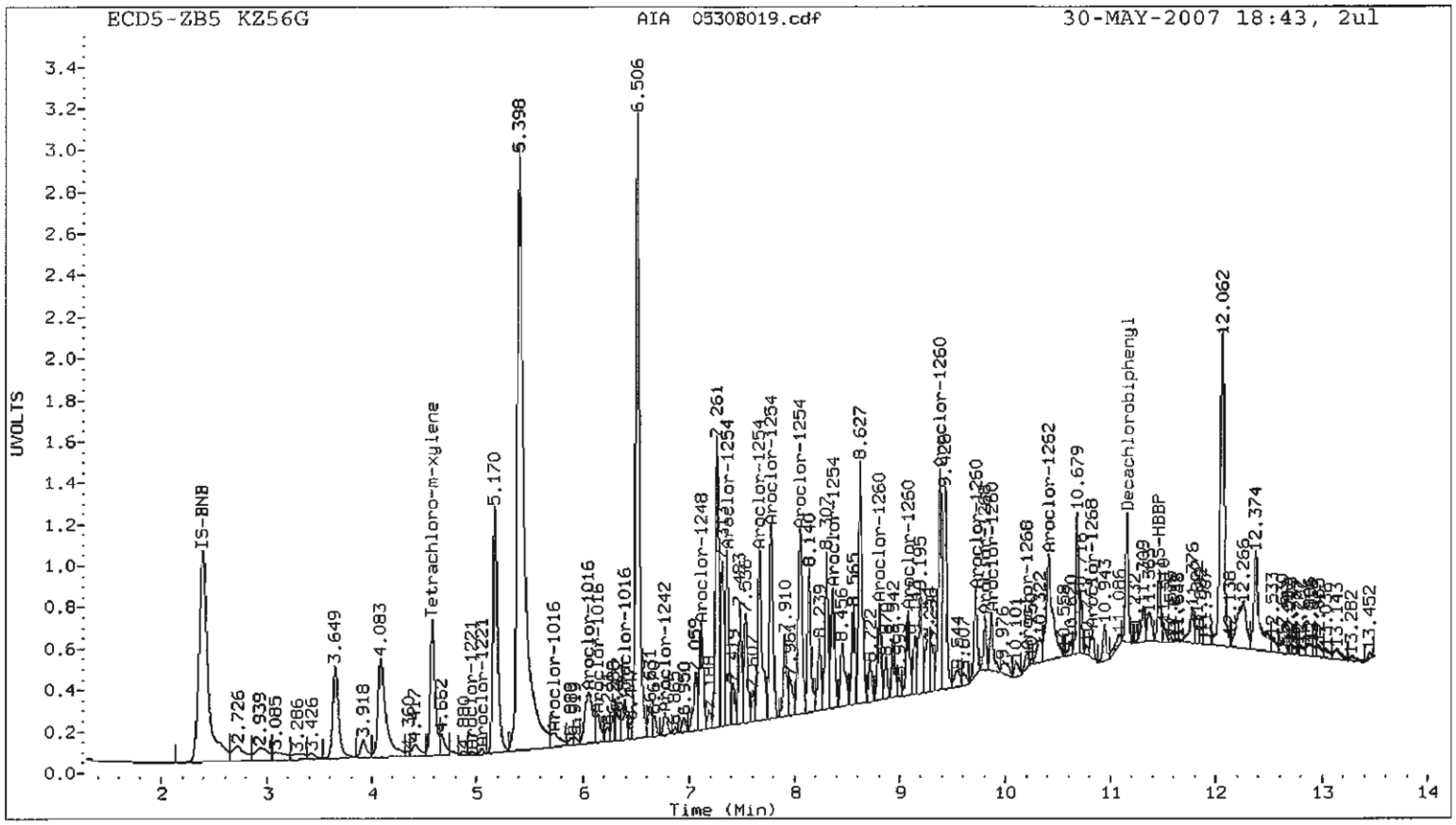
Total Col1Ave (4 peaks):	56.4	Total Col2Ave (4 peaks):	210.0	RPD = 115*
Corrected Ave (3 peaks):	41.8	Corrected Ave (3 peaks):	97.0	RPD = 80*

Total PCB Area Col1 (4.673 - 11.049) = 408383655 Col1 Total PCB = 1.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 282169985 Col2 Total PCB = 2.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Tetrachloro-m-xylene
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Aroclor-1248
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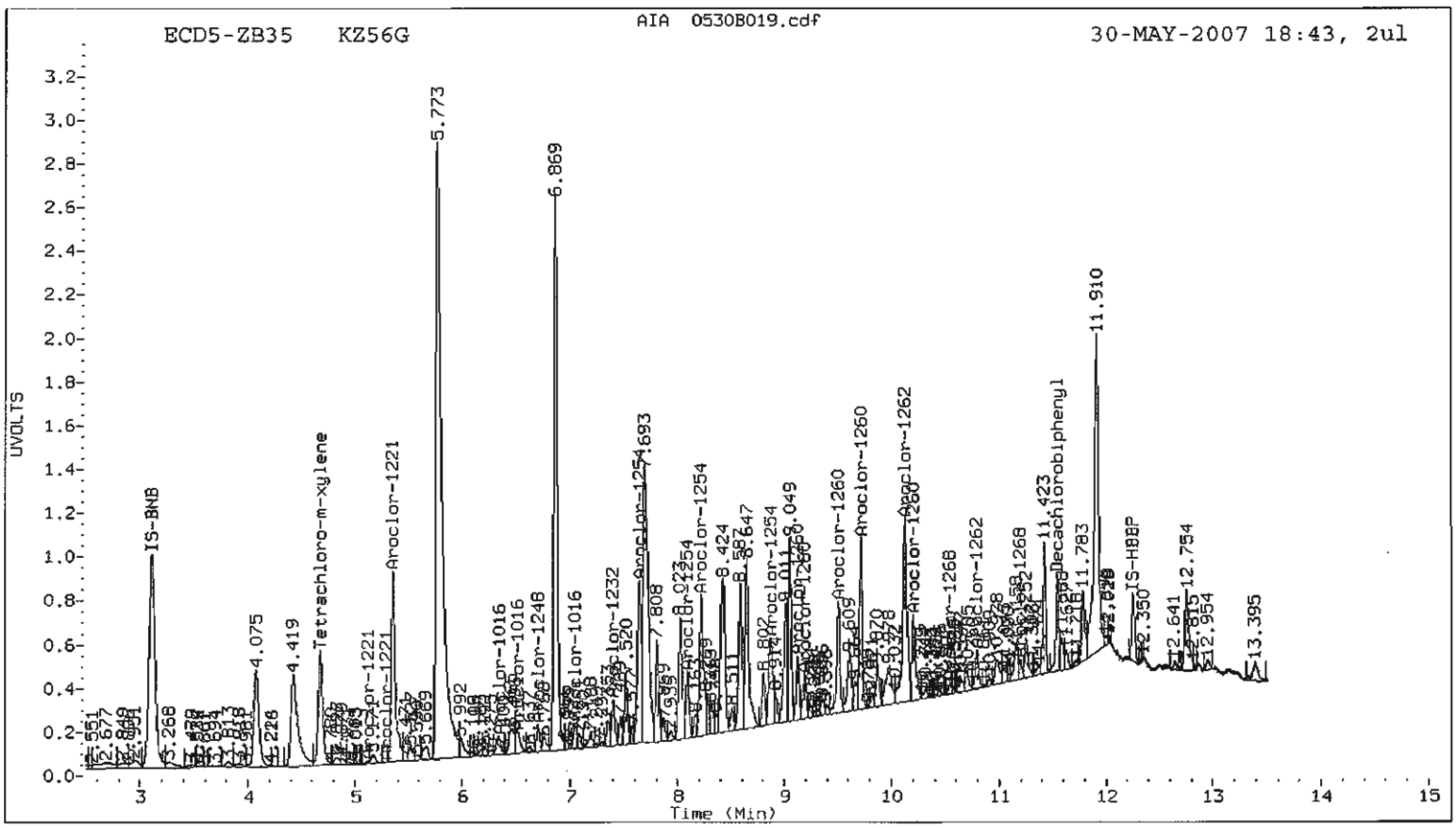
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC07-S
DILUTION

Lab Sample ID: KZ56G
LIMS ID: 07-9553
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:41
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.0
Percent Moisture: 42.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**52**
11096-82-5	**Aroclor 1260**	**30**	**53**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	87.0%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B011.d
Data file 2: 20070529.b/0531-2.b/0531B011.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56G
Client ID:
Injection Date: 31-MAY-2007 17:41
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.578	0.005	4202154	4.671	0.000	2495363	11.6	10.9	6.7	Tetrachloro-m-xylene
11.153	0.004	1912970	11.540	-0.002	1019991	13.1	13.5	3.3	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	87.2	81.6
Decachlorobiphenyl	98.3	101.6

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	30479048	-5.5
Hexabromobiphenyl	5108210	3655773	-28.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20248766	-0.3
Hexabromobiphenyl	3608946	2446225	-32.2

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT (ZB5 Col)	Shift	Area	Amount	Peak#	RT (ZB35 Col)	Shift	Area	Amount
Aroclor-1016	1	5.728	-0.006	468585	49.5	1	---			0.0
Aroclor-1016	2	6.059	0.036	1848973	60.6	2	6.345	0.000	471169	24.4
Aroclor-1016	3	6.138	0.002	757890	63.2	3	6.517	0.010	968174	126.6
Aroclor-1016	4	6.393	0.002	795880	103.5	4	7.046	0.002	388370	62.5
Total Col1Ave (4 peaks):				69.2		Total Col2Ave (3 peaks):			71.2	RPD = 3
Corrected Ave (4 peaks):				69.2		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.812	-0.014	674989	123.7	1	5.128	0.002	33941	10.3
Aroclor-1221	2	4.963	0.009	68825	20.8	2	5.282	-0.017	15989	8.2
Aroclor-1221	3	5.051	0.025	102005	9.7	3	5.353	-0.029	3191637	525.6
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				51.4		Total Col2Ave (3 peaks):			181.4	RPD = 112*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.051	0.024	102005	11.8	1	5.353	-0.028	3191637	645.1
Aroclor-1232	2	5.728	-0.006	468585	110.9	2	---			0.0
Aroclor-1232	3	6.059	0.035	1848973	135.7	3	6.345	0.001	471169	55.6
Aroclor-1232	4	6.138	0.001	757890	141.4	4	7.400	0.000	678144	208.3
Total Col1Ave (4 peaks):				99.9		Total Col2Ave (3 peaks):			303.0	RPD = 101*
Corrected Ave (4 peaks):				99.9		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.728	-0.007	468585	55.0	1	5.353	-0.028	3191637	733.2
Aroclor-1242	2	6.059	0.033	1848973	67.1	2	---			0.0
Aroclor-1242	3	6.138	0.001	757890	69.4	3	6.345	0.000	471169	27.6
Aroclor-1242	4	6.773	0.007	462991	45.9	4	6.517	0.010	968174	139.7
Aroclor-1242	NS	---			----	5	7.400	0.000	678144	103.6
Total Col1Ave (4 peaks):				59.4		Total Col2Ave (4 peaks):			251.0	RPD = 123*
Corrected Ave (4 peaks):				59.4		Corrected Ave (3 peaks):			90.3	RPD = 41*
Aroclor-1248	1	6.059	0.039	1848973	94.2	1	6.345	0.002	471169	37.9
Aroclor-1248	2	6.138	-0.001	757890	120.2	2	6.709	0.000	386547	57.7
Aroclor-1248	3	6.393	0.002	795880	75.9	3	7.046	0.002	388370	45.8
Aroclor-1248	4	6.773	0.009	462991	31.1	4	7.400	0.001	678144	61.0
Aroclor-1248	5	7.109	0.010	2147308	111.9	NS	---			----
Total Col1Ave (5 peaks):				86.7		Total Col2Ave (4 peaks):			50.6	RPD = 53*
Corrected Ave (5 peaks):				86.7		Corrected Ave (4 peaks):			50.6	RPD = 53*
Aroclor-1254	1	7.356	0.004	3484081	164.7	1	7.642	-0.007	2492349	213.1
Aroclor-1254	2	7.662	0.004	3752543	273.0	2	8.085	-0.001	923636	113.7
Aroclor-1254	3	7.774	0.006	3829272	153.1	3	8.211	0.001	2886670	167.6
Aroclor-1254	4	8.052	0.000	3904449	147.8	4	8.864	0.004	1823867	181.9
Aroclor-1254	5	8.360	0.002	2270561	139.5	NS	---			----
Total Col1Ave (5 peaks):				175.6		Total Col2Ave (4 peaks):			169.1	RPD = 4
Corrected Ave (5 peaks):				175.6		Corrected Ave (4 peaks):			169.1	RPD = 4
Aroclor-1260	1	8.806	0.003	1524944	150.3	1	9.120	-0.001	796158	165.5
Aroclor-1260	2	9.074	0.003	1315626	145.9	2	9.188	-0.001	604339	204.7
Aroclor-1260	3	9.373	0.005	3650333	160.3	3	9.502	-0.001	1518510	263.0
Aroclor-1260	4	9.711	0.003	1434570	130.2	4	9.709	0.000	2228652	170.2
Aroclor-1260	5	9.861	0.003	1250720	229.6	5	10.197	-0.001	1259180	172.1
Total Col1Ave (5 peaks):				163.3		Total Col2Ave (5 peaks):			195.1	RPD = 18
Corrected Ave (5 peaks):				163.3		Corrected Ave (5 peaks):			195.1	RPD = 18
Aroclor-1262	1	9.074	0.004	1315626	93.3	1	9.120	-0.001	796158	85.4
Aroclor-1262	2	9.373	0.005	3650333	106.5	2	9.502	-0.001	1518510	177.5
Aroclor-1262	3	9.711	0.003	1434570	137.7	3	9.709	-0.001	2228652	127.7
Aroclor-1262	4	9.861	0.002	1250720	89.9	4	10.118	-0.029	3412020	485.2
Aroclor-1262	5	10.405	0.006	4156292	417.3	5	10.787	0.000	500991	103.1
Total Col1Ave (5 peaks):				168.9		Total Col2Ave (5 peaks):			195.8	RPD = 15
Corrected Ave (4 peaks):				106.8		Corrected Ave (4 peaks):			123.4	RPD = 14
Aroclor-1268	1	9.800	0.002	1005083	27.9	1	10.118	-0.028	3412020	198.4
Aroclor-1268	2	9.861	0.004	1250720	38.7	2	10.197	-0.007	1259180	80.2
Aroclor-1268	3	10.200	0.020	353820	12.8	3	10.538	-0.001	162972	12.8

178

Aroclor-1268	4	10.822	0.008	635957	9.8	4	11.189	-0.006	162388	4.9

Total Col1Ave (4 peaks): 22.3 Total Col2Ave (4 peaks): 74.1 RPD = 107*

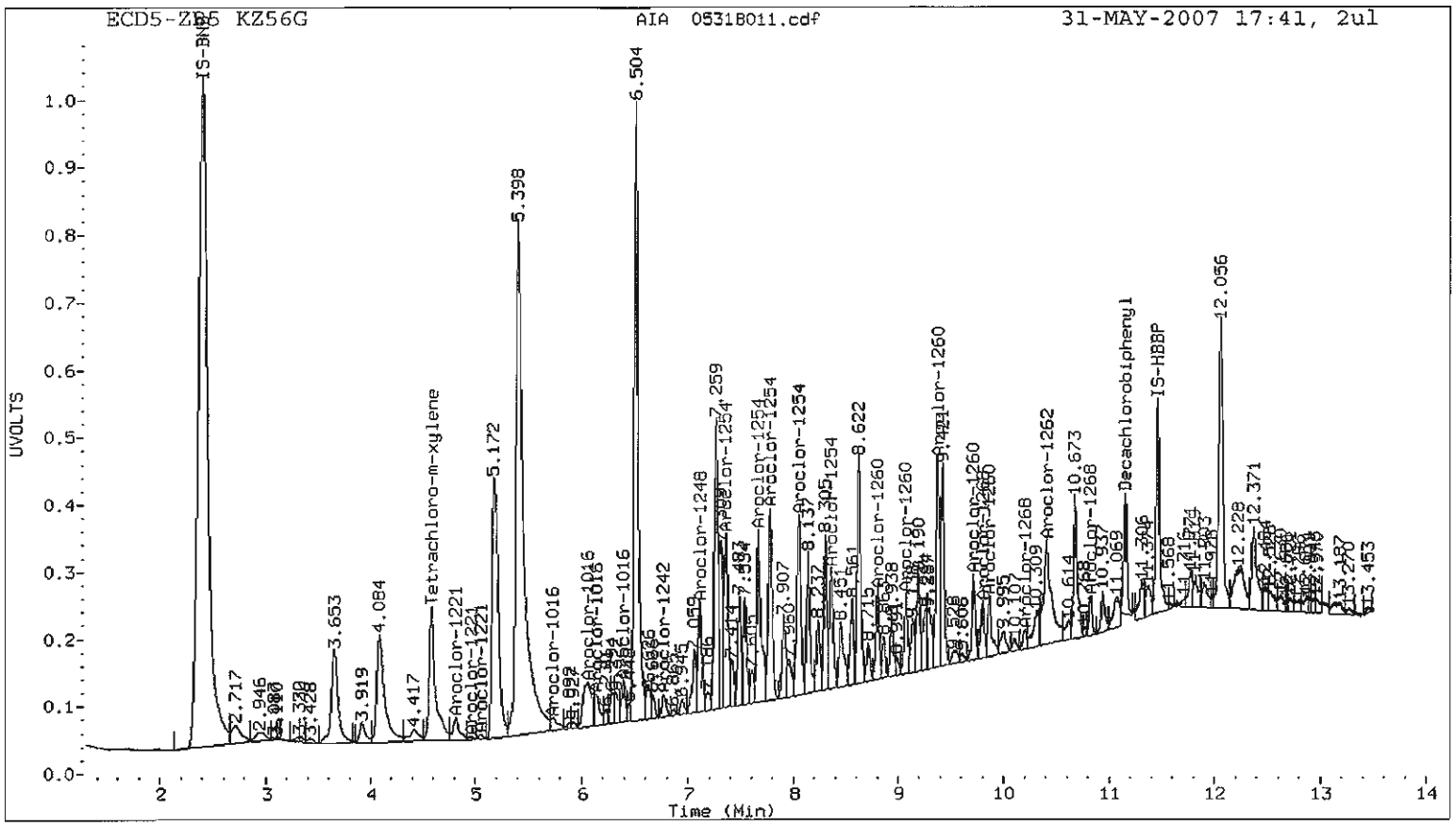
Corrected Ave (3 peaks): 16.9 Corrected Ave (3 peaks): 32.6 RPD = 64*

Total PCB Area Col1 (4.673 - 11.049) = 130838236 Col1 Total PCB = 0.6 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 86683560 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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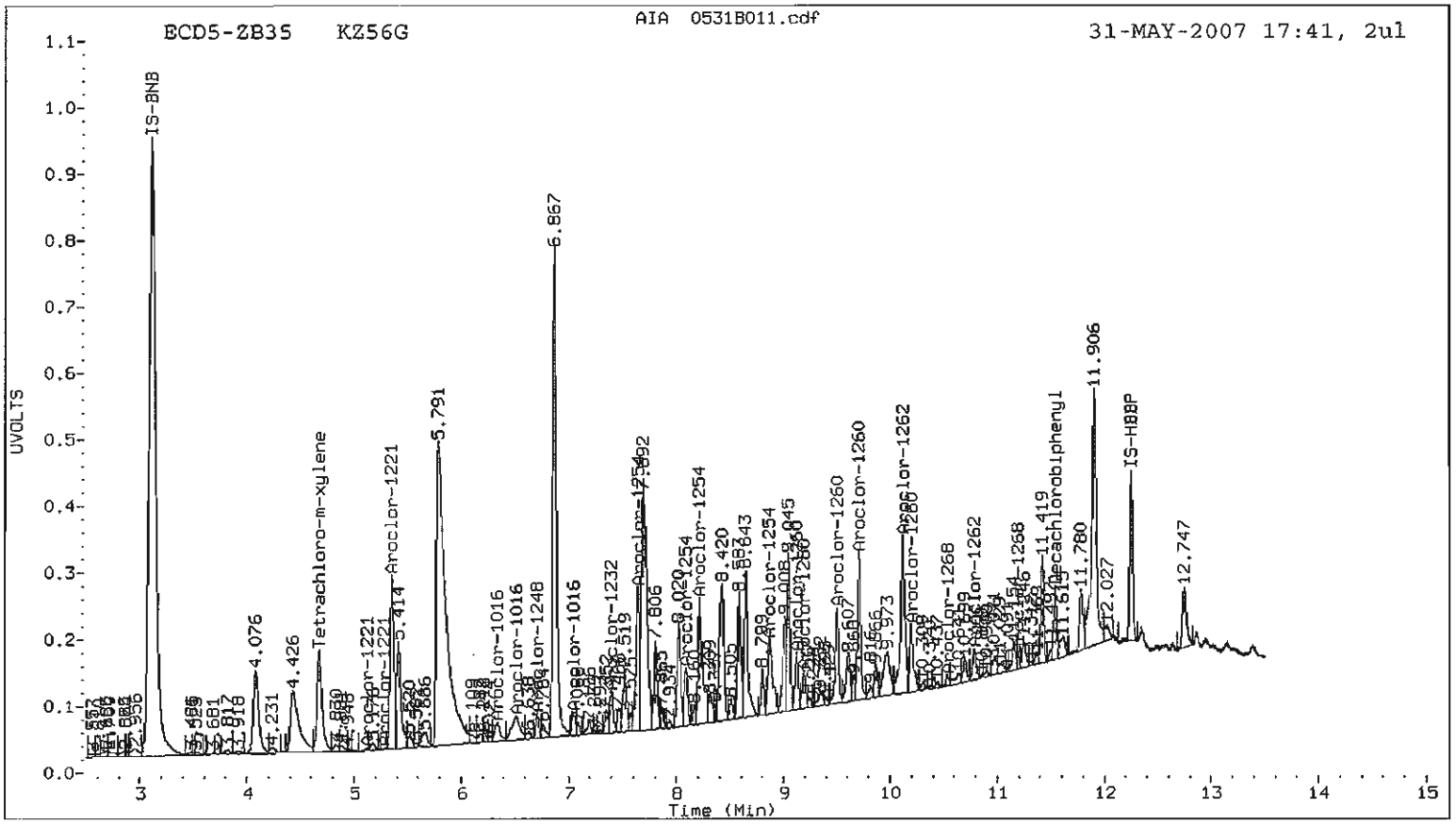
Decachlorobiphenyl
IS-HBBP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Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC08-S
SAMPLE

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:01
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	35	< 35 Y
11097-69-1	Aroclor 1254	9.9	66
11096-82-5	Aroclor 1260	9.9	65
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	96.0%
Tetrachlorometaxylene	95.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B020.d
Data file 2: 20070529.b/0530-2.b/0530B020.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56H
Client ID: Y3-RC08-S
Injection Date: 30-MAY-2007 19:01
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.578	0.005	11389864	4.674	0.003	8129399	34.2	38.1	10.6	Tetrachloro-m-xylene
11.160	0.011	5923485	11.545	0.003	3710993	38.4	35.8	7.1	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	85.5	95.1
Decachlorobiphenyl	96.0	89.5

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28087288	-12.9
Hexabromobiphenyl	5108210	3860769	-24.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18853154	-7.2
Hexabromobiphenyl	3608946	3369488	-6.6

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.727	-0.006	2180651	249.9	1	---			0.0
Aroclor-1016	2	6.054	0.030	8944297	317.9	2	6.347	0.003	1950519	108.6
Aroclor-1016	3	6.137	0.001	2721124	246.2	3	6.517	0.011	2612975	366.9
Aroclor-1016	4	6.394	0.003	2965666	418.7	4	7.049	0.005	1743918	301.2
Total Col1Ave (4 peaks):				308.2		Total Col2Ave (3 peaks):			258.9	RPD = 17
Corrected Ave (4 peaks):				308.2		Corrected Ave (3 peaks):			258.9	RPD = 17
Aroclor-1221	1	---			0.0	1	5.129	0.003	153667	50.2
Aroclor-1221	2	4.965	0.011	255724	83.9	2	5.294	-0.004	11251	6.2
Aroclor-1221	3	5.051	0.025	397702	41.1	3	5.356	-0.026	8200052	1450.3
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 502.3				
Aroclor-1232	1	5.051	0.025	397702	50.0	1	5.356	-0.025	8200052	1780.1
Aroclor-1232	2	5.727	-0.007	2180651	559.8	2	---			0.0
Aroclor-1232	3	6.054	0.030	8944297	712.5	3	6.347	0.003	1950519	247.0
Aroclor-1232	4	6.137	0.000	2721124	550.7	4	7.406	0.006	2929184	966.3
Total Col1Ave (4 peaks):				468.2		Total Col2Ave (3 peaks):			997.8	RPD = 72*
Corrected Ave (4 peaks):				468.2		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.727	-0.008	2180651	277.9	1	5.356	-0.025	8200052	2023.1
Aroclor-1242	2	6.054	0.027	8944297	352.4	2	---			0.0
Aroclor-1242	3	6.137	0.000	2721124	270.4	3	6.347	0.002	1950519	122.5
Aroclor-1242	4	6.775	0.009	2071202	223.0	4	6.517	0.011	2612975	405.0
Aroclor-1242	NS	---			----	5	7.406	0.006	2929184	480.4
Total Col1Ave (4 peaks):				280.9		Total Col2Ave (4 peaks):			757.7	RPD = 92*
Corrected Ave (4 peaks):				280.9		Corrected Ave (3 peaks):			336.0	RPD = 18
Aroclor-1248	1	6.054	0.033	8944297	494.7	1	6.347	0.004	1950519	168.4
Aroclor-1248	2	6.137	-0.002	2721124	468.1	2	6.711	0.002	1625885	260.7
Aroclor-1248	3	6.394	0.003	2965666	307.0	3	7.049	0.005	1743918	220.7
Aroclor-1248	4	6.775	0.010	2071202	151.1	4	7.406	0.007	2929184	283.0
Aroclor-1248	5	7.111	0.011	8226984	465.3	NS	---			----
Total Col1Ave (5 peaks):				377.2		Total Col2Ave (4 peaks):			233.2	RPD = 47*
Corrected Ave (5 peaks):				377.2		Corrected Ave (4 peaks):			233.2	RPD = 47*
Aroclor-1254	1	7.361	0.010	13590438	697.1	1	7.644	-0.004	11413739	~~1048~~.3
Aroclor-1254	2	7.668	0.011	16666900	~~1315~~.6	2	8.091	0.006	3763045	497.6
Aroclor-1254	3	7.778	0.009	15119237	656.0	3	8.216	0.005	9957089	620.9
Aroclor-1254	4	8.056	0.005	15997033	657.2	4	8.875	0.015	7035246	753.6
Aroclor-1254	5	8.368	0.011	9618940	641.5	NS	---			----
Total Col1Ave (5 peaks):				793.5		Total Col2Ave (4 peaks):			730.1	RPD = 8
Corrected Ave (5 peaks):				793.5		Corrected Ave (4 peaks):			730.1	RPD = 8
Aroclor-1260	1	8.812	0.009	7482122	698.5	1	9.128	0.007	4118043	621.5
Aroclor-1260	2	9.082	0.011	6015030	631.8	2	9.195	0.006	3334054	~~819~~.7
Aroclor-1260	3	9.381	0.013	15160007	630.2	3	9.508	0.005	7502315	~~943~~.3
Aroclor-1260	4	9.719	0.011	6340039	544.7	4	9.718	0.009	11234389	622.7
Aroclor-1260	5	9.869	0.010	4350323	756.2	5	10.205	0.006	6626531	657.4
Total Col1Ave (5 peaks):				652.3		Total Col2Ave (5 peaks):			732.9	RPD = 12
Corrected Ave (5 peaks):				652.3		Corrected Ave (5 peaks):			732.9	RPD = 12
Aroclor-1262	1	9.082	0.011	6015030	404.1	1	9.128	0.007	4118043	320.6
Aroclor-1262	2	9.381	0.013	15160007	418.8	2	9.508	0.005	7502315	636.5
Aroclor-1262	3	9.719	0.011	6340039	576.2	3	9.718	0.008	11234389	467.4
Aroclor-1262	4	9.869	0.010	4350323	296.0	4	10.124	-0.023	13464120	1390.1
Aroclor-1262	5	10.412	0.013	10235309	973.1	5	10.795	0.007	3051546	456.1
Total Col1Ave (5 peaks):				533.6		Total Col2Ave (5 peaks):			654.1	RPD = 20
Corrected Ave (4 peaks):				423.8		Corrected Ave (4 peaks):			470.1	RPD = 10
Aroclor-1268	1	9.807	0.009	3661557	96.3	1	10.124	-0.022	13464120	568.4
Aroclor-1268	2	9.869	0.012	4350323	127.5	2	10.205	0.001	6626531	306.5
Aroclor-1268	3	10.206	0.027	1416704	48.5	3	10.542	0.003	823326	46.9
Aroclor-1268	4	10.824	0.010	2022847	29.6	4	11.200	0.005	1115569	24.3

663 624 684

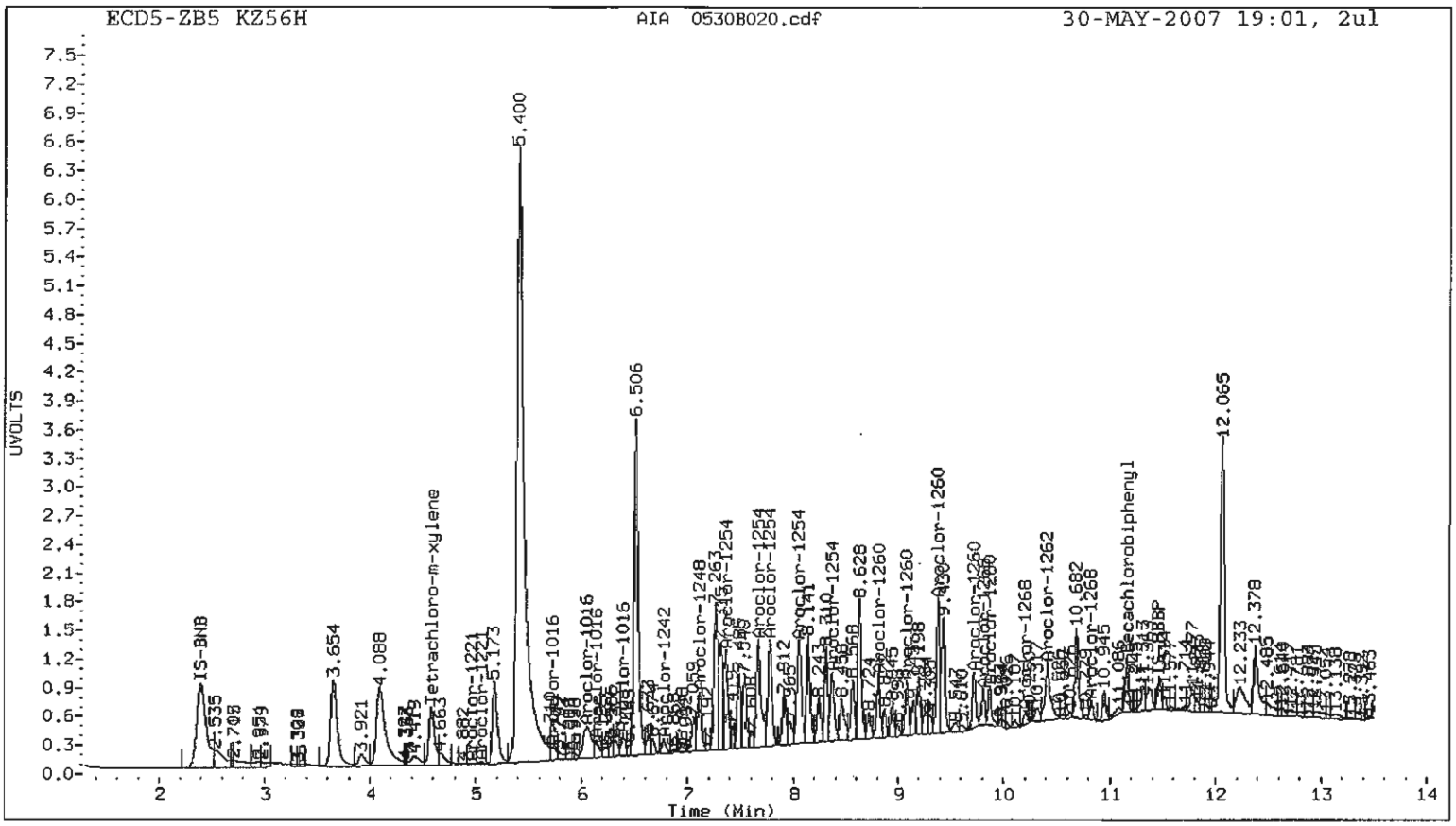
Total Col1Ave (4 peaks):	75.5	Total Col2Ave (4 peaks):	236.5	RPD = 103*
Corrected Ave (4 peaks):	75.5	Corrected Ave (3 peaks):	125.9	RPD = 50*

Total PCB Area Col1 (4.673 - 11.049) = 598653354 Col1 Total PCB = 2.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 450382712 Col2 Total PCB = 3.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Tetrachloro-m-xylene
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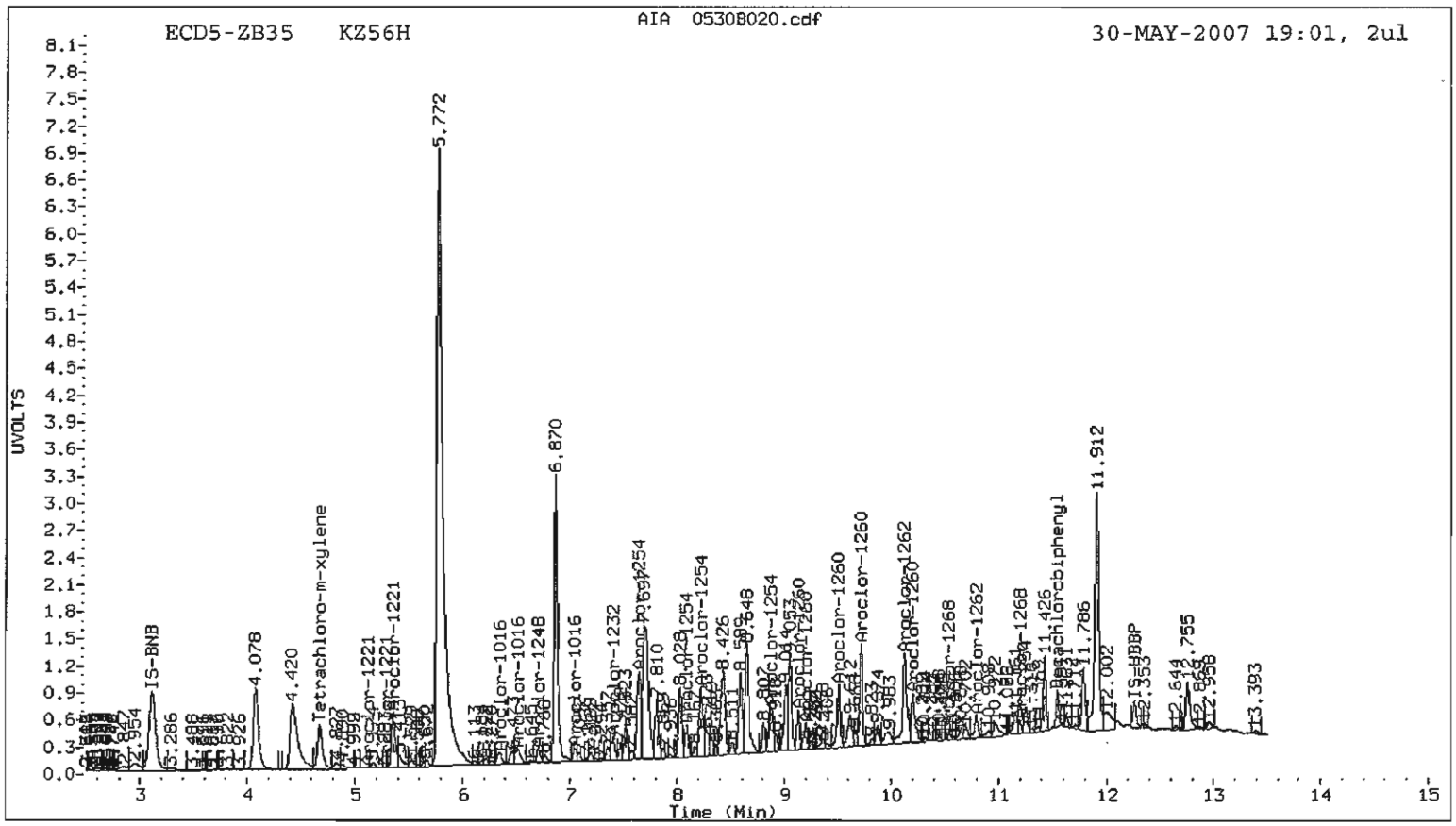
Decachlorobiphenyl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Time (Min)
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Tetrachloro-m-xylene
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6.870
11.912
Decachlorobiphenyl

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC08-S
DILUTION

Lab Sample ID: KZ56H
LIMS ID: 07-9554
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 17:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	33
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	Aroclor 1254	30	56
11096-82-5	Aroclor 1260	30	80
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	118%
Tetrachlorometaxylene	89.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B012.d
Data file 2: 20070529.b/0531-2.b/0531B012.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56H
Client ID:
Injection Date: 31-MAY-2007 17:58
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.580	0.007	3808865	4.673	0.002	2731115	10.0	11.9	17.9	Tetrachloro-m-xylene
11.152	0.003	2264736	11.541	-0.001	1229330	13.9	15.7	12.3	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.7	89.5
Decachlorobiphenyl	104.0	117.6

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	32247742	0.0
Hexabromobiphenyl	5108210	4088582	-20.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20205720	-0.5
Hexabromobiphenyl	3608946	2546880	-29.4

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.728	-0.005	1101861	110.0	1	---			0.0
Aroclor-1016	2	6.054	0.031	2794405	86.5	2	6.346	0.002	818841	42.5
Aroclor-1016	3	6.136	0.000	1088355	85.8	3	6.520	0.013	1567356	205.3
Aroclor-1016	4	6.393	0.001	1004299	123.5	4	7.046	0.002	547260	88.2
Total Col1Ave (4 peaks):				101.4		Total Col2Ave (3 peaks):			112.0	RPD = 10
Corrected Ave (4 peaks):				101.4		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.814	-0.012	649532	112.5	1	5.128	0.003	54582	16.7
Aroclor-1221	2	4.956	0.002	90576	25.9	2	5.278	-0.020	18675	9.6
Aroclor-1221	3	5.048	0.022	123933	11.2	3	5.355	-0.026	2516807	415.3
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				49.8		Total Col2Ave (3 peaks):			147.2	RPD = 99*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.048	0.022	123933	13.6	1	5.355	-0.025	2516807	509.8
Aroclor-1232	2	5.728	-0.006	1101861	246.4	2	---			0.0
Aroclor-1232	3	6.054	0.030	2794405	193.9	3	6.346	0.002	818841	96.7
Aroclor-1232	4	6.136	-0.001	1088355	191.9	4	7.401	0.002	949853	292.4
Total Col1Ave (4 peaks):				161.4		Total Col2Ave (3 peaks):			299.6	RPD = 60*
Corrected Ave (4 peaks):				161.4		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.728	-0.007	1101861	122.3	1	5.355	-0.025	2516807	579.4
Aroclor-1242	2	6.054	0.028	2794405	95.9	2	---			0.0
Aroclor-1242	3	6.136	-0.001	1088355	94.2	3	6.346	0.001	818841	48.0
Aroclor-1242	4	6.772	0.006	675216	63.3	4	6.520	0.013	1567356	226.6
Aroclor-1242	NS	---			----	5	7.401	0.002	949853	145.4
Total Col1Ave (4 peaks):				93.9		Total Col2Ave (4 peaks):			249.8	RPD = 91*
Corrected Ave (4 peaks):				93.9		Corrected Ave (3 peaks):			140.0	RPD = 39
Aroclor-1248	1	6.054	0.034	2794405	134.6	1	6.346	0.003	818841	65.9
Aroclor-1248	2	6.136	-0.003	1088355	163.1	2	6.709	0.001	526173	78.7
Aroclor-1248	3	6.393	0.001	1004299	90.5	3	7.046	0.002	547260	64.6
Aroclor-1248	4	6.772	0.008	675216	42.9	4	7.401	0.002	949853	85.6
Aroclor-1248	5	7.110	0.011	2625190	129.3	NS	---			----
Total Col1Ave (5 peaks):				112.1		Total Col2Ave (4 peaks):			73.7	RPD = 41*
Corrected Ave (5 peaks):				112.1		Corrected Ave (4 peaks):			73.7	RPD = 41*
Aroclor-1254	1	7.358	0.006	4450268	198.8	1	7.643	-0.006	3612458	~~309.6~~
Aroclor-1254	2	7.664	0.007	5342348	~~367.3~~	2	8.087	0.002	1165714	143.8
Aroclor-1254	3	7.776	0.007	5009330	189.3 190	3	8.212	0.001	3184847	185.3 178
Aroclor-1254	4	8.052	0.000	5278348	188.9	4	8.869	0.009	2058240	205.7
Aroclor-1254	5	8.362	0.005	3132899	182.0	NS	---			----
Total Col1Ave (5 peaks):				225.3		Total Col2Ave (4 peaks):			211.1	RPD = 6
Corrected Ave (5 peaks):				225.3		Corrected Ave (4 peaks):			211.1	RPD = 6
Aroclor-1260	1	8.807	0.005	2418045	213.2	1	9.122	0.001	1276502	254.9
Aroclor-1260	2	9.077	0.006	1967536	195.1	2	9.189	0.000	979034	318.5
Aroclor-1260	3	9.377	0.008	5752351	225.8	3	9.502	-0.001	2281087	~~279.4~~
Aroclor-1260	4	9.713	0.005	2224840	180.5	4	9.710	0.001	3482211	255.4
Aroclor-1260	5	9.863	0.004	1777960	291.8	5	10.198	0.000	1922326	252.3 270
Total Col1Ave (5 peaks):				221.3		Total Col2Ave (5 peaks):			292.1	RPD = 28
Corrected Ave (5 peaks):				221.3		Corrected Ave (5 peaks):			292.1	RPD = 28
Aroclor-1262	1	9.077	0.006	1967536	124.8	1	9.122	0.001	1276502	131.5
Aroclor-1262	2	9.377	0.008	5752351	150.1	2	9.502	0.000	2281087	256.0
Aroclor-1262	3	9.713	0.005	2224840	190.9	3	9.710	0.000	3482211	191.7
Aroclor-1262	4	9.863	0.004	1777960	114.2	4	10.118	-0.029	4149695	566.8
Aroclor-1262	5	10.406	0.007	4154331	373.0	5	10.787	0.000	785542	155.3
Total Col1Ave (5 peaks):				190.6		Total Col2Ave (5 peaks):			260.3	RPD = 31
Corrected Ave (4 peaks):				145.0		Corrected Ave (4 peaks):			183.6	RPD = 23
Aroclor-1268	1	9.801	0.004	1572698	39.1	1	10.118	-0.028	4149695	231.8
Aroclor-1268	2	9.863	0.006	1777960	49.2	2	10.198	-0.006	1922326	117.6
Aroclor-1268	3	10.198	0.019	572832	18.5	3	10.539	0.000	245272	18.5

Aroclor-1268	4	10.821	0.006	898825	12.4	4	11.194	-0.001	290298	8.4

Total Col1Ave (4 peaks): 29.8 Total Col2Ave (4 peaks): 94.1 RPD = 104*

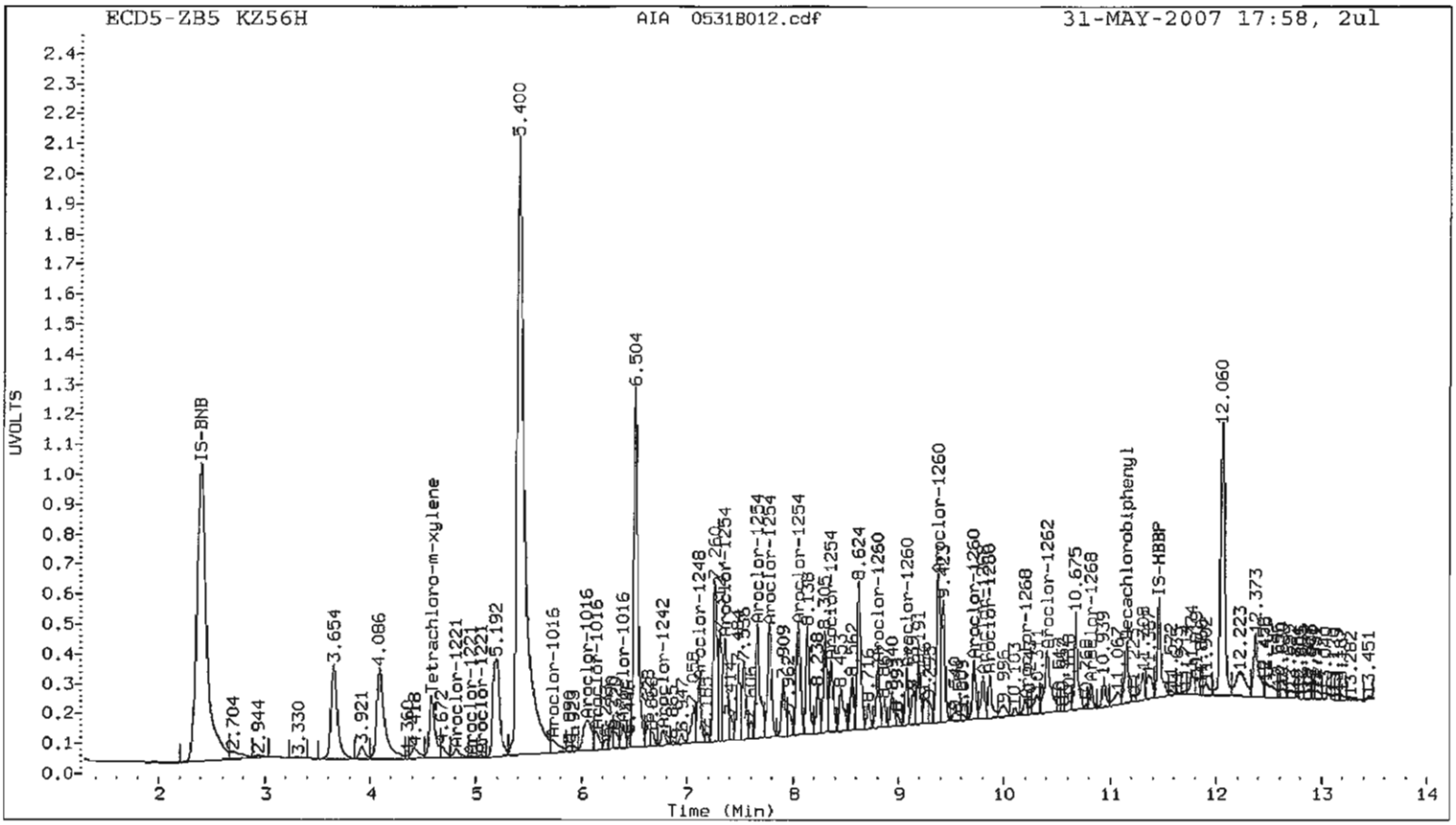
Corrected Ave (4 peaks): 29.8 Corrected Ave (3 peaks): 48.2 RPD = 47*

Total PCB Area Col1 (4.673 - 11.049) = 202334095 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 139563904 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
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Aroclor-1242
Aroclor-1248
Aroclor-1254
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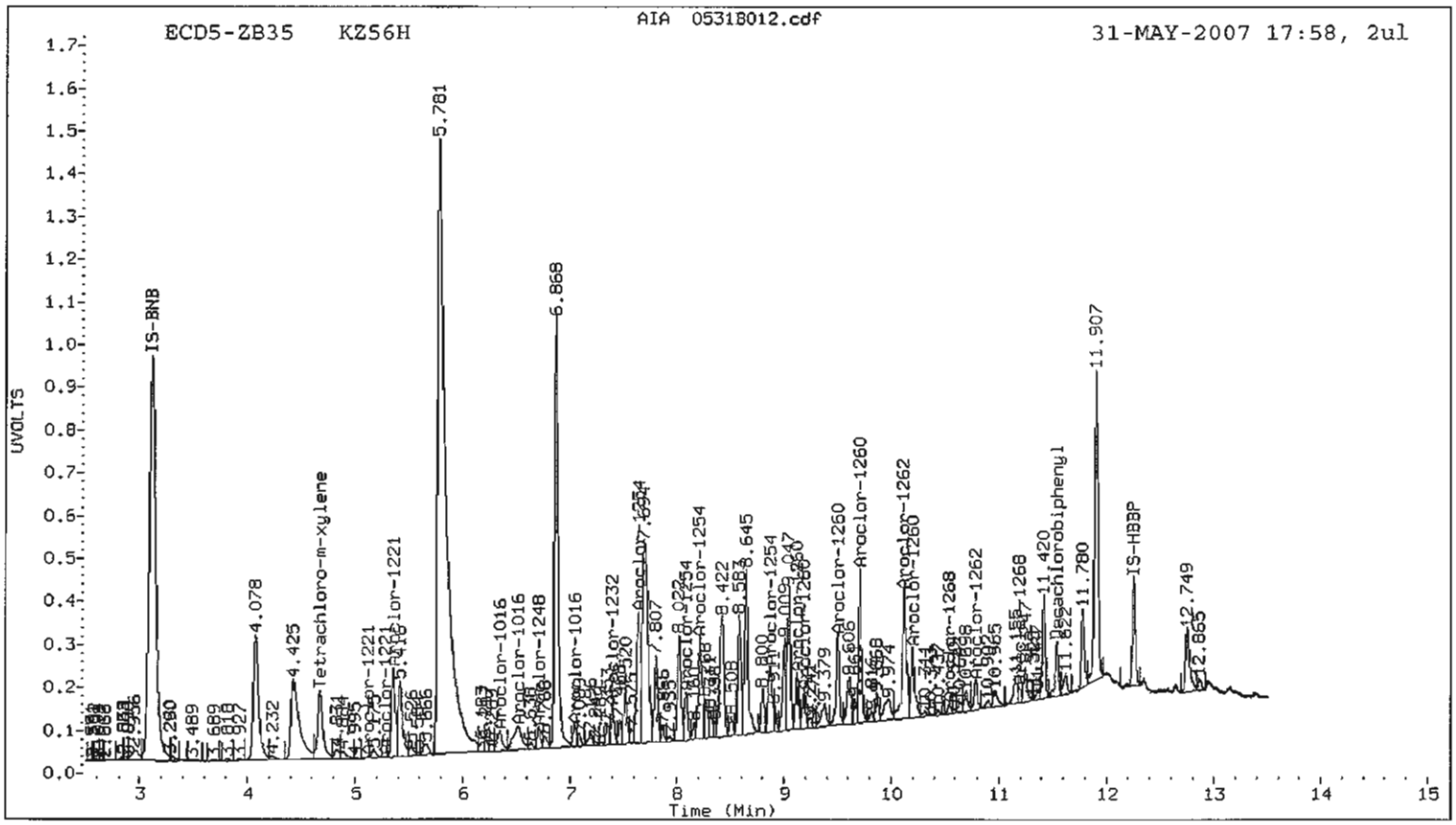
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Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
5.781
6.868
11.907

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC15-S
SAMPLE

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:18
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	9.8	19
11097-69-1	Aroclor 1254	9.8	49
11096-82-5	Aroclor 1260	9.8	54
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	92.8%
Tetrachlorometaxylene	73.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B021.d
Data file 2: 20070529.b/0530-2.b/0530B021.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56I
Client ID: Y3-RC15-S
Injection Date: 30-MAY-2007 19:18
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	10428697	4.674	0.003	6285152	25.9	29.2	11.9	Tetrachloro-m-xylene
11.158	0.009	4805180	11.544	0.002	3509429	31.1	37.1	17.5	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	64.8	73.0
Decachlorobiphenyl	77.7	92.6

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	33930324	5.2
Hexabromobiphenyl	5108210	3870109	-24.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18994777	-6.5
Hexabromobiphenyl	3608946	3077011	-14.7

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.730	-0.003	1843676	174.9	1	---			0.0
Aroclor-1016	2	6.054	0.031	6774164	199.3	2	6.347	0.003	1371183	75.7
Aroclor-1016	3	6.140	0.004	2002215	150.0	3	6.518	0.011	2095364	292.0
Aroclor-1016	4	6.394	0.002	2230885	260.7	4	7.048	0.004	1189092	203.9
Total Col1Ave (4 peaks):				196.2		Total Col2Ave (3 peaks):			190.5	RPD = 3
Corrected Ave (4 peaks):				196.2		Corrected Ave (3 peaks):			190.5	RPD = 3
Aroclor-1221	1	---			0.0	1	5.127	0.002	165404	53.7
Aroclor-1221	2	4.956	0.003	165094	44.8	2	5.296	-0.003	44221	24.3
Aroclor-1221	3	5.050	0.024	315093	26.9	3	5.354	-0.027	5160295	905.9
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:			327.9	
Aroclor-1232	1	5.050	0.023	315093	32.8	1	5.354	-0.026	5160295	1111.9
Aroclor-1232	2	5.730	-0.004	1843676	391.8	2	---			0.0
Aroclor-1232	3	6.054	0.030	6774164	446.7	3	6.347	0.003	1371183	172.3
Aroclor-1232	4	6.140	0.003	2002215	335.4	4	7.401	0.002	2095533	686.2
Total Col1Ave (4 peaks):				301.7		Total Col2Ave (3 peaks):			656.8	RPD = 74*
Corrected Ave (4 peaks):				301.7		Corrected Ave (3 peaks):			656.8	RPD = 74*
Aroclor-1242	1	5.730	-0.005	1843676	194.5	1	5.354	-0.026	5160295	1263.6
Aroclor-1242	2	6.054	0.028	6774164	220.9	2	---			0.0
Aroclor-1242	3	6.140	0.003	2002215	164.7	3	6.347	0.002	1371183	85.5
Aroclor-1242	4	6.774	0.008	1740601	155.1	4	6.518	0.012	2095364	322.3
Aroclor-1242	NS	---			----	5	7.401	0.002	2095533	341.1
Total Col1Ave (4 peaks):				183.8		Total Col2Ave (4 peaks):			503.1	RPD = 93*
Corrected Ave (4 peaks):				183.8		Corrected Ave (3 peaks):			249.6	RPD = 30
Aroclor-1248	1	6.054	0.034	6774164	310.1	1	6.347	0.004	1371183	117.5
Aroclor-1248	2	6.140	0.001	2002215	285.1	2	6.711	0.003	1105552	176.0
Aroclor-1248	3	6.394	0.003	2230885	191.2	3	7.048	0.004	1189092	149.4
Aroclor-1248	4	6.774	0.009	1740601	105.1	4	7.401	0.002	2095533	200.9
Aroclor-1248	5	7.113	0.013	6808627	318.8	NS	---			----
Total Col1Ave (5 peaks):				242.1		Total Col2Ave (4 peaks):			160.9	RPD = 40*
Corrected Ave (5 peaks):				242.1		Corrected Ave (4 peaks):			160.9	RPD = 40*
Aroclor-1254	1	7.359	0.007	10374810	440.5	1	7.644	-0.005	8543413	778.8
Aroclor-1254	2	7.667	0.009	13384180	874.5	2	8.091	0.006	2773427	364.0
Aroclor-1254	3	7.778	0.009	12359329	443.9	3	8.216	0.005	7625330	471.9
Aroclor-1254	4	8.055	0.003	12659765	430.5	4	8.873	0.013	6303279	670.1
Aroclor-1254	5	8.367	0.010	7767318	428.8	NS	---			----
Total Col1Ave (5 peaks):				523.7		Total Col2Ave (4 peaks):			571.2	RPD = 9
Corrected Ave (5 peaks):				523.7		Corrected Ave (4 peaks):			571.2	RPD = 9
Aroclor-1260	1	8.811	0.008	6041179	562.6	1	9.125	0.004	3076003	508.4
Aroclor-1260	2	9.080	0.009	5212768	546.2	2	9.195	0.006	2232088	601.0
Aroclor-1260	3	9.379	0.010	12119026	502.6	3	9.508	0.005	5634297	775.7
Aroclor-1260	4	9.717	0.009	4942417	423.6	4	9.715	0.005	8842154	536.7
Aroclor-1260	5	9.870	0.012	3410009	591.3	5	10.204	0.005	4990707	542.2
Total Col1Ave (5 peaks):				525.2		Total Col2Ave (5 peaks):			592.8	RPD = 12
Corrected Ave (5 peaks):				525.2		Corrected Ave (5 peaks):			592.8	RPD = 12
Aroclor-1262	1	9.080	0.010	5212768	349.3	1	9.125	0.004	3076003	262.2
Aroclor-1262	2	9.379	0.011	12119026	334.0	2	9.508	0.006	5634297	523.4
Aroclor-1262	3	9.717	0.009	4942417	448.1	3	9.715	0.004	8842154	402.8
Aroclor-1262	4	9.870	0.012	3410009	231.5	4	10.124	-0.024	9260127	1046.9
Aroclor-1262	5	10.411	0.012	8463866	802.7	5	10.794	0.006	2313288	378.6
Total Col1Ave (5 peaks):				433.1		Total Col2Ave (5 peaks):			522.8	RPD = 19
Corrected Ave (4 peaks):				340.7		Corrected Ave (4 peaks):			391.8	RPD = 14
Aroclor-1268	1	9.805	0.008	2818081	73.9	1	10.124	-0.022	9260127	428.1
Aroclor-1268	2	9.870	0.013	3410009	99.7	2	10.204	0.000	4990707	252.8
Aroclor-1268	3	10.203	0.024	1006470	34.4	3	10.541	0.002	807421	50.4
Aroclor-1268	4	10.824	0.010	1789264	26.1	4	11.196	0.001	832703	19.8

94

436

502

547

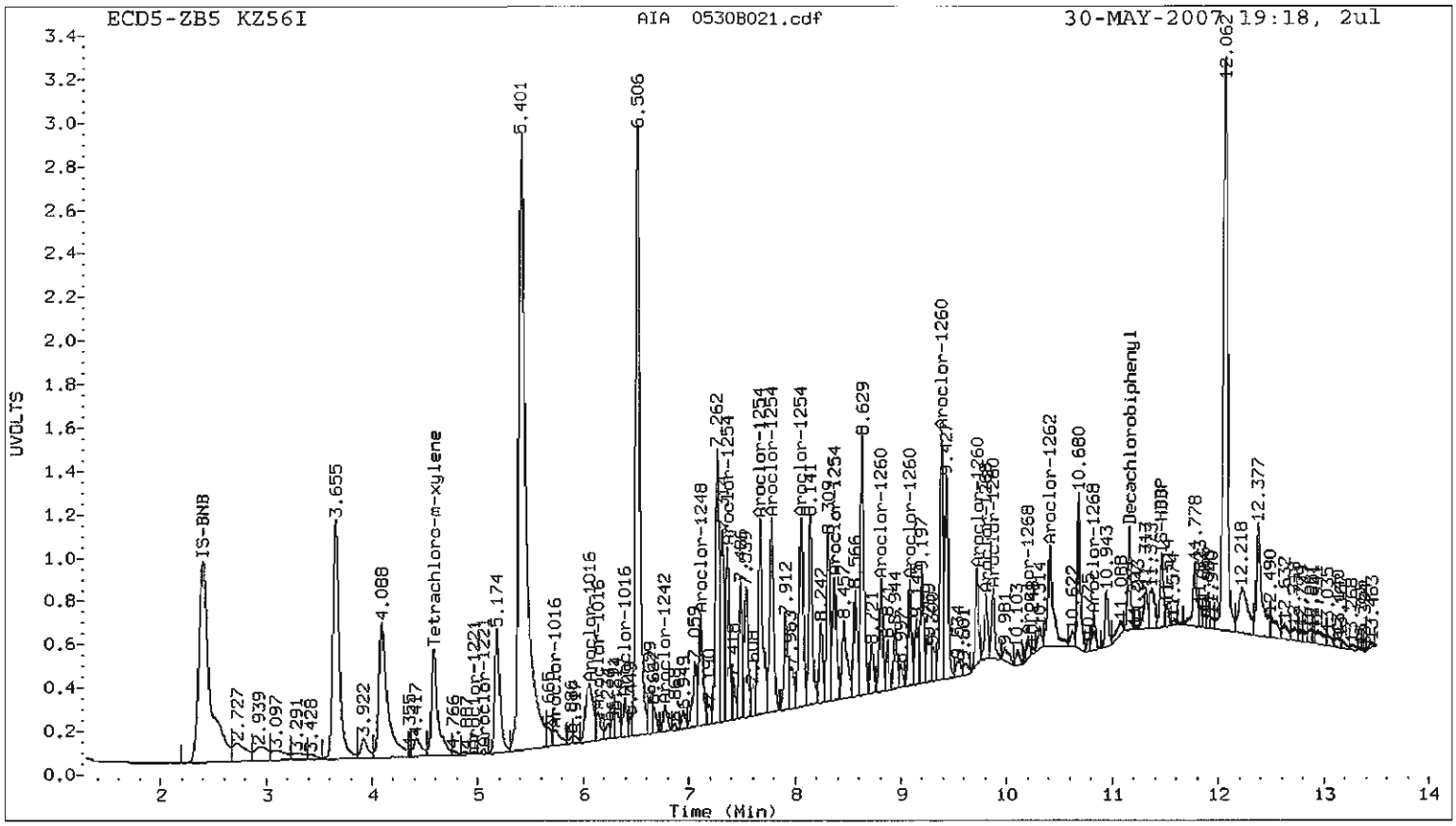
Total Col1Ave (4 peaks):	58.5	Total Col2Ave (4 peaks):	187.8	RPD = 105*
Corrected Ave (3 peaks):	44.8	Corrected Ave (3 peaks):	107.7	RPD = 82*

Total PCB Area Col1 (4.673 - 11.049) = 415323293 Col1 Total PCB = 2.0 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 277869470 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Decachlorobiphenyl
IS-HBBP
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Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
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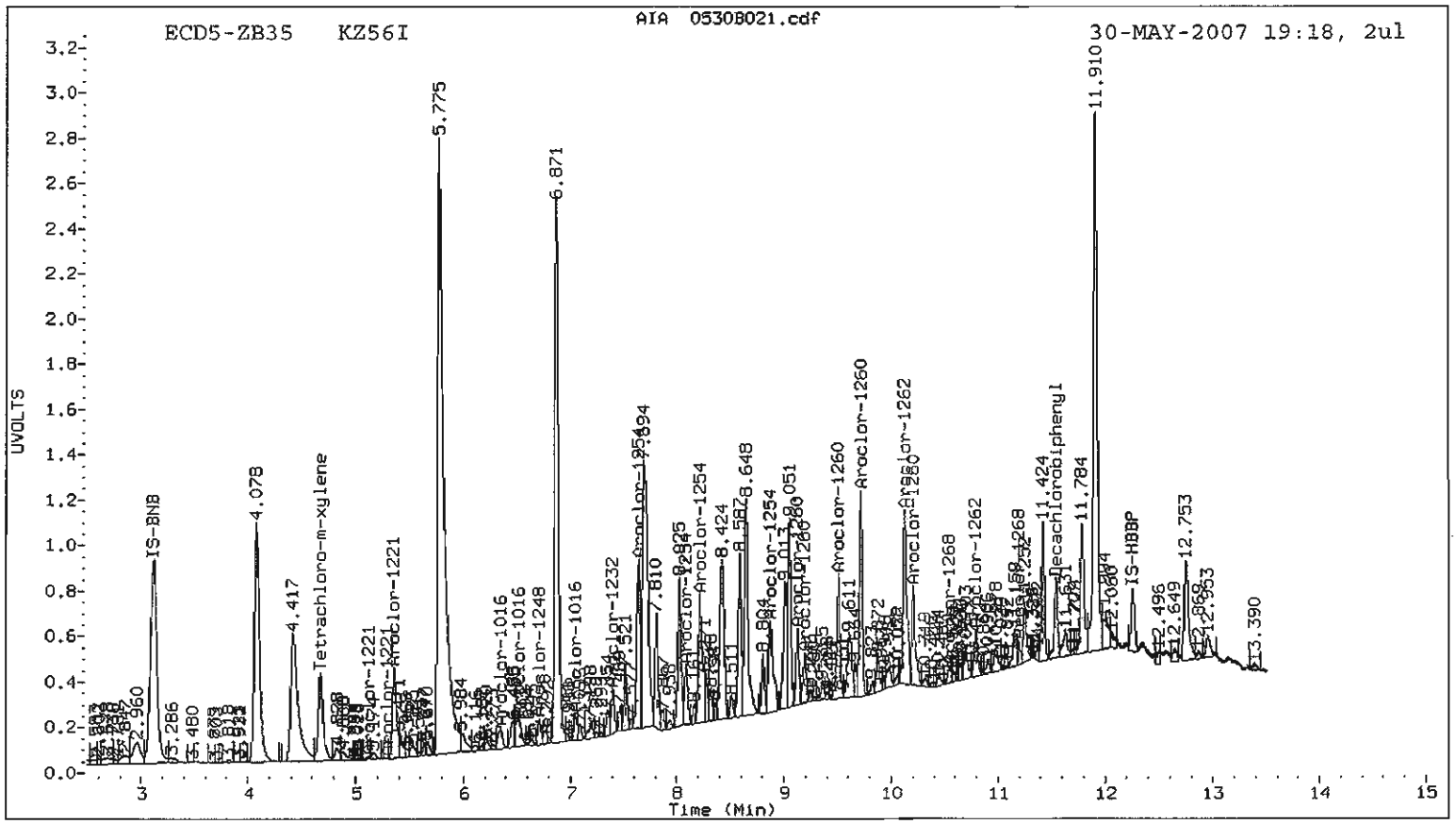
Aroclor-1262
Aroclor-1268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IS-HBBP
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Aroclor-1221
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC15-S
DILUTION

Lab Sample ID: KZ56I
LIMS ID: 07-9555
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 47.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**49**
11096-82-5	**Aroclor 1260**	**29**	**66**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	71.1%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B013.d
Data file 2: 20070529.b/0531-2.b/0531B013.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56I
Client ID:
Injection Date: 31-MAY-2007 18:15
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	3260344	4.674	0.003	2126355	8.8	9.5	7.1	Tetrachloro-m-xylene
11.152	0.003	1969402	11.541	-0.001	883709	13.5	11.5	16.1	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	66.2	71.1
Decachlorobiphenyl	101.0	86.0

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	31149141	-3.4
Hexabromobiphenyl	5108210	3662265	-28.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19798750	-2.5
Hexabromobiphenyl	3608946	2505416	-30.6

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.730	-0.004	478416	49.4	1	---			0.0
Aroclor-1016	2	6.051	0.027	2058232	66.0	2	6.345	0.001	524276	27.8
Aroclor-1016	3	6.137	0.001	675027	55.1	3	6.515	0.009	1211598	162.0
Aroclor-1016	4	6.393	0.001	797447	101.5	4	7.047	0.004	398727	65.6
Total Col1Ave (4 peaks):				68.0		Total Col2Ave (3 peaks):			85.1	RPD = 22
Corrected Ave (4 peaks):				68.0		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.810	-0.016	1835867	329.2	1	5.126	0.001	58290	18.1
Aroclor-1221	2	---			0.0	2	5.273	-0.026	213377	112.5
Aroclor-1221	3	5.049	0.023	113832	10.6	3	5.354	-0.028	1807953	304.5
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:			145.0	
Aroclor-1232	1	5.049	0.022	113832	12.9	1	5.354	-0.027	1807953	373.7
Aroclor-1232	2	5.730	-0.004	478416	110.7	2	---			0.0
Aroclor-1232	3	6.051	0.027	2058232	147.8	3	6.345	0.001	524276	63.2
Aroclor-1232	4	6.137	0.000	675027	123.2	4	7.400	0.000	749515	235.5
Total Col1Ave (4 peaks):				98.7		Total Col2Ave (3 peaks):			224.1	RPD = 78*
Corrected Ave (4 peaks):				98.7		Corrected Ave (3 peaks):			224.1	RPD = 78*
Aroclor-1242	1	5.730	-0.005	478416	55.0	1	5.354	-0.027	1807953	424.7
Aroclor-1242	2	6.051	0.025	2058232	73.1	2	---			0.0
Aroclor-1242	3	6.137	0.000	675027	60.5	3	6.345	0.000	524276	31.4
Aroclor-1242	4	6.773	0.007	586242	56.9	4	6.515	0.009	1211598	178.8
Aroclor-1242	NS	---			----	5	7.400	0.000	749515	117.1
Total Col1Ave (4 peaks):				61.4		Total Col2Ave (4 peaks):			188.0	RPD = 102*
Corrected Ave (4 peaks):				61.4		Corrected Ave (3 peaks):			109.1	RPD = 56*
Aroclor-1248	1	6.051	0.031	2058232	102.6	1	6.345	0.002	524276	43.1
Aroclor-1248	2	6.137	-0.002	675027	104.7	2	6.710	0.001	392269	59.9
Aroclor-1248	3	6.393	0.002	797447	74.4	3	7.047	0.003	398727	48.0
Aroclor-1248	4	6.773	0.008	586242	38.6	4	7.400	0.001	749515	68.9
Aroclor-1248	5	7.110	0.010	2416005	123.2	NS	---			----
Total Col1Ave (5 peaks):				88.7		Total Col2Ave (4 peaks):			55.0	RPD = 47*
Corrected Ave (5 peaks):				88.7		Corrected Ave (4 peaks):			55.0	RPD = 47*
Aroclor-1254	1	7.357	0.006	3607510	166.9	1	7.642	-0.007	2760310	241.4
Aroclor-1254	2	7.664	0.006	4332826	308.4	2	8.086	0.001	932344	117.4
Aroclor-1254	3	7.775	0.006	4138747	161.9	3	8.212	0.001	2401809	142.6
Aroclor-1254	4	8.051	-0.001	4199266	155.6	4	8.869	0.009	1586335	161.8
Aroclor-1254	5	8.361	0.004	2545493	153.3	NS	---			----
Total Col1Ave (5 peaks):				189.2		Total Col2Ave (4 peaks):			165.8	RPD = 13
Corrected Ave (5 peaks):				189.2		Corrected Ave (4 peaks):			165.8	RPD = 13
Aroclor-1260	1	8.806	0.003	1960087	192.9	1	9.122	0.001	1066996	216.6
Aroclor-1260	2	9.076	0.004	1690756	187.2	2	9.190	0.002	760863	251.6
Aroclor-1260	3	9.374	0.005	3882361	170.1	3	9.501	-0.002	1870031	316.2
Aroclor-1260	4	9.711	0.003	1852169	167.7	4	9.709	0.000	2805166	209.1
Aroclor-1260	5	9.863	0.004	1338099	245.2	5	10.197	-0.001	1589438	212.1
Total Col1Ave (5 peaks):				192.6		Total Col2Ave (5 peaks):			241.1	RPD = 22
Corrected Ave (5 peaks):				192.6		Corrected Ave (5 peaks):			241.1	RPD = 22
Aroclor-1262	1	9.076	0.005	1690756	119.7	1	9.122	0.001	1066996	111.7
Aroclor-1262	2	9.374	0.005	3882361	113.1	2	9.501	-0.002	1870031	213.4
Aroclor-1262	3	9.711	0.003	1852169	177.5	3	9.709	-0.002	2805166	156.9
Aroclor-1262	4	9.863	0.004	1338099	96.0	4	10.118	-0.029	3349314	465.1
Aroclor-1262	5	10.404	0.005	3372365	338.0	5	10.786	-0.001	721560	145.0
Total Col1Ave (5 peaks):				168.8		Total Col2Ave (5 peaks):			218.4	RPD = 26
Corrected Ave (4 peaks):				126.6		Corrected Ave (4 peaks):			156.8	RPD = 21
Aroclor-1268	1	9.799	0.002	1294078	35.9	1	10.118	-0.028	3349314	190.2
Aroclor-1268	2	9.863	0.006	1338099	41.3	2	10.197	-0.007	1589438	98.9
Aroclor-1268	3	10.199	0.020	407797	14.7	3	10.538	-0.001	217298	16.7
Aroclor-1268	4	10.822	0.008	707757	10.9	4	11.193	-0.002	243677	7.1

160

223

1153

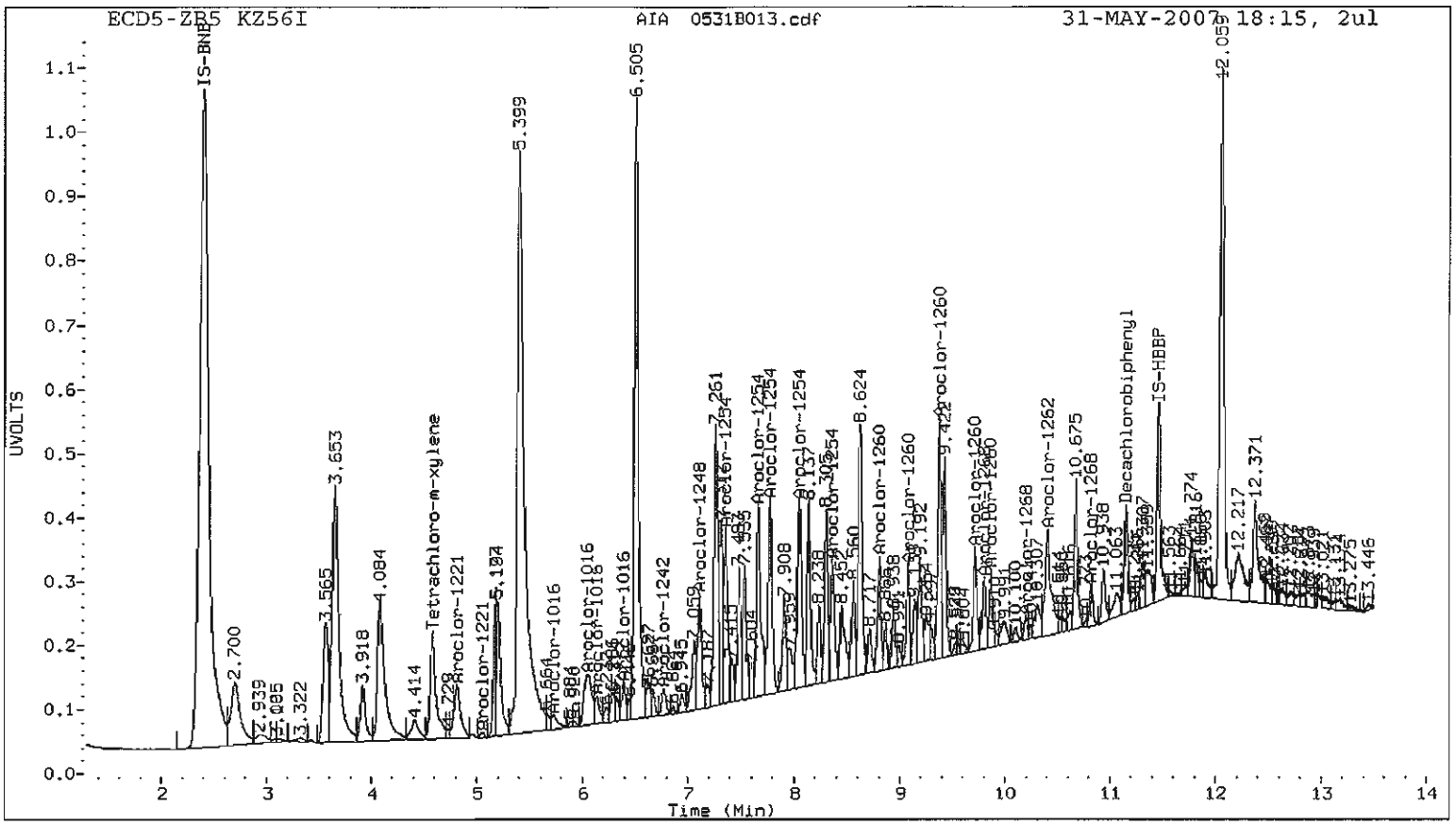
Total Col1Ave (4 peaks):	25.7	Total Col2Ave (4 peaks):	78.2	RPD = 101*
Corrected Ave (4 peaks):	25.7	Corrected Ave (3 peaks):	40.9	RPD = 46*

Total PCB Area Col1 (4.673 - 11.049) = 142524326 Col1 Total PCB = 0.7 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 92948251 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
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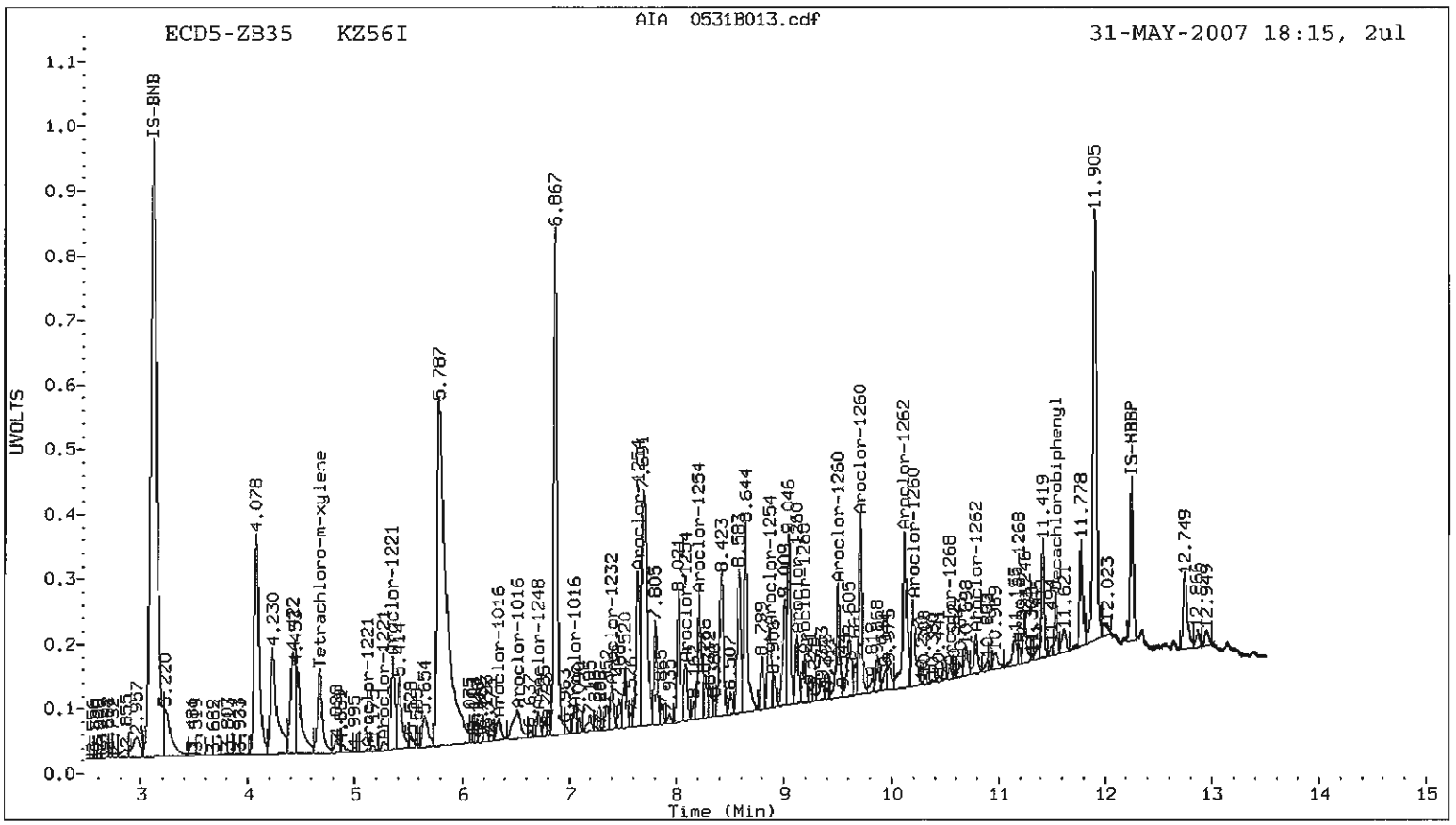
Decachlorobiphenyl
IS-HBBP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Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC09-S
SAMPLE

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 19:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 51.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	29	< 29 Y
11097-69-1	Aroclor 1254	9.8	64
11096-82-5	Aroclor 1260	9.8	56
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.0%
Tetrachlorometaxylene	102%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B022.d
Data file 2: 20070529.b/0530-2.b/0530B022.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56J
Client ID: Y3-RC09-S
Injection Date: 30-MAY-2007 19:35
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	12372080	4.676	0.005	7235305	40.8	33.8	18.6	Tetrachloro-m-xylene
11.159	0.009	4773692	11.545	0.003	3009487	31.2	29.5	5.7	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	101.9	84.6
Decachlorobiphenyl	78.1	73.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	25599888	-20.6
Hexabromobiphenyl	5108210	3828472	-25.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18870707	-7.1
Hexabromobiphenyl	3608946	3317023	-8.1

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.731	-0.002	2420443	304.3	1	---			0.0
Aroclor-1016	2	6.051	0.028	6411273	250.0	2	6.349	0.004	1317808	73.3
Aroclor-1016	3	6.144	0.007	2124939	210.9	3	6.519	0.012	1905194	267.3
Aroclor-1016	4	6.394	0.003	2382094	369.0	4	7.049	0.005	1255747	216.7
Total Col1Ave (4 peaks):				283.6		Total Col2Ave (3 peaks):			185.7	RPD = 42*
Corrected Ave (4 peaks):				283.6		Corrected Ave (3 peaks):			185.7	RPD = 42*
Aroclor-1221	1	---			0.0	1	5.134	0.009	158870	51.9
Aroclor-1221	2	4.961	0.007	223755	80.5	2	5.295	-0.003	18272	10.1
Aroclor-1221	3	5.054	0.028	378415	42.9	3	5.358	-0.023	21599821	3816.7
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 1292.9				
Aroclor-1232	1	5.054	0.027	378415	52.2	1	5.358	-0.023	21599821	4684.7
Aroclor-1232	2	5.731	-0.003	2420443	681.7	2	---			0.0
Aroclor-1232	3	6.051	0.028	6411273	560.3	3	6.349	0.004	1317808	166.7
Aroclor-1232	4	6.144	0.006	2124939	471.8	4	7.407	0.007	2285120	753.2
Total Col1Ave (4 peaks):				441.5		Total Col2Ave (3 peaks):			1868.2	RPD = 124*
Corrected Ave (4 peaks):				441.5		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.731	-0.004	2420443	338.4	1	5.358	-0.023	21599821	5324.1
Aroclor-1242	2	6.051	0.025	6411273	277.1	2	---			0.0
Aroclor-1242	3	6.144	0.006	2124939	231.6	3	6.349	0.004	1317808	82.7
Aroclor-1242	4	6.776	0.010	1564416	184.8	4	6.519	0.013	1905194	295.0
Aroclor-1242	NS	---			----	5	7.407	0.007	2285120	374.5
Total Col1Ave (4 peaks):				258.0		Total Col2Ave (4 peaks):			1519.1	RPD = 142*
Corrected Ave (4 peaks):				258.0		Corrected Ave (3 peaks):			250.7	RPD = 3
Aroclor-1248	1	6.051	0.031	6411273	389.0	1	6.349	0.006	1317808	113.6
Aroclor-1248	2	6.144	0.004	2124939	401.1	2	6.714	0.005	1082572	173.4
Aroclor-1248	3	6.394	0.003	2382094	270.5	3	7.049	0.005	1255747	158.8
Aroclor-1248	4	6.776	0.011	1564416	125.2	4	7.407	0.008	2285120	220.5
Aroclor-1248	5	7.113	0.013	7098125	440.5	NS	---			----
Total Col1Ave (5 peaks):				325.3		Total Col2Ave (4 peaks):			166.6	RPD = 65*
Corrected Ave (5 peaks):				325.3		Corrected Ave (4 peaks):			166.6	RPD = 65*
Aroclor-1254	1	7.362	0.010	13975484	786.5	1	7.645	-0.003	10513061	964.7
Aroclor-1254	2	7.669	0.012	14793036	1281.1	2	8.092	0.006	3082984	407.3
Aroclor-1254	3	7.779	0.010	12852455	611.9	3	8.216	0.005	8406674	523.7
Aroclor-1254	4	8.056	0.004	13605370	613.2	4	8.876	0.016	7239497	774.1
Aroclor-1254	5	8.368	0.010	8025496	587.2	NS	---			----
Total Col1Ave (5 peaks):				776.0		Total Col2Ave (4 peaks):			667.6	RPD = 15
Corrected Ave (5 peaks):				776.0		Corrected Ave (4 peaks):			667.6	RPD = 15
Aroclor-1260	1	8.814	0.011	6065348	571.0	1	9.128	0.007	3488866	534.9
Aroclor-1260	2	9.084	0.013	5494529	582.0	2	9.195	0.006	2647111	661.1
Aroclor-1260	3	9.381	0.012	12824506	537.6	3	9.508	0.005	6842300	873.9
Aroclor-1260	4	9.721	0.013	5797790	502.3	4	9.717	0.007	9577528	539.3
Aroclor-1260	5	9.870	0.011	3410370	597.8	5	10.206	0.007	5618356	566.2
Total Col1Ave (5 peaks):				558.1		Total Col2Ave (5 peaks):			635.1	RPD = 13
Corrected Ave (5 peaks):				558.1		Corrected Ave (5 peaks):			635.1	RPD = 13
Aroclor-1262	1	9.084	0.014	5494529	372.2	1	9.128	0.007	3488866	275.9
Aroclor-1262	2	9.381	0.012	12824506	357.3	2	9.508	0.006	6842300	589.7
Aroclor-1262	3	9.721	0.012	5797790	531.4	3	9.717	0.006	9577528	404.7
Aroclor-1262	4	9.870	0.011	3410370	234.0	4	10.126	-0.022	19224733	2016.3
Aroclor-1262	5	10.415	0.016	10382023	995.4	5	10.794	0.006	2595520	394.1
Total Col1Ave (5 peaks):				498.0		Total Col2Ave (5 peaks):			736.1	RPD = 39
Corrected Ave (4 peaks):				373.7		Corrected Ave (4 peaks):			416.1	RPD = 11
Aroclor-1268	1	9.806	0.009	2827617	75.0	1	10.126	-0.020	19224733	824.4
Aroclor-1268	2	9.870	0.013	3410370	100.8	2	10.206	0.002	5618356	264.0
Aroclor-1268	3	10.209	0.029	1242070	42.9	3	10.542	0.002	810916	47.0
Aroclor-1268	4	10.827	0.012	1846110	27.3	4	11.198	0.003	789771	17.4

245 300 Y 650 568 575

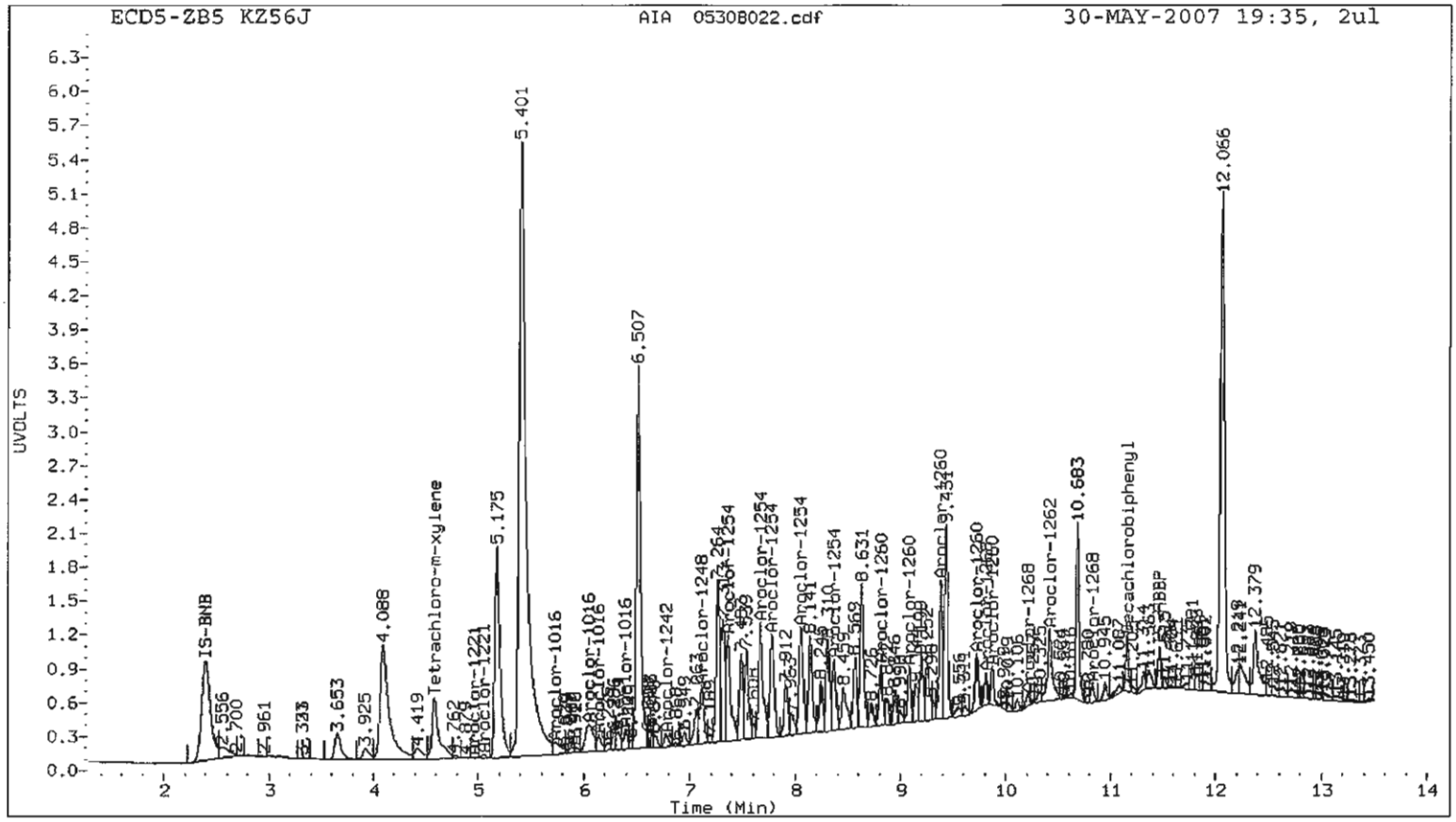
Total Col1Ave (4 peaks):	61.5	Total Col2Ave (4 peaks):	288.2	RPD = 130*
Corrected Ave (4 peaks):	61.5	Corrected Ave (3 peaks):	109.5	RPD = 56*

Total PCB Area Col1 (4.673 - 11.049) = 556862369 Col1 Total PCB = 2.7 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 416979736 Col2 Total PCB = 3.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
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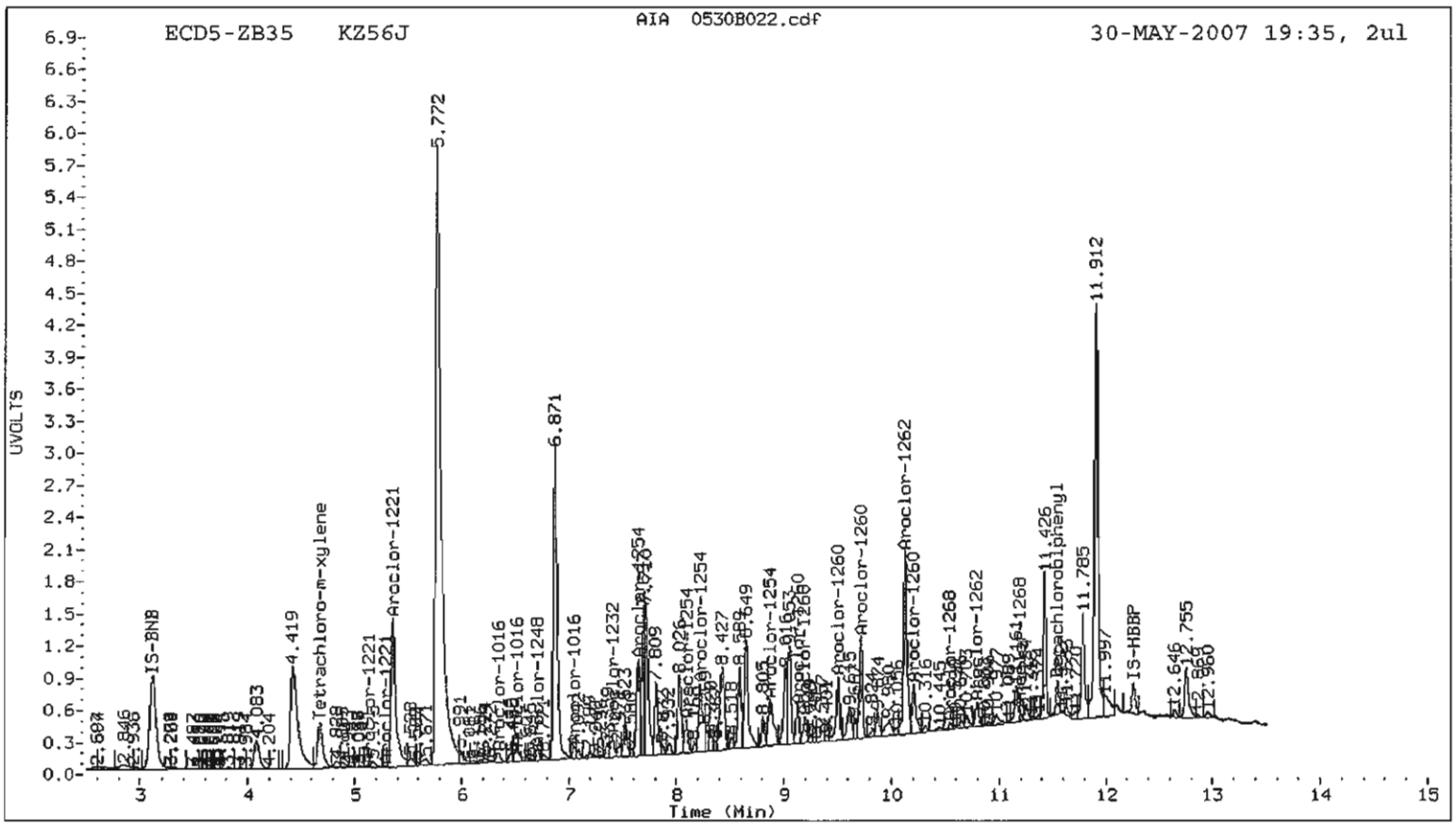
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Time (Min)
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Tetrachloro-m-xylene
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Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
5.772
6.871
4.419
11.912
11.785
11.997
12.755

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC09-S
DILUTION

Lab Sample ID: KZ56J
LIMS ID: 07-9556
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.1
Percent Moisture: 51.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**60**
11096-82-5	**Aroclor 1260**	**29**	**62**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.2%
Tetrachlorometaxylene	84.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B014.d
Data file 2: 20070529.b/0531-2.b/0531B014.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56J
Client ID:
Injection Date: 31-MAY-2007 18:32
Report Date: 06/04/2007 11:50
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.578	0.005	3847873	4.674	0.003	2405667	10.9	11.2	2.5	Tetrachloro-m-xylene
11.154	0.005	1902148	11.543	0.001	974340	12.7	11.4	11.1	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	81.6	83.6
Decachlorobiphenyl	95.1	85.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29847641	-7.5
Hexabromobiphenyl	5108210	3755466	-26.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19037220	-6.3
Hexabromobiphenyl	3608946	2788946	-22.7

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.727	-0.006	684670	73.8	1	---			0.0
Aroclor-1016	2	6.045	0.021	2010902	67.3	2	6.347	0.002	562219	31.0
Aroclor-1016	3	6.140	0.004	778050	66.2	3	6.523	0.016	1051614	146.2
Aroclor-1016	4	6.395	0.003	796932	105.9	4	7.048	0.004	434163	74.3
Total Col1Ave (4 peaks):				78.3		Total Col2Ave (3 peaks):			83.8	RPD = 7
Corrected Ave (4 peaks):				78.3		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.808	-0.017	2726942	510.2	1	5.125	0.000	45744	14.8
Aroclor-1221	2	---			0.0	2	5.268	-0.031	652572	357.8
Aroclor-1221	3	5.050	0.024	114646	11.1	3	5.354	-0.027	5884371	1030.7
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:			467.8	
Aroclor-1232	1	5.050	0.023	114646	13.6	1	5.354	-0.026	5884371	1265.1
Aroclor-1232	2	5.727	-0.007	684670	165.4	2	---			0.0
Aroclor-1232	3	6.045	0.021	2010902	150.7	3	6.347	0.002	562219	70.5
Aroclor-1232	4	6.140	0.003	778050	148.2	4	7.401	0.002	752644	245.9
Total Col1Ave (4 peaks):				119.5		Total Col2Ave (3 peaks):			527.2	RPD = 126*
Corrected Ave (4 peaks):				119.5		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.727	-0.007	684670	82.1	1	5.354	-0.026	5884371	1437.7
Aroclor-1242	2	6.045	0.019	2010902	74.5	2	---			0.0
Aroclor-1242	3	6.140	0.003	778050	72.7	3	6.347	0.002	562219	35.0
Aroclor-1242	4	6.775	0.008	521799	52.9	4	6.523	0.017	1051614	161.4
Aroclor-1242	NS	---			----	5	7.401	0.002	752644	122.3
Total Col1Ave (4 peaks):				70.6		Total Col2Ave (4 peaks):			439.1	RPD = 145*
Corrected Ave (4 peaks):				70.6		Corrected Ave (3 peaks):			106.2	RPD = 40*
Aroclor-1248	1	6.045	0.025	2010902	104.7	1	6.347	0.004	562219	48.1
Aroclor-1248	2	6.140	0.001	778050	126.0	2	6.710	0.001	370312	58.8
Aroclor-1248	3	6.395	0.004	796932	77.6	3	7.048	0.004	434163	54.4
Aroclor-1248	4	6.775	0.010	521799	35.8	4	7.401	0.002	752644	72.0
Aroclor-1248	5	7.110	0.010	2551838	135.8	NS	---			----
Total Col1Ave (5 peaks):				96.0		Total Col2Ave (4 peaks):			58.3	RPD = 49*
Corrected Ave (5 peaks):				96.0		Corrected Ave (4 peaks):			58.3	RPD = 49*
Aroclor-1254	1	7.360	0.009	4429179	213.8	1	7.640	-0.008	3281128	298.4
Aroclor-1254	2	7.665	0.008	4959849	368.4	2	8.088	0.003	961595	125.9
Aroclor-1254	3	7.777	0.008	4300824	175.6	3	8.215	0.004	2718152	167.8
Aroclor-1254	4	8.051	0.000	4500443	174.0	4	8.871	0.011	2201375	233.5
Aroclor-1254	5	8.365	0.007	2629090	165.6	NS	---			----
Total Col1Ave (5 peaks):				219.4		Total Col2Ave (4 peaks):			206.4	RPD = 6
Corrected Ave (5 peaks):				219.4		Corrected Ave (4 peaks):			206.4	RPD = 6
Aroclor-1260	1	8.809	0.007	1969195	189.0	1	9.123	0.002	1084480	197.7
Aroclor-1260	2	9.077	0.006	1778415	192.0	2	9.191	0.002	813095	241.5
Aroclor-1260	3	9.375	0.007	4117911	176.0	3	9.504	0.001	2104022	319.6
Aroclor-1260	4	9.714	0.006	2107115	186.1	4	9.712	0.002	3006034	201.3
Aroclor-1260	5	9.864	0.005	1717247	306.9	5	10.200	0.001	1659605	198.9
Total Col1Ave (5 peaks):				210.0		Total Col2Ave (5 peaks):			231.8	RPD = 10
Corrected Ave (5 peaks):				210.0		Corrected Ave (5 peaks):			231.8	RPD = 10
Aroclor-1262	1	9.077	0.007	1778415	122.8	1	9.123	0.002	1084480	102.0
Aroclor-1262	2	9.375	0.007	4117911	117.0	2	9.504	0.002	2104022	215.7
Aroclor-1262	3	9.714	0.006	2107115	196.9	3	9.712	0.001	3006034	151.1
Aroclor-1262	4	9.864	0.005	1717247	120.1	4	10.121	-0.026	6102496	761.2
Aroclor-1262	5	10.408	0.009	4116273	402.3	5	10.789	0.002	802567	144.9
Total Col1Ave (5 peaks):				191.8		Total Col2Ave (5 peaks):			275.0	RPD = 36
Corrected Ave (4 peaks):				139.2		Corrected Ave (4 peaks):			153.4	RPD = 10
Aroclor-1268	1	9.801	0.004	1464680	39.6	1	10.121	-0.025	6102496	311.2
Aroclor-1268	2	9.864	0.007	1717247	51.7	2	10.200	-0.004	1659605	92.7
Aroclor-1268	3	10.204	0.024	481888	17.0	3	10.548	0.008	299860	20.7
Aroclor-1268	4	10.823	0.009	853055	12.8	4	11.195	0.000	211181	5.5

182

186

210

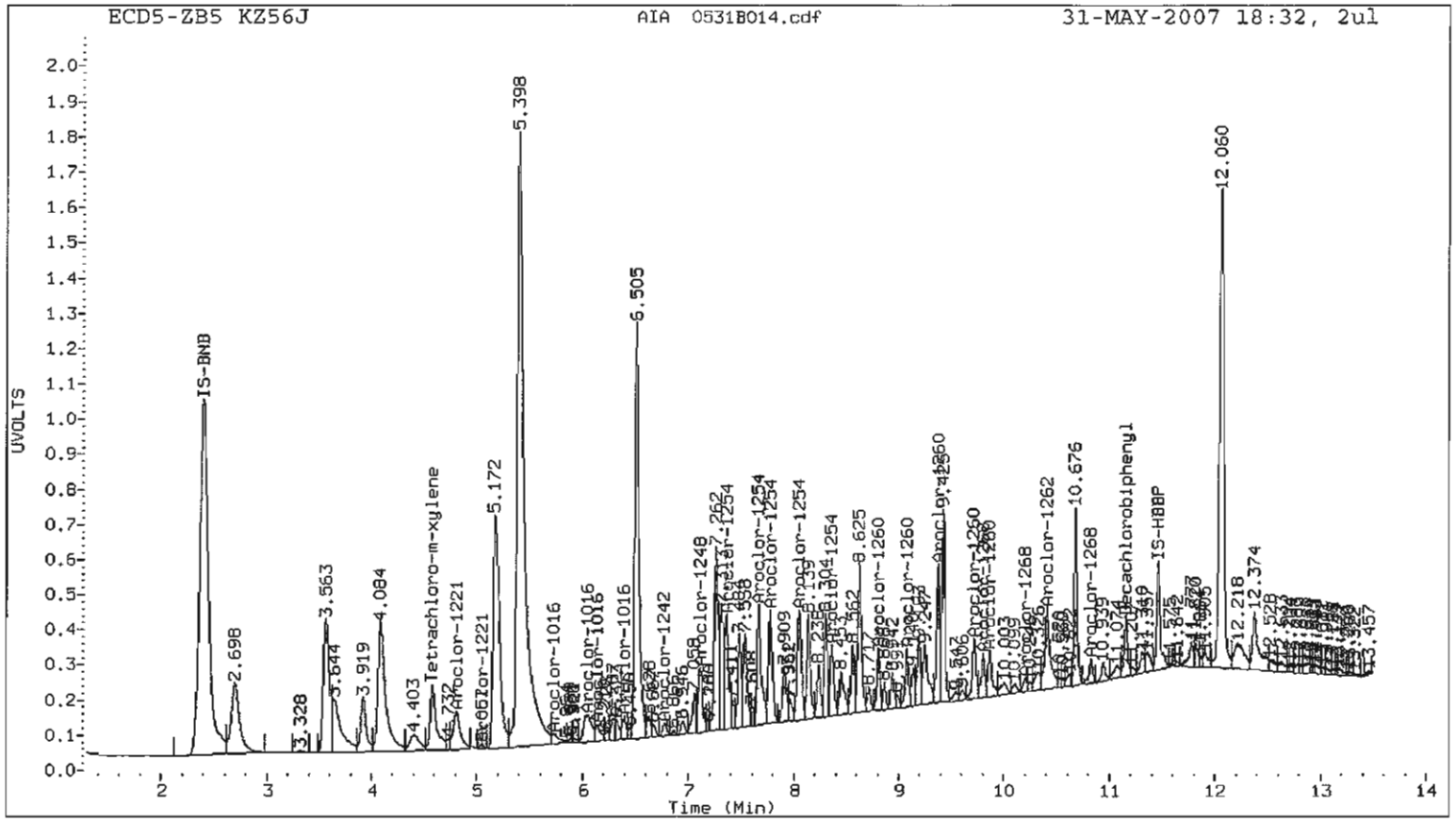
Total Col1Ave (4 peaks):	30.3	Total Col2Ave (4 peaks):	107.5	RPD = 112*
Corrected Ave (3 peaks):	23.1	Corrected Ave (3 peaks):	39.6	RPD = 53*

Total PCB Area Col1 (4.673 - 11.049) = 191314686 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 130133646 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
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4.084
4.403
Tetrachloro-m-xylene
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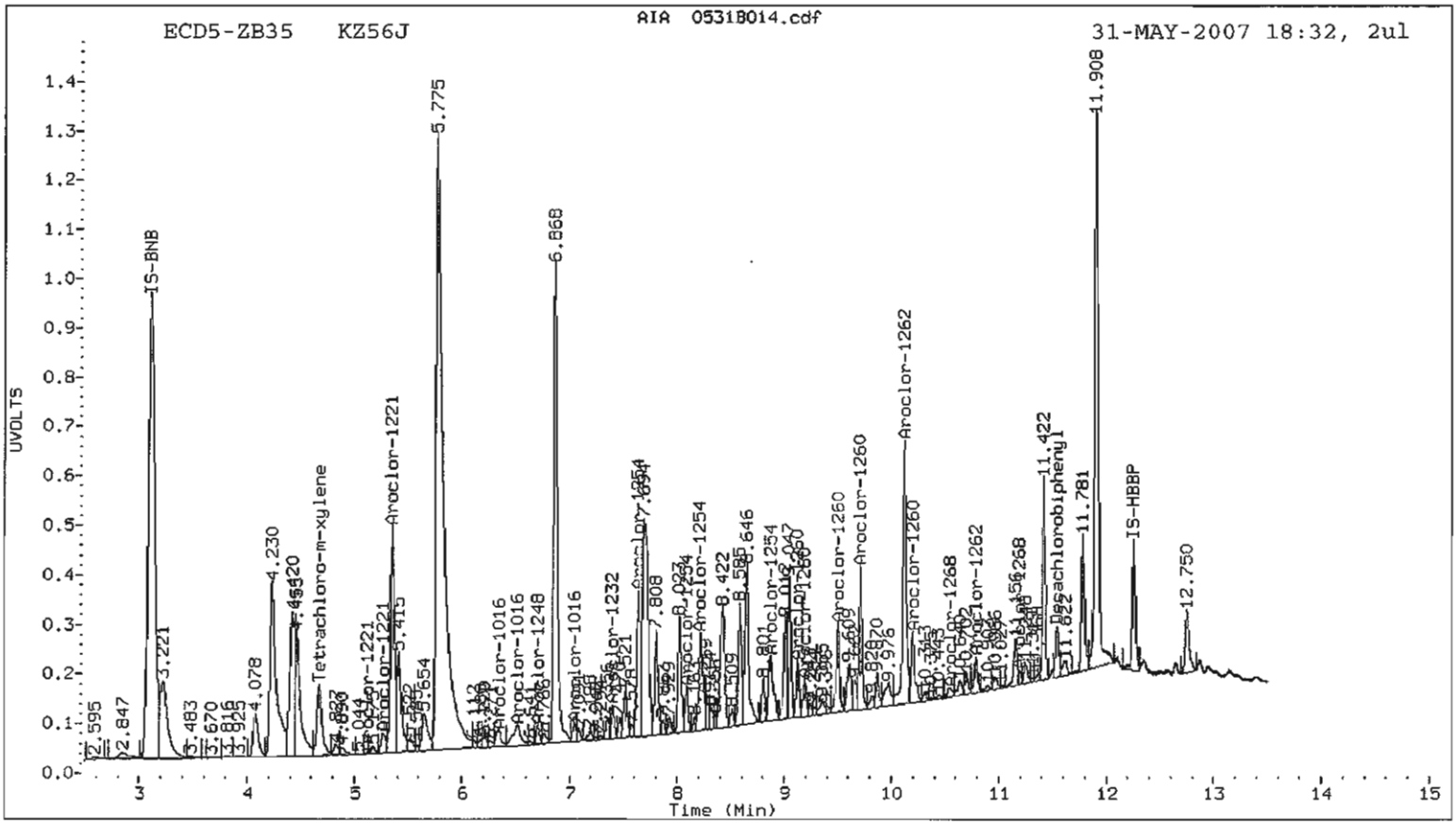
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Time (Min)
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Aroclor-1016
Aroclor-1248
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Decachlorobiphenyl
IS-HBBP
12.750

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC02-S
SAMPLE

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 20:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.8
Percent Moisture: 60.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	**Aroclor 1254**	**9.8**	**88**
11096-82-5	**Aroclor 1260**	**9.8**	**29**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	49.8%
Tetrachlorometaxylene	103%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B025.d
Data file 2: 20070529.b/0530-2.b/0530B025.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56K
Client ID: Y3-RC02-S
Injection Date: 30-MAY-2007 20:26
Report Date: 06/04/2007 15:15
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	13660066	4.673	0.002	9080643	41.1	38.1	7.8	Tetrachloro-m-xylene
11.164	0.014	6630499	11.547	0.005	4126637	17.7	19.9	11.4	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	102.8	95.2
Decachlorobiphenyl	44.3	49.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28017049	-13.1
Hexabromobiphenyl	5108210	9373039	83.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	21056221	3.6
Hexabromobiphenyl	3608946	6750726	87.1

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.723	-0.010	4951069	568.8	1	---			0.0
Aroclor-1016	2	6.062	0.039	11269450	401.5	2	6.346	0.001	1732778	86.3
Aroclor-1016	3	6.141	0.004	3131022	284.0	3	6.523	0.017	2279912	286.6
Aroclor-1016	4	6.397	0.005	2779242	393.3	4	7.052	0.008	1953510	302.1
Total Col1Ave (4 peaks):				411.9		Total Col2Ave (3 peaks):			225.0	RPD = 59*
Corrected Ave (4 peaks):				411.9		Corrected Ave (3 peaks):			225.0	RPD = 59*
Aroclor-1221	1	4.789	-0.037	2351125	468.7	1	5.171	0.046	2434451	712.7
Aroclor-1221	2	4.938	-0.016	522531	171.8	2	5.290	-0.009	78167	38.7
Aroclor-1221	3	5.052	0.026	688889	71.3	3	5.354	-0.027	12815889	2029.5
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				237.3		Total Col2Ave (3 peaks):			927.0	RPD = 118*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.052	0.025	688889	86.8	1	5.354	-0.026	12815889	2491.1
Aroclor-1232	2	5.723	-0.011	4951069	1274.2	2	---			0.0
Aroclor-1232	3	6.062	0.039	11269450	899.9	3	6.346	0.001	1732778	196.5
Aroclor-1232	4	6.141	0.003	3131022	635.3	4	7.405	0.006	3433281	1014.1
Total Col1Ave (4 peaks):				724.0		Total Col2Ave (3 peaks):			1233.9	RPD = 52*
Corrected Ave (3 peaks):				540.7		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.723	-0.012	4951069	632.5	1	5.354	-0.026	12815889	2831.1
Aroclor-1242	2	6.062	0.036	11269450	445.1	2	---			0.0
Aroclor-1242	3	6.141	0.003	3131022	311.9	3	6.346	0.001	1732778	97.4
Aroclor-1242	4	6.773	0.007	2480102	267.7	4	6.523	0.017	2279912	316.4
Aroclor-1242	NS	---			----	5	7.405	0.006	3433281	504.2
Total Col1Ave (4 peaks):				414.3		Total Col2Ave (4 peaks):			937.3	RPD = 77*
Corrected Ave (4 peaks):				414.3		Corrected Ave (3 peaks):			306.0	RPD = 30
Aroclor-1248	1	6.062	0.042	11269450	624.8	1	6.346	0.003	1732778	133.9
Aroclor-1248	2	6.141	0.002	3131022	540.0	2	6.711	0.003	2319727	333.1
Aroclor-1248	3	6.397	0.005	2779242	288.4	3	7.052	0.008	1953510	221.3
Aroclor-1248	4	6.773	0.009	2480102	181.4	4	7.405	0.006	3433281	297.0
Aroclor-1248	5	7.113	0.013	9415790	533.9	NS	---			----
Total Col1Ave (5 peaks):				433.7		Total Col2Ave (4 peaks):			246.3	RPD = 55*
Corrected Ave (5 peaks):				433.7		Corrected Ave (4 peaks):			246.3	RPD = 55*
Aroclor-1254	1	7.362	0.010	22064262	1134.6	1	7.644	-0.004	15289410	~~1257.3~~
Aroclor-1254	2	7.670	0.012	20888504	~~1683.0~~	2	8.094	0.009	4907787	581.0
Aroclor-1254	3	7.781	0.012	17992801	782.7	3	8.215	0.005	14283673	797.5
Aroclor-1254	4	8.060	0.008	19715896	812.0	4	8.876	0.016	11769162	1128.8
Aroclor-1254	5	8.370	0.013	12929752	864.5	NS	---			----
Total Col1Ave (5 peaks):				1049.3		Total Col2Ave (4 peaks):			941.1	RPD = 11
Corrected Ave (5 peaks):				1049.3		Corrected Ave (4 peaks):			941.1	RPD = 11
Aroclor-1260	1	8.816	0.014	7918556	304.5	1	9.130	0.009	3622433	272.9
Aroclor-1260	2	9.085	0.014	7682614	332.4	2	9.199	0.010	2693529	330.6
Aroclor-1260	3	9.384	0.016	16360321	280.1	3	9.509	0.007	7768348	~~487.5~~
Aroclor-1260	4	9.725	0.017	8740500	309.3	4	9.719	0.009	11581523	320.4
Aroclor-1260	5	9.874	0.016	3382497	242.2	5	10.207	0.009	5348327	264.9
Total Col1Ave (5 peaks):				293.7		Total Col2Ave (5 peaks):			335.2	RPD = 13
Corrected Ave (5 peaks):				293.7		Corrected Ave (5 peaks):			335.2	RPD = 13
Aroclor-1262	1	9.085	0.015	7682614	212.6	1	9.130	0.009	3622433	140.7
Aroclor-1262	2	9.384	0.016	16360321	186.2	2	9.509	0.007	7768348	329.0
Aroclor-1262	3	9.725	0.017	8740500	327.2	3	9.719	0.008	11581523	240.5
Aroclor-1262	4	9.874	0.015	3382497	94.8	4	10.127	-0.020	18140192	934.8
Aroclor-1262	5	10.418	0.019	10437563	408.7	5	10.798	0.011	3663836	273.3
Total Col1Ave (5 peaks):				245.9		Total Col2Ave (5 peaks):			383.7	RPD = 44*
Corrected Ave (5 peaks):				245.9		Corrected Ave (4 peaks):			245.9	RPD = 0
Aroclor-1268	1	9.808	0.011	3533238	38.3	1	10.127	-0.019	18140192	382.2
Aroclor-1268	2	9.874	0.017	3382497	40.8	2	10.207	0.003	5348327	123.5
Aroclor-1268	3	10.212	0.033	1524064	21.5	3	10.548	0.009	1023480	29.1

4007

889

840

297

Aroclor-1268	4	10.828	0.014	2732407	16.5	4	11.162	-0.033	7032450	76.3

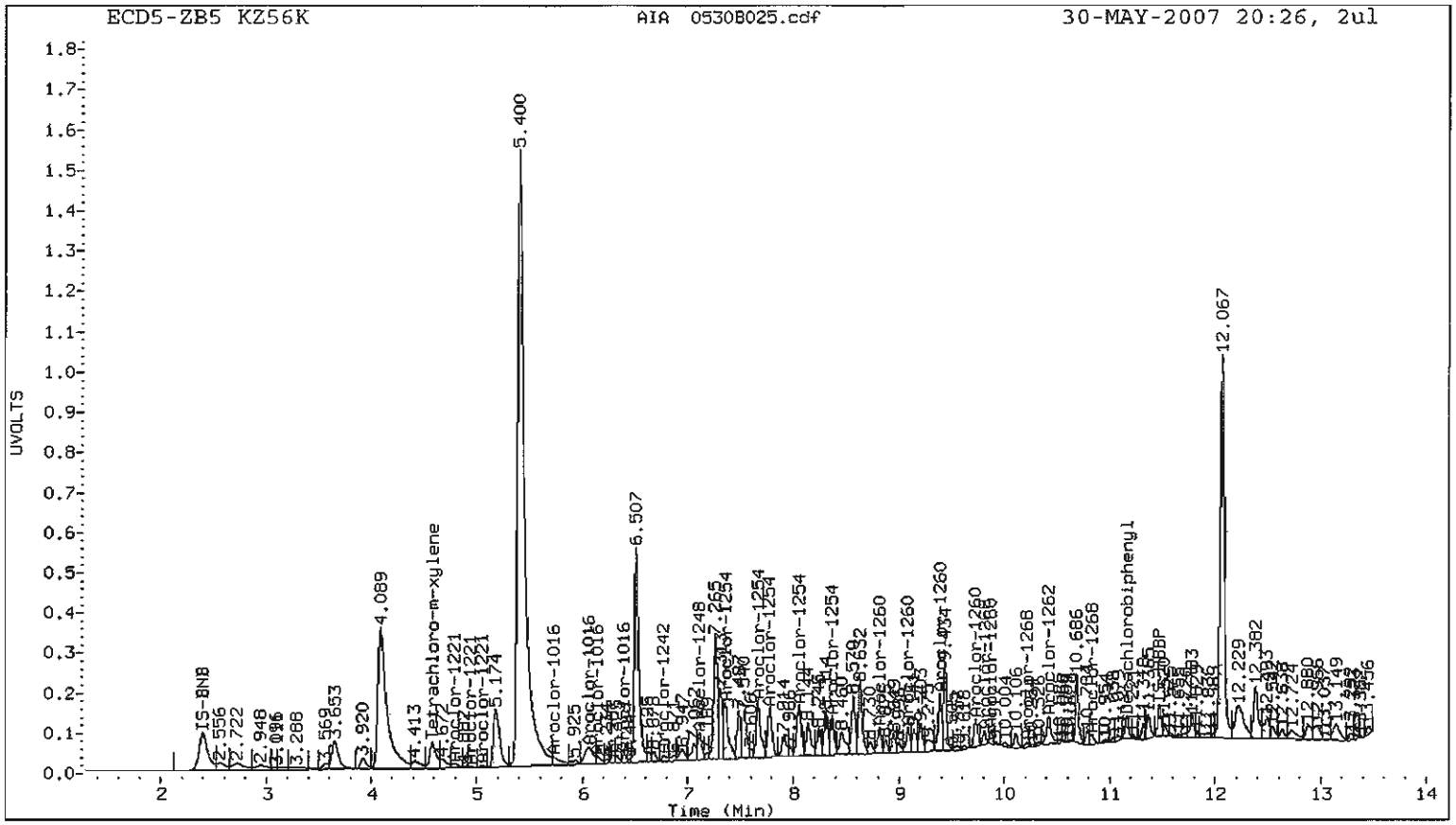
Total Col1Ave (4 peaks): 29.3 Total Col2Ave (4 peaks): 152.8 RPD = 136*
Corrected Ave (4 peaks): 29.3 Corrected Ave (3 peaks): 76.3 RPD = 89*

Total PCB Area Col1 (4.673 - 11.049) = 983752778 Col1 Total PCB = 4.7 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 755641023 Col2 Total PCB = 6.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
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Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
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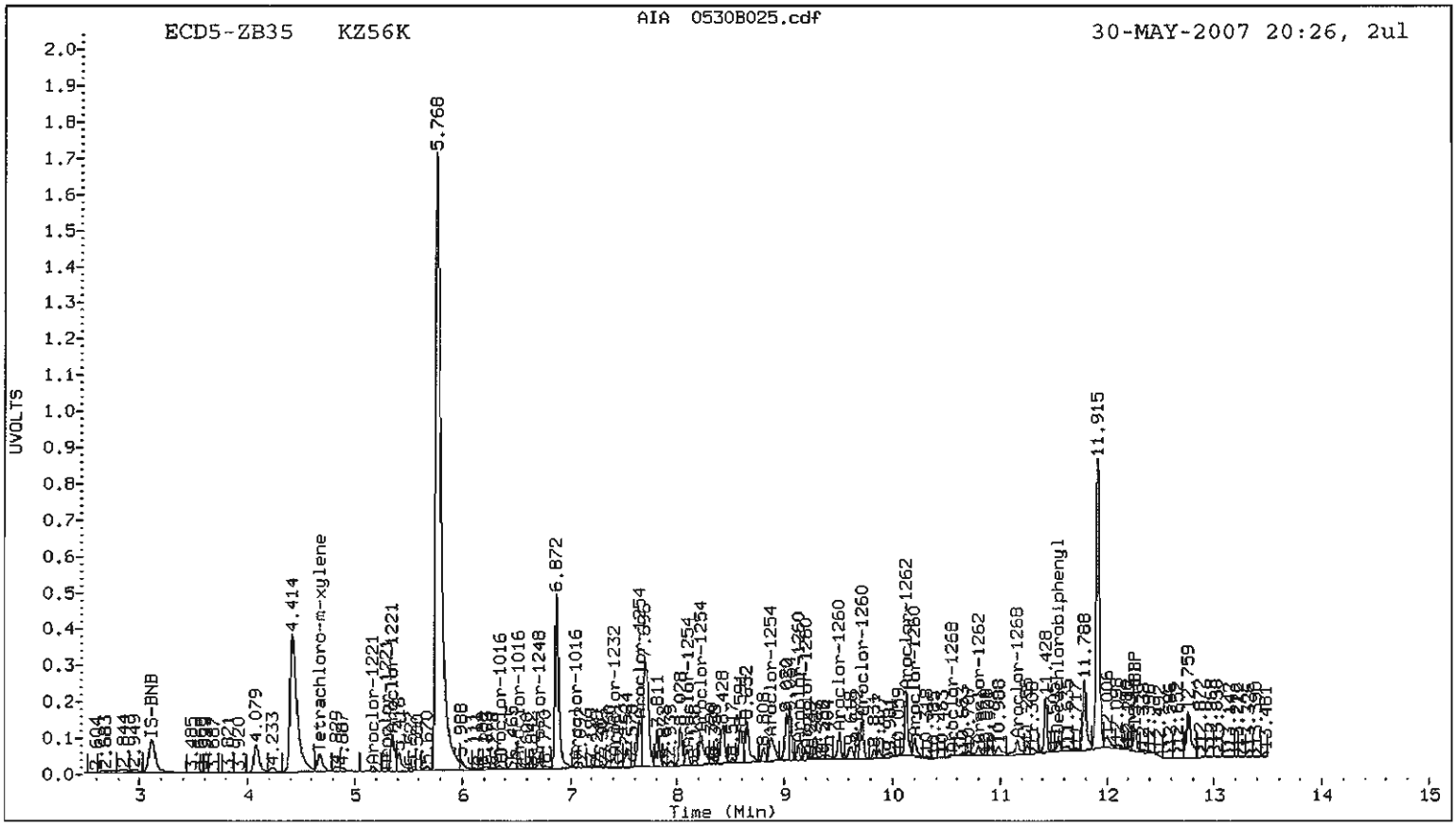
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IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
5.768
6.872
4.414
11.915

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC02-S
DILUTION

Lab Sample ID: KZ56K
LIMS ID: 07-9557
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/16/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 18:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 6.8
Percent Moisture: 60.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**78**
11096-82-5	**Aroclor 1260**	**29**	**55**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.8%
Tetrachlorometaxylene	106%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B015.d
Data file 2: 20070529.b/0531-2.b/0531B015.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56K
Client ID:
Injection Date: 31-MAY-2007 18:49
Report Date: 06/04/2007 11:51
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.584	0.010	4330771	4.673	0.002	3074780	12.8	14.2	10.3	Tetrachloro-m-xylene
11.155	0.005	2501402	11.540	-0.002	1371784	12.2	12.5	2.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	96.1	106.5
Decachlorobiphenyl	91.3	93.9

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28520826	-11.6
Hexabromobiphenyl	5108210	5145506	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19111112	-5.9
Hexabromobiphenyl	3608946	3560168	-1.4

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	5.732	-0.001	1327703	149.8	1	---			0.0
Aroclor-1016	2	6.060	0.037	3643999	127.5	2	6.345	0.001	601081	33.0
Aroclor-1016	3	6.141	0.005	773902	69.0	3	6.497	-0.009	153796	21.3
Aroclor-1016	4	6.395	0.003	936965	130.3	4	7.051	0.007	537423	91.6
Total Col1Ave (4 peaks):				119.2		Total Col2Ave (3 peaks):			48.6	RPD = 84*
Corrected Ave (4 peaks):				119.2		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.779	-0.047	823569	161.3	1	5.124	-0.001	138840	44.8
Aroclor-1221	2	---			0.0	2	5.291	-0.008	24730	13.5
Aroclor-1221	3	5.051	0.025	189470	19.3	3	5.356	-0.025	3522620	614.6
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:			224.3	
Aroclor-1232	1	5.051	0.024	189470	23.4	1	5.356	-0.025	3522620	754.4
Aroclor-1232	2	5.732	-0.002	1327703	335.7	2	---			0.0
Aroclor-1232	3	6.060	0.037	3643999	285.8	3	6.345	0.001	601081	75.1
Aroclor-1232	4	6.141	0.004	773902	154.2	4	7.402	0.002	887311	288.8
Total Col1Ave (4 peaks):				199.8		Total Col2Ave (3 peaks):			372.8	RPD = 60*
Corrected Ave (4 peaks):				199.8		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.732	-0.003	1327703	166.6	1	5.356	-0.024	3522620	857.4
Aroclor-1242	2	6.060	0.034	3643999	141.4	2	---			0.0
Aroclor-1242	3	6.141	0.004	773902	75.7	3	6.345	0.000	601081	37.2
Aroclor-1242	4	6.778	0.012	766115	81.2	4	6.497	-0.009	153796	23.5
Aroclor-1242	NS	---			----	5	7.402	0.002	887311	143.6
Total Col1Ave (4 peaks):				116.2		Total Col2Ave (4 peaks):			265.4	RPD = 78*
Corrected Ave (4 peaks):				116.2		Corrected Ave (3 peaks):			68.1	RPD = 52*
Aroclor-1248	1	6.060	0.040	3643999	198.5	1	6.345	0.002	601081	51.2
Aroclor-1248	2	6.141	0.002	773902	131.1	2	6.710	0.002	499753	79.1
Aroclor-1248	3	6.395	0.004	936965	95.5	3	7.051	0.007	537423	67.1
Aroclor-1248	4	6.778	0.014	766115	55.0	4	7.402	0.003	887311	84.6
Aroclor-1248	5	7.115	0.015	3119321	173.7	NS	---			----
Total Col1Ave (5 peaks):				130.8		Total Col2Ave (4 peaks):			70.5	RPD = 60*
Corrected Ave (5 peaks):				130.8		Corrected Ave (4 peaks):			70.5	RPD = 60*
Aroclor-1254	1	7.360	0.008	6728310	339.9	1	7.642	-0.007	4457778	~~403.9~~
Aroclor-1254	2	7.668	0.011	6259526	~~486.6~~	2	8.090	0.005	1336192	174.3
Aroclor-1254	3	7.777	0.008	5402816	230.9 264	3	8.214	0.004	3637146	223.7 185
Aroclor-1254	4	8.055	0.003	5870557	237.5	4	8.869	0.009	1481260	156.5
Aroclor-1254	5	8.366	0.009	3730718	245.0	NS	---			----
Total Col1Ave (5 peaks):				308.0		Total Col2Ave (4 peaks):			239.6	RPD = 25
Corrected Ave (5 peaks):				308.0		Corrected Ave (4 peaks):			239.6	RPD = 25
Aroclor-1260	1	8.810	0.008	2224680	155.8	1	9.122	0.001	1230843	175.8
Aroclor-1260	2	9.077	0.006	2242390	176.7 171	2	9.191	0.002	967335	225.1
Aroclor-1260	3	9.376	0.008	4838722	150.9	3	9.503	0.000	2480698	~~295.2~~
Aroclor-1260	4	9.719	0.011	3109017	200.4	4	9.712	0.002	3337158	175.1 187
Aroclor-1260	5	9.864	0.006	2259177	~~294.6~~	5	10.199	0.000	1842180	173.0
Total Col1Ave (5 peaks):				195.7		Total Col2Ave (5 peaks):			208.8	RPD = 6
Corrected Ave (5 peaks):				195.7		Corrected Ave (5 peaks):			208.8	RPD = 6
Aroclor-1262	1	9.077	0.006	2242390	113.0	1	9.122	0.001	1230843	90.7
Aroclor-1262	2	9.376	0.008	4838722	100.3	2	9.503	0.001	2480698	199.2
Aroclor-1262	3	9.719	0.010	3109017	212.0	3	9.712	0.001	3337158	131.4
Aroclor-1262	4	9.864	0.005	2259177	115.3	4	10.120	-0.028	5910632	577.6
Aroclor-1262	5	10.410	0.011	5684022	405.5	5	10.793	0.005	1222388	172.9
Total Col1Ave (5 peaks):				189.2		Total Col2Ave (5 peaks):			234.3	RPD = 21
Corrected Ave (4 peaks):				135.2		Corrected Ave (4 peaks):			148.5	RPD = 9
Aroclor-1268	1	9.803	0.006	1670611	33.0	1	10.120	-0.026	5910632	236.2
Aroclor-1268	2	9.864	0.007	2259177	49.7	2	10.199	-0.005	1842180	80.6
Aroclor-1268	3	10.197	0.018	401166	10.3	3	10.537	-0.002	122385	6.6
Aroclor-1268	4	10.825	0.010	878209	9.6	4	11.155	-0.040	1736100	35.7

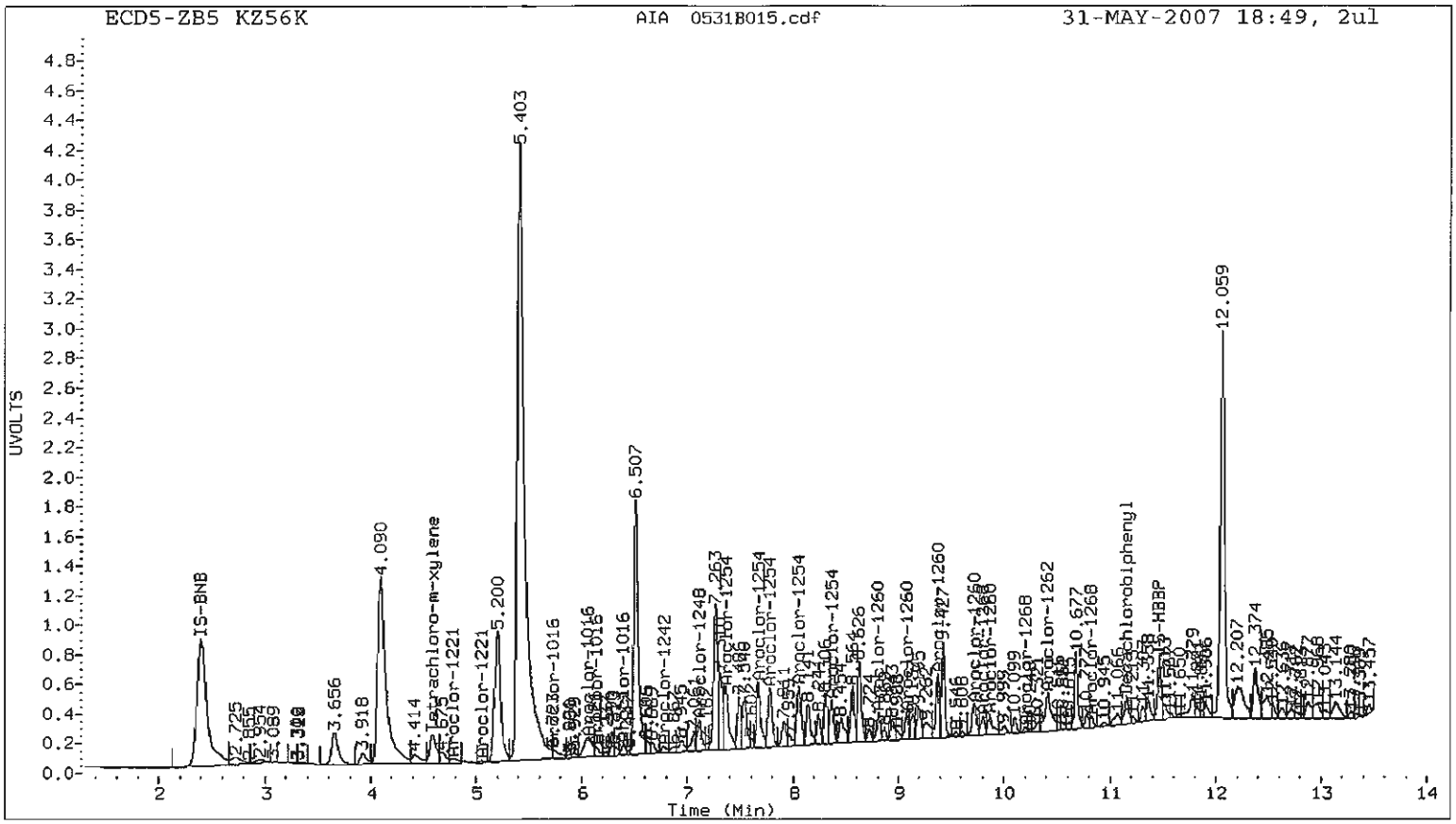
Total Col1Ave (4 peaks):	25.6	Total Col2Ave (4 peaks):	89.8	RPD = 111*
Corrected Ave (3 peaks):	17.6	Corrected Ave (3 peaks):	41.0	RPD = 80*

Total PCB Area Col1 (4.673 - 11.049) = 311316841 Col1 Total PCB = 1.5 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 212052096 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
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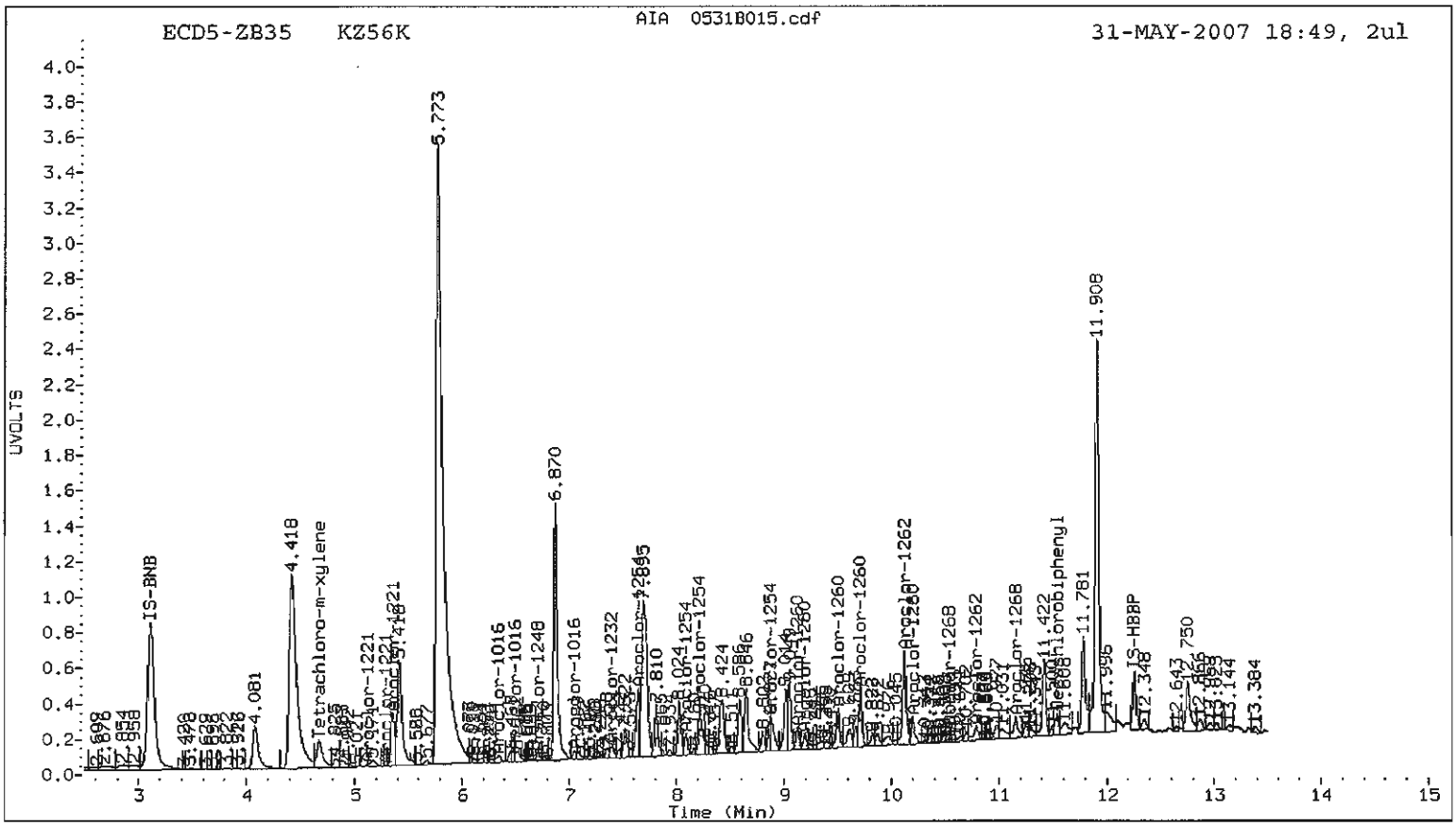
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UVOLTS
Time (Min)
IS-BNB
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Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
4.081
4.418
5.773
6.870
11.781
11.908

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
SAMPLE

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 20:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	24	< 24 Y
11097-69-1	**Aroclor 1254**	**9.8**	**32**
11096-82-5	**Aroclor 1260**	**9.8**	**38**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.8%
Tetrachlorometaxylene	88.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B026.d
Data file 2: 20070529.b/0530-2.b/0530B026.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56L
Client ID: Y3-RC12-S
Injection Date: 30-MAY-2007 20:43
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	12097677	4.673	0.002	7543273	35.3	35.5	0.6	Tetrachloro-m-xylene
11.154	0.005	5381427	11.543	0.001	4133118	36.0	37.5	4.1	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	88.2	88.8
Decachlorobiphenyl	90.1	93.9

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28916581	-10.3
Hexabromobiphenyl	5108210	3740108	-26.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18747616	-7.7
Hexabromobiphenyl	3608946	3576342	-0.9

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.733	0.000	1026593	114.3	1	---			0.0
Aroclor-1016	2	6.058	0.035	4733543	163.4	2	6.348	0.004	1201078	67.2
Aroclor-1016	3	6.143	0.006	1747551	153.6	3	6.517	0.011	3144068	444.0
Aroclor-1016	4	6.396	0.004	1718449	235.6	4	7.048	0.004	888317	154.3
Total Col1Ave (4 peaks):				166.7		Total Col2Ave (3 peaks):			221.8	RPD = 28
Corrected Ave (4 peaks):				166.7		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.803	-0.023	412766	79.7	1	5.172	0.047	541057	177.9
Aroclor-1221	2	4.965	0.011	163987	52.2	2	---			0.0
Aroclor-1221	3	5.052	0.026	211804	21.3	3	5.355	-0.026	2901131	516.0
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				51.1		Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.052	0.025	211804	25.9	1	5.355	-0.025	2901131	633.3
Aroclor-1232	2	5.733	-0.001	1026593	256.0	2	---			0.0
Aroclor-1232	3	6.058	0.035	4733543	366.2	3	6.348	0.004	1201078	152.9
Aroclor-1232	4	6.143	0.005	1747551	343.5	4	7.403	0.004	1347056	446.9
Total Col1Ave (4 peaks):				247.9		Total Col2Ave (3 peaks):			411.1	RPD = 50*
Corrected Ave (4 peaks):				247.9		Corrected Ave (3 peaks):			411.1	RPD = 50*
Aroclor-1242	1	5.733	-0.002	1026593	127.1	1	5.355	-0.025	2901131	719.8
Aroclor-1242	2	6.058	0.032	4733543	181.1	2	---			0.0
Aroclor-1242	3	6.143	0.005	1747551	168.6	3	6.348	0.003	1201078	75.9
Aroclor-1242	4	6.775	0.008	961758	100.6	4	6.517	0.011	3144068	490.0
Aroclor-1242	NS	---			----	5	7.403	0.004	1347056	222.2
Total Col1Ave (4 peaks):				144.4		Total Col2Ave (4 peaks):			377.0	RPD = 89*
Corrected Ave (4 peaks):				144.4		Corrected Ave (3 peaks):			262.7	RPD = 58*
Aroclor-1248	1	6.058	0.038	4733543	254.3	1	6.348	0.005	1201078	104.3
Aroclor-1248	2	6.143	0.004	1747551	292.0	2	6.712	0.003	692770	111.7
Aroclor-1248	3	6.396	0.004	1718449	172.8	3	7.048	0.004	888317	113.0
Aroclor-1248	4	6.775	0.010	961758	68.2	4	7.403	0.004	1347056	130.9
Aroclor-1248	5	7.112	0.012	4343098	238.6	NS	---			----
Total Col1Ave (5 peaks):				205.2		Total Col2Ave (4 peaks):			115.0	RPD = 56*
Corrected Ave (5 peaks):				205.2		Corrected Ave (4 peaks):			115.0	RPD = 56*
Aroclor-1254	1	7.359	0.008	7220298	359.7	1	7.644	-0.005	5505010	508.5
Aroclor-1254	2	7.666	0.009	7920416	507.3	2	8.090	0.004	1820122	242.0
Aroclor-1254	3	7.779	0.010	7792364	328.4	3	8.214	0.003	5045619	316.4
Aroclor-1254	4	8.050	-0.001	7978480	318.4	4	8.871	0.011	3245791	349.6
Aroclor-1254	5	8.365	0.007	4561787	295.5	NS	---			----
Total Col1Ave (5 peaks):				381.9		Total Col2Ave (4 peaks):			354.1	RPD = 8
Corrected Ave (5 peaks):				381.9		Corrected Ave (4 peaks):			354.1	RPD = 8
Aroclor-1260	1	8.809	0.006	3852417	371.2	1	9.124	0.003	1893461	269.2
Aroclor-1260	2	9.078	0.006	3674874	398.4	2	9.193	0.004	1361361	315.4
Aroclor-1260	3	9.377	0.008	8197386	351.8	3	9.506	0.004	3854923	456.6
Aroclor-1260	4	9.715	0.007	3544686	314.4	4	9.714	0.005	5720262	298.7
Aroclor-1260	5	9.865	0.007	2681400	481.1	5	10.203	0.004	3194484	298.6
Total Col1Ave (5 peaks):				383.4		Total Col2Ave (5 peaks):			327.7	RPD = 16
Corrected Ave (5 peaks):				383.4		Corrected Ave (5 peaks):			327.7	RPD = 16
Aroclor-1262	1	9.078	0.007	3674874	254.8	1	9.124	0.003	1893461	138.9
Aroclor-1262	2	9.377	0.009	8197386	233.8	2	9.506	0.004	3854923	308.1
Aroclor-1262	3	9.715	0.007	3544686	332.5	3	9.714	0.004	5720262	224.2
Aroclor-1262	4	9.865	0.006	2681400	188.3	4	10.121	-0.026	8747070	850.9
Aroclor-1262	5	10.410	0.011	7061019	693.0	5	10.792	0.005	1760613	247.9
Total Col1Ave (5 peaks):				340.5		Total Col2Ave (5 peaks):			354.0	RPD = 4
Corrected Ave (4 peaks):				252.4		Corrected Ave (4 peaks):			229.8	RPD = 9
Aroclor-1268	1	9.805	0.008	2083550	56.6	1	10.121	-0.025	8747070	347.9
Aroclor-1268	2	9.865	0.008	2681400	81.1	2	10.203	-0.001	3194484	139.2
Aroclor-1268	3	10.203	0.024	879664	31.1	3	10.539	0.000	802401	43.1
Aroclor-1268	4	10.823	0.009	1487553	22.5	4	11.192	-0.003	470175	9.6

250 ✓ 325 303 296

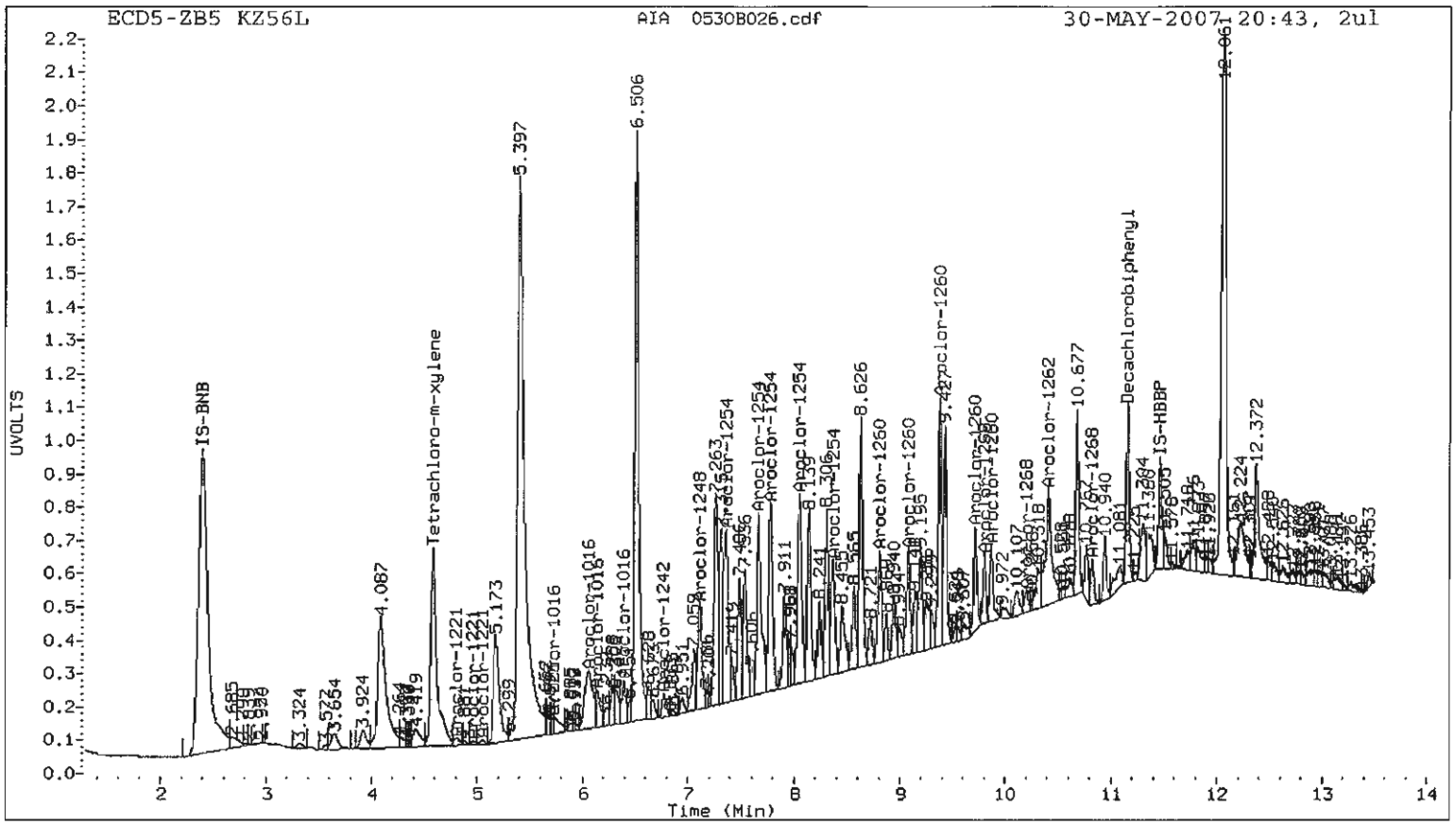
Total Col1Ave (4 peaks):	47.8	Total Col2Ave (4 peaks):	135.0	RPD = 95*
Corrected Ave (4 peaks):	47.8	Corrected Ave (3 peaks):	64.0	RPD = 29

Total PCB Area Col1 (4.673 - 11.049) = 265550690 Col1 Total PCB = 1.3 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 195501928 Col2 Total PCB = 1.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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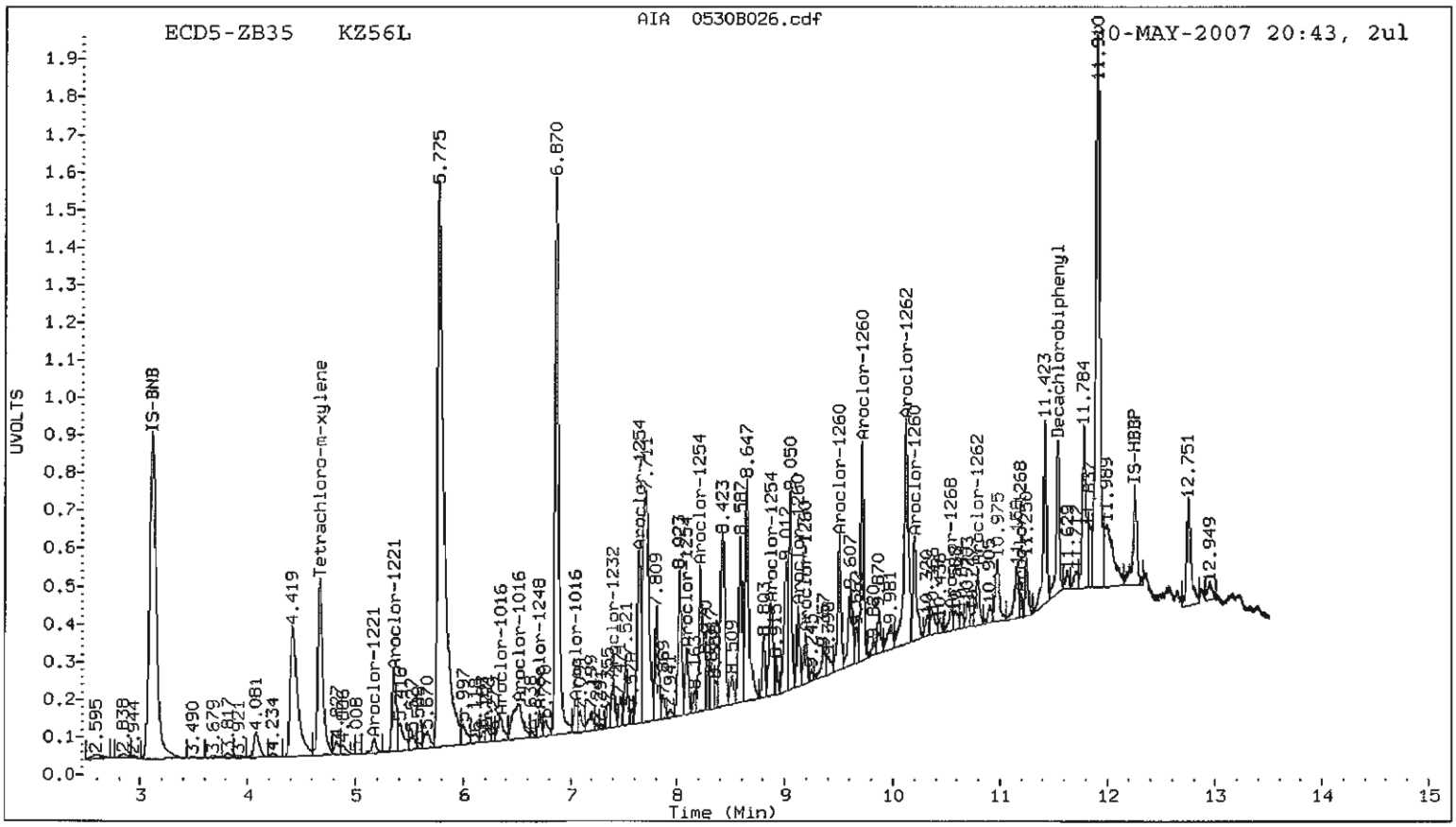
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Aroclor-1262
Aroclor-1254
Aroclor-1248
Aroclor-1232
Aroclor-1221
Aroclor-1016
Aroclor-1268

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC12-S
DILUTION

Lab Sample ID: KZ56L
LIMS ID: 07-9558
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 19:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 35.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**32**
11096-82-5	**Aroclor 1260**	**29**	**40**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	82.5%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B016.d
Data file 2: 20070529.b/0531-2.b/0531B016.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56L
Client ID:
Injection Date: 31-MAY-2007 19:06
Report Date: 06/04/2007 11:51
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.579	0.006	3788785	4.673	0.002	2572194	11.0	10.9	0.1	Tetrachloro-m-xylene
11.153	0.004	1655617	11.540	-0.002	1024245	12.4	12.3	0.8	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	82.1	82.1
Decachlorobiphenyl	92.8	92.0

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29189730	-9.5
Hexabromobiphenyl	5108210	3349674	-34.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	20740075	2.1
Hexabromobiphenyl	3608946	2711509	-24.9

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.732	-0.002	307853	33.9	1	---			0.0
Aroclor-1016	2	6.055	0.031	1422170	48.6	2	6.346	0.001	444425	22.5
Aroclor-1016	3	6.142	0.006	638028	55.5	3	6.518	0.011	1025305	130.9
Aroclor-1016	4	6.395	0.003	577022	78.4	4	7.046	0.003	302142	47.4
Total Col1Ave (4 peaks):				54.1		Total Col2Ave (3 peaks):			66.9	RPD = 21
Corrected Ave (4 peaks):				54.1		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.812	-0.014	1965624	376.1	1	5.133	0.008	29948	8.9
Aroclor-1221	2	---			0.0	2	5.271	-0.028	322579	162.3
Aroclor-1221	3	5.053	0.027	55086	5.5	3	5.355	-0.026	1163558	187.1
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 119.4				
Aroclor-1232	1	5.053	0.027	55086	6.7	1	5.355	-0.026	1163558	229.6
Aroclor-1232	2	5.732	-0.002	307853	76.0	2	---			0.0
Aroclor-1232	3	6.055	0.031	1422170	109.0	3	6.346	0.001	444425	51.2
Aroclor-1232	4	6.142	0.005	638028	124.3	4	7.399	0.000	472501	141.7
Total Col1Ave (4 peaks):				79.0		Total Col2Ave (3 peaks):			140.8	RPD = 56*
Corrected Ave (4 peaks):				79.0		Corrected Ave (3 peaks):			140.8	RPD = 56*
Aroclor-1242	1	5.732	-0.003	307853	37.8	1	5.355	-0.026	1163558	261.0
Aroclor-1242	2	6.055	0.029	1422170	53.9	2	---			0.0
Aroclor-1242	3	6.142	0.005	638028	61.0	3	6.346	0.001	444425	25.4
Aroclor-1242	4	6.773	0.007	336926	34.9	4	6.518	0.011	1025305	144.4
Aroclor-1242	NS	---			----	5	7.399	0.000	472501	70.4
Total Col1Ave (4 peaks):				46.9		Total Col2Ave (4 peaks):			125.3	RPD = 91*
Corrected Ave (4 peaks):				46.9		Corrected Ave (3 peaks):			80.1	RPD = 52*
Aroclor-1248	1	6.055	0.035	1422170	75.7	1	6.346	0.003	444425	34.9
Aroclor-1248	2	6.142	0.003	638028	105.6	2	6.710	0.002	251542	36.7
Aroclor-1248	3	6.395	0.003	577022	57.5	3	7.046	0.002	302142	34.8
Aroclor-1248	4	6.773	0.008	336926	23.7	4	7.399	0.000	472501	41.5
Aroclor-1248	5	7.112	0.012	1676870	91.3	NS	---			----
Total Col1Ave (5 peaks):				70.7		Total Col2Ave (4 peaks):			36.9	RPD = 63*
Corrected Ave (5 peaks):				70.7		Corrected Ave (4 peaks):			36.9	RPD = 63*
Aroclor-1254	1	7.358	0.006	2569403	126.8	1	7.642	-0.006	1730001	144.4
Aroclor-1254	2	7.664	0.007	2669921	202.8	2	8.085	0.000	559401	67.2
Aroclor-1254	3	7.777	0.008	2623409	109.5	3	8.213	0.002	1625328	92.1
Aroclor-1254	4	8.052	0.001	2618895	103.5	4	8.867	0.007	1213722	118.2
Aroclor-1254	5	8.363	0.005	1477458	94.8	NS	---			----
Total Col1Ave (5 peaks):				127.5		Total Col2Ave (4 peaks):			105.5	RPD = 19
Corrected Ave (5 peaks):				127.5		Corrected Ave (4 peaks):			105.5	RPD = 19
Aroclor-1260	1	8.807	0.004	1251707	134.7	1	9.122	0.001	592437	111.1
Aroclor-1260	2	9.076	0.005	1229268	148.8	2	9.191	0.002	415197	126.9
Aroclor-1260	3	9.374	0.006	2517060	120.6	3	9.504	0.001	1191202	186.1
Aroclor-1260	4	9.712	0.004	1069380	105.9	4	9.710	0.001	1955120	134.7
Aroclor-1260	5	9.865	0.006	740181	148.3	5	10.198	-0.001	910118	112.2
Total Col1Ave (5 peaks):				131.7		Total Col2Ave (5 peaks):			134.2	RPD = 2
Corrected Ave (5 peaks):				131.7		Corrected Ave (5 peaks):			134.2	RPD = 2
Aroclor-1262	1	9.076	0.005	1229268	95.2	1	9.122	0.001	592437	57.3
Aroclor-1262	2	9.374	0.006	2517060	80.1	2	9.504	0.001	1191202	125.6
Aroclor-1262	3	9.712	0.004	1069380	112.0	3	9.710	0.000	1955120	101.1
Aroclor-1262	4	9.865	0.006	740181	58.0	4	10.119	-0.028	2790093	358.0
Aroclor-1262	5	10.404	0.005	3160336	346.3	5	10.787	-0.001	627155	116.5
Total Col1Ave (5 peaks):				138.3		Total Col2Ave (5 peaks):			151.7	RPD = 9
Corrected Ave (4 peaks):				86.3		Corrected Ave (4 peaks):			100.1	RPD = 15
Aroclor-1268	1	9.798	0.000	595764	18.1	1	10.119	-0.027	2790093	146.4
Aroclor-1268	2	9.865	0.008	740181	25.0	2	10.198	-0.006	910118	52.3
Aroclor-1268	3	10.201	0.022	341470	13.5	3	10.543	0.004	286084	20.3
Aroclor-1268	4	10.819	0.005	551980	9.3	4	11.192	-0.003	101806	2.8

109

92

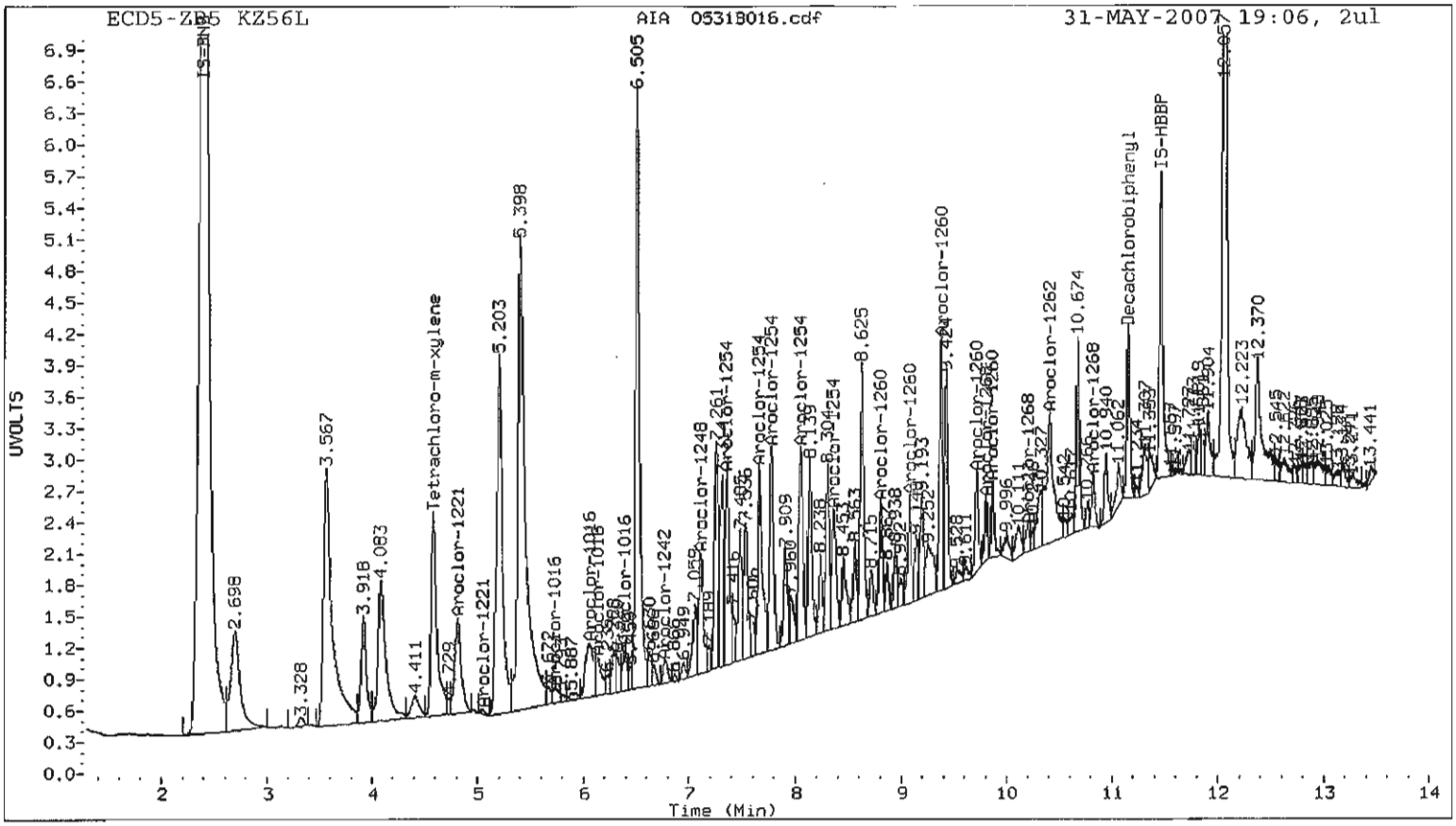
Total Col1Ave (4 peaks):	16.5	Total Col2Ave (4 peaks):	55.4	RPD = 108*
Corrected Ave (4 peaks):	16.5	Corrected Ave (3 peaks):	25.1	RPD = 42*

Total PCB Area Col1 (4.673 - 11.049) = 93892532 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 60402044 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Time (Min)
IS-BNB
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Aroclor-1016
Aroclor-1248
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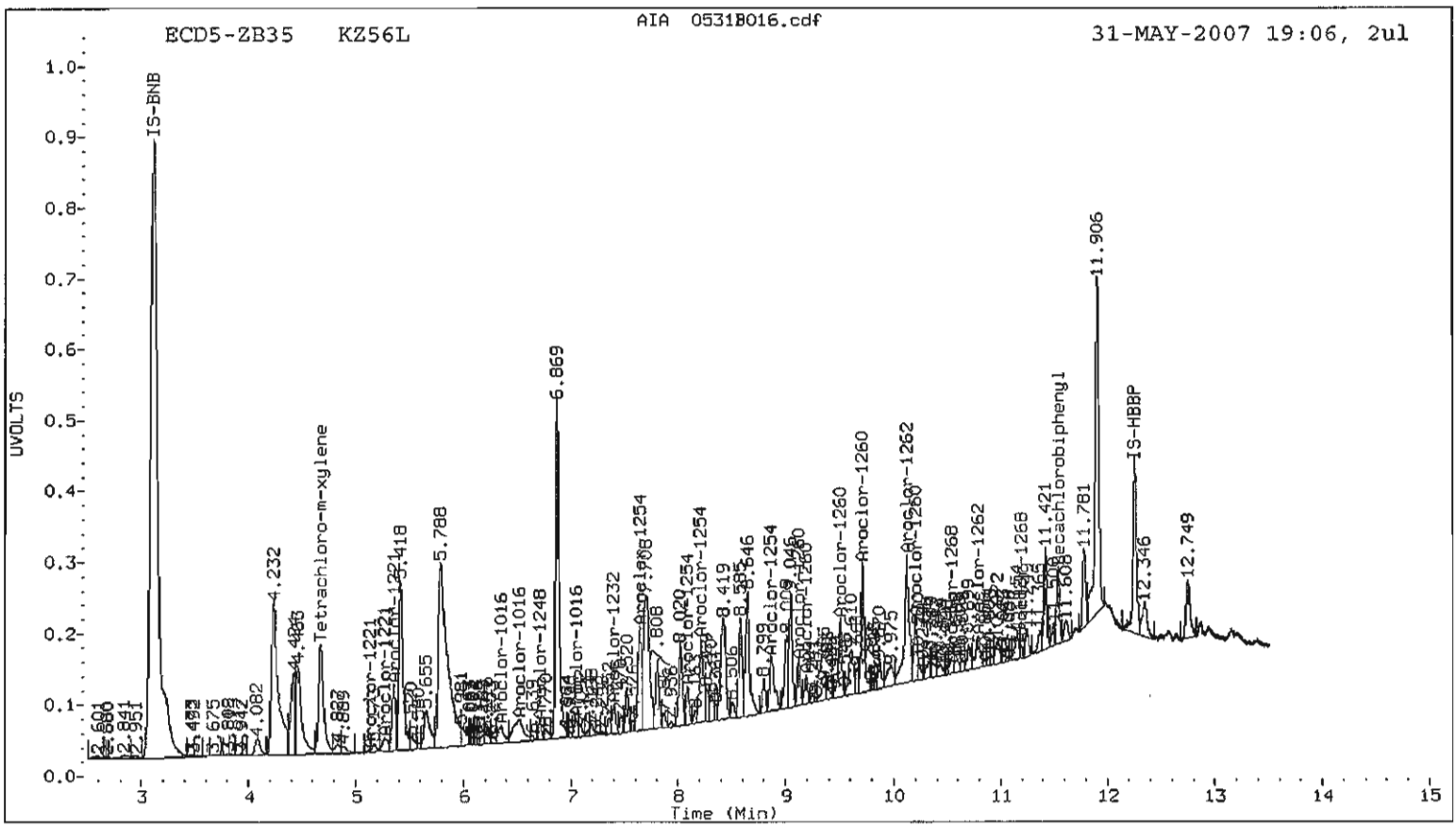
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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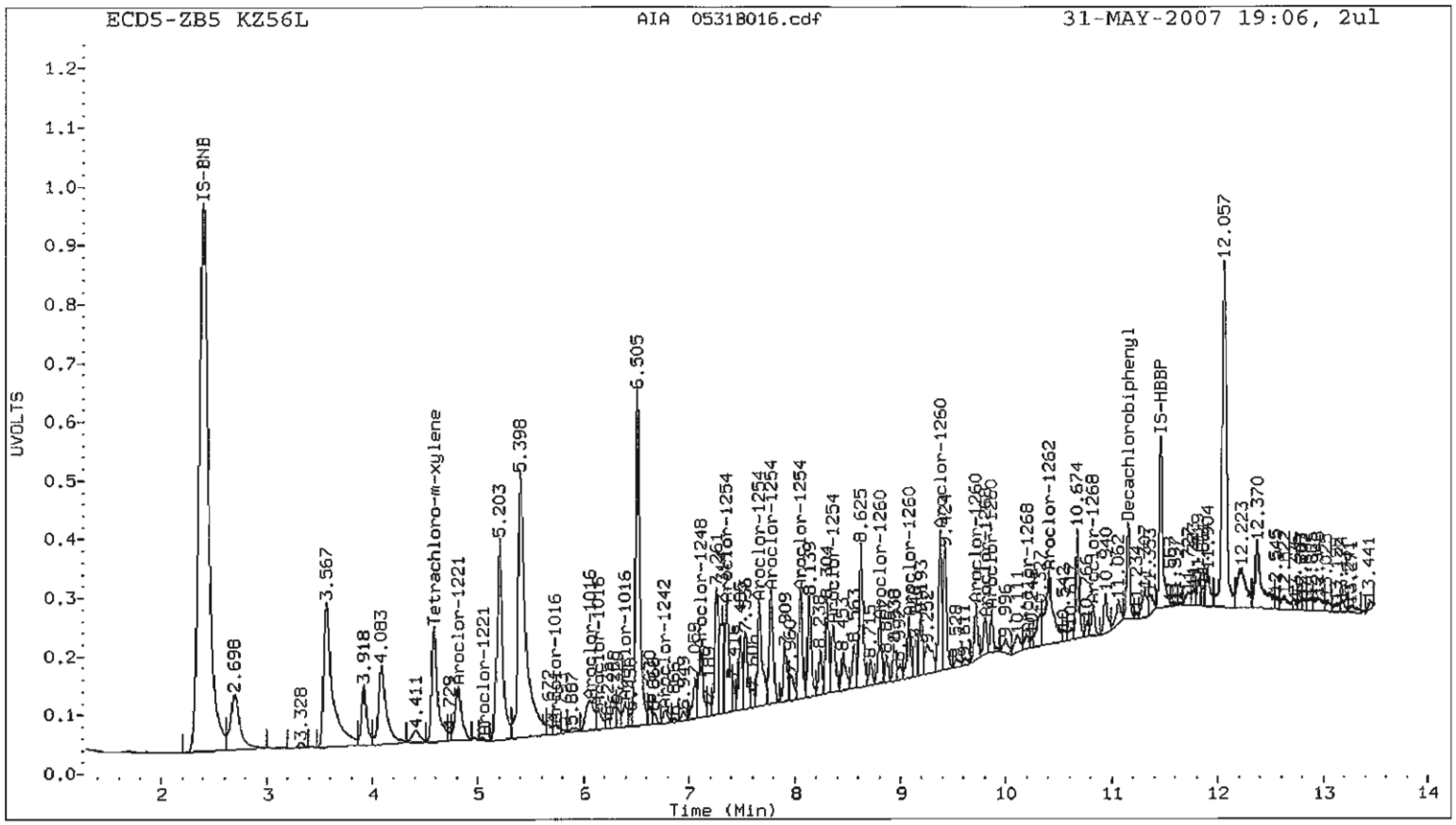
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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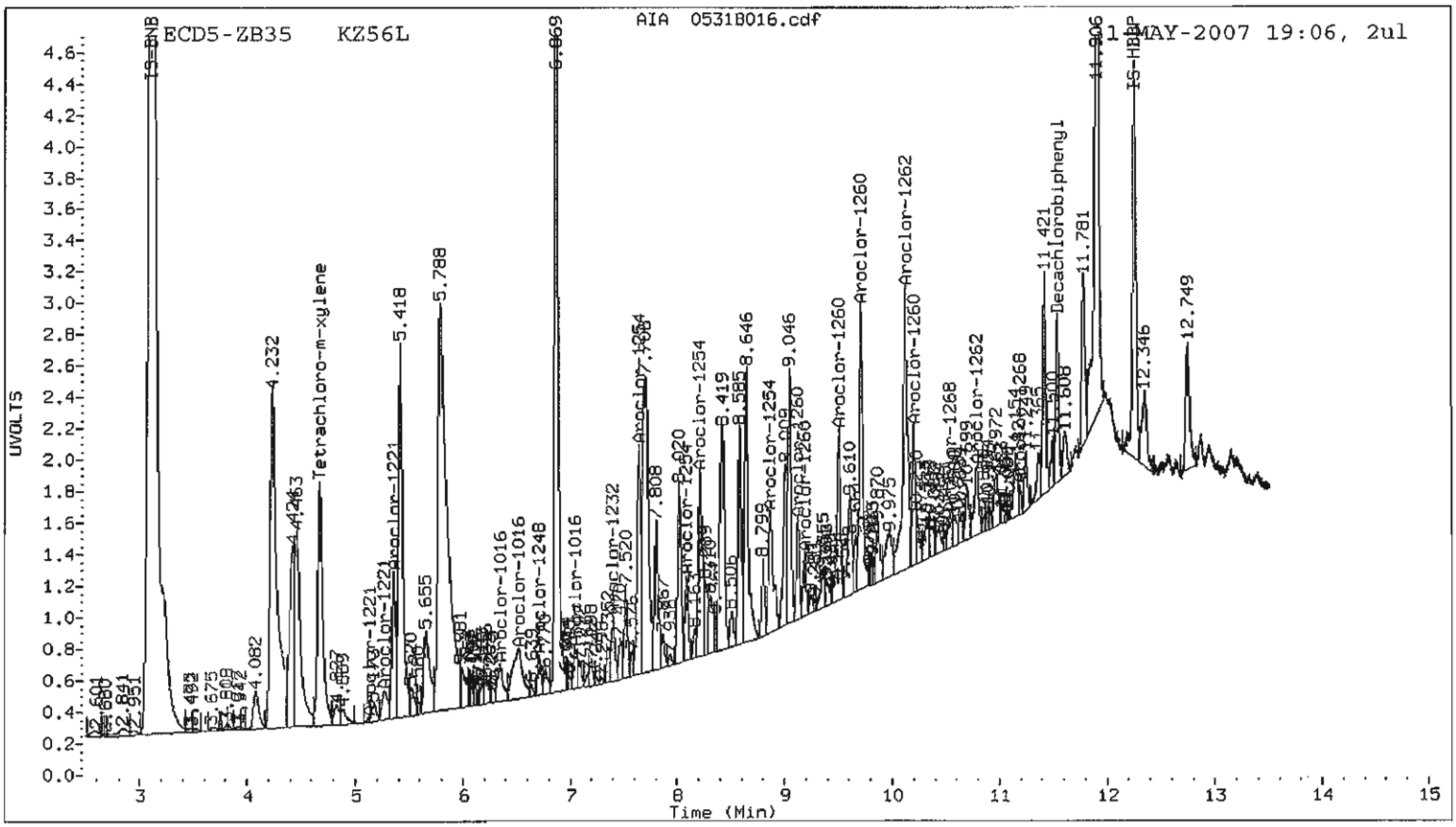
31-MAY-2007 19:06, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1242
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC06-S
SAMPLE

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 48.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	39	< 39 Y
11097-69-1	**Aroclor 1254**	**9.8**	**57**
11096-82-5	**Aroclor 1260**	**9.8**	**66**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	83.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B029.d
Data file 2: 20070529.b/0530-2.b/0530B029.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56M
Client ID: Y3-RC06-S
Injection Date: 30-MAY-2007 21:35
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.582	0.009	13057036	4.674	0.003	7365368	33.4	33.2	0.5	Tetrachloro-m-xylene
11.160	0.011	4586939	11.546	0.004	3832446	34.6	46.4	29.2	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	83.4	83.0
Decachlorobiphenyl	86.5	116.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	33011062	2.4
Hexabromobiphenyl	5108210	3318671	-35.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19582182	-3.6
Hexabromobiphenyl	3608946	2682021	-25.7

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	5.734	0.000	1753149	170.9	1	---			0.0
Aroclor-1016	2	6.063	0.039	8224445	248.7	2	6.346	0.001	1578065	84.6
Aroclor-1016	3	6.141	0.005	2667670	205.4	3	6.513	0.006	2059552	278.4
Aroclor-1016	4	6.395	0.004	6494188	780.0	4	7.047	0.004	2252258	374.5
Total Col1Ave (4 peaks):				351.3		Total Col2Ave (3 peaks):			245.8	RPD = 35
Corrected Ave (3 peaks):				208.3		Corrected Ave (3 peaks):			245.8	RPD = 17
Aroclor-1221	1	---			0.0	1	5.127	0.002	142096	44.7
Aroclor-1221	2	4.951	-0.003	198034	55.3	2	5.289	-0.010	40866	21.8
Aroclor-1221	3	5.050	0.024	333667	29.3	3	5.357	-0.024	10961789	1866.6
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:			644.4	
Aroclor-1232	1	5.050	0.024	333667	35.7	1	5.357	-0.024	10961789	2291.1
Aroclor-1232	2	5.734	-0.001	1753149	382.9	2	---			0.0
Aroclor-1232	3	6.063	0.039	8224445	557.4	3	6.346	0.001	1578065	192.4
Aroclor-1232	4	6.141	0.004	2667670	459.4	4	7.406	0.006	2871805	912.1
Total Col1Ave (4 peaks):				358.8		Total Col2Ave (3 peaks):			1131.9	RPD = 104*
Corrected Ave (4 peaks):				358.8		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.734	-0.001	1753149	190.1	1	5.357	-0.024	10961789	2603.8
Aroclor-1242	2	6.063	0.037	8224445	275.7	2	---			0.0
Aroclor-1242	3	6.141	0.004	2667670	225.5	3	6.346	0.001	1578065	95.4
Aroclor-1242	4	6.776	0.010	1697691	155.5	4	6.513	0.007	2059552	307.3
Aroclor-1242	NS	---			----	5	7.406	0.006	2871805	453.5
Total Col1Ave (4 peaks):				211.7		Total Col2Ave (4 peaks):			865.0	RPD = 121*
Corrected Ave (4 peaks):				211.7		Corrected Ave (3 peaks):			285.4	RPD = 30
Aroclor-1248	1	6.063	0.043	8224445	387.0	1	6.346	0.003	1578065	131.1
Aroclor-1248	2	6.141	0.002	2667670	390.5	2	6.713	0.005	2229321	344.2
Aroclor-1248	3	6.395	0.004	6494188	572.0	3	7.047	0.003	2252258	274.4
Aroclor-1248	4	6.776	0.011	1697691	105.4	4	7.406	0.007	2871805	267.1
Aroclor-1248	5	7.115	0.015	8596647	413.7	NS	---			----
Total Col1Ave (5 peaks):				373.7		Total Col2Ave (4 peaks):			254.2	RPD = 38
Corrected Ave (5 peaks):				373.7		Corrected Ave (4 peaks):			254.2	RPD = 38
Aroclor-1254	1	7.360	0.008	15873446	692.8	1	7.646	-0.002	9970215	801.6
Aroclor-1254	2	7.668	0.011	14139965	949.7	2	8.091	0.006	3418650	435.2
Aroclor-1254	3	7.779	0.011	13974016	515.9	3	8.217	0.006	9200486	552.3
Aroclor-1254	4	8.054	0.002	14289913	499.5	4	8.872	0.012	7301776	753.0
Aroclor-1254	5	8.368	0.010	8095639	459.4	NS	---			----
Total Col1Ave (5 peaks):				623.4		Total Col2Ave (4 peaks):			655.5	RPD = 5
Corrected Ave (5 peaks):				623.4		Corrected Ave (4 peaks):			655.5	RPD = 5
Aroclor-1260	1	8.813	0.010	6424470	697.7	1	9.128	0.007	3618380	686.1
Aroclor-1260	2	9.081	0.010	5456849	666.7	2	9.194	0.006	2657773	821.0
Aroclor-1260	3	9.380	0.012	13508971	653.3	3	9.506	0.004	5956070	940.8
Aroclor-1260	4	9.720	0.012	5511739	550.9	4	9.716	0.006	9563058	666.0
Aroclor-1260	5	9.869	0.011	3625379	733.1	5	10.202	0.004	5333495	664.8
Total Col1Ave (5 peaks):				660.4		Total Col2Ave (5 peaks):			755.7	RPD = 13
Corrected Ave (5 peaks):				660.4		Corrected Ave (5 peaks):			755.7	RPD = 13
Aroclor-1262	1	9.081	0.010	5456849	426.4	1	9.128	0.007	3618380	353.9
Aroclor-1262	2	9.380	0.012	13508971	434.2	2	9.506	0.004	5956070	634.8
Aroclor-1262	3	9.720	0.012	5511739	582.7	3	9.716	0.005	9563058	499.8
Aroclor-1262	4	9.869	0.010	3625379	287.0	4	10.125	-0.022	10594031	1374.1
Aroclor-1262	5	10.410	0.011	8289070	916.8	5	10.793	0.005	2345282	440.4
Total Col1Ave (5 peaks):				529.4		Total Col2Ave (5 peaks):			660.6	RPD = 22
Corrected Ave (4 peaks):				432.6		Corrected Ave (4 peaks):			482.2	RPD = 11
Aroclor-1268	1	9.806	0.009	2998749	91.8	1	10.125	-0.021	10594031	561.9
Aroclor-1268	2	9.869	0.012	3625379	123.6	2	10.202	-0.002	5333495	309.9
Aroclor-1268	3	10.205	0.026	1468815	58.5	3	10.546	0.007	568199	40.7
Aroclor-1268	4	10.827	0.012	1440112	24.5	4	11.199	0.004	910704	24.9

400 ✓ ~~300~~ ✓ 6/4/07

542 580 672

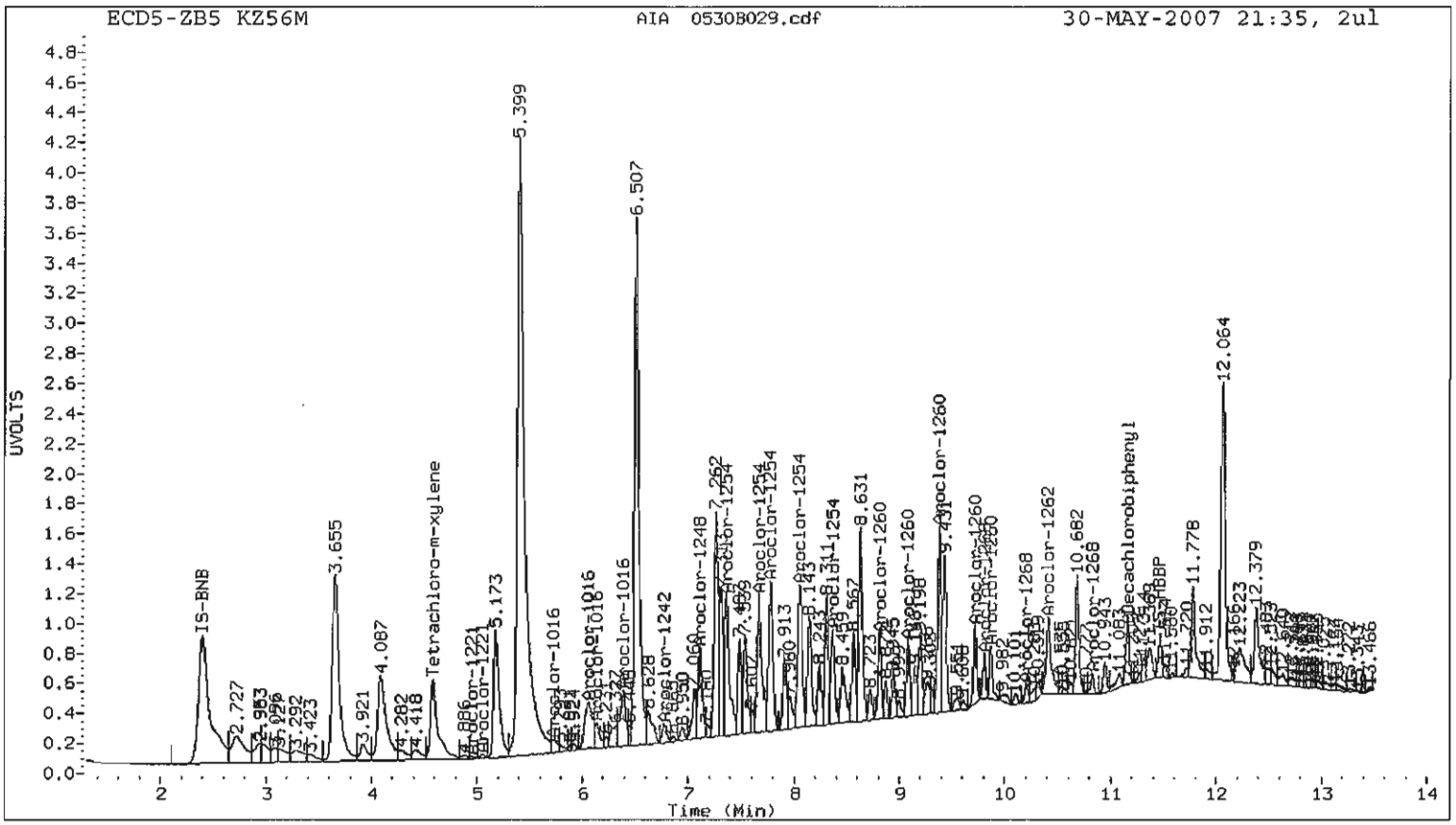
Total Col1Ave (4 peaks):	74.6	Total Col2Ave (4 peaks):	234.3	RPD = 103*
Corrected Ave (4 peaks):	74.6	Corrected Ave (3 peaks):	125.2	RPD = 51*

Total PCB Area Col1 (4.673 - 11.049) = 500480714 Col1 Total PCB = 2.4 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 353564126 Col2 Total PCB = 3.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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30-MAY-2007 21:35, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
HBBP
5.399
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5.173
12.064
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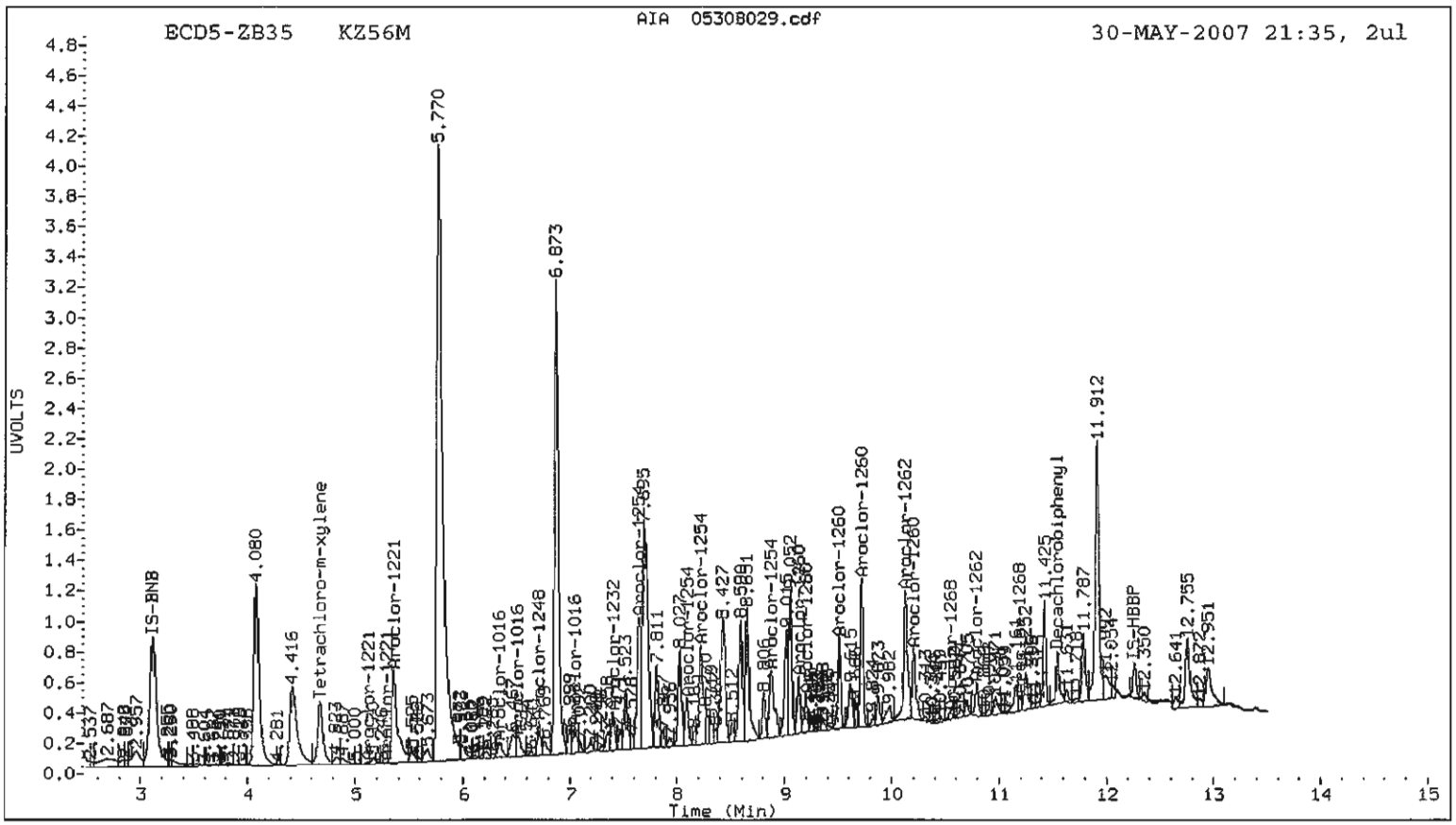
12.379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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
5.770
6.873
4.080
4.416
11.912
11.787
12.755
12.951

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC06-S
DILUTION

Lab Sample ID: KZ56M
LIMS ID: 07-9559
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 19:58
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.3
Percent Moisture: 48.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	**Aroclor 1254**	**29**	**54**
11096-82-5	**Aroclor 1260**	**29**	**72**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.2%
Tetrachlorometaxylene	82.5%

FORM I

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B019.d
Data file 2: 20070529.b/0531-2.b/0531B019.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56M
Client ID:
Injection Date: 31-MAY-2007 19:58
Report Date: 06/04/2007 11:51
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.580	0.006	3956357	4.672	0.001	2433768	10.7	11.0	2.5	Tetrachloro-m-xylene
11.153	0.004	1779329	11.541	-0.001	983676	12.3	12.0	2.8	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	80.6	82.6
Decachlorobiphenyl	92.2	89.7

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	31073143	-3.7
Hexabromobiphenyl	5108210	3623034	-29.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19506902	-4.0
Hexabromobiphenyl	3608946	2673234	-25.9

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.724	-0.009	553249	57.3	1	---			0.0
Aroclor-1016	2	6.055	0.032	2615752	84.0	2	6.345	0.000	569717	30.6
Aroclor-1016	3	6.139	0.003	845097	69.1	3	6.515	0.008	220776	30.0
Aroclor-1016	4	6.394	0.003	2182871	278.5	4	7.044	0.001	703614	117.5
Total Col1Ave (4 peaks):				122.3		Total Col2Ave (3 peaks):			59.4	RPD = 69*
Corrected Ave (3 peaks):				70.2		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.813	-0.013	2250380	404.5	1	5.126	0.000	50532	16.0
Aroclor-1221	2	---			0.0	2	5.271	-0.027	389706	208.5
Aroclor-1221	3	5.047	0.021	174060	16.3	3	5.355	-0.026	2782342	475.6
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave:	233.4			
Aroclor-1232	1	5.047	0.020	174060	19.8	1	5.355	-0.025	2782342	583.8
Aroclor-1232	2	5.724	-0.010	553249	128.4	2	---			0.0
Aroclor-1232	3	6.055	0.031	2615752	188.3	3	6.345	0.000	569717	69.7
Aroclor-1232	4	6.139	0.002	845097	154.6	4	7.403	0.003	928854	296.2
Total Col1Ave (4 peaks):				122.8		Total Col2Ave (3 peaks):			316.6	RPD = 88*
Corrected Ave (4 peaks):				122.8		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.724	-0.011	553249	63.7	1	5.355	-0.025	2782342	663.4
Aroclor-1242	2	6.055	0.029	2615752	93.1	2	---			0.0
Aroclor-1242	3	6.139	0.001	845097	75.9	3	6.345	0.000	569717	34.6
Aroclor-1242	4	6.774	0.008	613870	59.7	4	6.498	-0.008	106512	16.0
Aroclor-1242	NS	---			----	5	7.403	0.003	928854	147.2
Total Col1Ave (4 peaks):				73.1		Total Col2Ave (4 peaks):			215.3	RPD = 99*
Corrected Ave (4 peaks):				73.1		Corrected Ave (3 peaks):			65.9	RPD = 10
Aroclor-1248	1	6.055	0.035	2615752	130.8	1	6.345	0.002	569717	47.5
Aroclor-1248	2	6.139	0.000	845097	131.4	2	6.710	0.002	755426	117.1
Aroclor-1248	3	6.394	0.003	2182871	204.2	3	7.044	0.000	703614	86.1
Aroclor-1248	4	6.774	0.010	613870	40.5	4	7.403	0.004	928854	86.7
Aroclor-1248	5	7.112	0.012	2831547	144.8	NS	---			----
Total Col1Ave (5 peaks):				130.3		Total Col2Ave (4 peaks):			84.3	RPD = 43*
Corrected Ave (5 peaks):				130.3		Corrected Ave (4 peaks):			84.3	RPD = 43*
Aroclor-1254	1	7.359	0.007	4317925	200.2	1	7.644	-0.004	3221318	~~285.9~~
Aroclor-1254	2	7.665	0.008	4602204	~~328.4~~	2	8.087	0.002	1056612	135.0
Aroclor-1254	3	7.775	0.006	4703322	184.5 183	3	8.214	0.003	2837827	171.0 132
Aroclor-1254	4	8.051	0.000	4904650	182.1	4	8.868	0.008	877946	90.9
Aroclor-1254	5	8.361	0.003	2718650	163.9	NS	---			----
Total Col1Ave (5 peaks):				211.8		Total Col2Ave (4 peaks):			170.7	RPD = 21
Corrected Ave (5 peaks):				211.8		Corrected Ave (4 peaks):			170.7	RPD = 21
Aroclor-1260	1	8.809	0.006	2213462	220.2	1	9.122	0.001	1245605	237.0
Aroclor-1260	2	9.076	0.005	1894912	212.1	2	9.189	0.000	896349	277.8
Aroclor-1260	3	9.374	0.006	4626144	204.9	3	9.504	0.001	2093382	~~331.8~~
Aroclor-1260	4	9.712	0.004	1990926	182.3	4	9.711	0.002	3238823	226.3 247
Aroclor-1260	5	9.866	0.008	1119062	207.3	5	10.200	0.001	1960126	245.1
Total Col1Ave (5 peaks):				205.4		Total Col2Ave (5 peaks):			263.6	RPD = 25
Corrected Ave (5 peaks):				205.4		Corrected Ave (5 peaks):			263.6	RPD = 25
Aroclor-1262	1	9.076	0.005	1894912	135.6	1	9.122	0.001	1245605	122.2
Aroclor-1262	2	9.374	0.006	4626144	136.2	2	9.504	0.001	2093382	223.9
Aroclor-1262	3	9.712	0.004	1990926	192.8	3	9.711	0.001	3238823	169.8
Aroclor-1262	4	9.866	0.007	1119062	81.1	4	10.120	-0.027	3739642	486.7
Aroclor-1262	5	10.405	0.006	3552707	359.9	5	10.788	0.001	836504	157.6
Total Col1Ave (5 peaks):				181.1		Total Col2Ave (5 peaks):			232.0	RPD = 25
Corrected Ave (4 peaks):				136.4		Corrected Ave (4 peaks):			168.4	RPD = 21
Aroclor-1268	1	9.801	0.004	1102625	30.9	1	10.120	-0.026	3739642	199.0
Aroclor-1268	2	9.866	0.009	1119062	34.9	2	10.200	-0.004	1960126	114.3
Aroclor-1268	3	10.201	0.022	555550	20.3	3	10.540	0.000	227702	16.4
Aroclor-1268	4	10.822	0.008	899638	14.0	4	11.196	0.001	231400	6.3

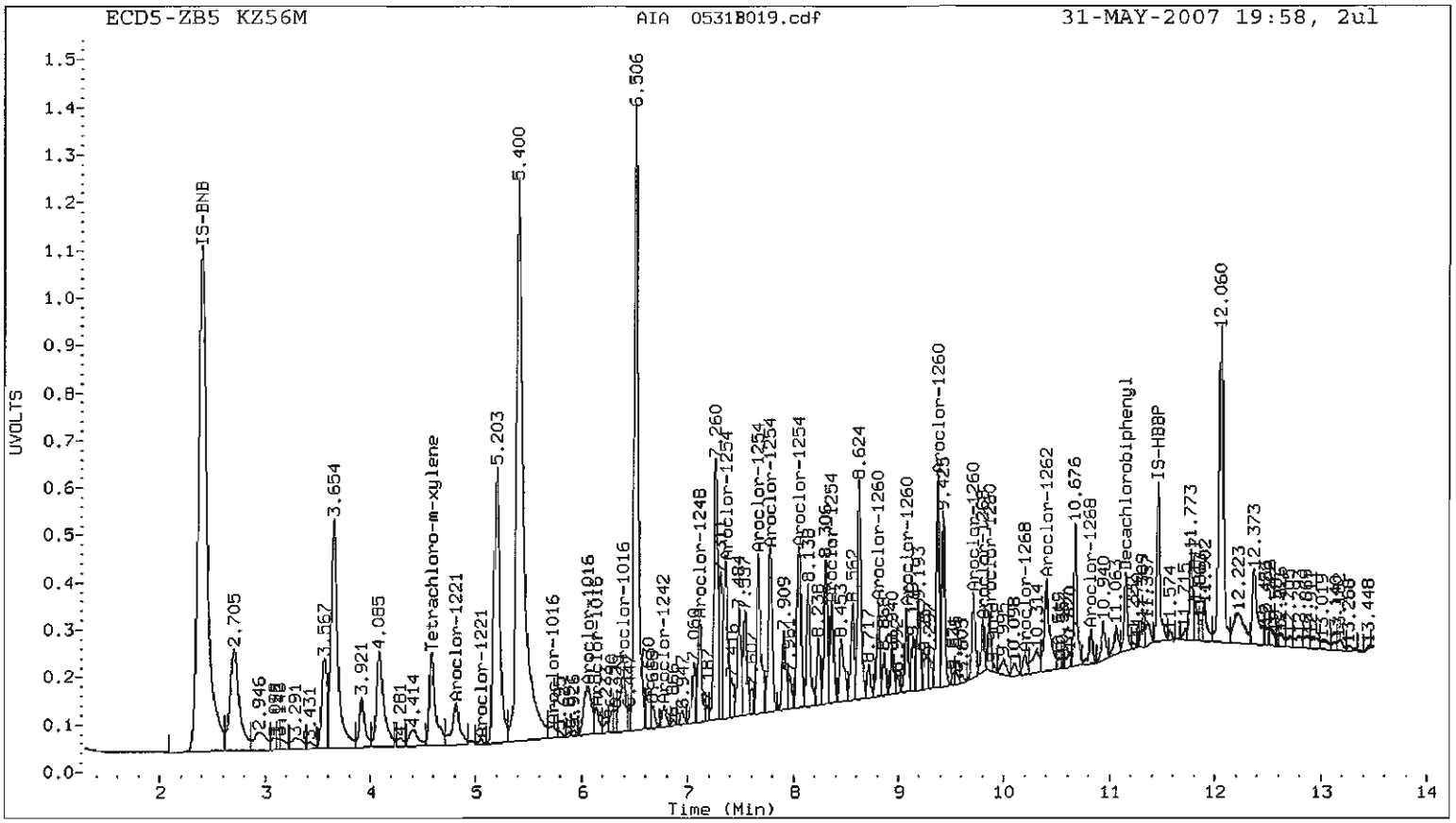
Total Col1Ave (4 peaks):	25.0	Total Col2Ave (4 peaks):	84.0	RPD = 108*
Corrected Ave (4 peaks):	25.0	Corrected Ave (3 peaks):	45.7	RPD = 58*

Total PCB Area Col1 (4.673 - 11.049) = 173350501 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 49422597 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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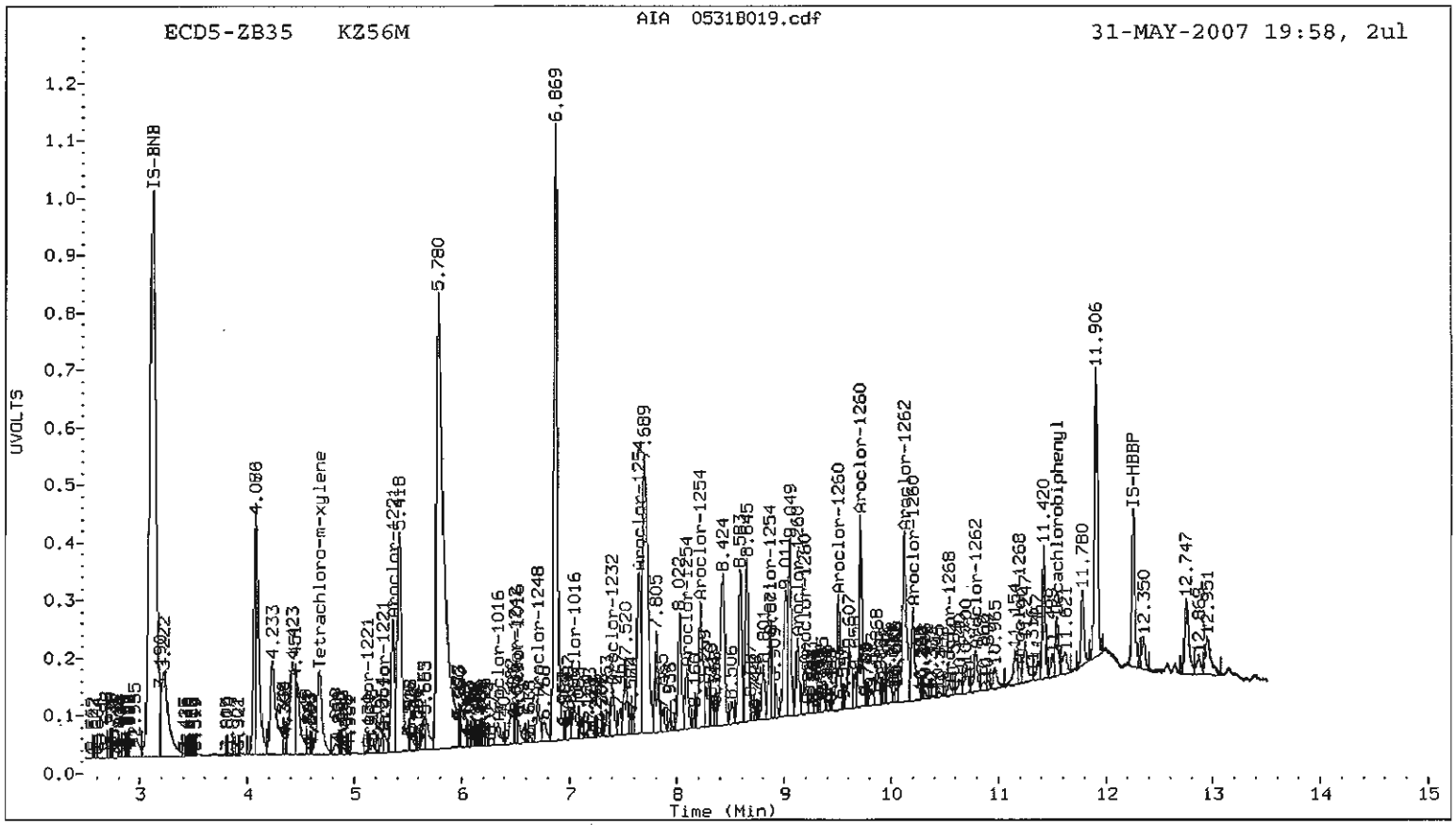
AIA 0531B019.cdf
31-MAY-2007 19:58, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
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Aroclor-1016
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC04-S
SAMPLE

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 21:52
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.9	< 9.9 U
53469-21-9	Aroclor 1242	9.9	< 9.9 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	**Aroclor 1254**	**9.9**	**71**
11096-82-5	**Aroclor 1260**	**9.9**	**65**
11104-28-2	Aroclor 1221	9.9	< 9.9 U
11141-16-5	Aroclor 1232	9.9	< 9.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.0%
Tetrachlorometaxylene	91.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B030.d
Data file 2: 20070529.b/0530-2.b/0530B030.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56N
Client ID: Y3-RC04-S
Injection Date: 30-MAY-2007 21:52
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	11111385	4.676	0.005	7811081	34.3	36.6	6.5	Tetrachloro-m-xylene
11.158	0.008	5154734	11.546	0.004	3421610	33.9	37.2	9.4	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	85.7	91.5
Decachlorobiphenyl	84.7	93.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	27340287	-15.2
Hexabromobiphenyl	5108210	3809534	-25.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	18834523	-7.3
Hexabromobiphenyl	3608946	2985519	-17.3

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.732	-0.002	2314434	272.5	1	---			0.0
Aroclor-1016	2	6.055	0.032	9701371	354.2	2	6.348	0.003	1826740	101.8
Aroclor-1016	3	6.138	0.002	1343629	124.9	3	6.517	0.011	3344475	470.1
Aroclor-1016	4	6.395	0.004	2954371	428.5	4	7.050	0.007	1686845	291.7
Total Col1Ave (4 peaks):				295.0		Total Col2Ave (3 peaks):			287.8	RPD = 2
Corrected Ave (4 peaks):				295.0		Corrected Ave (3 peaks):			287.8	RPD = 2
Aroclor-1221	1	---			0.0	1	5.172	0.046	1391483	455.4
Aroclor-1221	2	4.952	-0.002	241160	81.3	2	---			0.0
Aroclor-1221	3	5.053	0.027	408182	43.3	3	5.359	-0.022	14332909	2537.5
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	5.053	0.026	408182	52.7	1	5.359	-0.022	14332909	3114.6
Aroclor-1232	2	5.732	-0.003	2314434	610.4	2	---			0.0
Aroclor-1232	3	6.055	0.031	9701371	793.9	3	6.348	0.004	1826740	231.5
Aroclor-1232	4	6.138	0.001	1343629	279.4	4	7.405	0.006	2842797	938.8
Total Col1Ave (4 peaks):				434.1		Total Col2Ave (3 peaks):			1428.3	RPD = 107*
Corrected Ave (3 peaks):				314.1		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.732	-0.003	2314434	303.0	1	5.359	-0.021	14332909	3539.7
Aroclor-1242	2	6.055	0.029	9701371	392.6	2	---			0.0
Aroclor-1242	3	6.138	0.001	1343629	137.1	3	6.348	0.003	1826740	114.8
Aroclor-1242	4	6.777	0.010	2182395	241.4	4	6.517	0.011	3344475	518.8
Aroclor-1242	NS	---			----	5	7.405	0.006	2842797	466.7
Total Col1Ave (4 peaks):				268.5		Total Col2Ave (4 peaks):			1160.0	RPD = 125*
Corrected Ave (4 peaks):				268.5		Corrected Ave (3 peaks):			366.8	RPD = 31
Aroclor-1248	1	6.055	0.035	9701371	551.2	1	6.348	0.005	1826740	157.8
Aroclor-1248	2	6.138	-0.001	1343629	237.5	2	6.711	0.003	1371347	220.1
Aroclor-1248	3	6.395	0.004	2954371	314.2	3	7.050	0.006	1686845	213.7
Aroclor-1248	4	6.777	0.012	2182395	163.6	4	7.405	0.006	2842797	274.9
Aroclor-1248	5	7.113	0.014	8791189	510.8	NS	---			----
Total Col1Ave (5 peaks):				355.4		Total Col2Ave (4 peaks):			216.6	RPD = 49*
Corrected Ave (5 peaks):				355.4		Corrected Ave (4 peaks):			216.6	RPD = 49*
Aroclor-1254	1	7.360	0.008	16426160	865.6	1	7.646	-0.003	11662146	1072.2
Aroclor-1254	2	7.670	0.012	16652165	1350.4	2	8.091	0.005	3694182	488.9
Aroclor-1254	3	7.780	0.011	15490766	690.5	3	8.219	0.009	12228597	763.3
Aroclor-1254	4	8.056	0.004	15920929	671.9	4	8.873	0.013	7928434	850.1
Aroclor-1254	5	8.370	0.012	9334041	639.5	NS	---			----
Total Col1Ave (5 peaks):				843.6		Total Col2Ave (4 peaks):			793.6	RPD = 6
Corrected Ave (5 peaks):				843.6		Corrected Ave (4 peaks):			793.6	RPD = 6
Aroclor-1260	1	8.814	0.011	7101952	671.9	1	9.129	0.008	3695499	629.5
Aroclor-1260	2	9.083	0.012	6063526	645.4	2	9.196	0.007	2675426	742.4
Aroclor-1260	3	9.382	0.014	14762404	622.0	3	9.509	0.006	6700126	950.8
Aroclor-1260	4	9.722	0.014	6182617	538.3	4	9.718	0.008	10776470	674.2
Aroclor-1260	5	9.873	0.014	3929458	692.2	5	10.205	0.007	5929695	664.0
Total Col1Ave (5 peaks):				634.0		Total Col2Ave (5 peaks):			732.2	RPD = 14
Corrected Ave (5 peaks):				634.0		Corrected Ave (5 peaks):			732.2	RPD = 14
Aroclor-1262	1	9.083	0.013	6063526	412.8	1	9.129	0.008	3695499	324.7
Aroclor-1262	2	9.382	0.014	14762404	413.3	2	9.509	0.007	6700126	641.5
Aroclor-1262	3	9.722	0.014	6182617	569.5	3	9.718	0.007	10776470	506.0
Aroclor-1262	4	9.873	0.014	3929458	271.0	4	10.126	-0.022	14003634	1631.8
Aroclor-1262	5	10.414	0.015	9938063	957.5	5	10.793	0.005	2703641	456.1
Total Col1Ave (5 peaks):				524.8		Total Col2Ave (5 peaks):			712.0	RPD = 30
Corrected Ave (4 peaks):				416.6		Corrected Ave (4 peaks):			482.1	RPD = 15
Aroclor-1268	1	9.809	0.011	3119755	83.2	1	10.126	-0.020	14003634	667.2
Aroclor-1268	2	9.873	0.016	3929458	116.7	2	10.205	0.001	5929695	309.5
Aroclor-1268	3	10.204	0.025	1744948	60.6	3	10.552	0.013	708152	45.6
Aroclor-1268	4	10.826	0.011	1796474	26.7	4	11.198	0.003	1063315	26.1

2504

717

701

656

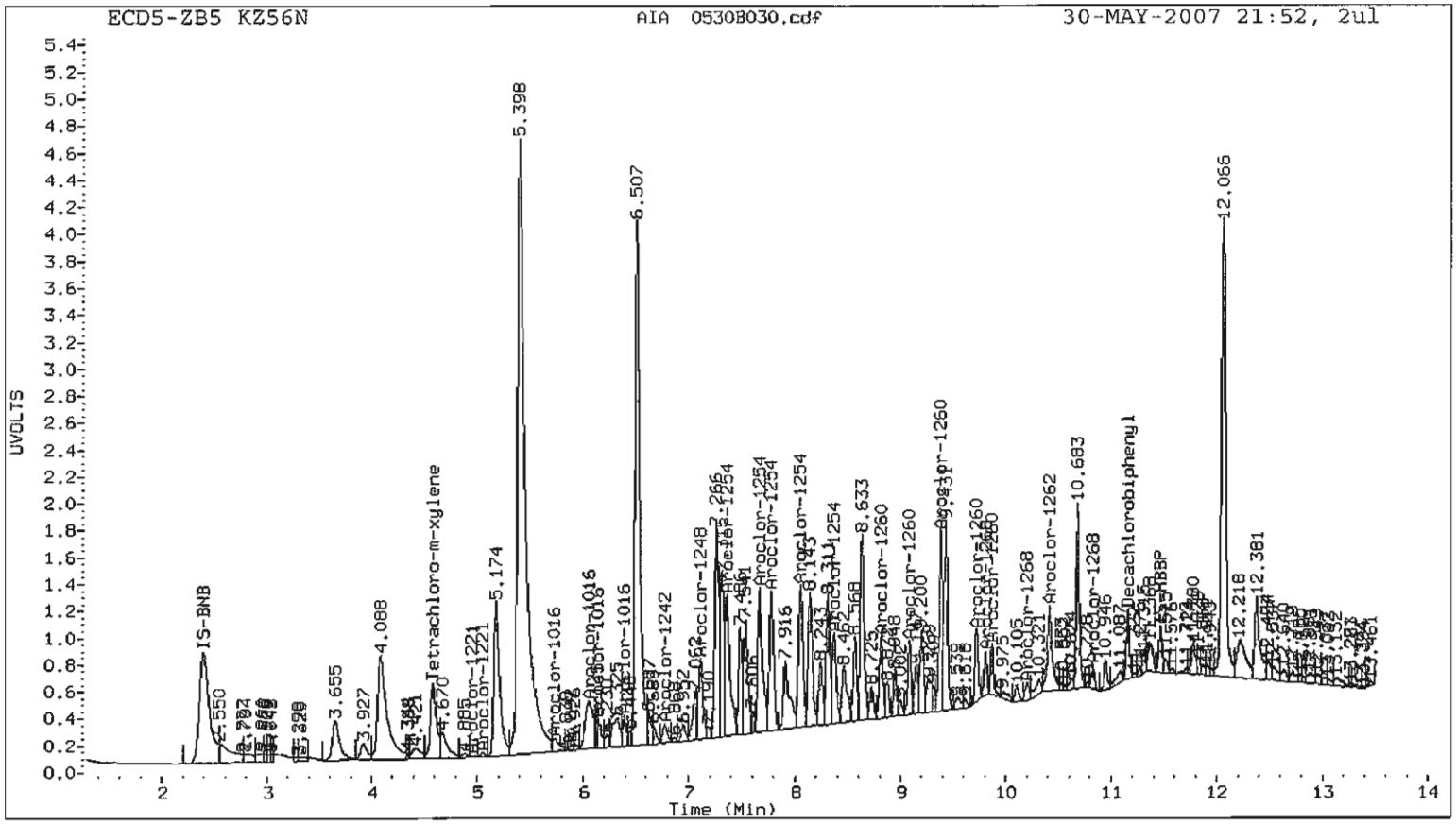
Total Col1Ave (4 peaks):	71.8	Total Col2Ave (4 peaks):	262.1	RPD = 114*
Corrected Ave (4 peaks):	71.8	Corrected Ave (3 peaks):	127.1	RPD = 56*

Total PCB Area Col1 (4.673 - 11.049) = 584320341 Col1 Total PCB = 2.8 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 422093019 Col2 Total PCB = 3.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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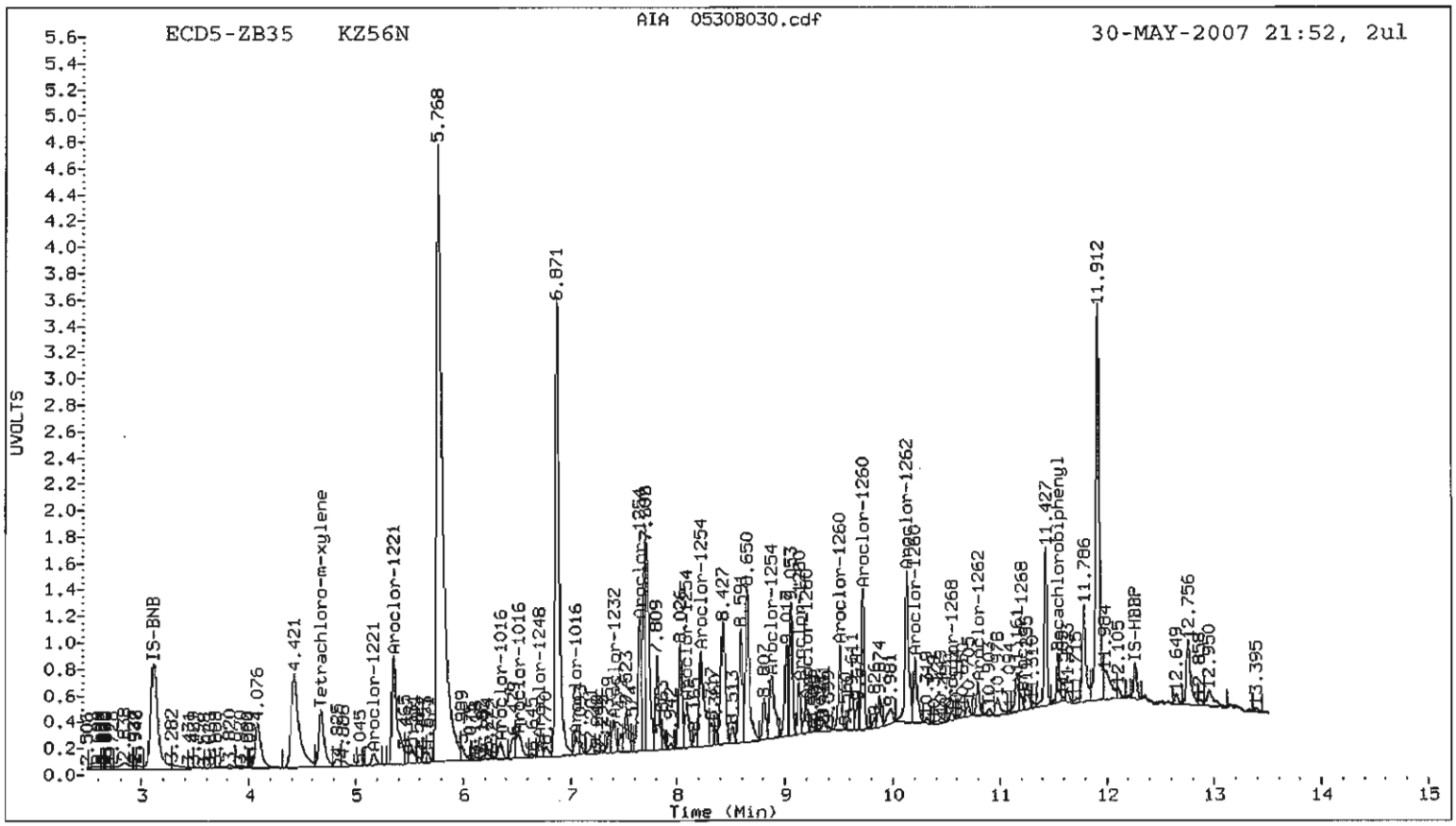
30-MAY-2007 21:52, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC04-S
DILUTION

Lab Sample ID: KZ56N
LIMS ID: 07-9560
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 20:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.2
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	30	< 30 U
53469-21-9	Aroclor 1242	30	< 30 U
12672-29-6	Aroclor 1248	30	< 30 U
11097-69-1	**Aroclor 1254**	**30**	**67**
11096-82-5	**Aroclor 1260**	**30**	**73**
11104-28-2	Aroclor 1221	30	< 30 U
11141-16-5	Aroclor 1232	30	< 30 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	94.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B020.d
Data file 2: 20070529.b/0531-2.b/0531B020.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56N
Client ID:
Injection Date: 31-MAY-2007 20:15
Report Date: 06/04/2007 11:35
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	3491104	4.675	0.004	2779203	9.9	12.6	24.0	Tetrachloro-m-xylene
11.152	0.003	1795176	11.541	-0.001	928294	11.4	10.5	7.6	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.4	94.6
Decachlorobiphenyl	85.1	78.9

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29709412	-7.9
Hexabromobiphenyl	5108210	3959983	-22.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19439384	-4.3
Hexabromobiphenyl	3608946	2868157	-20.5

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.735	0.001	669675	72.6	1	---			0.0
Aroclor-1016	2	6.057	0.033	3207801	107.8	2	6.348	0.004	793693	42.8
Aroclor-1016	3	6.142	0.006	1282762	109.7	3	6.514	0.008	1272675	173.3
Aroclor-1016	4	6.395	0.004	1049424	140.1	4	7.048	0.005	588666	98.6
Total Col1Ave (4 peaks):				107.5		Total Col2Ave (3 peaks):			104.9	RPD = 2
Corrected Ave (4 peaks):				107.5		Corrected Ave (3 peaks):			104.9	RPD = 2
Aroclor-1221	1	4.813	-0.013	160115	30.1	1	5.129	0.004	102309	32.4
Aroclor-1221	2	---			0.0	2	5.287	-0.012	54695	29.4
Aroclor-1221	3	5.051	0.025	128234	12.5	3	5.356	-0.025	3621385	621.2
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 227.7				
Aroclor-1232	1	5.051	0.024	128234	15.2	1	5.356	-0.025	3621385	762.5
Aroclor-1232	2	5.735	0.001	669675	162.5	2	---			0.0
Aroclor-1232	3	6.057	0.033	3207801	241.6	3	6.348	0.004	793693	97.5
Aroclor-1232	4	6.142	0.005	1282762	245.4	4	7.403	0.003	957125	306.2
Total Col1Ave (4 peaks):				166.2		Total Col2Ave (3 peaks):			388.7	RPD = 80*
Corrected Ave (4 peaks):				166.2		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.735	0.000	669675	80.7	1	5.356	-0.025	3621385	866.5
Aroclor-1242	2	6.057	0.031	3207801	119.5	2	---			0.0
Aroclor-1242	3	6.142	0.005	1282762	120.5	3	6.348	0.003	793693	48.3
Aroclor-1242	4	6.775	0.008	783266	79.7	4	6.514	0.008	1272675	191.3
Aroclor-1242	NS	---			----	5	7.403	0.003	957125	152.3
Total Col1Ave (4 peaks):				100.1		Total Col2Ave (4 peaks):			314.6	RPD = 103*
Corrected Ave (4 peaks):				100.1		Corrected Ave (3 peaks):			130.6	RPD = 26
Aroclor-1248	1	6.057	0.037	3207801	167.7	1	6.348	0.005	793693	66.4
Aroclor-1248	2	6.142	0.003	1282762	208.6	2	6.710	0.002	534010	83.1
Aroclor-1248	3	6.395	0.004	1049424	102.7	3	7.048	0.004	588666	72.2
Aroclor-1248	4	6.775	0.010	783266	54.0	4	7.403	0.004	957125	89.7
Aroclor-1248	5	7.112	0.012	2914305	155.8	NS	---			----
Total Col1Ave (5 peaks):				137.8		Total Col2Ave (4 peaks):			77.9	RPD = 56*
Corrected Ave (5 peaks):				137.8		Corrected Ave (4 peaks):			77.9	RPD = 56*
Aroclor-1254	1	7.361	0.009	5639498	273.5	1	7.644	-0.004	3991648	355.6
Aroclor-1254	2	7.666	0.009	5651913	421.8	2	8.090	0.005	1252900	160.7
Aroclor-1254	3	7.778	0.009	5218443	214.1	3	8.214	0.003	3425231	207.1
Aroclor-1254	4	8.052	0.000	5527830	214.7	4	8.871	0.011	2273476	236.2
Aroclor-1254	5	8.365	0.007	3173161	200.1	NS	---			----
Total Col1Ave (5 peaks):				264.8		Total Col2Ave (4 peaks):			239.9	RPD = 10
Corrected Ave (5 peaks):				264.8		Corrected Ave (4 peaks):			239.9	RPD = 10
Aroclor-1260	1	8.810	0.007	2431418	221.3	1	9.123	0.002	1335584	236.8
Aroclor-1260	2	9.078	0.007	2055596	210.5	2	9.190	0.001	992565	286.7
Aroclor-1260	3	9.375	0.007	5025511	203.7	3	9.502	-0.001	2396704	354.0
Aroclor-1260	4	9.714	0.007	2090905	175.1	4	9.710	0.001	3548621	231.1
Aroclor-1260	5	9.864	0.005	1398140	236.9	5	10.200	0.001	1963372	228.8
Total Col1Ave (5 peaks):				209.5		Total Col2Ave (5 peaks):			267.5	RPD = 24
Corrected Ave (5 peaks):				209.5		Corrected Ave (5 peaks):			267.5	RPD = 24
Aroclor-1262	1	9.078	0.007	2055596	134.6	1	9.123	0.002	1335584	122.1
Aroclor-1262	2	9.375	0.007	5025511	135.4	2	9.502	0.000	2396704	238.9
Aroclor-1262	3	9.714	0.006	2090905	185.3	3	9.710	-0.001	3548621	173.4
Aroclor-1262	4	9.864	0.005	1398140	92.7	4	10.121	-0.027	4703949	570.5
Aroclor-1262	5	10.409	0.011	4330815	401.4	5	10.790	0.003	1001039	175.8
Total Col1Ave (5 peaks):				189.9		Total Col2Ave (5 peaks):			256.2	RPD = 30
Corrected Ave (4 peaks):				137.0		Corrected Ave (4 peaks):			177.6	RPD = 26
Aroclor-1268	1	9.800	0.002	1138413	29.2	1	10.121	-0.025	4703949	233.3
Aroclor-1268	2	9.864	0.007	1398140	39.9	2	10.200	-0.004	1963372	106.7
Aroclor-1268	3	10.202	0.023	526420	17.6	3	10.543	0.004	294176	19.7
Aroclor-1268	4	10.822	0.008	994963	14.2	4	11.194	-0.001	304234	7.8

226

201

246

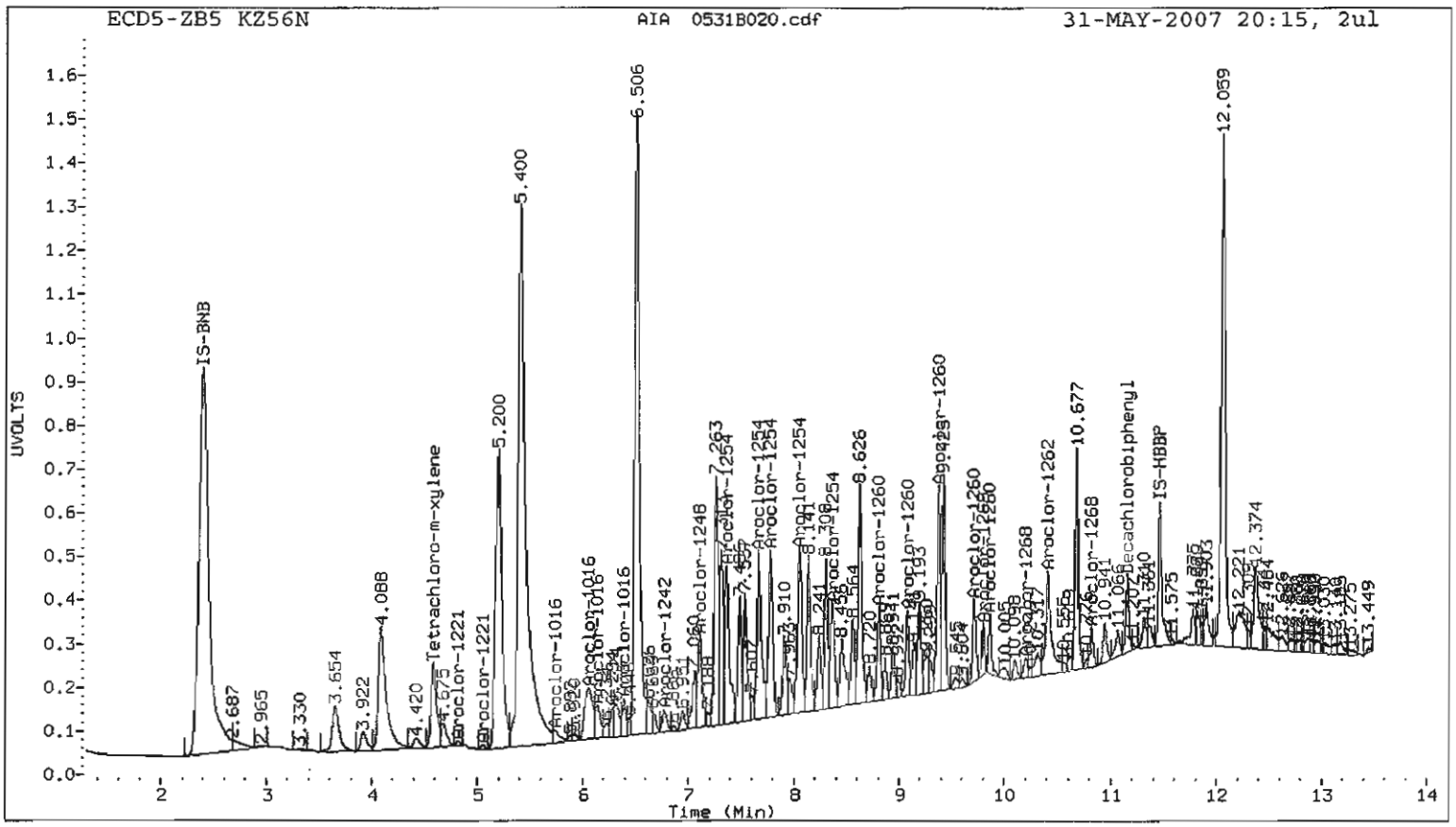
Total Col1Ave (4 peaks):	25.2	Total Col2Ave (4 peaks):	91.9	RPD = 114*
Corrected Ave (4 peaks):	25.2	Corrected Ave (3 peaks):	44.7	RPD = 56*

Total PCB Area Col1 (4.673 - 11.049) = 202756751 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 115057119 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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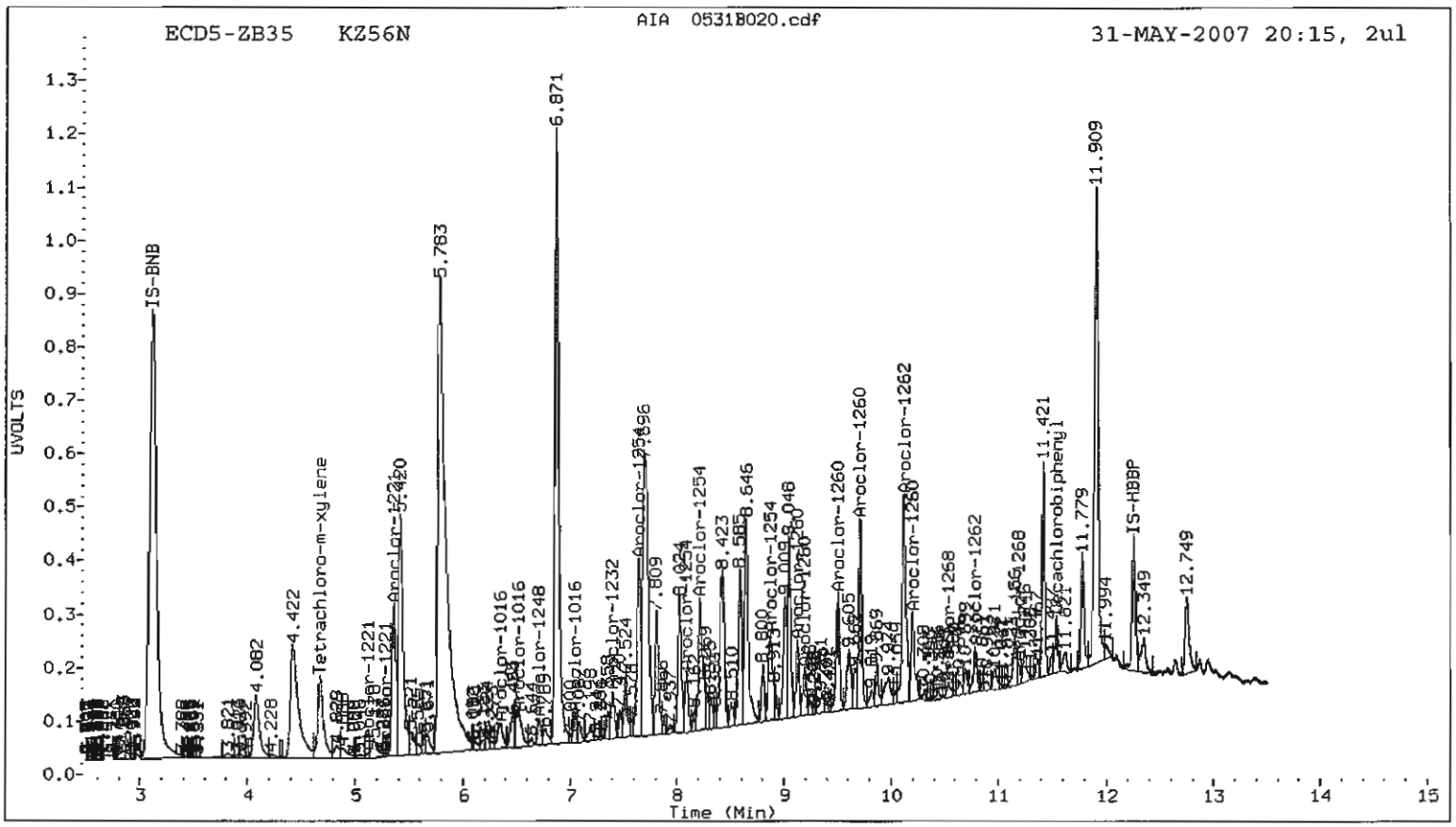
31-MAY-2007 20:15, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
IS-HBBP
Decachlorobiphenyl
Aroclor-1016
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
2.687
2.965
3.330
3.654
3.922
4.088
4.420
5.200
5.400
6.506
6.626
7.263
8.626
10.677
12.059
12.374
13.449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AIA 0531B020.cdf
31-MAY-2007 20:15, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
IS-HBBP
Decachlorobiphenyl
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
4.082
4.422
5.783
6.871
7.809
8.423
8.585
8.646
11.421
11.779
11.909
12.349
12.749

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: Y3-RB-01
SAMPLE

Lab Sample ID: KZ560
LIMS ID: 07-9561
Matrix: Water
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/23/07
Date Analyzed: 05/29/07 15:50
Instrument/Analyst: ECD5/LJR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.5%
Tetrachlorometaxylene	65.8%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0529-1.b/0529B016.d
Data file 2: 20070529.b/0529-2.b/0529B016.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ560
Client ID:
Injection Date: 29-MAY-2007 15:50
Report Date: 06/04/2007 14:22
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.575	0.002	13215131	4.672	0.001	8207586	26.2	26.3	0.6	Tetrachloro-m-xylene
11.150	0.001	7198989	11.542	0.000	4004662	26.2	25.7	1.8	Decachlorobiphenyl

EJK
6/4/07

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	65.5	65.8
Decachlorobiphenyl	65.4	64.2

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	42587869	32.0
Hexabromobiphenyl	5108210	6890583	34.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	27506899	35.4
Hexabromobiphenyl	3608946	5065594	40.4

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

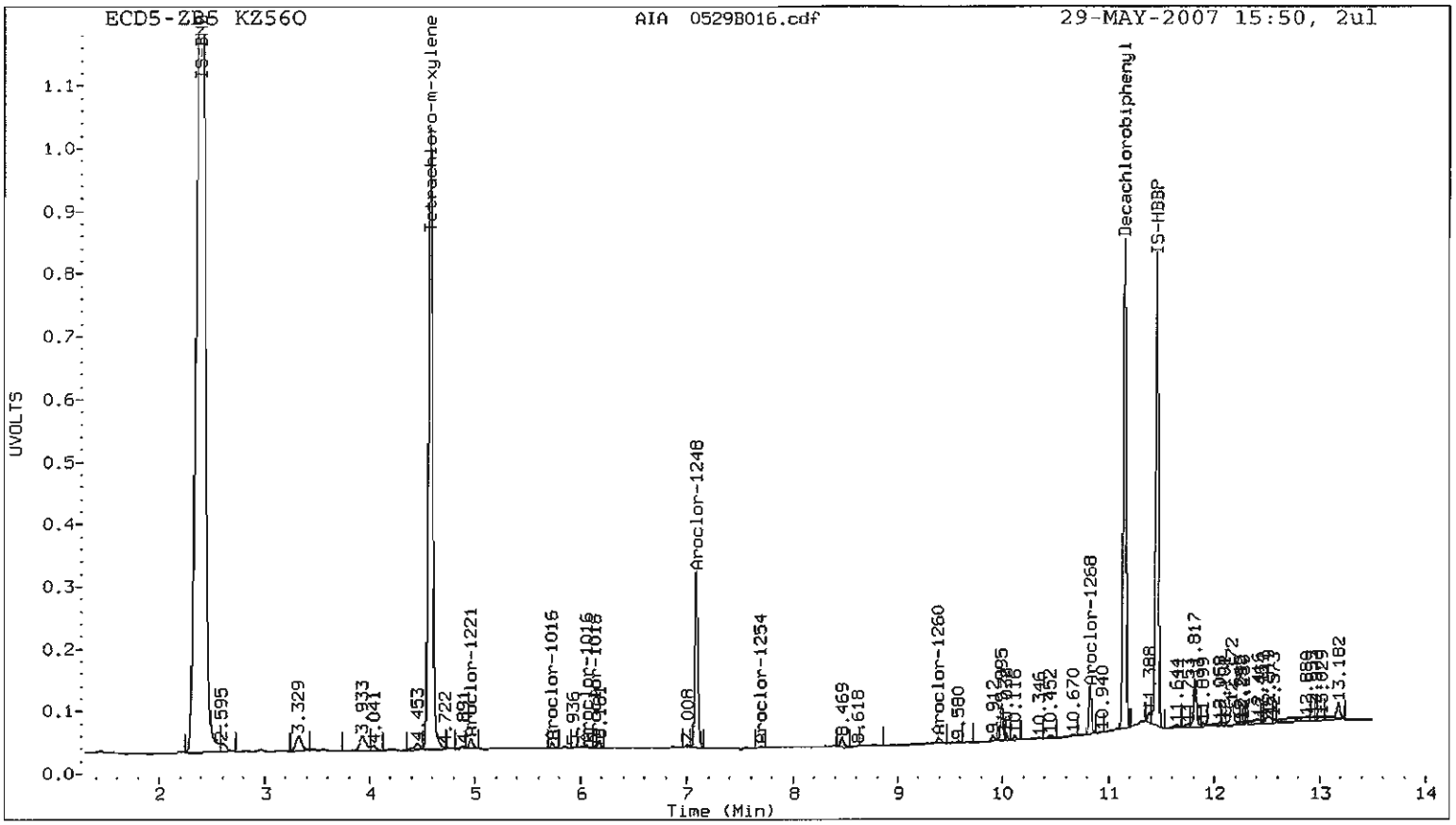
Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.731	-0.002	98845	7.5	1	5.881	0.002	37485	2.9
Aroclor-1016	2	6.059	0.036	41515	1.0	2	6.346	0.002	80688	3.1
Aroclor-1016	3	6.140	0.004	24973	1.5	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
Total Col1Ave (3 peaks):				3.3		Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	5.169	0.044	179800	40.3
Aroclor-1221	2	4.963	0.009	184494	39.9	2	5.297	-0.002	31226	11.8
Aroclor-1221	3	---			0.0	3	5.422	0.041	82405	10.0
Aroclor-1221	NS	---			----	4	5.881	-0.011	37485	11.7
Col1Ave: <3 Quant Peaks						Col2Ave: 18.4				
Aroclor-1232	1	---			0.0	1	5.422	0.041	82405	12.3
Aroclor-1232	2	5.731	-0.003	98845	16.7	2	5.881	-0.002	37485	5.9
Aroclor-1232	3	6.059	0.036	41515	2.2	3	6.346	0.002	80688	7.0
Aroclor-1232	4	6.140	0.003	24973	3.3	4	7.371	-0.028	45489	10.3
Total Col1Ave (3 peaks):				7.4		Total Col2Ave (4 peaks):			8.9	RPD = 18
Corrected Ave: < 3 Peaks						Corrected Ave (4 peaks):			8.9	
Aroclor-1242	1	5.731	-0.004	98845	8.3	1	5.422	0.041	82405	13.9
Aroclor-1242	2	6.059	0.033	41515	1.1	2	5.881	-0.001	37485	3.2
Aroclor-1242	3	6.140	0.003	24973	1.6	3	6.346	0.001	80688	3.5
Aroclor-1242	4	---			0.0	4	---			0.0
Aroclor-1242	NS	---			----	5	7.371	-0.028	45489	5.1
Total Col1Ave (3 peaks):				3.7		Total Col2Ave (4 peaks):			6.4	RPD = 55*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):			3.9	
Aroclor-1248	1	6.059	0.039	41515	1.5	1	6.346	0.004	80688	4.8
Aroclor-1248	2	6.140	0.001	24973	2.8	2	6.690	-0.018	15581	1.7
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	7.371	-0.028	45489	3.0
Aroclor-1248	5	7.085	-0.015	2806741	104.7	NS	---			----
Total Col1Ave (3 peaks):				36.3		Total Col2Ave (3 peaks):			3.2	RPD = 168*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):			3.2	
Aroclor-1254	1	---			0.0	1	7.643	-0.005	28204	1.8
Aroclor-1254	2	7.696	0.039	29341	1.5	2	8.099	0.014	36948	3.3
Aroclor-1254	3	---			0.0	3	8.259	0.048	22354	1.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	NS	---			----
Col1Ave: <3 Quant Peaks						Col2Ave: 2.0				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	9.392	0.024	192134	4.5	3	---			0.0
Aroclor-1260	4	---			0.0	4	9.751	0.041	739686	27.3
Aroclor-1260	5	---			0.0	5	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	9.392	0.024	192134	3.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	9.751	0.040	739686	20.5
Aroclor-1262	4	---			0.0	4	10.120	-0.028	29522	2.0
Aroclor-1262	5	---			0.0	5	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	10.120	-0.026	29522	0.8
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	10.826	0.012	728291	6.0	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (4.673 - 11.049) = 5493080 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 1538799 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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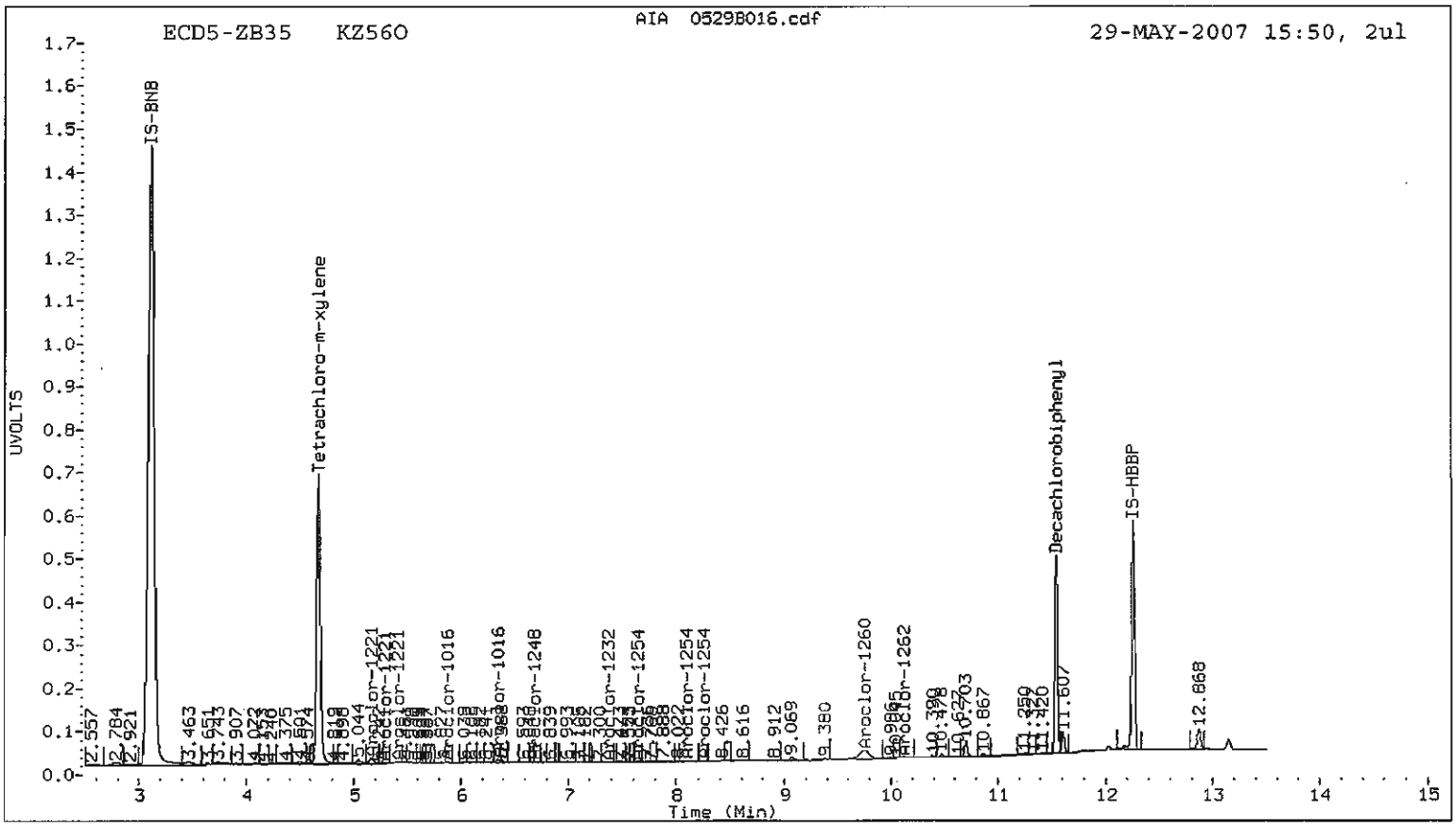
29-MAY-2007 15:50, 2ul
UVOLTS
Time (Min)
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
Aroclor-1248
Aroclor-1221
Aroclor-1016
Aroclor-1254
Aroclor-1260
Aroclor-1268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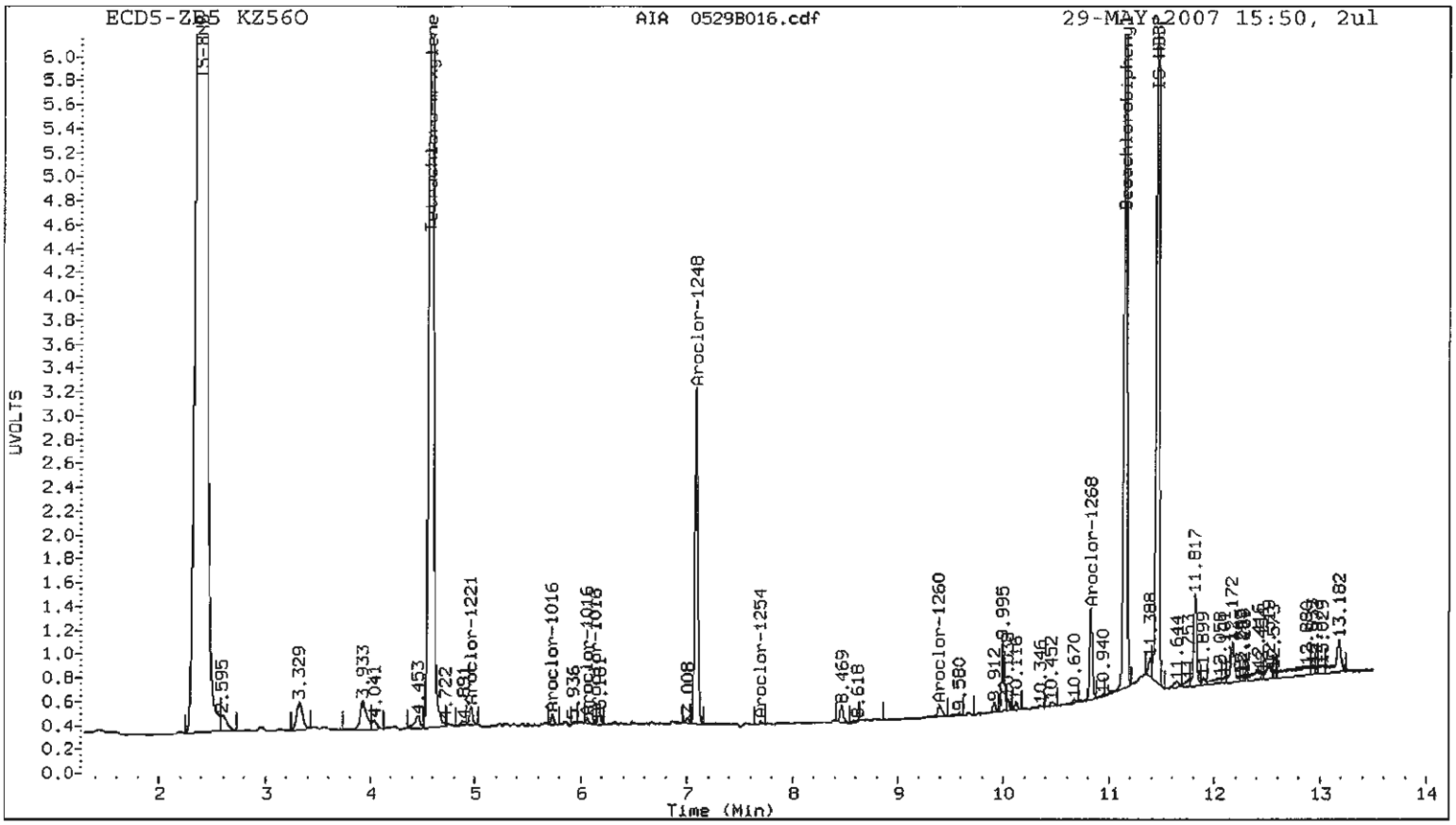
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262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AIA 0529B016.cdf
29-MAY-2007 15:50, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBB
Aroclor-1268
Aroclor-1221
Aroclor-1016
Aroclor-1254
Aroclor-1260
2.595
3.329
3.933
4.041
4.453
4.722
4.891
5.936
7.008
8.469
8.618
9.580
9.912
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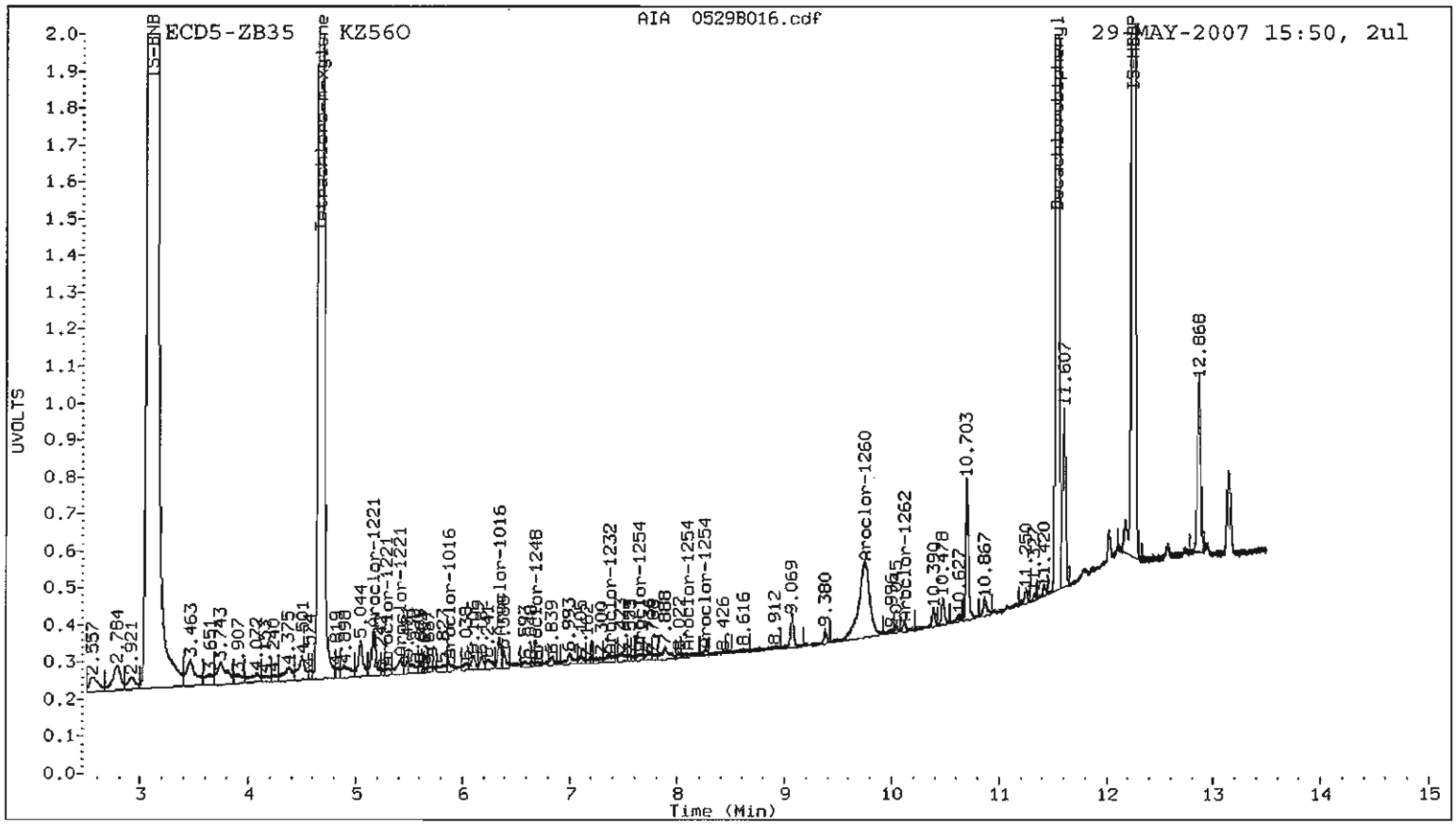
10.345
10.452
10.670
10.940
11.388
11.817
13.182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29-MAY-2007 15:50, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBB
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1232
Aroclor-1254
Aroclor-1260
Aroclor-1262
2.357
2.784
2.921
3.463
3.651
3.743
3.907
5.044
7.868
8.426
8.616
8.912
9.069
9.380
10.399
10.478
10.627
10.703
10.867
11.607
12.868

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC03-S
SAMPLE

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/30/07 22:09
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 39.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.7	< 9.7 U
53469-21-9	Aroclor 1242	9.7	< 9.7 U
12672-29-6	Aroclor 1248	15	< 15 Y
11097-69-1	**Aroclor 1254**	**9.7**	**26**
11096-82-5	**Aroclor 1260**	**9.7**	**31**
11104-28-2	Aroclor 1221	9.7	< 9.7 U
11141-16-5	Aroclor 1232	9.7	< 9.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	82.5%
Tetrachlorometaxylene	78.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0530-1.b/0530B031.d
Data file 2: 20070529.b/0530-2.b/0530B031.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56P
Client ID: Y3-RC03-S
Injection Date: 30-MAY-2007 22:09
Report Date: 06/04/2007 14:17
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	10927105	4.674	0.003	6698172	31.2	30.5	2.2	Tetrachloro-m-xylene
11.155	0.006	4366543	11.541	-0.001	2985783	33.0	28.8	13.4	Decachlorobiphenyl MN

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	77.9	76.2
Decachlorobiphenyl	82.4	72.1

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	29583882	-8.3
Hexabromobiphenyl	5108210	3317143	-35.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	19400733	-4.5
Hexabromobiphenyl	3608946	3364894	-6.8

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT (ZB5 Col)	Shift	Area	Amount	Peak#	RT (ZB35 Col)	Shift	Area	Amount
Aroclor-1016	1	5.736	0.003	1159751	126.2	1	---			0.0
Aroclor-1016	2	6.046	0.023	3507392	118.3	2	6.349	0.004	959234	51.9
Aroclor-1016	3	6.142	0.006	1250157	107.4	3	6.516	0.010	1923209	262.4
Aroclor-1016	4	6.394	0.003	1364231	182.8	4	7.047	0.004	702027	117.8
Total Col1Ave (4 peaks):				133.7	Total Col2Ave (3 peaks):				144.0	RPD = 7
Corrected Ave (4 peaks):				133.7	Corrected Ave: < 3 Peaks					
Aroclor-1221	1	4.809	-0.017	1205891	227.6	1	5.171	0.046	467569	148.6
Aroclor-1221	2	4.962	0.009	146759	45.7	2	5.289	-0.010	53794	28.9
Aroclor-1221	3	5.049	0.023	237101	23.3	3	5.355	-0.026	11329096	1947.2
Aroclor-1221	NS	---			----	4	---			0.0
Total Col1Ave (3 peaks):				98.9	Total Col2Ave (3 peaks):				708.2	RPD = 151*
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					
Aroclor-1232	1	5.049	0.022	237101	28.3	1	5.355	-0.026	11329096	2390.0
Aroclor-1232	2	5.736	0.002	1159751	282.7	2	---			0.0
Aroclor-1232	3	6.046	0.022	3507392	265.2	3	6.349	0.004	959234	118.0
Aroclor-1232	4	6.142	0.005	1250157	240.2	4	7.402	0.003	1237361	396.7
Total Col1Ave (4 peaks):				204.1	Total Col2Ave (3 peaks):				968.2	RPD = 130*
Corrected Ave (4 peaks):				204.1	Corrected Ave: < 3 Peaks					
Aroclor-1242	1	5.736	0.001	1159751	140.3	1	5.355	-0.025	11329096	2716.2
Aroclor-1242	2	6.046	0.020	3507392	131.2	2	---			0.0
Aroclor-1242	3	6.142	0.004	1250157	117.9	3	6.349	0.004	959234	58.5
Aroclor-1242	4	6.774	0.008	957449	97.9	4	6.516	0.010	1923209	289.6
Aroclor-1242	NS	---			----	5	7.402	0.003	1237361	197.2
Total Col1Ave (4 peaks):				121.8	Total Col2Ave (4 peaks):				815.4	RPD = 148*
Corrected Ave (4 peaks):				121.8	Corrected Ave (3 peaks):				181.8	RPD = 40
Aroclor-1248	1	6.046	0.026	3507392	184.2	1	6.349	0.006	959234	80.5
Aroclor-1248	2	6.142	0.003	1250157	204.2	2	6.711	0.002	639173	99.6
Aroclor-1248	3	6.394	0.003	1364231	134.1	3	7.047	0.003	702027	86.3
Aroclor-1248	4	6.774	0.009	957449	66.3	4	7.402	0.003	1237361	116.2
Aroclor-1248	5	7.113	0.013	3977700	213.6	NS	---			----
Total Col1Ave (5 peaks):				160.5	Total Col2Ave (4 peaks):				95.6	RPD = 51*
Corrected Ave (5 peaks):				160.5	Corrected Ave (4 peaks):				95.6	RPD = 51*
Aroclor-1254	1	7.358	0.006	6033752	293.8	1	7.643	-0.005	4360645	389.2
Aroclor-1254	2	7.665	0.008	6666826	499.6	2	8.089	0.003	1534043	197.1
Aroclor-1254	3	7.776	0.007	6541285	269.5	3	8.214	0.004	4150518	251.5
Aroclor-1254	4	8.053	0.001	6635149	258.8	4	8.871	0.011	2557129	266.2
Aroclor-1254	5	8.363	0.006	3698825	234.2	NS	---			----
Total Col1Ave (5 peaks):				311.2	Total Col2Ave (4 peaks):				276.0	RPD = 12
Corrected Ave (5 peaks):				311.2	Corrected Ave (4 peaks):				276.0	RPD = 12
Aroclor-1260	1	8.809	0.006	3005386	326.5	1	9.124	0.003	1611641	243.6
Aroclor-1260	2	9.077	0.006	2641592	322.9	2	9.190	0.001	1225967	301.8
Aroclor-1260	3	9.377	0.008	6854486	331.7	3	9.505	0.002	3099782	390.3
Aroclor-1260	4	9.713	0.005	2713672	271.3	4	9.713	0.003	4651969	258.2
Aroclor-1260	5	9.865	0.007	1684859	340.9	5	10.201	0.002	2864608	284.6
Total Col1Ave (5 peaks):				318.7	Total Col2Ave (5 peaks):				295.7	RPD = 7
Corrected Ave (5 peaks):				318.7	Corrected Ave (5 peaks):				295.7	RPD = 7
Aroclor-1262	1	9.077	0.007	2641592	206.5	1	9.124	0.003	1611641	125.6
Aroclor-1262	2	9.377	0.009	6854486	220.4	2	9.505	0.002	3099782	263.3
Aroclor-1262	3	9.713	0.005	2713672	287.0	3	9.713	0.002	4651969	193.8
Aroclor-1262	4	9.865	0.006	1684859	133.4	4	10.122	-0.026	6442978	666.1
Aroclor-1262	5	10.408	0.009	4506612	498.7	5	10.791	0.003	1359124	203.4
Total Col1Ave (5 peaks):				269.2	Total Col2Ave (5 peaks):				290.5	RPD = 8
Corrected Ave (4 peaks):				211.9	Corrected Ave (4 peaks):				196.5	RPD = 7
Aroclor-1268	1	9.805	0.007	1486554	45.5	1	10.122	-0.024	6442978	272.4
Aroclor-1268	2	9.865	0.008	1684859	57.5	2	10.201	-0.003	2864608	132.7
Aroclor-1268	3	10.201	0.022	750918	29.9	3	10.544	0.005	363771	20.8

150y

264 238 272

Aroclor-1268	4	10.824	0.009	959884	16.4	4	11.195	0.000	431977	9.4

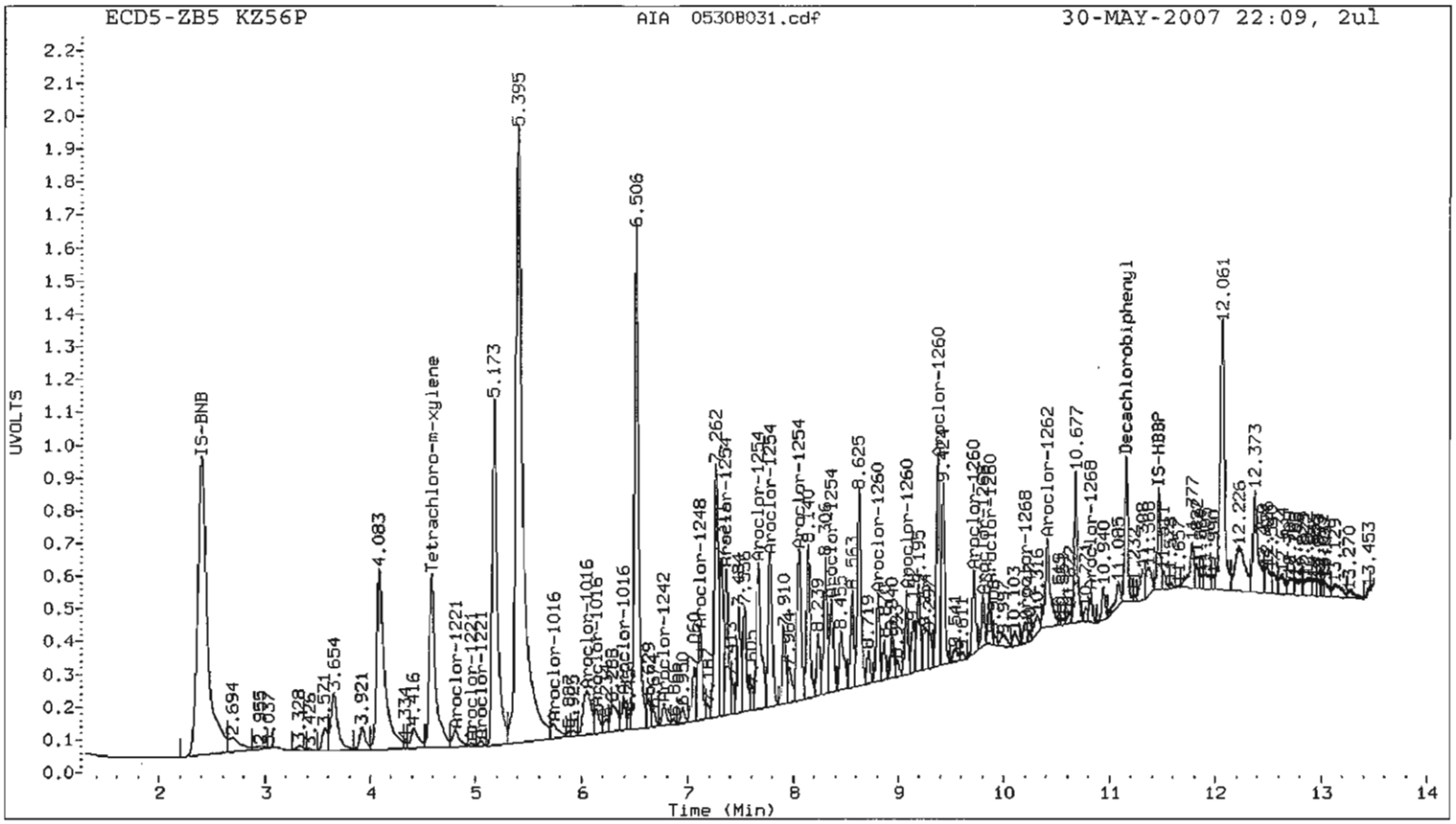
Total Col1Ave (4 peaks): 37.3 Total Col2Ave (4 peaks): 108.8 RPD = 98*
Corrected Ave (4 peaks): 37.3 Corrected Ave (3 peaks): 54.3 RPD = 37

Total PCB Area Col1 (4.673 - 11.049) = 245212112 Col1 Total PCB = 1.2 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 175485000 Col2 Total PCB = 1.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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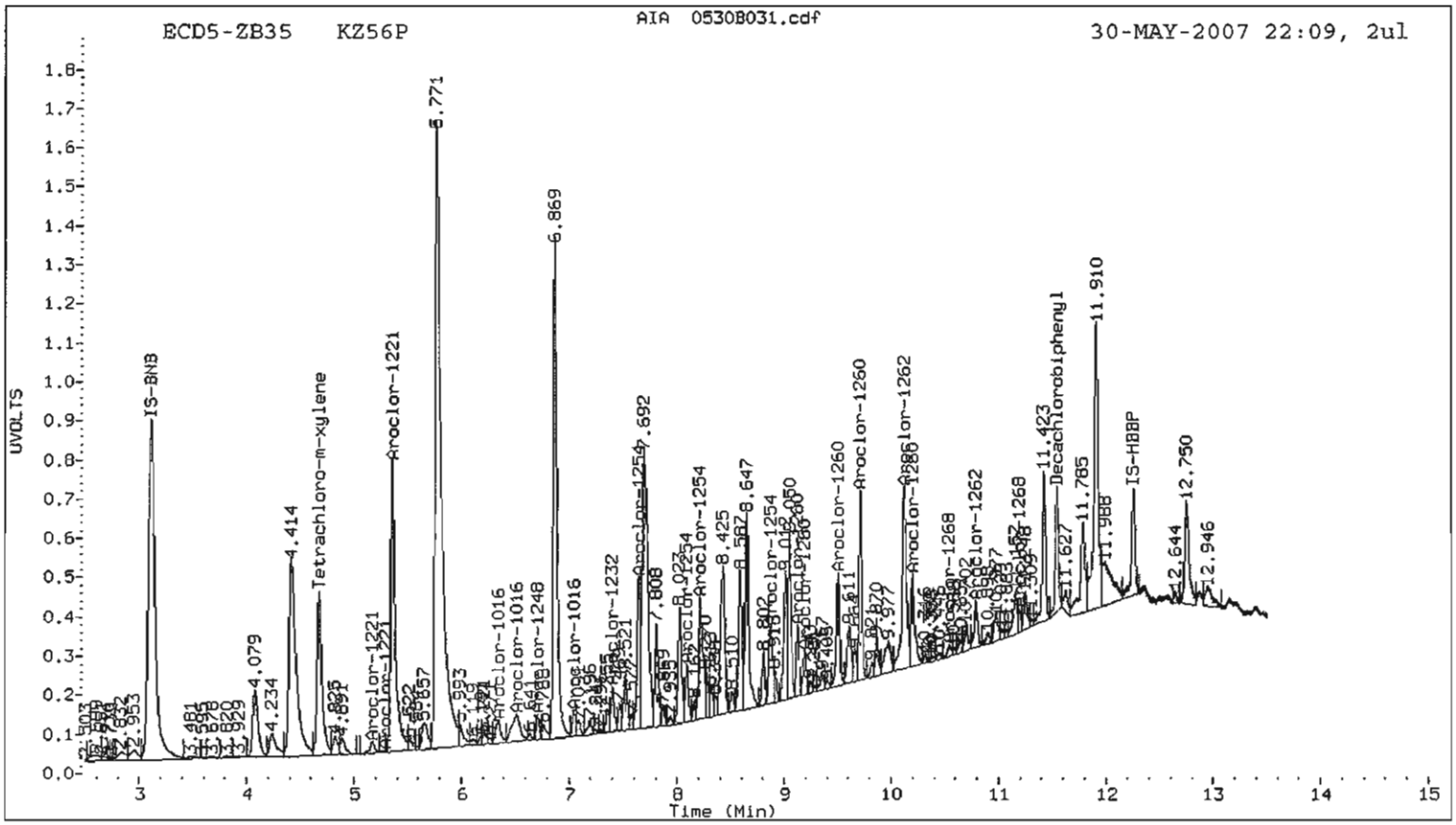
Decachlorobiphenyl
IS-HBBP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Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: Y3-RC03-S
DILUTION

Lab Sample ID: KZ56P
LIMS ID: 07-9562
Matrix: Sediment
Data Release Authorized:
Reported: 06/04/07

QC Report No: KZ56-Tetra Tech, Inc.
Project: THEA FOSS OMMP YEAR 3
3306
Date Sampled: 05/17/07
Date Received: 05/17/07

Date Extracted: 05/24/07
Date Analyzed: 05/31/07 20:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No
pH: 7.3
Percent Moisture: 39.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	29	< 29 U
53469-21-9	Aroclor 1242	29	< 29 U
12672-29-6	Aroclor 1248	29	< 29 U
11097-69-1	Aroclor 1254	29	< 29 U
11096-82-5	**Aroclor 1260**	**29**	**38**
11104-28-2	Aroclor 1221	29	< 29 U
11141-16-5	Aroclor 1232	29	< 29 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	87.8%
Tetrachlorometaxylene	87.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20070529.b/0531-1.b/0531B021.d
Data file 2: 20070529.b/0531-2.b/0531B021.d
Method: /chem2/ecd5.i/20070529.b/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: KZ56P
Client ID:
Injection Date: 31-MAY-2007 20:32
Report Date: 06/04/2007 11:35
Matrix: SOIL
Dilution Factor: 3.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.581	0.008	3904586	4.674	0.003	2356048	11.6	11.6	0.1	Tetrachloro-m-xylene
11.152	0.002	1406027	11.541	-0.001	773077	10.7	11.7	8.9	Decachlorobiphenyl M

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	87.1	87.0
Decachlorobiphenyl	80.3	87.8

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	32252907	28366998	-12.0
Hexabromobiphenyl	5108210	3287093	-35.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	20316673	17931624	-11.7
Hexabromobiphenyl	3608946	2144805	-40.6

* Standard Areas taken from Initial Cal Level 4
Initial Calibration Date: 29-MAY-2007
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	ZB5 Col Peak#	RT	Shift	Area	Amount	ZB35 Col Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	5.732	-0.001	441891	50.1	1	---			0.0
Aroclor-1016	2	6.049	0.025	1208231	42.5	2	6.349	0.005	376803	22.0
Aroclor-1016	3	6.143	0.007	449845	40.3	3	6.517	0.010	740012	109.2
Aroclor-1016	4	6.395	0.003	493960	69.0	4	7.049	0.006	237497	43.1
Total Col1Ave (4 peaks):				50.5		Total Col2Ave (3 peaks):			58.1	RPD = 14
Corrected Ave (4 peaks):				50.5		Corrected Ave: < 3 Peaks				
Aroclor-1221	1	4.813	-0.012	1329806	261.8	1	5.130	0.004	34626	11.9
Aroclor-1221	2	---			0.0	2	5.272	-0.026	472016	274.7
Aroclor-1221	3	5.054	0.027	87437	8.9	3	5.356	-0.025	3280389	610.0
Aroclor-1221	NS	---			----	4	---			0.0
Col1Ave: <3 Quant Peaks						Col2Ave: 298.9				
Aroclor-1232	1	5.054	0.027	87437	10.9	1	5.356	-0.025	3280389	748.7
Aroclor-1232	2	5.732	-0.002	441891	112.3	2	---			0.0
Aroclor-1232	3	6.049	0.025	1208231	95.3	3	6.349	0.005	376803	50.2
Aroclor-1232	4	6.143	0.006	449845	90.1	4	7.403	0.003	418676	145.2
Total Col1Ave (4 peaks):				77.2		Total Col2Ave (3 peaks):			314.7	RPD = 121*
Corrected Ave (4 peaks):				77.2		Corrected Ave: < 3 Peaks				
Aroclor-1242	1	5.732	-0.003	441891	55.8	1	5.356	-0.024	3280389	850.9
Aroclor-1242	2	6.049	0.023	1208231	47.1	2	---			0.0
Aroclor-1242	3	6.143	0.006	449845	44.3	3	6.349	0.004	376803	24.9
Aroclor-1242	4	6.773	0.007	351469	37.5	4	6.517	0.011	740012	120.6
Aroclor-1242	NS	---			----	5	7.403	0.003	418676	72.2
Total Col1Ave (4 peaks):				46.2		Total Col2Ave (4 peaks):			267.1	RPD = 141*
Corrected Ave (4 peaks):				46.2		Corrected Ave (3 peaks):			72.6	RPD = 44*
Aroclor-1248	1	6.049	0.029	1208231	66.2	1	6.349	0.007	376803	34.2
Aroclor-1248	2	6.143	0.004	449845	76.6	2	6.712	0.003	228934	38.6
Aroclor-1248	3	6.395	0.004	493960	50.6	3	7.049	0.005	237497	31.6
Aroclor-1248	4	6.773	0.008	351469	25.4	4	7.403	0.004	418676	42.5
Aroclor-1248	5	7.111	0.012	1312709	73.5	NS	---			----
Total Col1Ave (5 peaks):				58.5		Total Col2Ave (4 peaks):			36.7	RPD = 46*
Corrected Ave (5 peaks):				58.5		Corrected Ave (4 peaks):			36.7	RPD = 46*
Aroclor-1254	1	7.360	0.008	2009865	102.1	1	7.643	-0.005	1432587	138.3
Aroclor-1254	2	7.665	0.008	2177670	170.2	2	8.087	0.002	498354	69.3
Aroclor-1254	3	7.776	0.007	2179360	93.6	3	8.214	0.003	1330272	87.2
Aroclor-1254	4	8.052	0.000	2250076	91.5	4	8.869	0.009	811124	91.3
Aroclor-1254	5	8.363	0.006	1244698	82.2	NS	---			----
Total Col1Ave (5 peaks):				107.9		Total Col2Ave (4 peaks):			96.5	RPD = 11
Corrected Ave (5 peaks):				107.9		Corrected Ave (4 peaks):			96.5	RPD = 11
Aroclor-1260	1	8.808	0.005	1011922	111.0	1	9.123	0.002	520473	123.4
Aroclor-1260	2	9.076	0.005	913207	112.7	2	9.190	0.001	374379	144.6
Aroclor-1260	3	9.373	0.005	2176855	106.3	3	9.503	0.000	955712	188.8
Aroclor-1260	4	9.714	0.006	837875	84.5	4	9.711	0.001	1479927	128.9
Aroclor-1260	5	9.866	0.007	528234	107.8	5	10.199	0.000	818128	127.5
Total Col1Ave (5 peaks):				104.5		Total Col2Ave (5 peaks):			142.6	RPD = 31
Corrected Ave (5 peaks):				104.5		Corrected Ave (5 peaks):			142.6	RPD = 31
Aroclor-1262	1	9.076	0.005	913207	72.1	1	9.123	0.002	520473	63.7
Aroclor-1262	2	9.373	0.005	2176855	70.6	2	9.503	0.001	955712	127.4
Aroclor-1262	3	9.714	0.006	837875	89.4	3	9.711	0.000	1479927	96.7
Aroclor-1262	4	9.866	0.007	528234	42.2	4	10.120	-0.028	1912328	310.2
Aroclor-1262	5	10.405	0.006	1782631	199.1	5	10.788	0.000	350479	82.3
Total Col1Ave (5 peaks):				94.7		Total Col2Ave (5 peaks):			136.0	RPD = 36
Corrected Ave (4 peaks):				68.6		Corrected Ave (4 peaks):			92.5	RPD = 30
Aroclor-1268	1	9.801	0.004	490410	15.1	1	10.120	-0.026	1912328	126.8
Aroclor-1268	2	9.866	0.009	528234	18.2	2	10.199	-0.005	818128	59.4
Aroclor-1268	3	10.201	0.022	229253	9.2	3	10.541	0.002	162526	14.6
Aroclor-1268	4	10.824	0.010	560435	9.6	4	11.192	-0.003	78963	2.7

131

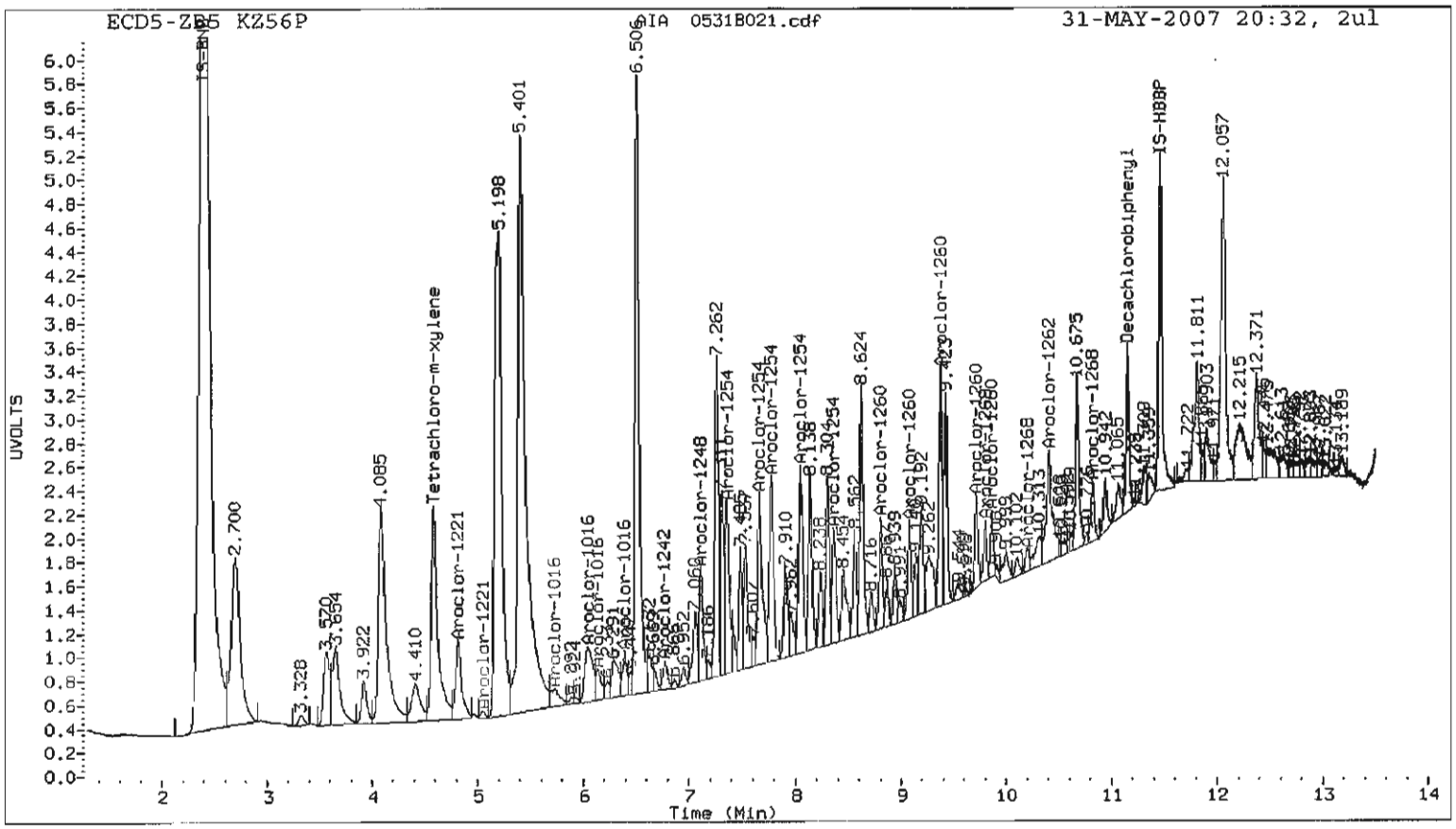
Total Col1Ave (4 peaks):	13.0	Total Col2Ave (4 peaks):	50.9	RPD = 118*
Corrected Ave (4 peaks):	13.0	Corrected Ave (3 peaks):	25.6	RPD = 65*

Total PCB Area Col1 (4.673 - 11.049) = 85838928 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (4.771 - 11.442) = 57446284 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Aroclor-1242
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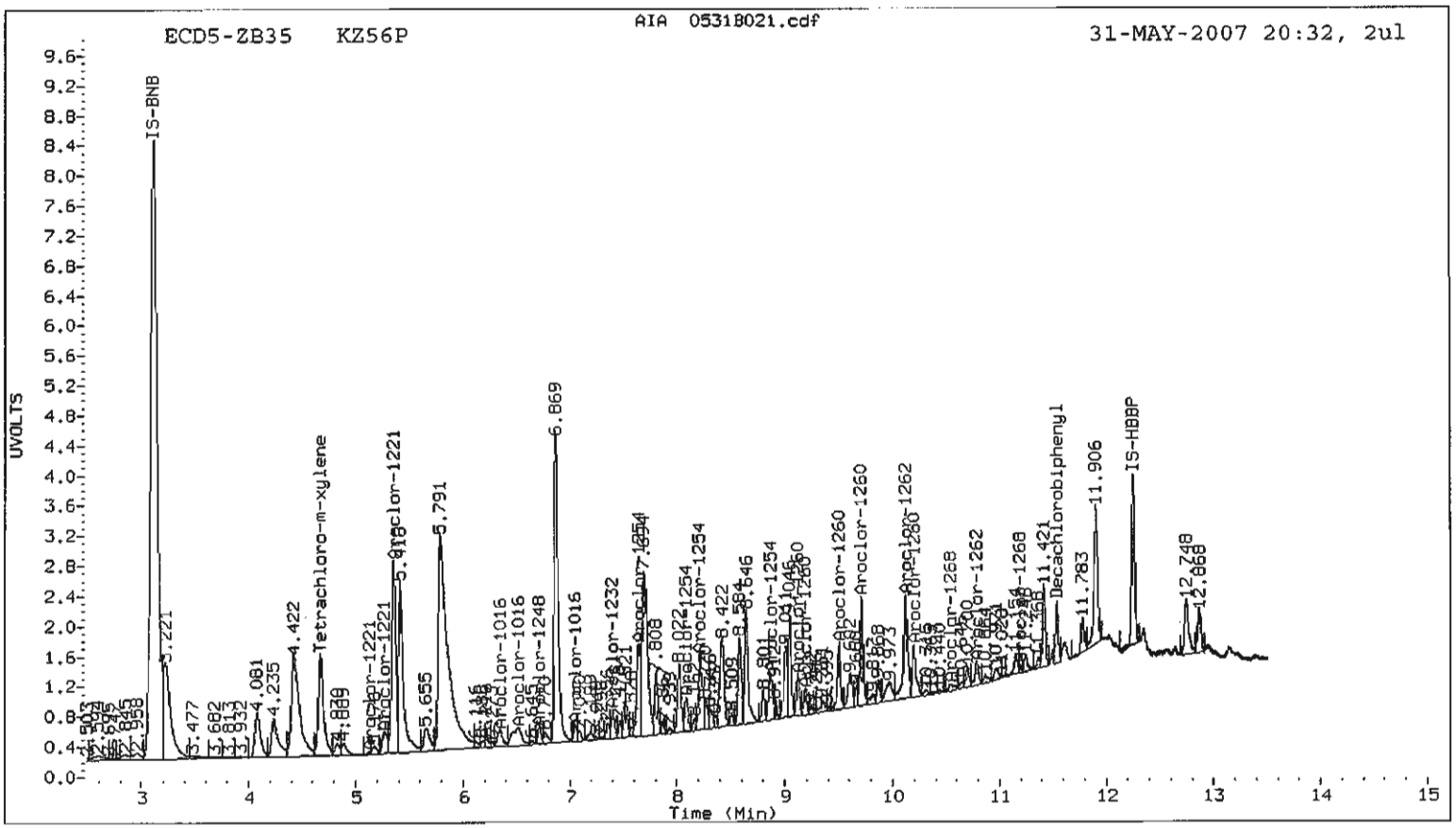
Decachlorobiphenyl
IS-HBBP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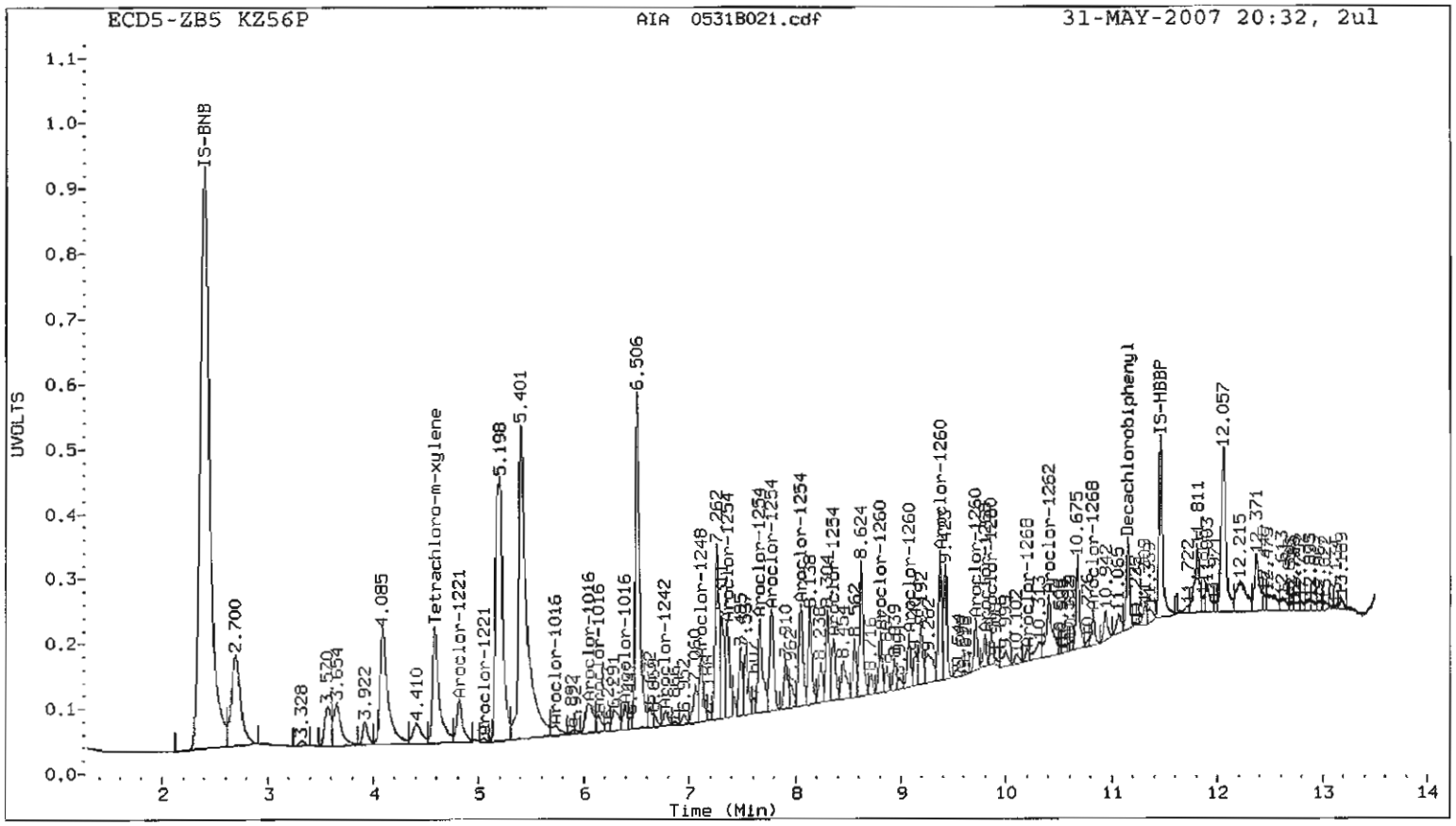
IS-HBBP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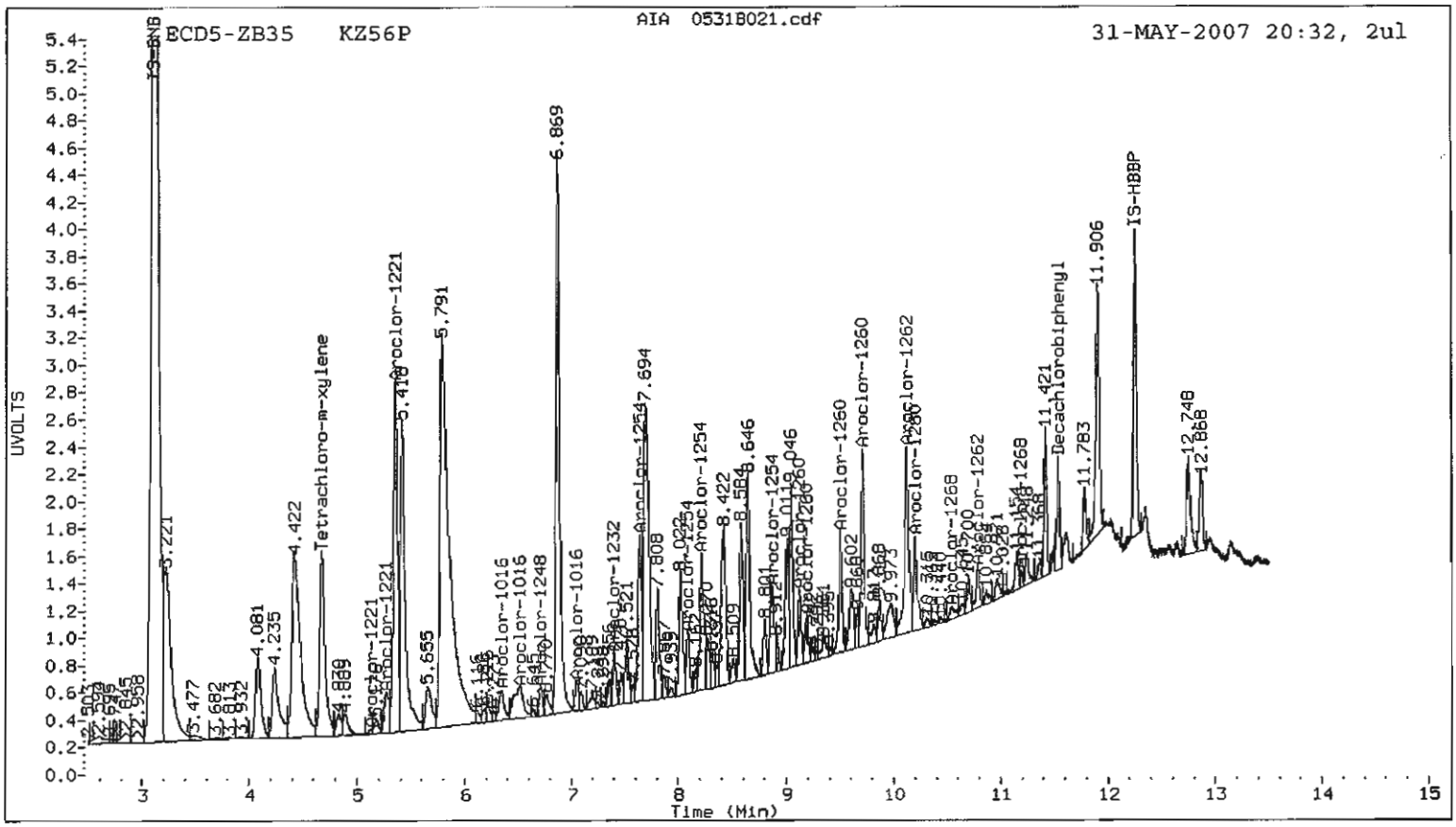
Decachlorobiphenyl
IS-HBBP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